

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P320822

Luminaire Tested: **GLEON-SA8D-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43426 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

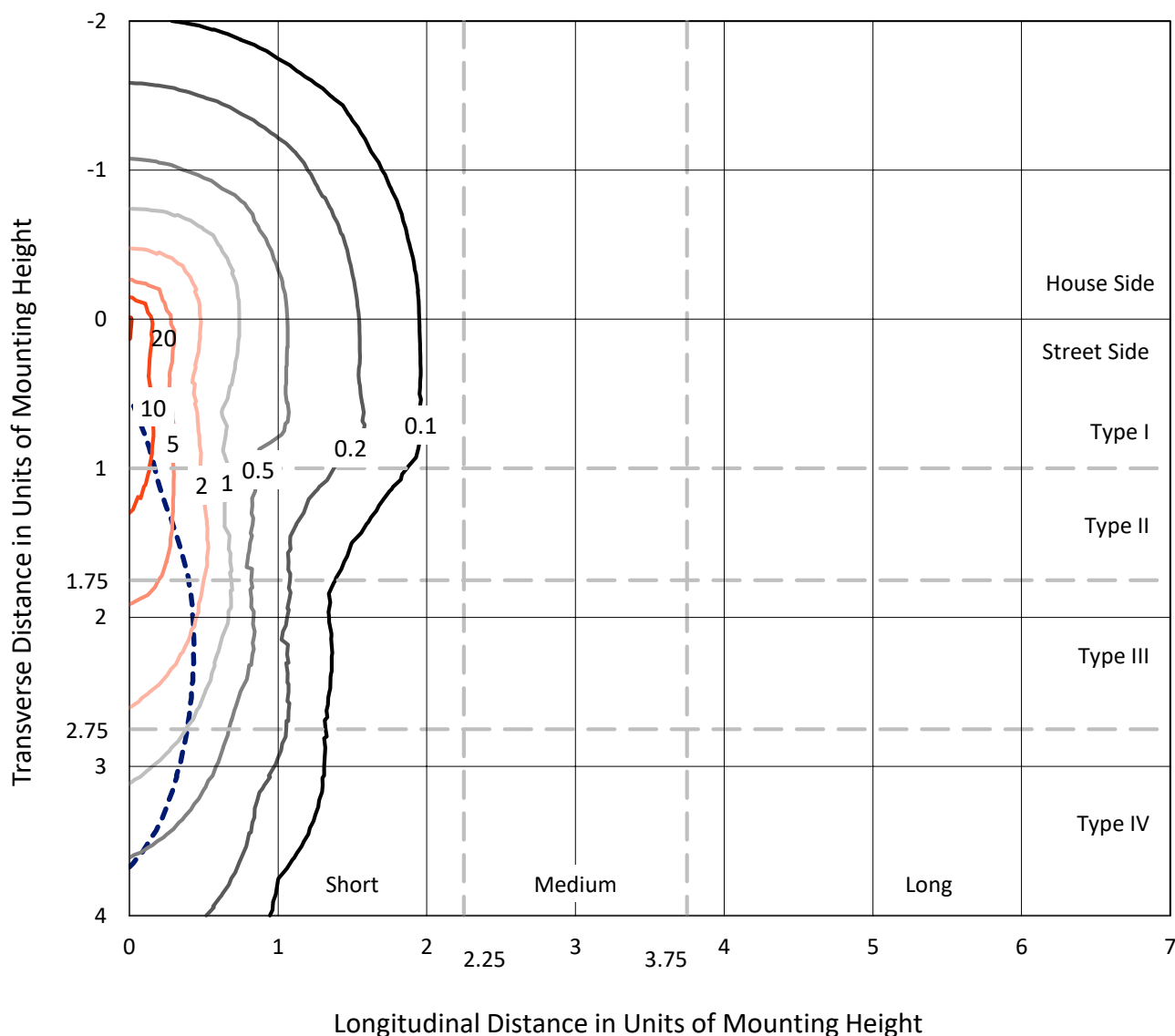
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

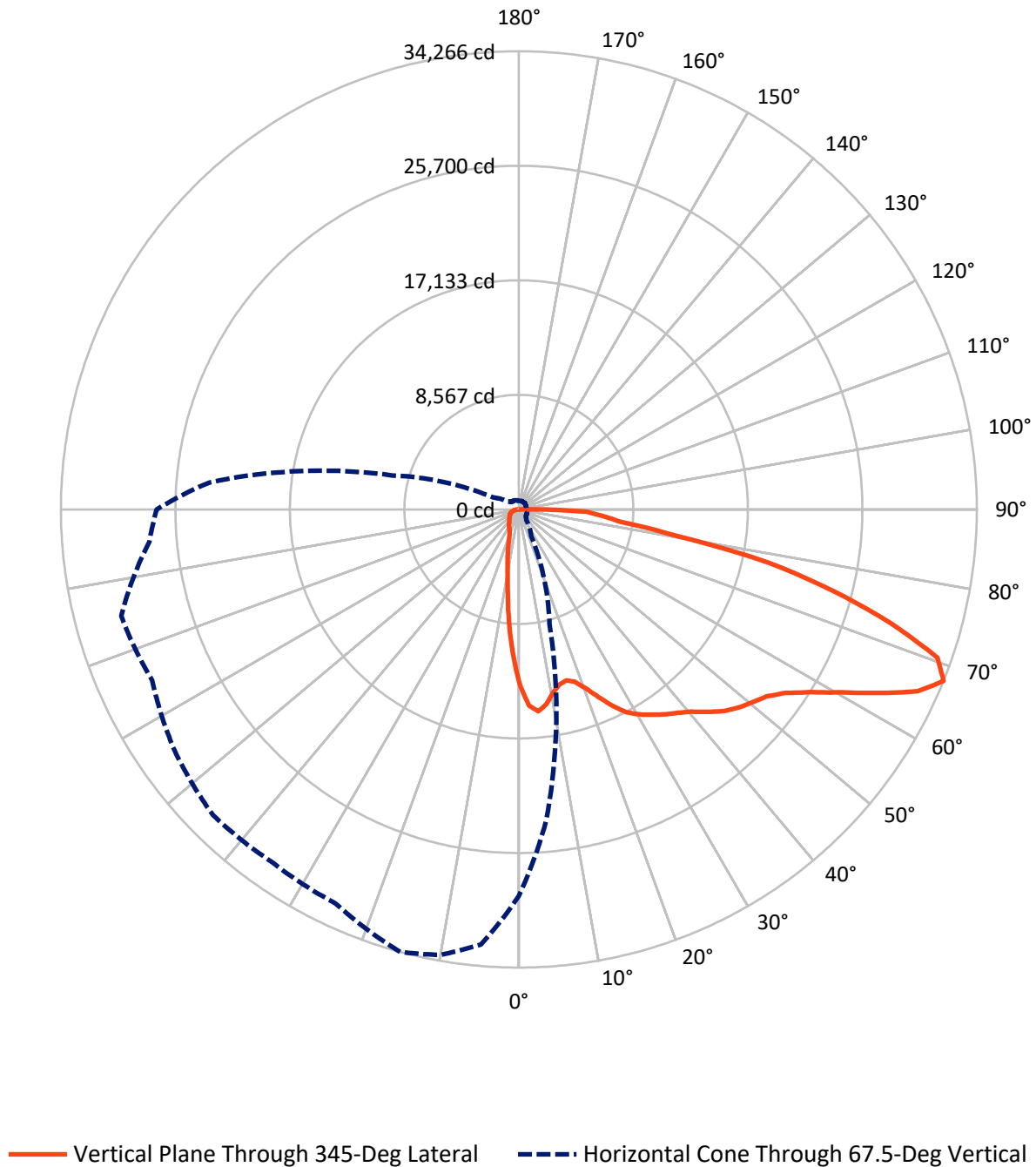
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7507.4	0.0	7507.4
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	35918.6	0.0	35918.6
	% Fixture	82.7	0.0	82.7
Total	Lumens	43426.0	0.0	43426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.1	2.4
10°-20°	2121.1	4.9
20°-30°	3016.7	6.9
30°-40°	4347.1	10.0
40°-50°	6126.3	14.1
50°-60°	8516.6	19.6
60°-70°	10299.1	23.7
70°-80°	6330.7	14.6
80°-90°	1647.3	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43426.0	100.0
0°-180°	43426.0	100.0

