

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: P382904

Luminaire Tested: **GLEON-SA2C-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9771 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

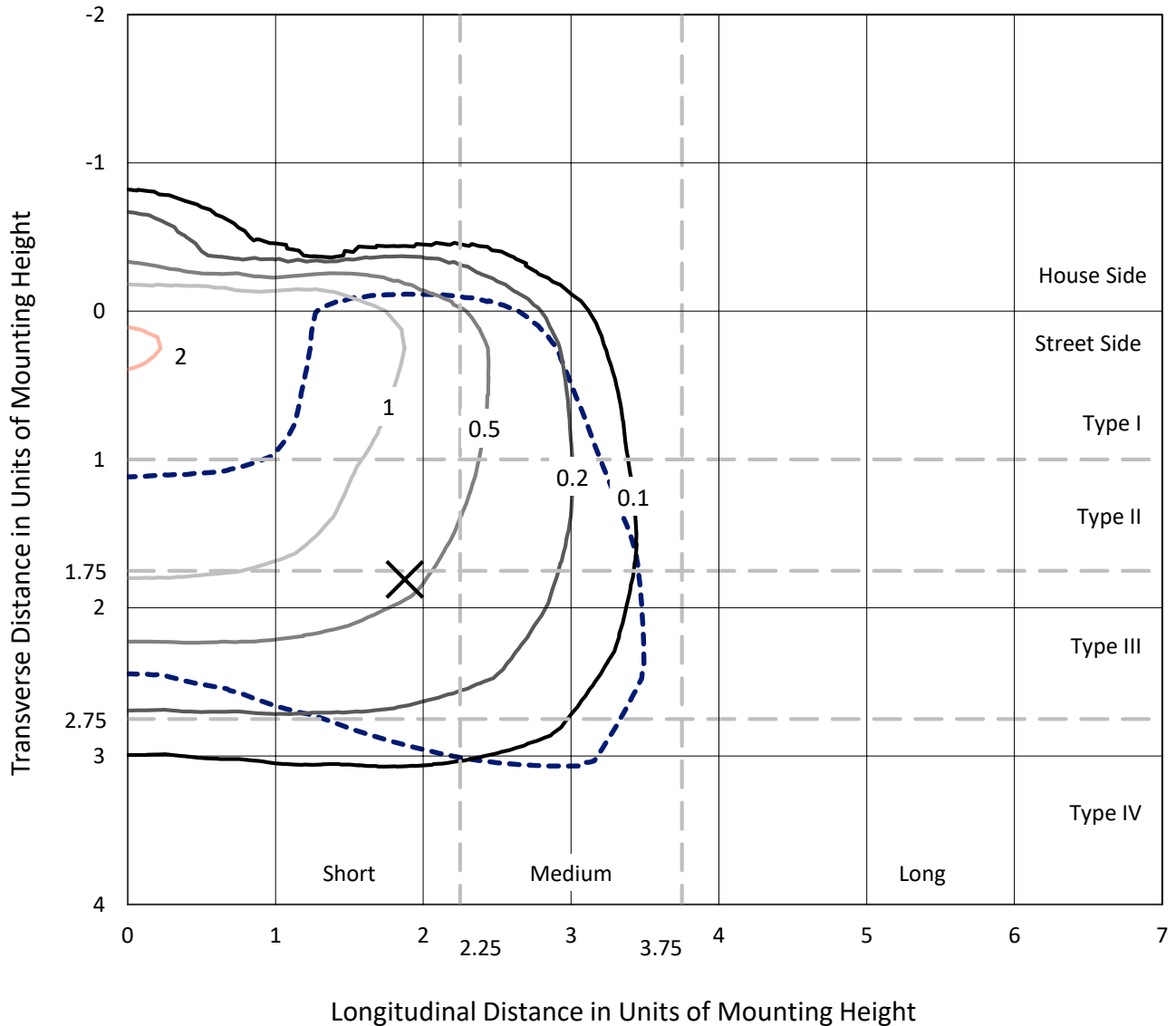
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382904  
 CATALOG NUMBER: GLEON-SA2C-735-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

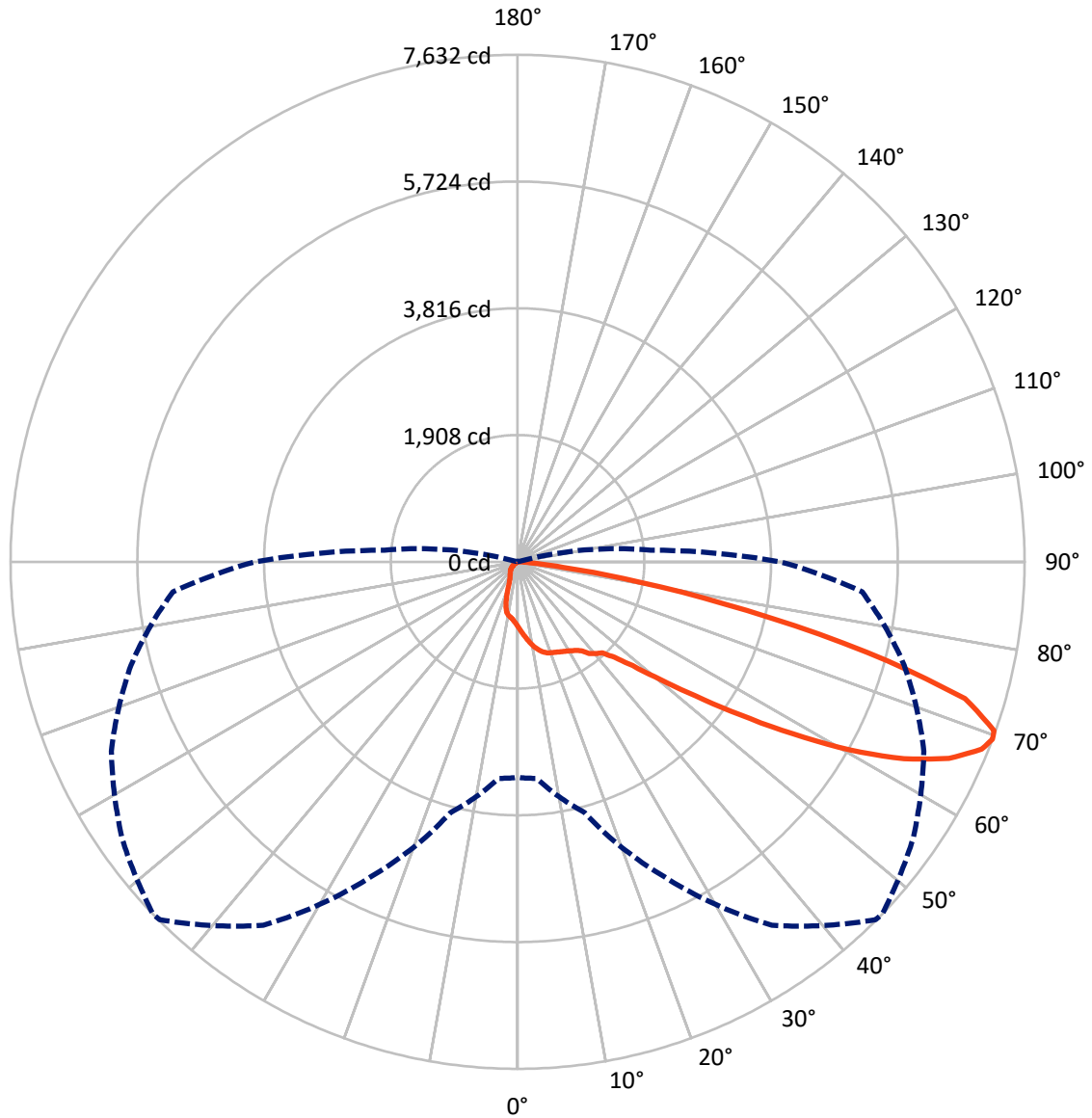
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P382904  
CATALOG NUMBER: GLEON-SA2C-735-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P382904  
 CATALOG NUMBER: GLEON-SA2C-735-U-T4W-HSS

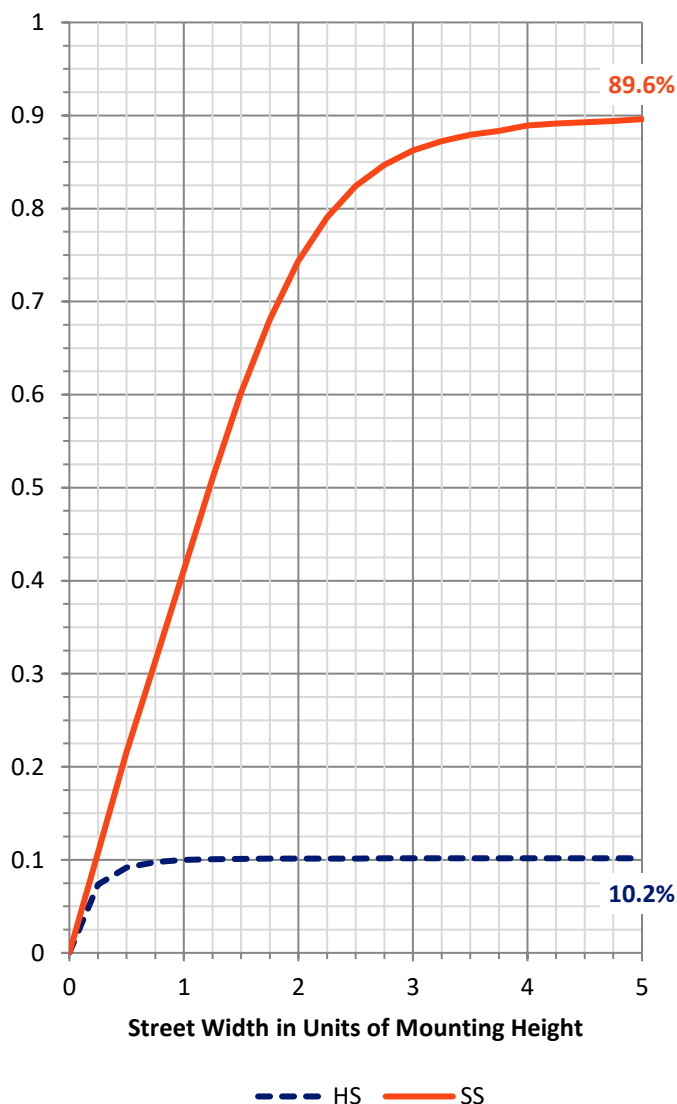
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1002.8	0.0	1002.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	8768.2	0.0	8768.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	9771.0	0.0	9771.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.4	1.0
10°-20°	295.6	3.0
20°-30°	464.9	4.8
30°-40°	666.7	6.8
40°-50°	1152.3	11.8
50°-60°	2276.5	23.3
60°-70°	3181.6	32.6
70°-80°	1537.1	15.7
80°-90°	98.8	1.0
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°	9771.0	100.0
