

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P385831

Luminaire Tested: **GPC-SA1B-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385831
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: GPC-SA1B-830-U-SLL
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4263 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

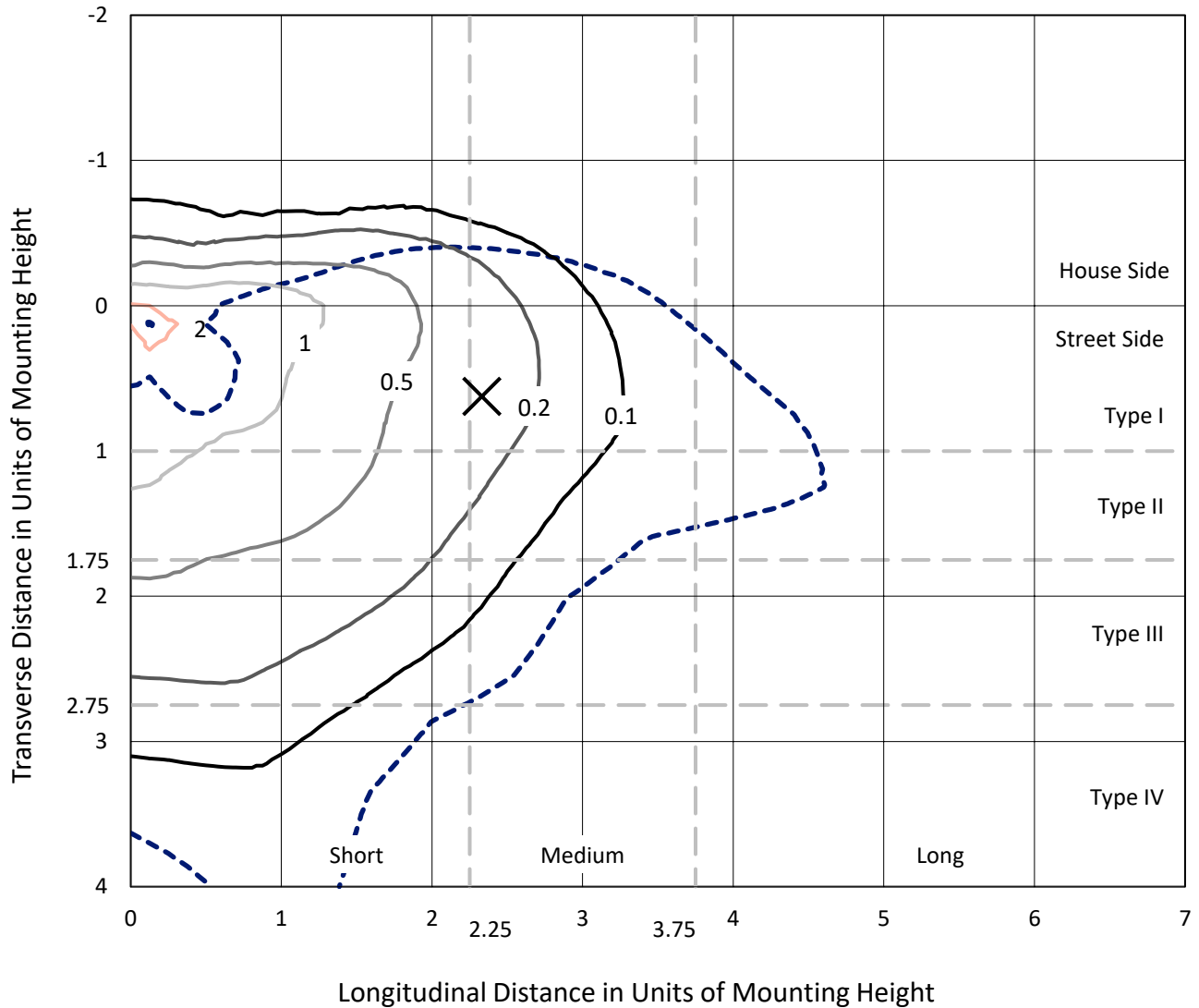
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