Coefficient of Utilization



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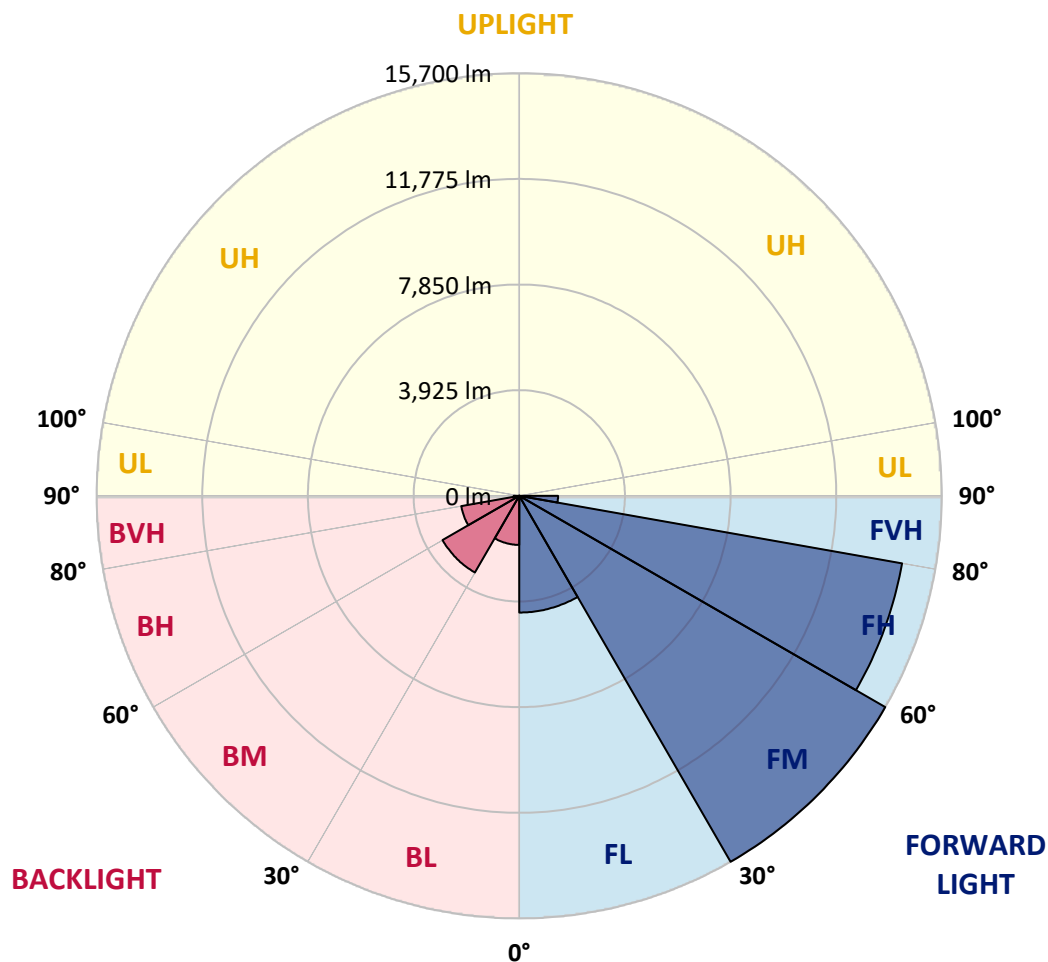
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4336.2	10.0			
FM	(30°-60°)	15699.6	36.2			
FH	(60°-80°)	14442.0	33.3			G5
FVH	(80°-90°)	1440.8	3.3			G5
BL	(0°-30°)	1822.7	4.2	B3/2500		
BM	(30°-60°)	3290.4	7.6	B3/5000		
BH	(60°-80°)	2187.8	5.0	B3/2500		G3/2500
BVH	(80°-90°)	206.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	14172.8	14047.8	13858.5	13669.3	13528.7	13386.3	13224.8	13063.4	12879.3	12693.5	12584.2
5°	13938.4	13591.2	13139.7	12688.3	12389.7	12091.1	11752.5	11413.9	11078.8	10743.8	10563.2
7.5°	12882.8	12361.9	11775.1	11188.2	10754.2	10318.4	9849.6	9379.1	8962.4	8544.0	8285.3
10°	11844.5	11219.5	10545.8	9870.4	9314.8	8759.3	8288.7	7816.5	7502.2	7188.0	6950.1
12.5°	11099.7	10406.9	9665.6	8922.5	8366.9	7811.3	7512.6	7214.0	6953.6	6693.1	6418.8
15°	10804.5	10021.5	9262.8	8502.3	7997.1	7491.8	7160.2	6826.8	6477.9	6127.1	5790.3
17.5°	11065.0	10148.2	9323.5	8498.8	7837.3	7175.8	6712.2	6246.9	5786.8	5326.7	4936.1
20°	11877.5	10707.3	9629.1	8549.2	7668.9	6788.6	6167.1	5543.8	4953.4	4363.1	3920.4
22.5°	13018.2	11469.5	10061.4	8653.3	7516.1	6377.2	5597.6	4816.3	4118.3	3420.4	2986.3
25°	14403.7	12480.0	10684.7	8887.7	7453.6	6017.8	5059.4	4101.0	3364.8	2626.9	2317.9
27.5°	15863.9	13684.9	11459.1	9231.5	7464.0	5696.6	4606.2	3514.1	2850.9	2187.6	1975.8
30°	17081.0	15061.7	12361.9	9660.4	7504.0	5347.6	4179.1	3010.6	2463.7	1916.8	1779.6
32.5°	18193.9	16021.9	13042.5	10061.4	7549.1	5035.1	3849.2	2661.6	2215.4	1767.5	1654.6
35°	19343.3	16874.4	13518.2	10160.4	7471.0	4779.8	3623.5	2467.2	2055.7	1642.5	1547.0
37.5°	20609.0	17796.3	13976.6	10155.2	7339.0	4522.9	3448.1	2371.7	1951.5	1529.6	1460.2
40°	22020.5	18815.5	14473.2	10130.9	7219.2	4305.8	3317.9	2328.3	1894.2	1458.4	1399.4
42.5°	23400.8	19787.8	14935.0	10082.3	7122.0	4160.0	3189.4	2218.9	1842.1	1463.6	1380.3
45°	24437.4	20636.8	15336.1	10033.6	7049.1	4064.5	3088.7	2113.0	1793.5	1474.1	1368.1
47.5°	25223.9	21489.3	15780.5	10070.1	7042.1	4014.2	3017.6	2021.0	1701.5	1380.3	1336.9
50°	26223.9	22513.6	16428.2	10342.7	7137.6	3932.5	2934.2	1934.2	1613.0	1291.8	1350.8
52.5°	27468.8	23975.5	17431.7	10886.1	7337.3	3788.4	2802.3	1816.1	1505.3	1192.8	1284.8
55°	29297.1	25848.9	18714.8	11578.9	7578.6	3576.6	2602.6	1626.8	1362.9	1097.3	1178.9
57.5°	30937.8	27741.4	19945.7	12148.4	7729.7	3309.2	2350.8	1392.5	1203.2	1014.0	1060.8
60°	31668.7	28717.2	20522.2	12325.5	7639.4	2953.3	2067.8	1180.6	1062.6	944.5	935.8
62.5°	31384.0	28097.3	19954.4	11811.5	7198.4	2585.2	1817.8	1050.4	961.9	871.6	852.5
65°	30550.6	26149.3	18364.0	10578.8	6453.5	2328.3	1659.8	991.4	892.4	793.5	772.6
67.5°	28908.1	23376.5	16110.4	8844.3	5507.3	2170.3	1569.5	968.8	849.0	727.5	703.2
70°	25960.0	20039.5	13514.8	6988.3	4531.5	2073.1	1510.5	948.0	802.1	654.6	632.0
72.5°	21322.6	16067.0	10792.4	5516.0	3788.4	2060.9	1503.6	946.2	763.9	581.6	560.8
75°	15266.6	12203.9	8238.4	4271.1	3102.6	1934.2	1427.2	920.2	711.9	501.8	482.7
77.5°	10273.2	8446.7	5726.1	3003.7	2302.2	1600.8	1199.7	798.7	609.4	420.2	401.1