0°-180°	9771.0	100.0

**Coefficient of Utilization**



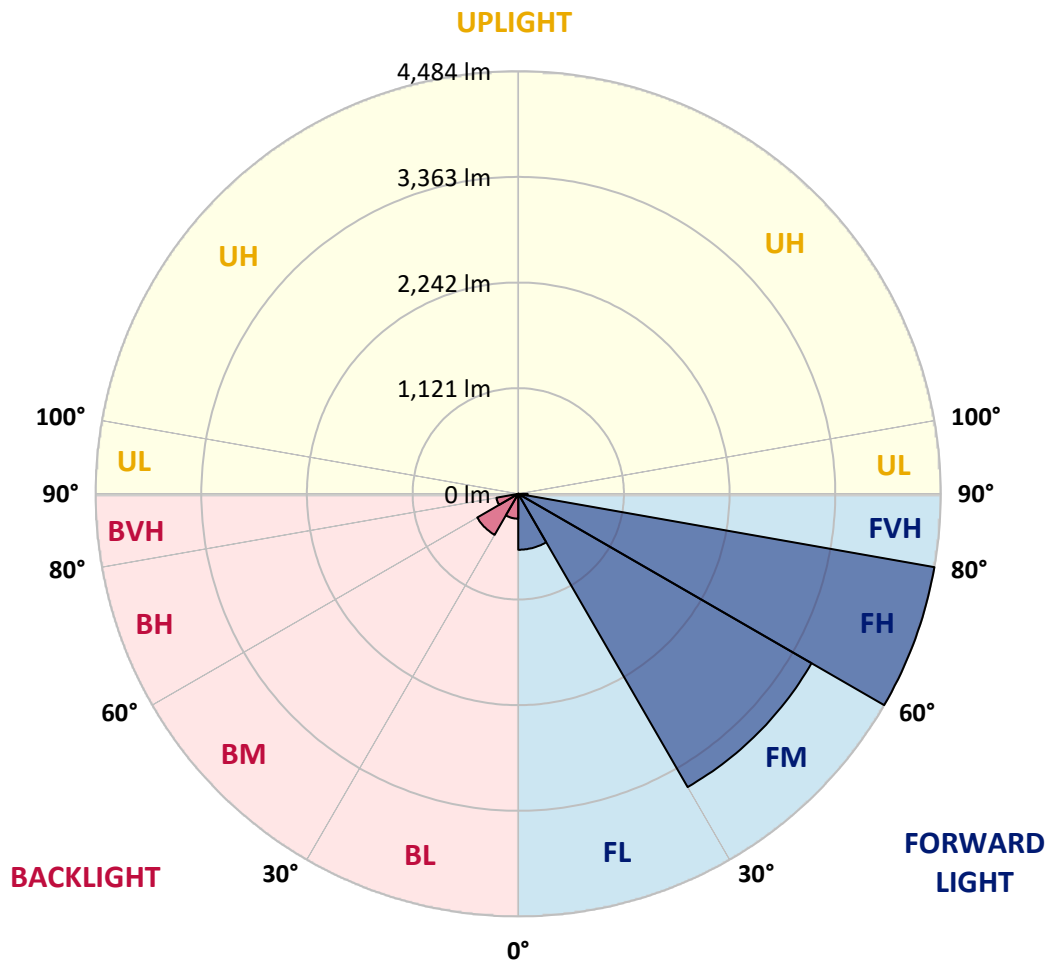
REPORT NUMBER: P382904  
 CATALOG NUMBER: GLEON-SA2C-735-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.7	6.1			
FM	(30°-60°)	3593.0	36.8			
FH	(60°-80°)	4483.5	45.9			G2/5000
FVH	(80°-90°)	98.0	1.0			G1/100
BL	(0°-30°)	264.3	2.7	B1/500		
BM	(30°-60°)	502.5	5.1	B1/1000		
BH	(60°-80°)	235.1	2.4	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P382904

CATALOG NUMBER: GLEON-SA2C-735-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1
2.5°	1087.6	1086.2	1079.8	1077.1	1061.5	1052.3	1048.6	1037.2	1020.7	1004.2	985.9
5°	1211.3	1210.8	1198.9	1187.4	1158.1	1130.6	1125.6	1099.0	1062.0	1027.1	992.3
7.5°	1337.7	1331.7	1319.9	1297.8	1255.3	1211.3	1207.2	1169.6	1116.9	1066.5	1016.6
10°	1444.9	1441.3	1425.7	1392.3	1342.3	1292.3	1287.3	1241.1	1181.5	1119.6	1056.0
12.5°	1528.3	1525.6	1504.9	1463.3	1410.1	1358.4	1351.5	1310.2	1246.6	1177.4	1102.3
15°	1579.2	1577.8	1552.6	1508.2	1455.9	1411.0	1405.1	1368.9	1309.8	1237.4	1152.6
17.5°	1591.1	1591.5	1565.5	1520.6	1477.4	1445.4	1440.8	1413.3	1363.9	1292.0	1203.0
20°	1564.5	1570.0	1546.6	1507.7	1481.2	1464.2	1460.5	1444.0	1402.4	1334.5	1243.3