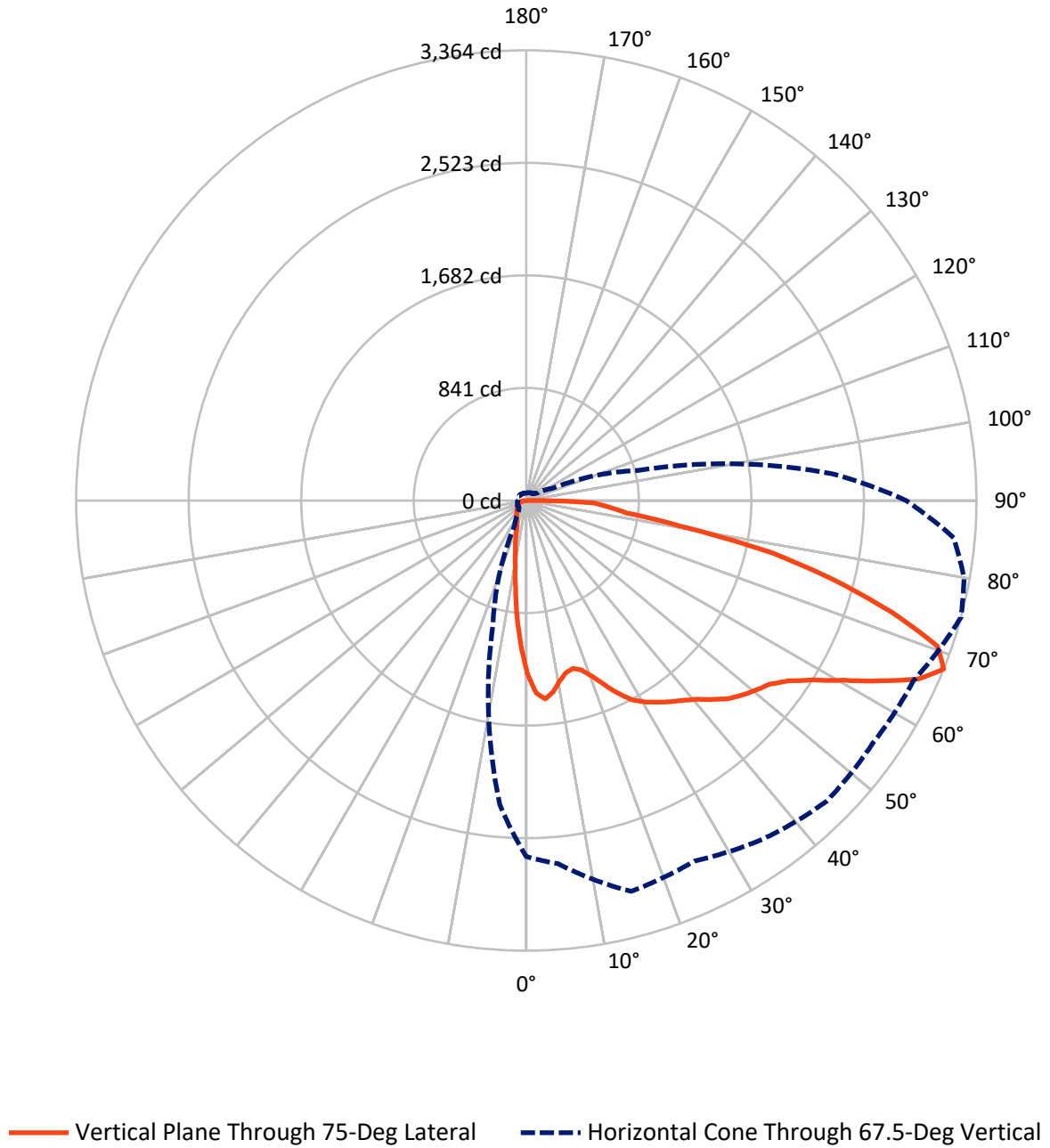
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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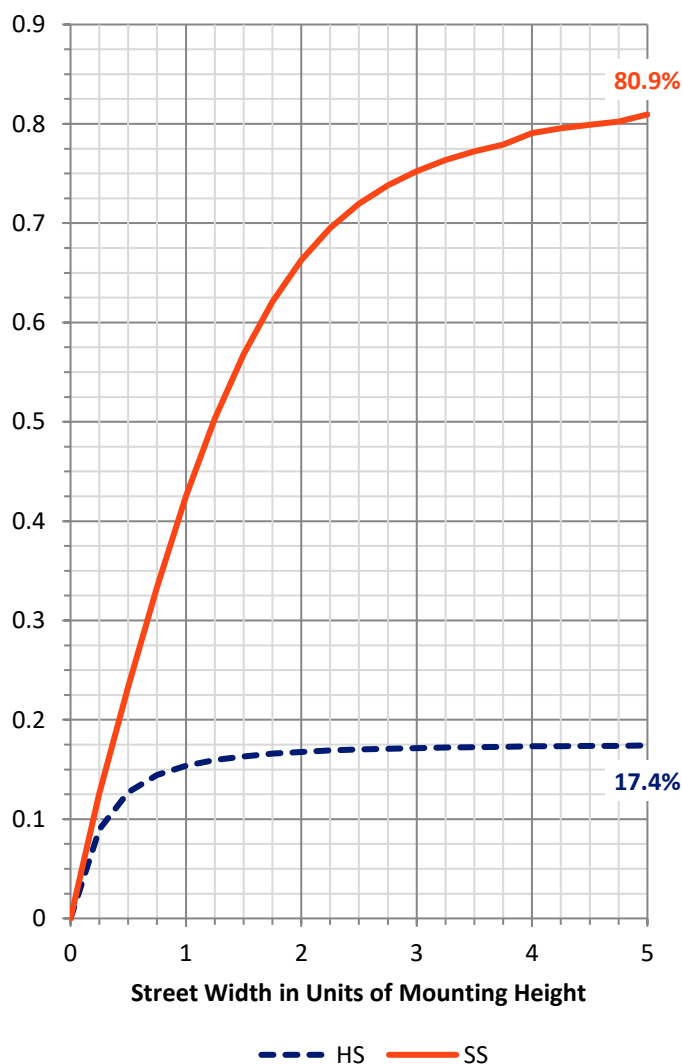
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.8	0.0	750.8
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	3512.2	0.0	3512.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	4263.0	0.0	4263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.4
10°-20°	208.2	4.9
20°-30°	296.1	6.9
30°-40°	426.7	10.0
40°-50°	601.4	14.1
50°-60°	836.0	19.6
60°-70°	1011.0	23.7
70°-80°	621.5	14.6
80°-90°	161.7	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°	4263.0	100.0
0°-180°	4263.0	100.0