80°	6597.7	5845.9	3837.1	1828.2	1493.2	1158.1	857.7	557.3	444.5	329.9	314.3
82.5°	4840.6	4351.0	2666.8	982.7	829.9	675.4	524.3	373.3	303.8	234.4	227.4
85°	3076.6	3392.6	1963.7	534.8	437.5	340.3	281.3	222.2	175.4	128.5	128.5
87.5°	597.3	826.4	543.4	258.7	189.2	119.8	102.4	83.3	46.9	8.7	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	12473.0	12353.2	12233.4	12098.0	11960.9	11834.1	11705.6	11565.0	11591.0	11483.4	11375.7
5°	10382.6	10191.6	9998.9	9832.2	9665.6	9521.5	9375.6	9245.4	9358.3	9281.9	9205.5
7.5°	8024.8	7788.7	7550.8	7351.2	7151.5	6997.0	6840.7	6733.1	6844.2	6830.3	6816.4
10°	6712.2	6483.1	6252.1	6031.6	5811.1	5623.6	5434.4	5274.7	5246.9	5167.0	5085.4
12.5°	6142.8	5828.5	5512.5	5281.6	5050.7	4826.7	4602.7	4415.2	4330.1	4198.2	4064.5
15°	5453.5	5081.9	4710.4	4448.2	4184.3	3967.3	3748.5	3587.0	3533.2	3430.8	3328.3
17.5°	4545.4	4139.2	3732.9	3467.2	3199.9	3026.2	2850.9	2743.2	2743.2	2713.7	2684.2
20°	3477.7	3114.8	2751.9	2548.8	2345.6	2253.6	2159.9	2114.7	2128.6	2130.3	2130.3
22.5°	2550.5	2328.3	2106.0	2024.4	1941.1	1908.1	1875.1	1856.0	1863.0	1864.7	1866.4
25°	2008.8	1923.7	1836.9	1795.3	1751.9	1731.0	1710.2	1703.2	1718.9	1720.6	1720.6
27.5°	1764.0	1711.9	1658.1	1632.1	1604.3	1595.6	1586.9	1574.8	1590.4	1590.4	1588.6
30°	1640.7	1585.2	1529.6	1496.6	1463.6	1467.1	1468.8	1465.4	1475.8	1482.7	1487.9
32.5°	1540.0	1486.2	1432.4	1399.4	1364.7	1359.5	1354.3	1350.8	1373.4	1385.5	1397.7
35°	1449.7	1390.7	1331.7	1300.4	1269.2	1257.0	1244.9	1236.2	1257.0	1272.7	1288.3
37.5°	1389.0	1328.2	1265.7	1236.2	1204.9	1189.3	1173.7	1163.3	1172.0	1178.9	1185.8
40°	1340.4	1277.9	1213.6	1178.9	1144.2	1128.5	1112.9	1104.2	1109.4	1111.2	1112.9
42.5°	1295.2	1234.5	1173.7	1135.5	1095.6	1076.5	1057.4	1046.9	1050.4	1053.9	1055.6
45°	1262.2	1201.5	1139.0	1093.8	1046.9	1026.1	1005.3	993.1	994.9	994.9	994.9
47.5°	1293.5	1204.9	1114.7	1062.6	1008.7	984.4	960.1	948.0	944.5	941.0	937.6
50°	1408.1	1257.0	1104.2	1038.3	970.5	944.5	916.7	902.8	894.2	890.7	887.2
52.5°	1375.1	1244.9	1112.9	1027.8	941.0	909.8	878.5	856.0	847.3	842.1	836.9
55°	1258.8	1177.2	1093.8	991.4	888.9	861.2	831.7	816.0	800.4	796.9	793.5
57.5°	1106.0	1073.0	1040.0	935.8	831.7	805.6	777.8	767.4	753.5	753.5	751.8
60°	925.4	974.0	1022.6	902.8	781.3	751.8	722.3	713.6	708.4	706.6	704.9
62.5°	831.7	911.5	989.6	862.9	734.4	703.2	671.9	661.5	659.8	661.5	661.5
65°	751.8	776.1	800.4	741.4	682.3	651.1	618.1	607.7	611.2	616.4	621.6
67.5°	678.9	673.7	668.4	647.6	625.0	599.0	571.2	560.8	562.5	569.5	576.4
70°	609.4	602.5	593.8	578.2	562.5	540.0	517.4	510.5	508.7	517.4	524.3
72.5°	540.0	531.3	520.9	508.7	494.8	475.7	456.6	451.4	453.2	458.4	463.6
75°	463.6	456.6	447.9	437.5	425.4	408.0	390.7	387.2	390.7	395.9	401.1
77.5°	380.2	378.5	375.0	366.3	357.7	338.6	317.7	316.0	321.2	326.4	329.9
80°	296.9	298.6	300.4	293.4	286.5	265.6	243.1	241.3	246.5	251.8	257.0
82.5°	218.8	224.0	227.4	218.8	210.1	185.8	161.5	158.0	175.4	180.6	185.8
85°	126.7	133.7	140.6	133.7	126.7	102.4	78.1	76.4	92.0	100.7	109.4
87.5°	10.4	13.9	17.4	15.6	13.9	6.9	0.0	0.0	1.7	8.7	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822
 CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320822

CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	11308.0	11240.3	11219.5	11198.6	11122.3	11044.1	11124.0	11202.1	11235.1	11268.1	11183.0
5°	9195.0	9182.9	9182.9	9181.2	9111.7	9040.5	9094.3	9146.4	9030.1	8913.8	8901.6
7.5°	6891.1	6965.7	7026.5	7085.5	7063.0	7040.4	7090.7	7141.1	6993.5	6844.2	6771.3
10°	5102.8	5118.4	5184.4	5250.3	5266.0	5279.9	5342.4	5403.1	5288.5	5173.9	5123.6
12.5°	3981.2	3897.8	3906.5	3913.5	3944.7	3974.2	4040.2	4104.4	4057.6	4008.9	4014.2
15°	3224.2	3118.3	3074.9	3029.7	3064.4	3099.2	3146.0	3191.2	3192.9	3192.9	3238.1
17.5°	2632.1	2578.3	2534.9	2489.7	2536.6	2581.8	2587.0	2592.2	2593.9	2595.7	2592.2
20°	2156.4	2182.4	2168.5	2154.7	2172.0	2187.6	2201.5	2213.7	2198.1	2180.7	2137.3
22.5°	1890.7	1913.3	1930.7	1946.3	1975.8	2003.6	1989.7	1974.1	1942.8	1909.8	1876.9
25°	1736.2	1751.9	1769.2	1786.6	1810.9	1833.5	1809.1	1784.8	1762.3	1739.7	1717.1
27.5°	1606.0	1621.6	1637.3	1651.1	1673.7	1694.6	1672.0	1649.4	1630.3	1611.2	1593.9
30°	1500.1	1510.5	1522.7	1534.8	1555.7	1574.8	1555.7	1534.8	1520.9	1505.3	1493.2
32.5°	1409.8	1420.2	1425.4	1430.6	1449.7	1468.8	1455.0	1441.1	1428.9	1416.8	1408.1
35°	1310.8	1331.7	1335.2	1338.6	1357.7	1376.8	1368.1	1357.7	1343.8	1329.9	1314.3
37.5°	1210.1	1234.5	1248.3	1260.5	1279.6	1298.7	1290.0	1281.3	1262.2	1243.1	1215.4
40°	1125.1	1135.5	1161.5	1185.8	1217.1	1246.6	1229.2	1210.1	1180.6	1151.1	1137.2
42.5°	1053.9	1052.2	1076.5	1100.8	1147.6	1192.8	1161.5	1130.3	1102.5	1074.7	1071.3
45°	991.4	986.2	998.3	1010.5	1060.8	1109.4	1078.2	1045.2	1029.6	1014.0	1014.0
47.5°	935.8	932.4	941.0	948.0	979.2	1008.7	993.1	977.5	968.8	960.1	961.9
50°	885.5	882.0	890.7	897.6	909.8	920.2	923.7	925.4	920.2	915.0	918.5
52.5°	838.6	838.6	842.1	843.8	859.4	875.1	875.1	873.3	873.3	873.3	876.8
55°	798.7	802.1	802.1	802.1	826.4	849.0	842.1	835.1	836.9	836.9	840.3
57.5°	758.7	763.9	767.4	770.9	795.2	819.5	812.6	805.6	805.6	805.6	807.3
60°	713.6	720.5	727.5	734.4	758.7	783.0	776.1	767.4	769.1	770.9	772.6
62.5°	670.2	677.1	684.1	691.0	715.3	739.6	732.7	724.0	729.2	732.7	732.7
65°	628.5	633.7	640.7	647.6	670.2	692.8	685.8	678.9	685.8	691.0	694.5
67.5°	581.6	585.1	592.1	599.0	621.6	644.1	637.2	628.5	637.2	644.1	651.1
70°	527.8	531.3	540.0	546.9	569.5	592.1	583.4	574.7	583.4	592.1	599.0
72.5°	468.8	472.3	480.9	487.9	513.9	540.0	529.5	519.1	529.5	540.0	543.4
75°	404.5	408.0	418.4	427.1	453.2	479.2	470.5	460.1	468.8	477.5	479.2
77.5°	335.1	340.3	354.2	368.1	388.9	409.7	404.5	399.3	404.5	409.7	409.7
80°	262.2	267.4	284.7	300.4	312.5	324.7	326.4	328.1	329.9	331.6	329.9
82.5°	194.5	201.4	217.0	232.7	232.7	232.7	246.5	258.7	258.7	257.0	255.2
85°	119.8	128.5	142.4	156.3	147.6	138.9	161.5	182.3	182.3	180.6	177.1
87.5°	24.3	33.0	46.9	59.0	50.4	41.7	64.2	86.8	88.5	88.5	85.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822
 CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822

CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	11096.2	11231.6	11365.3	11400.1	11452.1	11474.7	11495.5	11665.7	11834.1	12032.0	12230.0
5°	8887.7	8988.4	9089.1	9104.8	9158.6	9186.4	9214.1	9420.8	9625.6	9901.7	10177.7
7.5°	6698.4	6722.7	6747.0	6743.5	6788.6	6849.4	6908.4	7128.9	7347.7	7644.6	7939.8
10°	5073.2	5128.8	5182.6	5233.0	5331.9	5446.5	5559.4	5785.1	6010.8	6304.2	6595.9
12.5°	4019.4	4083.6	4146.1	4201.7	4316.3	4469.0	4620.1	4890.9	5161.8	5512.5	5861.5
15°	3281.5	3276.3	3271.0	3309.2	3409.9	3576.6	3741.6	4028.0	4314.5	4700.0	5083.7
17.5°	2588.7	2562.7	2536.6	2566.1	2659.9	2797.1	2932.5	3175.6	3416.9	3790.2	4163.5
20°	2093.9	2076.5	2059.2	2086.9	2146.0	2203.3	2260.6	2435.9	2609.5	2913.4	3215.5
22.5°	1842.1	1840.4	1836.9	1852.6	1880.3	1909.8	1937.6	2022.7	2106.0	2302.2	2496.7
25°	1694.6	1692.8	1691.1	1698.0	1720.6	1743.2	1765.7	1821.3	1876.9	1970.6	2064.4
27.5°	1576.5	1573.0	1569.5	1571.3	1576.5	1611.2	1644.2	1670.2	1694.6	1758.8	1821.3
30°	1481.0	1479.3	1477.5	1477.5	1472.3	1484.5	1496.6	1536.6	1574.8	1640.7	1706.7
32.5°	1399.4	1390.7	1382.0	1362.9	1350.8	1368.1	1385.5	1427.2	1468.8	1529.6	1590.4
35°	1297.0	1274.4	1250.1	1239.7	1241.4	1258.8	1276.1	1317.8	1357.7	1423.7	1487.9
37.5°	1185.8	1178.9	1170.2	1168.5	1173.7	1191.1	1208.4	1244.9	1279.6	1345.6	1409.8
40°	1123.3	1119.9	1116.4	1112.9	1116.4	1133.8	1151.1	1185.8	1218.8	1283.1	1345.6
42.5°	1067.8	1066.0	1064.3	1064.3	1066.0	1085.1	1104.2	1139.0	1172.0	1229.2	1286.5
45°	1014.0	1015.7	1015.7	1019.2	1024.4	1043.5	1060.8	1099.0	1137.2	1192.8	1248.3
47.5°	963.6	968.8	972.3	981.0	986.2	1007.0	1026.1	1067.8	1109.4	1178.9	1246.6
50°	920.2	925.4	928.9	935.8	949.7	974.0	998.3	1048.7	1097.3	1213.6	1328.2
52.5°	880.3	885.5	890.7	897.6	915.0	942.8	970.5	1033.1	1093.8	1229.2	1364.7
55°	843.8	849.0	852.5	862.9	880.3	904.6	927.1	1003.5	1079.9	1178.9	1277.9
57.5°	809.1	814.3	817.8	824.7	833.4	859.4	883.7	965.3	1046.9	1116.4	1184.1
60°	772.6	776.1	777.8	777.8	784.8	814.3	843.8	948.0	1050.4	1038.3	1024.4
62.5°	732.7	736.2	737.9	732.7	741.4	772.6	803.9	939.3	1074.7	991.4	908.0
65°	696.2	694.5	692.8	687.5	698.0	729.2	758.7	826.4	894.2	861.2	828.2
67.5°	656.3	651.1	645.9	638.9	649.3	677.1	703.2	725.7	748.3	751.8	755.3
70°	605.9	599.0	592.1	590.3	595.5	618.1	640.7	656.3	670.2	677.1	682.3
72.5°	546.9	541.7	536.5	533.0	534.8	553.9	571.2	585.1	599.0	604.2	607.7
75°	480.9	480.9	479.2	468.8	468.8	484.4	498.3	510.5	522.6	529.5	536.5
77.5°	409.7	411.5	411.5	397.6	395.9	411.5	425.4	435.8	444.5	451.4	456.6
80°	328.1	324.7	321.2	312.5	309.0	328.1	345.5	354.2	361.1	362.9	362.9
82.5°	251.8	244.8	236.1	217.0	218.8	239.6	258.7	265.6	272.6	272.6	272.6
85°	171.9	158.0	142.4	126.7	128.5	151.1	171.9	178.8	185.8	189.2	191.0
87.5°	81.6	67.7	52.1	39.9	39.9	59.0	76.4	79.9	83.3	90.3	97.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822
 CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822

CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	12381.0	12530.3	12684.9	12839.4	13016.5	13193.6	13400.2	13605.1	13780.4	13955.8	14101.6
5°	10415.6	10653.5	10933.0	11212.5	11568.5	11924.4	12360.2	12794.2	13181.4	13568.6	14018.3
7.5°	8250.5	8559.6	8924.2	9288.8	9748.9	10209.0	10773.3	11337.5	11884.5	12429.6	13120.6
10°	6920.6	7245.3	7604.7	7962.3	8431.1	8898.2	9495.4	10090.9	10705.6	11318.4	12099.7
12.5°	6222.6	6582.0	6898.0	7214.0	7594.2	7972.7	8550.9	9129.1	9851.3	10571.9	11323.7
15°	5477.8	5870.2	6248.7	6627.2	7042.1	7455.3	8017.9	8580.4	9370.4	10160.4	11025.0
17.5°	4576.7	4989.9	5451.7	5911.8	6453.5	6993.5	7714.0	8434.6	9370.4	10304.5	11323.7
20°	3637.4	4059.3	4611.4	5163.5	5837.2	6509.1	7443.2	8377.3	9637.8	10896.5	12197.0
22.5°	2870.0	3241.5	3844.0	4444.7	5222.6	6000.4	7198.4	8394.6	10042.3	11688.3	13443.6
25°	2326.5	2588.7	3180.8	3771.1	4668.7	5566.3	7049.1	8530.1	10630.9	12730.0	14907.2
27.5°	1993.2	2165.1	2717.2	3267.6	4248.5	5227.8	6988.3	8747.1	11377.5	14007.9	16499.3
30°	1826.5	1946.3	2413.4	2878.7	3875.3	4871.8	6915.4	8958.9	12096.3	15231.9	17744.2
32.5°	1687.6	1783.1	2182.4	2580.0	3552.3	4524.6	6774.7	9023.2	12598.0	16172.9	18798.1
35°	1569.5	1649.4	1996.7	2343.9	3298.8	4253.8	6538.6	8823.5	12912.3	17001.1	19895.4
37.5°	1474.1	1536.6	1857.8	2179.0	3080.1	3981.2	6269.5	8557.9	13191.8	17825.8	21129.9
40°	1399.4	1453.2	1753.6	2054.0	2871.7	3689.5	6038.6	8386.0	13577.3	18768.6	22433.8
42.5°	1357.7	1427.2	1663.3	1897.7	2673.8	3449.9	5852.8	8255.7	13934.9	19612.4	23574.5
45°	1347.3	1446.3	1616.4	1786.6	2526.2	3265.8	5687.9	8108.2	14165.9	20223.5	24433.9
47.5°	1329.9	1411.6	1580.0	1748.4	2453.3	3156.5	5599.3	8040.5	14396.8	20751.4	25147.5
50°	1340.4	1350.8	1550.4	1748.4	2442.9	3137.4	5700.0	8262.7	14896.8	21529.2	25963.5
52.5°	1321.3	1276.1	1494.9	1713.7	2441.1	3168.6	5990.0	8811.3	15825.7	22838.3	26847.2
55°	1220.6	1161.5	1390.7	1619.9	2404.7	3187.7	6335.5	9481.5	17072.3	24661.3	28435.9
57.5°	1132.0	1078.2	1272.7	1465.4	2293.6	3121.7	6691.4	10259.4	18390.1	26519.1	30225.9
60°	1014.0	1001.8	1140.7	1279.6	2121.7	2962.0	6984.8	11005.9	19275.6	27543.5	30915.2
62.5°	916.7	923.7	1026.1	1128.5	1906.4	2682.5	7082.1	11479.9	19251.3	27022.6	30220.7
65°	842.1	854.2	954.9	1055.6	1722.3	2389.0	6762.6	11134.4	18277.2	25418.3	28847.4
67.5°	769.1	783.0	902.8	1020.9	1559.1	2095.6	5963.9	9830.5	16525.4	23218.5	27100.7
70°	699.7	717.1	847.3	977.5	1441.1	1902.9	4934.4	7965.8	14332.5	20697.5	25078.0
72.5°	625.0	642.4	781.3	920.2	1366.4	1810.9	4022.8	6233.0	11631.0	17027.2	21451.1
75°	548.6	560.8	711.9	861.2	1264.0	1666.8	3156.5	4644.4	8901.6	13158.8	16202.4
77.5°	472.3	487.9	614.6	739.6	1073.0	1404.6	2378.6	3352.6	6531.7	9709.0	11268.1
80°	376.8	390.7	480.9	569.5	828.2	1085.1	1635.5	2185.9	4495.1	6804.3	7682.8
82.5°	288.2	303.8	364.6	423.6	590.3	757.0	991.4	1225.8	2986.3	4745.1	4818.0
85°	197.9	203.1	246.5	288.2	364.6	441.0	567.7	694.5	1975.8	3257.2	2713.7
87.5°	99.0	99.0	128.5	158.0	196.2	234.4	300.4	364.6	632.0	899.4	517.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822
 CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320822

CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	14287.4	14414.1	14542.6	14639.8	14738.8	14881.2	15023.6	15049.6	15077.4	15021.8	14966.3
5°	14471.4	14855.1	15240.6	15596.5	15952.4	16166.0	16379.5	16422.9	16466.4	16332.7	16197.2
7.5°	13789.1	14457.5	15126.0	15738.9	16351.8	16723.3	17096.6	17179.9	17265.0	17046.3	16827.5
10°	12877.6	13698.8	14520.0	15327.4	16134.7	16674.7	17214.7	17322.3	17430.0	17157.4	16884.8
12.5°	12172.7	13049.5	13926.3	14777.0	15629.5	16188.6	16747.6	16881.3	17015.0	16817.1	16617.4
15°	11955.6	12780.3	13605.1	14346.4	15089.5	15546.2	16004.5	16058.3	16113.9	16082.6	16051.4
17.5°	12349.8	13094.6	13841.2	14244.0	14648.5	14830.8	15014.9	15073.9	15134.7	15212.8	15292.7
20°	13304.7	13829.0	14355.1	14337.7	14318.6	14230.1	14139.8	14124.2	14108.6	14332.5	14558.2
22.5°	14730.1	14938.5	15148.6	14660.7	14172.8	13875.9	13577.3	13518.2	13457.5	13695.3	13934.9
25°	16277.1	16238.9	16199.0	15270.1	14339.5	13773.5	13207.5	13141.5	13075.5	13278.6	13483.5
27.5°	17808.5	17558.4	17308.4	16046.2	14784.0	13962.7	13141.5	13075.5	13009.5	13190.1	13370.7
30°	18931.8	18530.7	18129.7	16700.7	15271.8	14296.1	13320.3	13212.7	13103.3	13325.5	13547.8
32.5°	19808.6	19270.4	18732.1	17232.0	15731.9	14676.3	13620.7	13452.3	13283.9	13580.7	13877.6
35°	20683.6	19926.7	19167.9	17706.0	16242.4	15126.0	14007.9	13801.2	13594.6	14002.7	14410.7
37.5°	21784.4	20697.5	19608.9	18239.0	16869.2	15799.6	14728.4	14516.6	14304.8	14823.9	15344.8
40°	22978.9	21529.2	20079.4	18822.4	17565.4	16732.0	15896.9	15695.5	15492.3	16124.3	16756.3
42.5°	23972.1	22303.5	20635.0	19525.6	18414.4	17827.6	17239.0	17237.2	17233.8	17874.4	18515.1
45°	24779.4	22949.4	21117.7	20211.4	19303.3	18997.8	18692.2	18937.0	19181.8	19760.0	20339.9
47.5°	25381.9	23491.1	21598.6	20996.2	20393.7	20438.8	20484.0	20982.3	21480.6	21852.1	22225.4
50°	25774.3	23982.5	22189.0	22003.2	21817.4	22221.9	22628.2	23199.4	23772.4	24025.9	24279.4
52.5°	26345.5	24649.2	22951.2	23159.5	23367.8	24194.3	25020.7	25598.9	26177.1	26270.8	26366.3
55°	27666.7	25875.0	24081.4	24480.8	24881.8	26093.7	27307.3	27758.8	28210.2	28244.9	28279.6
57.5°	29543.6	27592.1	25640.6	26071.1	26501.7	27901.1	29302.3	29788.4	30276.3	30208.6	30139.1
60°	30948.2	29222.4	27494.9	27928.9	28363.0	29727.6	31092.3	31651.4	32212.2	32062.9	31913.5
62.5°	31035.0	30113.1	29189.4	29581.8	29975.9	31312.8	32649.7	33224.4	33799.1	33538.7	33278.2
65°	29654.7	30067.9	30481.2	30611.4	30741.6	31988.2	33236.5	33675.8	34116.8	33984.9	33852.9
67.5°	27753.6	29276.2	30800.6	30538.5	30276.3	30861.4	31446.5	31899.7	32352.8	32278.2	32201.8
70°	25855.9	27889.0	29922.1	28633.8	27343.8	27102.5	26861.1	27349.0	27838.6	27536.5	27232.7
72.5°	22624.7	24791.6	26960.1	24586.7	22213.3	21388.6	20563.8	21183.7	21803.5	21322.6	20839.9
75°	17759.8	20154.1	22550.1	19718.3	16886.5	15785.8	14685.0	15218.0	15751.0	15421.1	15089.5
77.5°	13221.4	15580.9	17940.4	15061.7	12181.4	11363.6	10544.1	10702.1	10861.8	10806.3	10749.0
80°	8967.6	10611.8	12257.7	10341.0	8424.2	8486.7	8550.9	8476.2	8399.9	8511.0	8622.1
82.5°	5722.6	6991.8	8262.7	7245.3	6227.8	6811.2	7394.6	7108.1	6819.9	6925.8	7033.4
85°	3265.8	4507.2	5750.4	5359.7	4967.3	5307.6	5649.7	5205.2	4760.7	4955.2	5151.4
87.5°	861.2	2493.2	4127.0	3746.8	3366.5	2925.5	2484.5	1896.0	1307.4	1909.8	2512.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822
 CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320822

CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0	13230.0
2.5°	14936.7	14907.2	14801.3	14693.7	14533.9	14402.0	14172.8
5°	16009.7	15822.2	15499.3	15174.6	14813.5	14398.5	13938.4
7.5°	16390.0	15950.7	15330.9	14709.3	14150.2	13493.9	12882.8
10°	16228.5	15570.5	14764.9	13957.5	13278.6	12523.4	11844.5
12.5°	15919.4	15219.7	14332.5	13443.6	12671.0	11860.2	11099.7
15°	15494.1	14935.0	14103.4	13271.7	12493.9	11705.6	10804.5
17.5°	15028.8	14763.1	14162.4	13559.9	12886.3	12122.3	11065.0
20°	14653.7	14751.0	14511.4	14271.8	13731.8	13065.1	11877.5
22.5°	14400.2	14867.3	15051.3	15237.1	14912.4	14391.6	13018.2
25°	14257.9	15032.2	15648.6	16266.7	16122.6	15721.5	14403.7
27.5°	14320.4	15270.1	16226.8	17185.2	17318.8	17207.7	15863.9
30°	14507.9	15469.8	16634.8	17801.5	18334.5	18483.8	17081.0
32.5°	14820.4	15763.2	17032.4	18303.3	19108.9	19584.6	18193.9
35°	15292.7	16174.7	17497.7	18820.7	19862.4	20730.5	19343.3
37.5°	16103.5	16862.2	18082.8	19305.1	20655.9	21959.8	20609.0
40°	17291.1	17827.6	18858.9	19891.9	21591.7	23352.2	22020.5
42.5°	18789.4	19065.5	19883.2	20701.0	22569.2	24616.2	23400.8
45°	20412.8	20485.7	20999.6	21515.3	23343.5	25477.4	24437.4
47.5°	21975.4	21725.4	21930.3	22135.1	23937.3	26092.0	25223.9
50°	23583.1	22886.9	22779.3	22671.6	24531.1	26816.0	26223.9
52.5°	25218.7	24071.0	23645.6	23218.5	25239.5	27776.1	27468.8
55°	26819.5	25359.3	24786.3	24213.4	26322.9	28948.1	29297.1
57.5°	28484.5	26829.9	26298.6	25767.3	27915.0	30432.5	30937.8
60°	30276.3	28637.3	28211.9	27784.8	29894.3	32036.8	31668.7
62.5°	31976.0	30673.9	30449.9	30224.2	31896.2	33269.5	31384.0
65°	33111.5	32368.4	32576.8	32786.9	33410.2	33576.8	30550.6
67.5°	32352.8	32503.9	33384.1	34266.1	33837.3	32663.6	28908.1
70°	28137.3	29043.6	31128.8	33215.7	32264.3	30217.3	25960.0
72.5°	21857.3	22876.5	25972.2	29069.6	28192.8	25685.7	21322.6
75°	16238.9	17390.0	20806.9	24223.8	23006.7	19213.1	15266.6
77.5°	11519.9	12290.7	15664.2	19039.4	17054.9	12789.0	10273.2
80°	8386.0	8149.8	10030.2	11910.5	11580.6	8458.9	6597.7
82.5°	6457.0	5880.6	6766.1	7651.5	7602.9	5870.2	4840.6
85°	4920.5	4689.5	5472.6	6255.6	5585.4	3976.0	3076.6
87.5°	2868.2	3225.9	4147.8	5071.5	3805.8	1206.7	597.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320822
 CATALOG NUMBER: GLEON-SA8D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

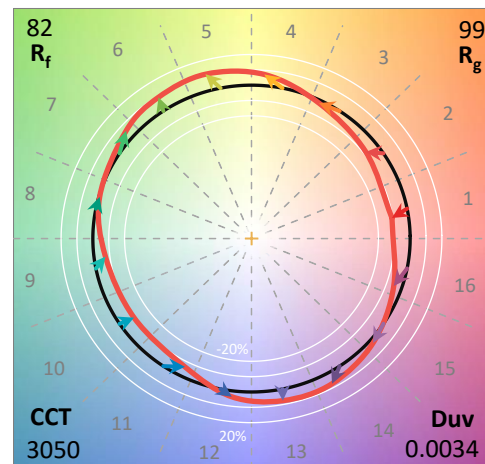
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

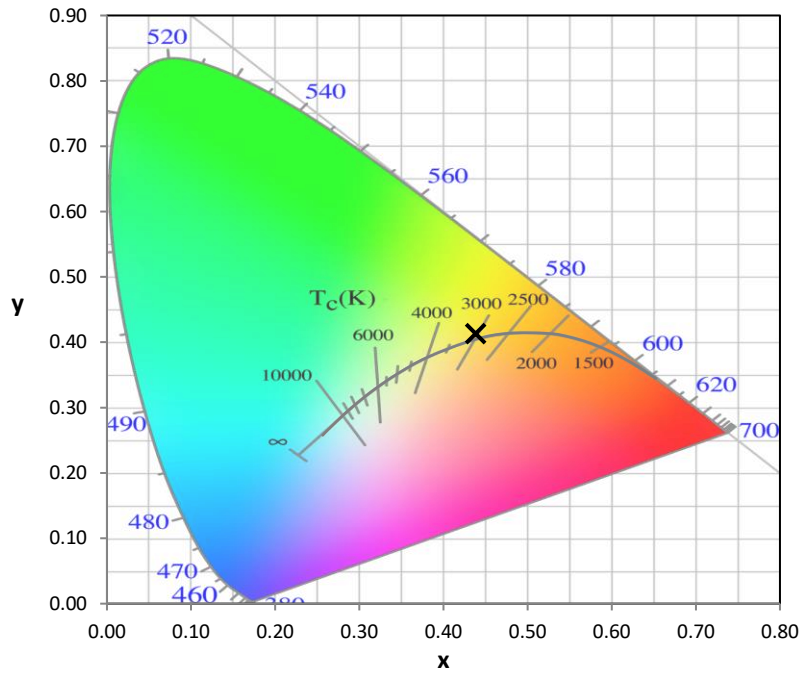
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