22.5°	1526.9	1529.7	1513.7	1487.5	1476.5	1479.8	1477.9	1468.8	1433.5	1371.1	1283.2
25°	1504.1	1504.1	1494.4	1472.4	1479.8	1499.4	1499.9	1498.1	1470.2	1416.0	1331.7
27.5°	1503.1	1500.4	1489.4	1472.9	1493.0	1523.3	1525.1	1537.5	1520.1	1470.6	1392.3
30°	1539.8	1536.6	1513.2	1491.7	1517.3	1549.8	1554.4	1581.5	1572.7	1529.7	1459.5
32.5°	1625.5	1614.0	1562.2	1526.9	1546.2	1585.1	1591.1	1634.1	1647.9	1602.5	1524.7
35°	1742.7	1706.5	1631.9	1593.8	1595.6	1636.4	1641.9	1705.1	1745.9	1669.4	1575.1
37.5°	1904.5	1886.6	1765.2	1663.5	1671.7	1733.5	1749.6	1818.3	1806.8	1706.0	1632.4
40°	2259.0	2231.1	2101.9	1858.6	1744.5	1812.3	1817.4	1854.1	1855.0	1788.9	1751.4
42.5°	2741.9	2730.5	2594.4	2212.8	1888.0	1865.1	1874.2	1936.0	2005.2	1964.0	1962.1
45°	3276.5	3270.6	3126.3	2682.8	2178.0	2037.8	2049.2	2132.1	2264.5	2273.7	2331.8
47.5°	3706.7	3703.9	3621.0	3207.3	2621.8	2330.5	2334.2	2422.1	2654.8	2769.9	2862.8
50°	4098.9	4112.1	4046.6	3775.0	3226.6	2789.1	2780.4	2839.0	3212.8	3401.2	3516.6
52.5°	4644.0	4662.9	4479.1	4304.6	3861.1	3358.0	3351.2	3412.6	3883.5	4024.7	4045.2
55°	5125.6	5093.4	4948.2	4897.8	4634.9	4060.8	4059.0	4113.1	4532.3	4592.3	4630.3