Coefficient of Utilization



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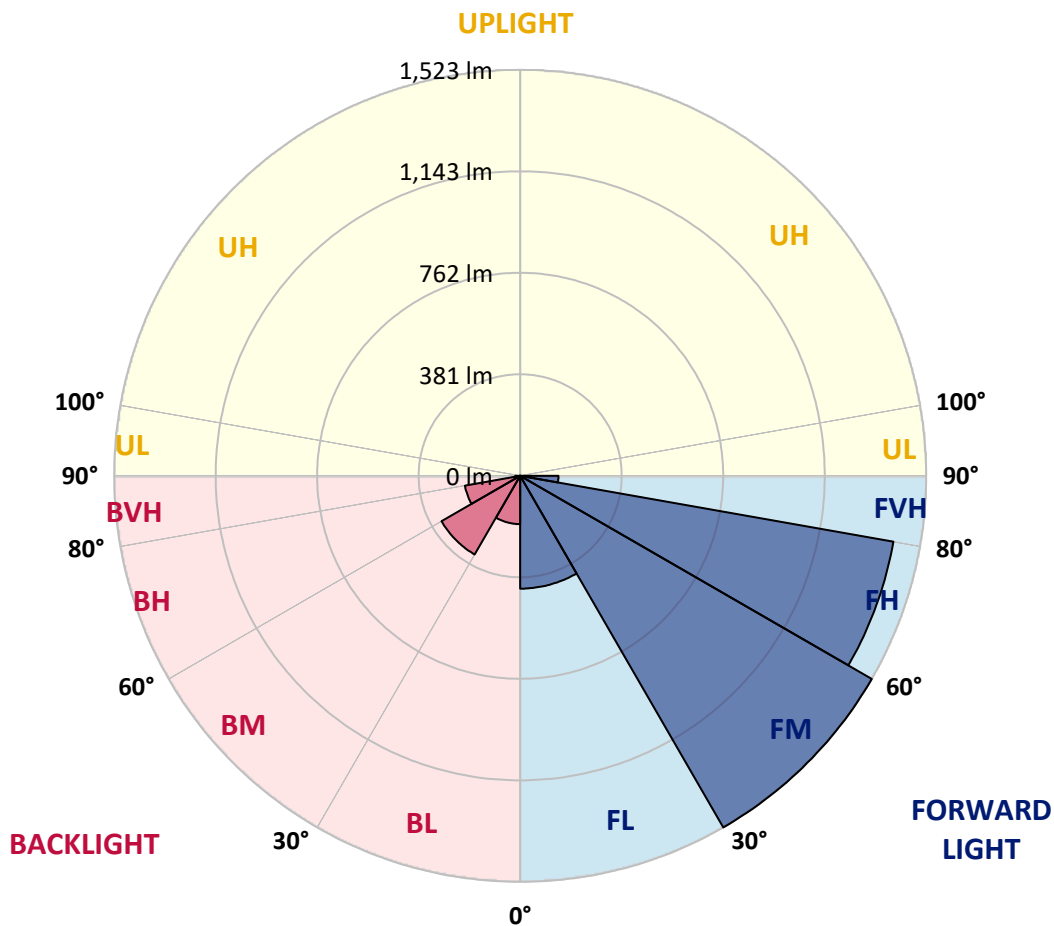
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.3	9.9			
FM (30°-60°)	1523.4	35.7			
FH (60°-80°)	1422.0	33.4			G1/1800
FVH (80°-90°)	143.5	3.4			G2/225
BL (0°-30°)	181.3	4.3	B1/500		
BM (30°-60°)	340.8	8.0	B1/1000		
BH (60°-80°)	210.5	4.9	B1/500		G1/500
BVH (80°-90°)	18.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1384.3	1402.5	1415.2	1427.6	1437.3	1446.9	1460.8	1474.8	1477.5	1480.1	1474.6
5°	1376.1	1420.6	1458.4	1496.1	1531.1	1566.0	1587.0	1607.9	1612.2	1616.4	1603.3
7.5°	1288.0	1353.6	1419.2	1484.9	1545.0	1605.2	1641.8	1678.3	1686.7	1694.8	1673.4
10°	1187.8	1264.1	1344.8	1425.4	1504.6	1583.9	1636.9	1689.9	1700.5	1711.0	1684.3
12.5°	1111.6	1194.9	1281.0	1367.1	1450.8	1534.3	1589.2	1644.1	1657.2	1670.3	1650.9
15°	1082.3	1173.6	1254.6	1335.6	1408.5	1481.3	1526.3	1571.1	1576.6	1581.8	1578.8
17.5°	1111.6	1212.3	1285.6	1358.7	1398.4	1438.0	1456.1	1474.0	1479.9	1485.7	1493.6
20°	1197.3	1306.1	1357.7	1409.2	1407.5	1405.6	1396.9	1388.1	1386.5	1385.0	1407.1
22.5°	1319.7	1446.0	1466.6	1487.1	1439.2	1391.3	1362.1	1332.8	1327.0	1321.1	1344.6
25°	1463.4	1597.9	1594.1	1590.2	1499.0	1407.7	1352.1	1296.5	1290.1	1283.6	1303.7
27.5°	1619.7	1748.2	1723.6	1699.1	1575.2	1451.3	1370.7	1290.1	1283.6	1277.1	1294.8
30°	1741.9	1858.5	1819.1	1779.7	1639.4	1499.2	1403.4	1307.6	1297.0	1286.3	1308.1
32.5°	1845.3	1944.5	1891.7	1838.9	1691.6	1544.3	1440.7	1337.1	1320.6	1304.0	1333.2
35°	1953.1	2030.4	1956.1	1881.6	1738.1	1594.5	1484.9	1375.1	1354.8	1334.5	1374.6
37.5°	2074.2	2138.5	2031.8	1924.9	1790.5	1656.0	1551.0	1445.8	1425.0	1404.2	1455.4
40°	2202.2	2255.8	2113.4	1971.1	1847.7	1724.3	1642.5	1560.5	1540.8	1520.8	1582.9
42.5°	2314.2	2353.2	2189.5	2025.7	1916.8	1807.7	1750.1	1692.3	1692.1	1691.8	1754.7
45°	2398.6	2432.5	2252.9	2073.0	1984.1	1894.9	1864.9	1834.9	1859.0	1883.0	1939.9
47.5°	2468.6	2491.6	2306.0	2120.3	2061.1	2002.0	2006.4	2010.8	2059.8	2108.7	2145.3
50°	2548.7	2530.2	2354.3	2178.2	2160.0	2141.7	2181.6	2221.3	2277.6	2333.6	2358.5
52.5°	2635.5	2586.2	2419.7	2253.0	2273.5	2293.9	2375.1	2456.2	2512.9	2569.7	2579.1
55°	2791.4	2715.9	2540.0	2364.0	2403.4	2442.6	2561.7	2680.7	2725.0	2769.3	2772.7
57.5°	2967.2	2900.2	2708.6	2517.0	2559.3	2601.6	2739.1	2876.5	2924.4	2972.1	2965.5
60°	3034.8	3038.1	2868.7	2699.1	2741.7	2784.3	2918.3	3052.2	3107.3	3162.1	3147.5
62.5°	2966.7	3046.6	2956.1	2865.4	2904.1	2942.6	3073.9	3205.1	3261.5	3317.9	3292.4
65°	2831.8	2911.1	2951.7	2992.2	3005.0	3017.8	3140.3	3262.7	3306.0	3349.1	3336.2
67.5°	2660.4	2724.5	2874.1	3023.6	2997.8	2972.1	3029.5	3087.0	3131.5	3176.0	3168.6
70°	2461.8	2538.2	2737.8	2937.3	2810.9	2684.2	2660.5	2636.9	2684.9	2732.8	2703.2
72.5°	2105.8	2221.0	2433.9	2646.6	2413.6	2180.6	2099.6	2018.7	2079.5	2140.4	2093.2
75°	1590.5	1743.4	1978.6	2213.7	1935.7	1657.7	1549.6	1441.6	1493.9	1546.2	1513.8
77.5°	1106.1	1297.9	1529.5	1761.1	1478.6	1195.8	1115.5	1035.1	1050.8	1066.3	1060.8
80°	754.2	880.3	1041.9	1203.3	1015.1	827.0	833.3	839.4	832.1	824.6	835.5
82.5°	473.0	561.8	686.5	811.1	711.2	611.4	668.6	725.9	697.8	669.5	680.1
85°	266.4	320.6	442.6	564.5	526.1	487.6	521.2	554.6	511.0	467.3	486.6
87.5°	50.8	84.5	244.9	405.1	367.8	330.5	287.2	243.9	186.1	128.3	187.5
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°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1469.2	1466.3	1463.4	1453.0	1442.4	1426.7	1413.8	1391.3	1379.0	1360.4	1341.9
5°	1590.0	1571.6	1553.2	1521.5	1489.6	1454.2	1413.4	1368.3	1334.2	1289.9	1245.6
7.5°	1651.9	1608.9	1565.8	1505.0	1444.0	1389.1	1324.6	1264.7	1213.5	1155.9	1098.3
10°	1657.5	1593.1	1528.5	1449.4	1370.2	1303.5	1229.4	1162.7	1101.4	1035.2	968.9
12.5°	1631.3	1562.8	1494.1	1407.0	1319.7	1244.0	1164.3	1089.6	1021.6	948.8	875.9
15°	1575.7	1521.0	1466.1	1384.5	1302.8	1226.5	1149.1	1060.6	983.8	909.3	834.6
17.5°	1501.2	1475.3	1449.2	1390.3	1331.1	1265.0	1190.0	1086.2	996.2	915.3	834.3
20°	1429.1	1438.7	1448.0	1424.5	1401.0	1348.0	1282.6	1166.0	1051.1	945.3	839.2
22.5°	1367.9	1413.8	1459.5	1477.7	1495.8	1463.9	1412.8	1277.9	1125.9	987.7	849.5
25°	1323.6	1399.6	1475.7	1536.3	1596.8	1582.7	1543.3	1414.0	1225.1	1048.9	872.5
27.5°	1312.5	1405.8	1499.0	1593.1	1687.0	1700.1	1689.2	1557.3	1343.4	1124.9	906.2
30°	1329.9	1424.4	1518.6	1633.1	1747.5	1799.8	1814.5	1676.8	1478.6	1213.5	948.3
32.5°	1362.3	1454.9	1547.4	1672.2	1796.8	1875.8	1922.5	1786.0	1572.8	1280.3	987.7