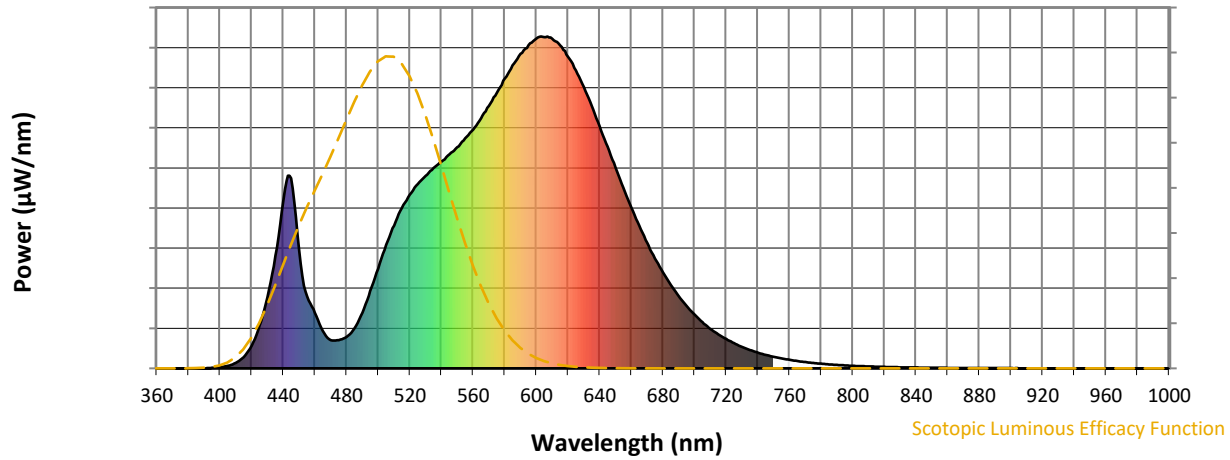


Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



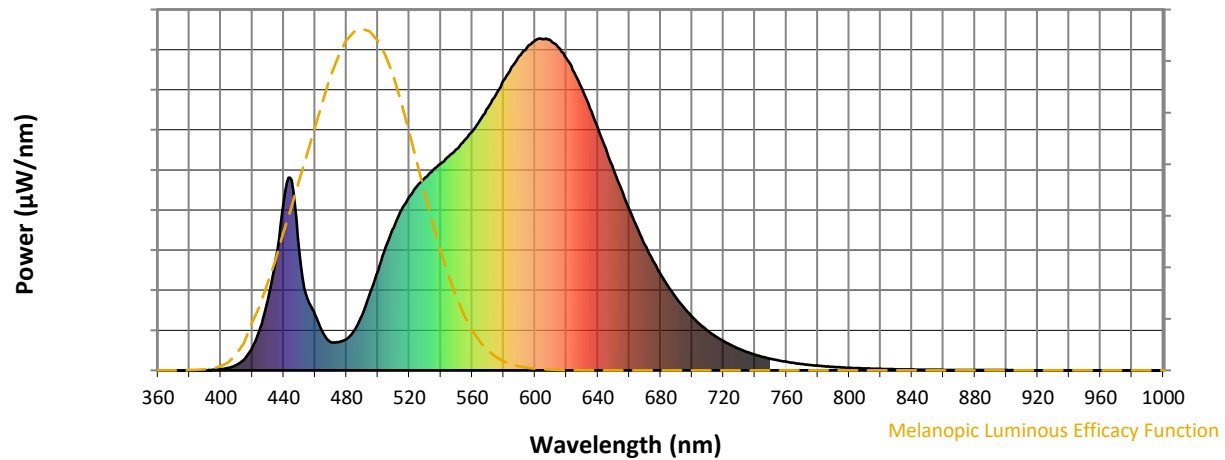
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

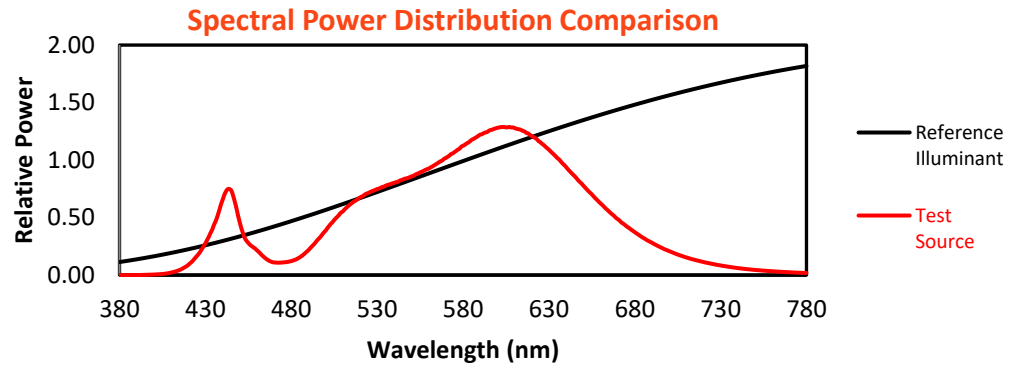
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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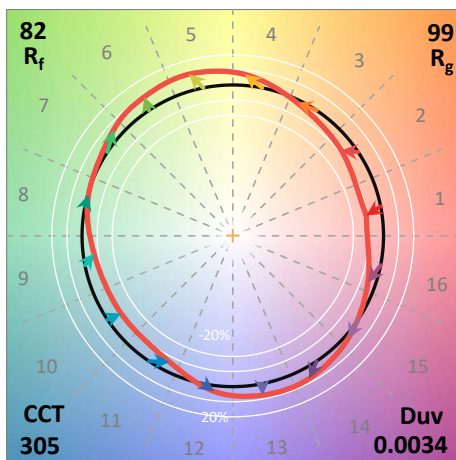
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)