57.5°	5338.1	5325.8	5395.8	5511.3	5445.3	4891.5	4887.3	4846.1	5112.7	5119.1	5235.9
60°	5472.4	5487.5	5702.3	6058.3	6222.7	5785.2	5758.6	5507.1	5667.1	5652.8	5777.9
62.5°	5371.6	5401.3	5788.0	6381.3	6804.6	6565.5	6527.8	6112.8	6140.8	6091.8	6208.1
65°	4836.4	4882.7	5516.3	6320.4	7093.2	7175.2	7137.1	6647.4	6516.8	6436.2	6371.6
67.5°	3927.0	3954.5	4616.1	5790.3	6963.0	7538.9	7531.2	7116.1	6800.9	6378.0	5876.9
69°	3245.4	3272.4	3909.2	5232.3	6676.8	7616.8	7632.0	7266.4	6746.8	6024.4	5207.1
70°	2748.7	2777.6	3370.9	4754.0	6344.6	7580.7	7607.7	7252.2	6592.0	5614.8	4619.3
72.5°	1441.8	1466.4	2075.3	3275.1	5172.2	6960.8	7042.8	6639.1	5587.8	4077.8	2731.4
75°	453.1	467.3	810.4	1712.0	3541.3	5412.3	5431.1	5208.0	3967.8	2243.0	1137.5
77.5°	172.7	168.6	269.9	630.8	1790.3	3408.0	3523.0	3254.5	2082.2	793.0	262.5
80°	93.0	93.4	140.2	261.1	766.0	1751.4	1848.6	1577.3	739.8	247.4	60.5
82.5°	40.3	42.1	78.8	138.3	351.8	645.9	694.6	578.1	282.6	166.3	22.5
85°	8.7	9.6	38.0	75.2	143.4	181.4	190.1	187.3	180.1	129.2	8.7
87.5°	0.0	0.0	17.0	27.0	36.2	41.3	36.2	47.2	99.4	87.0	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382904

CATALOG NUMBER: GLEON-SA2C-735-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1	979.1