35°	1414.6	1501.2	1587.8	1717.7	1847.6	1949.8	2035.0	1898.9	1656.5	1327.0	997.4
37.5°	1506.3	1580.8	1655.3	1775.3	1895.1	2027.7	2155.7	2023.1	1747.0	1372.0	996.9
40°	1644.9	1697.6	1750.1	1851.5	1952.7	2119.6	2292.4	2161.7	1847.0	1420.8	994.5
42.5°	1817.6	1844.7	1871.6	1951.9	2032.1	2215.5	2416.5	2297.2	1942.5	1466.1	989.7
45°	1996.7	2003.8	2011.0	2061.6	2112.1	2291.5	2501.0	2398.9	2025.8	1505.5	985.0
47.5°	2181.8	2157.2	2132.7	2152.8	2172.9	2349.8	2561.4	2476.1	2109.5	1549.1	988.5
50°	2383.4	2315.1	2246.7	2236.2	2225.6	2408.1	2632.4	2574.3	2210.1	1612.7	1015.3
52.5°	2588.3	2475.6	2363.0	2321.2	2279.3	2477.7	2726.7	2696.5	2353.6	1711.2	1068.7
55°	2776.1	2632.8	2489.4	2433.2	2376.9	2584.0	2841.7	2876.0	2537.5	1837.2	1136.7
57.5°	2958.6	2796.2	2633.8	2581.6	2529.5	2740.3	2987.4	3037.0	2723.3	1958.0	1192.6
60°	3132.8	2972.1	2811.2	2769.5	2727.5	2934.6	3144.9	3108.8	2819.1	2014.6	1209.9
62.5°	3266.8	3139.0	3011.1	2989.2	2967.0	3131.1	3265.9	3080.9	2758.2	1958.9	1159.5
65°	3323.2	3250.4	3177.5	3198.1	3218.6	3279.8	3296.1	2999.0	2567.0	1802.7	1038.5
67.5°	3161.1	3176.0	3190.8	3277.4	3363.8	3321.7	3206.5	2837.8	2294.8	1581.5	868.2
70°	2673.3	2762.3	2851.1	3056.0	3260.7	3167.3	2966.3	2548.4	1967.2	1326.7	686.0
72.5°	2045.8	2145.8	2245.7	2549.8	2853.7	2767.6	2521.5	2093.2	1577.2	1059.4	541.5
75°	1481.3	1594.3	1707.1	2042.5	2378.0	2258.5	1886.1	1498.7	1198.0	808.7	419.3
77.5°	1055.2	1130.9	1206.5	1537.9	1869.0	1674.4	1255.5	1008.5	829.2	562.1	294.9
80°	846.4	823.2	800.0	984.6	1169.2	1136.8	830.4	647.7	573.9	376.7	179.5
82.5°	690.4	633.9	577.3	664.2	751.1	746.4	576.3	475.2	427.1	261.8	96.5
85°	505.7	483.0	460.4	537.2	614.1	548.5	390.3	302.0	333.0	192.8	52.5
87.5°	246.6	281.7	316.7	407.3	497.9	373.8	118.5	58.6	81.1	53.3	25.4
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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1328.1	1314.1	1298.2	1282.4	1264.3	1246.1	1235.3	1224.4	1212.7	1200.9	1187.6
5°	1216.3	1186.9	1153.7	1120.5	1087.6	1054.7	1036.9	1019.2	1000.5	981.6	965.2
7.5°	1055.7	1012.9	966.9	920.7	879.8	838.7	813.3	787.8	764.6	741.2	721.6
10°	914.4	859.9	813.7	767.3	736.5	705.6	682.3	658.9	636.4	613.7	592.1
12.5°	821.3	766.8	737.5	708.2	682.6	657.0	630.1	603.0	572.2	541.1	518.5
15°	785.0	735.4	702.9	670.2	635.9	601.5	568.4	535.3	498.9	462.4	436.7
17.5°	769.4	704.4	658.9	613.2	568.1	522.9	484.6	446.2	406.3	366.4	340.4
20°	752.8	666.4	605.4	544.2	486.3	428.3	384.9	341.4	305.8	270.1	250.2
22.5°	737.8	626.0	549.5	472.8	404.3	335.8	293.2	250.4	228.6	206.7	198.7
25°	731.7	590.7	496.7	402.6	330.3	257.9	227.5	197.2	188.8	180.3	176.2
27.5°	732.7	559.2	452.2	345.0	279.9	214.8	194.0	173.2	168.1	162.8	160.2
30°	736.6	525.0	410.2	295.5	241.9	188.2	174.7	161.1	155.6	150.2	146.9
32.5°	741.1	494.3	377.9	261.3	217.5	173.5	162.4	151.2	145.9	140.6	137.4
35°	733.4	469.2	355.7	242.2	201.8	161.2	151.9	142.3	136.5	130.7	127.7
37.5°	720.4	444.0	338.5	232.8	191.6	150.2	143.3	136.4	130.4	124.2	121.4
40°	708.7	422.7	325.7	228.6	185.9	143.2	137.4	131.6	125.4	119.1	115.7
42.5°	699.1	408.4	313.1	217.8	180.8	143.7	135.5	127.1	121.2	115.2	111.5
45°	692.0	399.0	303.2	207.4	176.1	144.7	134.3	123.9	117.9	111.8	107.4
47.5°	691.3	394.1	296.2	198.4	167.0	135.5	131.2	127.0	118.3	109.4	104.3
50°	700.7	386.0	288.0	189.9	158.3	126.8	132.6	138.2	123.4	108.4	101.9
52.5°	720.3	371.9	275.1	178.3	147.8	117.1	126.1	135.0	122.2	109.3	100.9
55°	744.0	351.1	255.5	159.7	133.8	107.7	115.7	123.6	115.6	107.4	97.3
57.5°	758.8	324.9	230.8	136.7	118.1	99.5	104.1	108.6	105.3	102.1	91.9
60°	749.9	289.9	203.0	115.9	104.3	92.7	91.9	90.8	95.6	100.4	88.6
62.5°	706.6	253.8	178.4	103.1	94.4	85.6	83.7	81.6	89.5	97.2	84.7
65°	633.5	228.6	162.9	97.3	87.6	77.9	75.8	73.8	76.2	78.6	72.8
67.5°	540.6	213.0	154.1	95.1	83.3	71.4	69.0	66.6	66.1	65.6	63.6
70°	444.8	203.5	148.3	93.1	78.7	64.3	62.0	59.8	59.1	58.3	56.8
72.5°	371.9	202.3	147.6	92.9	75.0	57.1	55.1	53.0	52.2	51.1	49.9
75°	304.6	189.9	140.1	90.3	69.9	49.3	47.4	45.5	44.8	44.0	43.0
77.5°	226.0	157.1	117.8	78.4	59.8	41.2	39.4	37.3	37.2	36.8	36.0
80°	146.6	113.7	84.2	54.7	43.6	32.4	30.8	29.1	29.3	29.5	28.8
82.5°	81.5	66.3	51.5	36.6	29.8	23.0	22.3	21.5	22.0	22.3	21.5
85°	43.0	33.4	27.6	21.8	17.2	12.6	12.6	12.4	13.1	13.8	13.1
87.5°	18.6	11.8	10.1	8.2	4.6	0.9	1.0	1.0	1.4	1.7	1.5
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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

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: P385831

CATALOG NUMBER: GPC-SA1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1174.2	1161.7	1149.1	1135.3	1137.8	1127.3	1116.7	1110.1	1103.4	1101.4	1099.3
5°	948.8	934.7	920.4	907.6	918.7	911.2	903.7	902.6	901.5	901.5	901.3
7.5°	702.0	686.9	671.5	661.0	671.9	670.5	669.1	676.5	683.8	689.8	695.6
10°	570.5	552.1	533.5	517.8	515.1	507.2	499.2	500.9	502.5	508.9	515.4
12.5°	495.8	473.8	451.8	433.4	425.1	412.1	399.0	390.8	382.6	383.5	384.2
15°	410.8	389.5	368.0	352.1	346.8	336.8	326.7	316.5	306.1	301.8	297.4
17.5°	314.1	297.1	279.9	269.3	269.3	266.4	263.5	258.4	253.1	248.8	244.4
20°	230.3	221.2	212.0	207.6	209.0	209.1	209.1	211.7	214.2	212.9	211.5
22.5°	190.6	187.3	184.1	182.2	182.9	183.1	183.2	185.6	187.8	189.5	191.1
25°	172.0	169.9	167.9	167.2	168.7	168.9	168.9	170.4	172.0	173.7	175.4
27.5°	157.5	156.6	155.8	154.6	156.1	156.1	156.0	157.7	159.2	160.7	162.1
30°	143.7	144.0	144.2	143.9	144.9	145.6	146.1	147.3	148.3	149.5	150.7
32.5°	134.0	133.5	132.9	132.6	134.8	136.0	137.2	138.4	139.4	139.9	140.4
35°	124.6	123.4	122.2	121.4	123.4	124.9	126.5	128.7	130.7	131.1	131.4
37.5°	118.3	116.8	115.2	114.2	115.0	115.7	116.4	118.8	121.2	122.5	123.7
40°	112.3	110.8	109.3	108.4	108.9	109.1	109.3	110.4	111.5	114.0	116.4
42.5°	107.5	105.7	103.8	102.8	103.1	103.5	103.6	103.5	103.3	105.7	108.1
45°	102.8	100.7	98.7	97.5	97.7	97.7	97.7	97.3	96.8	98.0	99.2
47.5°	99.0	96.6	94.3	93.1	92.7	92.4	92.0	91.9	91.5	92.4	93.1
50°	95.3	92.7	90.0	88.6	87.8	87.4	87.1	86.9	86.6	87.4	88.1
52.5°	92.4	89.3	86.2	84.0	83.2	82.7	82.2	82.3	82.3	82.7	82.8
55°	87.3	84.5	81.6	80.1	78.6	78.2	77.9	78.4	78.7	78.7	78.7
57.5°	81.6	79.1	76.4	75.3	74.0	74.0	73.8	74.5	75.0	75.3	75.7
60°	76.7	73.8	70.9	70.1	69.5	69.4	69.2	70.1	70.7	71.4	72.1
62.5°	72.1	69.0	66.0	64.9	64.8	64.9	64.9	65.8	66.5	67.2	67.8
65°	67.0	63.9	60.7	59.7	60.0	60.5	61.0	61.7	62.2	62.9	63.6
67.5°	61.4	58.8	56.1	55.1	55.2	55.9	56.6	57.1	57.4	58.1	58.8
70°	55.2	53.0	50.8	50.1	49.9	50.8	51.5	51.8	52.2	53.0	53.7
72.5°	48.6	46.7	44.8	44.3	44.5	45.0	45.5	46.0	46.4	47.2	47.9
75°	41.8	40.1	38.3	38.0	38.3	38.9	39.4	39.7	40.1	41.1	41.9
77.5°	35.1	33.2	31.2	31.0	31.5	32.0	32.4	32.9	33.4	34.8	36.1
80°	28.1	26.1	23.9	23.7	24.2	24.7	25.2	25.7	26.2	28.0	29.5
82.5°	20.6	18.2	15.9	15.5	17.2	17.7	18.2	19.1	19.8	21.3	22.8
85°	12.4	10.1	7.7	7.5	9.0	9.9	10.7	11.8	12.6	14.0	15.3
87.5°	1.4	0.7	0.0	0.0	0.2	0.9	1.5	2.4	3.2	4.6	5.8
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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1091.8	1084.2	1092.0	1099.7	1102.9	1106.1	1097.8	1089.3	1102.6	1115.7	1119.1
5°	894.5	887.5	892.8	897.9	886.5	875.0	873.8	872.5	882.4	892.2	893.8
7.5°	693.3	691.1	696.1	701.0	686.5	671.9	664.7	657.6	659.9	662.3	662.0
10°	516.9	518.3	524.4	530.4	519.2	507.9	503.0	498.0	503.5	508.8	513.7
12.5°	387.2	390.1	396.6	402.9	398.3	393.5	394.1	394.6	400.9	407.0	412.5
15°	300.8	304.2	308.8	313.3	313.4	313.4	317.9	322.1	321.6	321.1	324.9
17.5°	249.0	253.4	254.0	254.5	254.6	254.8	254.5	254.1	251.6	249.0	251.9
20°	213.2	214.8	216.1	217.3	215.8	214.1	209.8	205.5	203.8	202.1	204.9
22.5°	194.0	196.7	195.3	193.8	190.7	187.5	184.2	180.8	180.7	180.3	181.9
25°	177.8	180.0	177.6	175.2	173.0	170.8	168.6	166.3	166.2	166.0	166.7
27.5°	164.3	166.3	164.1	161.9	160.0	158.2	156.5	154.8	154.4	154.1	154.2
30°	152.7	154.6	152.7	150.7	149.3	147.8	146.6	145.4	145.2	145.0	145.0
32.5°	142.3	144.2	142.8	141.5	140.3	139.1	138.2	137.4	136.5	135.7	133.8
35°	133.3	135.2	134.3	133.3	131.9	130.6	129.0	127.3	125.1	122.7	121.7
37.5°	125.6	127.5	126.6	125.8	123.9	122.0	119.3	116.4	115.7	114.9	114.7
40°	119.5	122.4	120.7	118.8	115.9	113.0	111.6	110.3	109.9	109.6	109.3
42.5°	112.7	117.1	114.0	111.0	108.2	105.5	105.2	104.8	104.6	104.5	104.5
45°	104.1	108.9	105.8	102.6	101.1	99.5	99.5	99.5	99.7	99.7	100.0
47.5°	96.1	99.0	97.5	96.0	95.1	94.3	94.4	94.6	95.1	95.4	96.3
50°	89.3	90.3	90.7	90.8	90.3	89.8	90.2	90.3	90.8	91.2	91.9
52.5°	84.4	85.9	85.9	85.7	85.7	85.7	86.1	86.4	86.9	87.4	88.1
55°	81.1	83.3	82.7	82.0	82.2	82.2	82.5	82.8	83.3	83.7	84.7
57.5°	78.1	80.4	79.8	79.1	79.1	79.1	79.3	79.4	79.9	80.3	81.0
60°	74.5	76.9	76.2	75.3	75.5	75.7	75.8	75.8	76.2	76.4	76.4
62.5°	70.2	72.6	71.9	71.1	71.6	71.9	71.9	71.9	72.3	72.4	71.9
65°	65.8	68.0	67.3	66.6	67.3	67.8	68.2	68.3	68.2	68.0	67.5
67.5°	61.0	63.2	62.6	61.7	62.6	63.2	63.9	64.4	63.9	63.4	62.7
70°	55.9	58.1	57.3	56.4	57.3	58.1	58.8	59.5	58.8	58.1	57.9
72.5°	50.4	53.0	52.0	51.0	52.0	53.0	53.3	53.7	53.2	52.7	52.3
75°	44.5	47.0	46.2	45.2	46.0	46.9	47.0	47.2	47.2	47.0	46.0
77.5°	38.2	40.2	39.7	39.2	39.7	40.2	40.2	40.2	40.4	40.4	39.0