2.5°	979.9	971.7	957.4	941.9	930.9	919.4	910.3	906.2	901.6	898.4	902.5
5°	978.1	962.1	934.6	908.0	888.8	873.2	860.4	855.3	850.3	846.6	846.1
7.5°	994.1	971.7	929.5	890.6	860.8	839.8	822.4	815.0	809.0	806.3	804.0
10°	1024.8	996.0	939.7	888.8	850.3	814.5	777.0	748.1	729.3	720.6	717.4
12.5°	1064.7	1028.5	958.8	898.4	842.5	773.7	694.1	625.3	580.9	566.3	557.5
15°	1111.4	1066.5	984.1	910.8	814.1	688.6	553.4	463.6	422.4	414.2	404.9
17.5°	1156.3	1106.9	1014.3	913.0	751.8	550.2	405.4	344.5	328.5	334.0	335.4
20°	1195.7	1146.7	1044.1	892.9	638.7	412.8	313.8	298.7	304.6	315.2	317.0
22.5°	1235.6	1185.2	1071.6	839.8	493.9	313.4	282.6	286.4	292.3	302.8	304.6
25°	1284.1	1231.9	1097.2	742.2	370.7	266.6	268.5	274.0	279.9	289.5	290.5
27.5°	1340.0	1291.0	1114.1	615.3	274.9	245.1	251.1	259.3	265.2	274.4	276.3
30°	1414.3	1368.9	1119.6	483.8	230.5	225.9	228.6	238.7	247.4	255.6	257.0
32.5°	1483.9	1445.9	1101.4	365.2	213.5	208.0	208.0	214.0	224.0	231.8	233.6
35°	1548.0	1523.3	1042.7	267.1	200.7	191.5	187.0	187.0	193.3	199.7	201.6
37.5°	1632.7	1631.9	947.8	213.0	188.3	177.7	168.1	160.8	158.5	159.9	160.8
40°	1778.0	1779.3	824.1	191.1	177.7	163.6	148.9	135.6	123.2	119.1	118.7