80°	30.7	31.9	32.0	32.2	32.4	32.6	32.4	32.2	31.9	31.5	30.7
82.5°	22.8	22.8	24.2	25.4	25.4	25.2	25.1	24.7	24.0	23.2	21.3
85°	14.5	13.6	15.9	17.9	17.9	17.7	17.4	16.9	15.5	14.0	12.4
87.5°	4.9	4.1	6.3	8.5	8.7	8.7	8.4	8.0	6.6	5.1	3.9
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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1124.2	1126.4	1128.5	1145.2	1161.7	1181.1	1200.6	1215.4	1230.1	1245.2	1260.4
5°	899.1	901.8	904.5	924.8	944.9	972.0	999.1	1022.5	1045.8	1073.3	1100.7
7.5°	666.4	672.4	678.2	699.8	721.3	750.4	779.4	809.9	840.3	876.1	911.8
10°	523.4	534.7	545.7	567.9	590.1	618.9	647.5	679.4	711.2	746.5	781.6
12.5°	423.7	438.7	453.5	480.1	506.7	541.1	575.4	610.9	646.1	677.2	708.2
15°	334.7	351.1	367.3	395.4	423.5	461.4	499.0	537.7	576.3	613.4	650.6
17.5°	261.1	274.6	287.9	311.7	335.4	372.1	408.7	449.3	489.8	535.2	580.3
20°	210.7	216.3	221.9	239.1	256.2	286.0	315.7	357.1	398.5	452.7	506.9
22.5°	184.6	187.5	190.2	198.6	206.7	226.0	245.1	281.7	318.2	377.4	436.3
25°	168.9	171.1	173.3	178.8	184.2	193.4	202.7	228.4	254.1	312.2	370.2
27.5°	154.8	158.2	161.4	164.0	166.3	172.7	178.8	195.7	212.5	266.7	320.8
30°	144.5	145.7	146.9	150.8	154.6	161.1	167.5	179.3	191.1	236.9	282.6
32.5°	132.6	134.3	136.0	140.1	144.2	150.2	156.1	165.7	175.0	214.2	253.3
35°	121.9	123.6	125.3	129.4	133.3	139.8	146.1	154.1	161.9	196.0	230.1
37.5°	115.2	116.9	118.6	122.2	125.6	132.1	138.4	144.7	150.8	182.4	213.9
40°	109.6	111.3	113.0	116.4	119.6	126.0	132.1	137.4	142.7	172.1	201.6
42.5°	104.6	106.5	108.4	111.8	115.0	120.7	126.3	133.3	140.1	163.3	186.3
45°	100.6	102.4	104.1	107.9	111.6	117.1	122.5	132.3	142.0	158.7	175.4
47.5°	96.8	98.9	100.7	104.8	108.9	115.7	122.4	130.6	138.6	155.1	171.6
50°	93.2	95.6	98.0	102.9	107.7	119.1	130.4	131.6	132.6	152.2	171.6
52.5°	89.8	92.5	95.3	101.4	107.4	120.7	134.0	129.7	125.3	146.7	168.2
55°	86.4	88.8	91.0	98.5	106.0	115.7	125.4	119.8	114.0	136.5	159.0
57.5°	81.8	84.4	86.8	94.8	102.8	109.6	116.2	111.1	105.8	124.9	143.9
60°	77.0	79.9	82.8	93.1	103.1	101.9	100.6	99.5	98.3	112.0	125.6
62.5°	72.8	75.8	78.9	92.2	105.5	97.3	89.1	90.0	90.7	100.7	110.8
65°	68.5	71.6	74.5	81.1	87.8	84.5	81.3	82.7	83.9	93.7	103.6
67.5°	63.7	66.5	69.0	71.2	73.5	73.8	74.1	75.5	76.9	88.6	100.2
70°	58.5	60.7	62.9	64.4	65.8	66.5	67.0	68.7	70.4	83.2	96.0
72.5°	52.5	54.4	56.1	57.4	58.8	59.3	59.7	61.4	63.1	76.7	90.3
75°	46.0	47.6	48.9	50.1	51.3	52.0	52.7	53.9	55.1	69.9	84.5
77.5°	38.9	40.4	41.8	42.8	43.6	44.3	44.8	46.4	47.9	60.3	72.6
80°	30.3	32.2	33.9	34.8	35.5	35.6	35.6	37.0	38.3	47.2	55.9
82.5°	21.5	23.5	25.4	26.1	26.8	26.8	26.8	28.3	29.8	35.8	41.6
85°	12.6	14.8	16.9	17.6	18.2	18.6	18.7	19.4	19.9	24.2	28.3
87.5°	3.9	5.8	7.5	7.8	8.2	8.9	9.5	9.7	9.7	12.6	15.5
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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7	1298.7
2.5°	1277.8	1295.2	1315.4	1335.6	1352.8	1370.0	1384.3
5°	1135.6	1170.6	1213.4	1256.0	1294.0	1332.0	1376.1
7.5°	957.0	1002.2	1057.6	1113.0	1166.7	1220.2	1288.0
10°	827.7	873.5	932.1	990.6	1050.9	1111.1	1187.8
12.5°	745.5	782.7	839.4	896.2	967.1	1037.8	1111.6
15°	691.3	731.9	787.1	842.3	919.9	997.4	1082.3
17.5°	633.5	686.5	757.3	828.0	919.9	1011.6	1111.6
20°	573.0	639.0	730.7	822.4	946.1	1069.7	1197.3
22.5°	512.7	589.0	706.6	824.1	985.8	1147.4	1319.7
25°	458.3	546.4	692.0	837.4	1043.6	1249.7	1463.4
27.5°	417.1	513.2	686.0	858.7	1116.9	1375.1	1619.7
30°	380.4	478.3	678.9	879.5	1187.4	1495.3	1741.9
32.5°	348.7	444.2	665.1	885.8	1236.7	1587.6	1845.3
35°	323.8	417.6	641.9	866.2	1267.6	1668.9	1953.1
37.5°	302.4	390.8	615.5	840.1	1295.0	1749.9	2074.2
40°	281.9	362.2	592.8	823.2	1332.8	1842.4	2202.2
42.5°	262.5	338.7	574.5	810.4	1367.9	1925.3	2314.2
45°	248.0	320.6	558.4	795.9	1390.6	1985.3	2398.6
47.5°	240.8	309.9	549.7	789.3	1413.3	2037.1	2468.6
50°	239.8	308.0	559.6	811.1	1462.4	2113.4	2548.7
52.5°	239.6	311.1	588.0	865.0	1553.5	2242.0	2635.5
55°	236.1	312.9	621.9	930.8	1675.9	2420.9	2791.4
57.5°	225.1	306.4	656.9	1007.1	1805.3	2603.3	2967.2
60°	208.3	290.8	685.7	1080.4	1892.2	2703.8	3034.8
62.5°	187.1	263.3	695.2	1126.9	1889.8	2652.7	2966.7
65°	169.1	234.5	663.9	1093.0	1794.2	2495.2	2831.8
67.5°	153.1	205.7	585.5	965.0	1622.2	2279.3	2660.4
70°	141.5	186.8	484.4	782.0	1407.0	2031.8	2461.8
72.5°	134.1	177.8	394.9	611.9	1141.8	1671.5	2105.8
75°	124.1	163.6	309.9	455.9	873.8	1291.8	1590.5
77.5°	105.3	137.9	233.5	329.1	641.2	953.1	1106.1
80°	81.3	106.5	160.6	214.6	441.3	667.9	754.2
82.5°	57.9	74.3	97.3	120.3	293.2	465.8	473.0
85°	35.8	43.3	55.7	68.2	194.0	319.7	266.4
87.5°	19.3	23.0	29.5	35.8	62.0	88.3	50.8
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: P385831
 CATALOG NUMBER: GPC-SA1B-830-U-SLL

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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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.

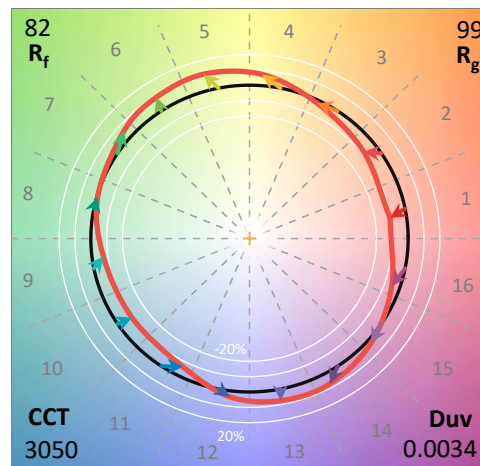
Test Information

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
 Rf: 81.5
 Rg: 99.2

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



Test Conditions

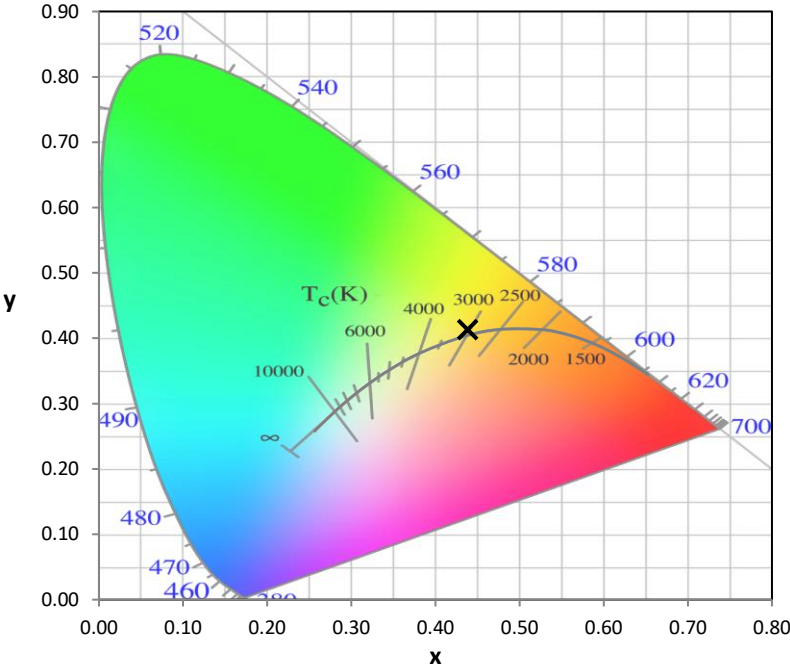
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