42.5°	2004.8	1984.1	694.6	180.5	168.6	148.9	126.9	109.0	89.8	83.8	83.4
45°	2364.8	2242.5	557.1	170.8	159.0	132.4	104.9	80.7	65.0	60.5	60.5
47.5°	2889.4	2582.0	431.6	160.3	146.2	113.6	79.3	58.2	47.6	45.4	45.8
50°	3431.8	2914.6	330.8	147.1	130.6	93.9	58.6	42.1	36.2	36.2	36.6
52.5°	3912.9	3158.3	257.9	132.8	111.3	73.8	44.4	33.0	30.3	29.8	30.3
55°	4363.2	3315.5	197.5	116.4	88.4	55.0	33.9	27.0	25.2	24.3	23.8
57.5°	4797.5	3393.3	147.9	93.9	64.2	39.9	27.0	22.9	21.1	19.7	19.3
60°	5086.6	3330.1	101.7	69.2	44.4	28.9	22.5	19.7	17.4	16.0	15.6
62.5°	5249.6	3157.4	65.5	49.9	31.6	21.5	17.9	16.5	13.3	11.9	11.9
65°	5183.7	2872.4	45.8	35.8	22.9	16.0	13.3	13.3	9.6	7.8	7.4
67.5°	4593.6	2426.7	34.8	26.5	16.5	11.9	10.1	11.5	6.0	3.6	3.6
69°	3952.3	2011.2	29.8	22.0	13.8	9.6	8.7	10.5	4.1	2.8	2.3
70°	3435.1	1734.9	27.0	19.3	11.5	8.3	7.8	10.1	4.1	2.3	1.9
72.5°	2055.2	967.6	20.6	13.8	7.4	6.4	6.4	11.5	4.1	2.3	1.9
75°	830.6	340.9	15.1	9.6	5.5	5.5	7.8	14.6	3.6	1.9	1.4
77.5°	188.3	74.7	8.7	6.0	3.6	5.5	9.1	11.5	2.3	0.9	0.0
80°	45.8	18.4	5.5	3.6	2.3	4.1	6.9	6.4	0.5	0.0	0.0
82.5°	15.1	6.4	2.3	1.9	0.5	1.4	3.2	1.9	0.0	0.0	0.0
85°	6.4	3.6	0.9	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)