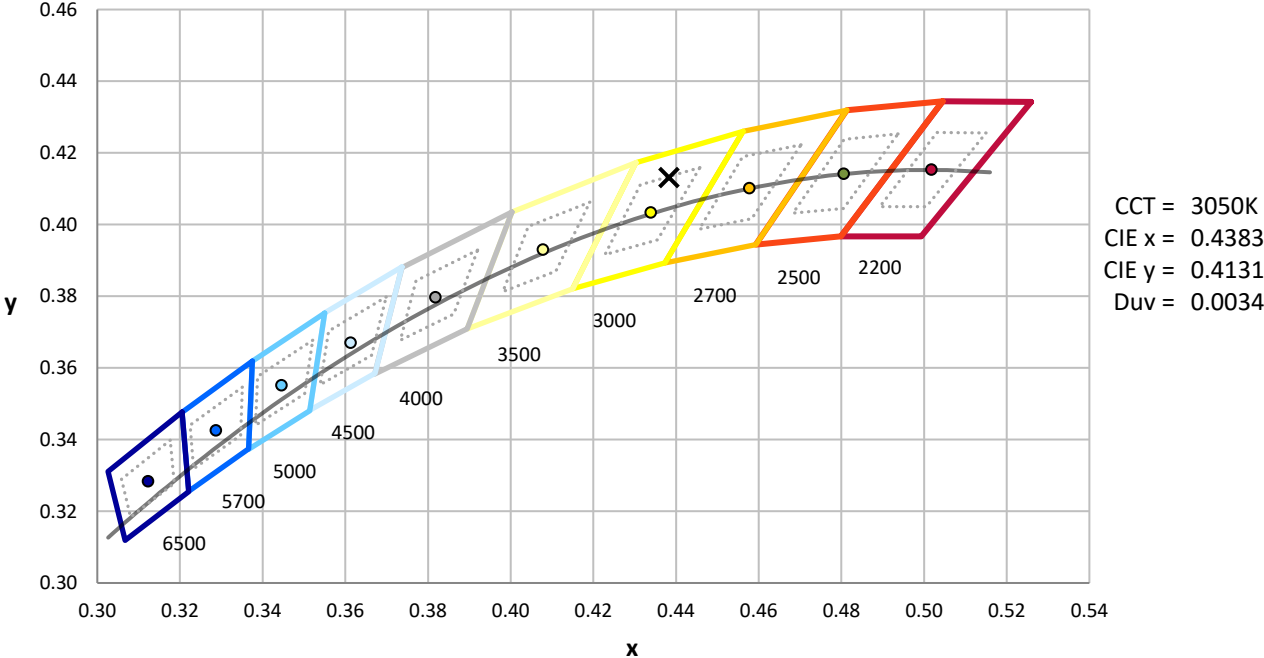
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



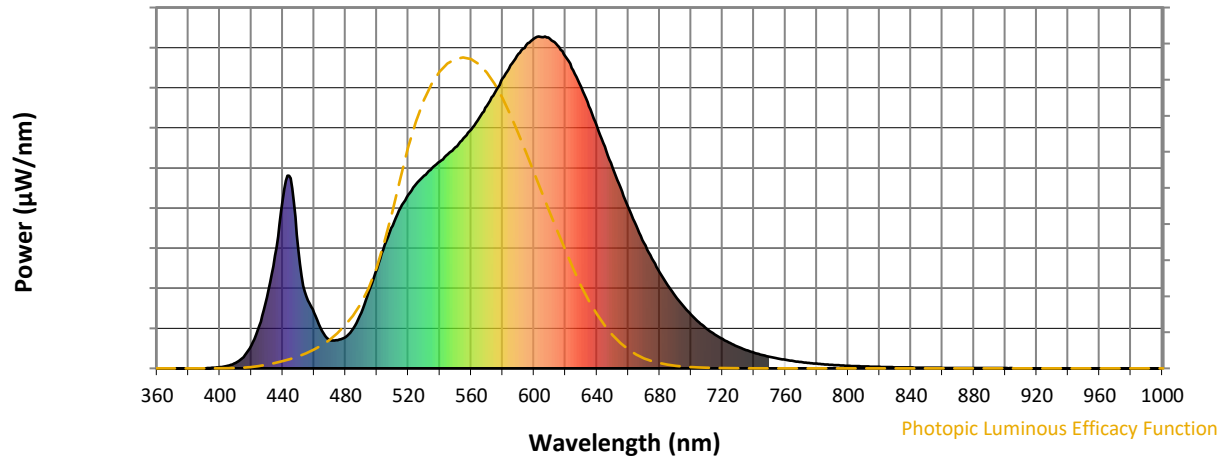
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

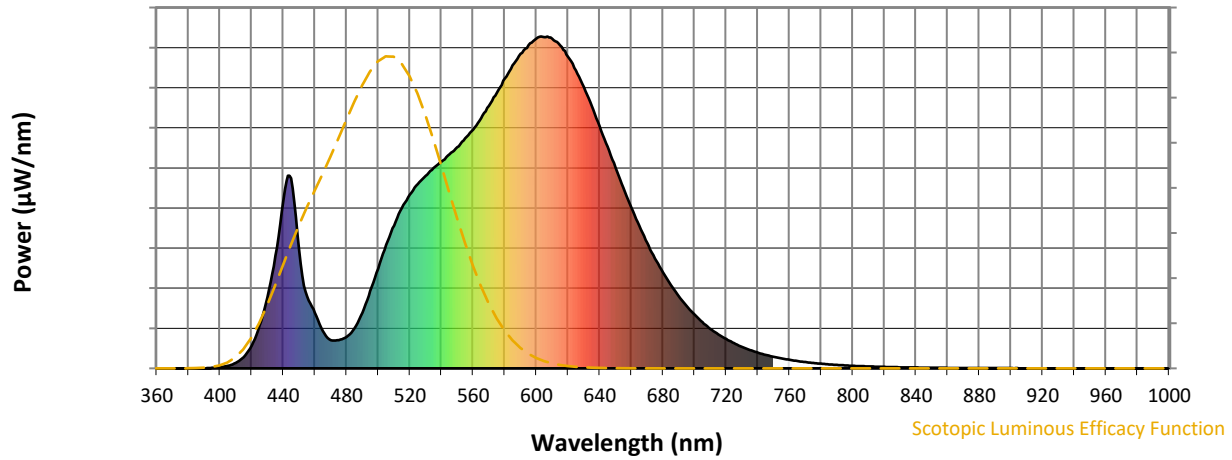


Photopic Lumens: NR

λ (nm)	Power 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

Scotopic Flux vs. Wavelength



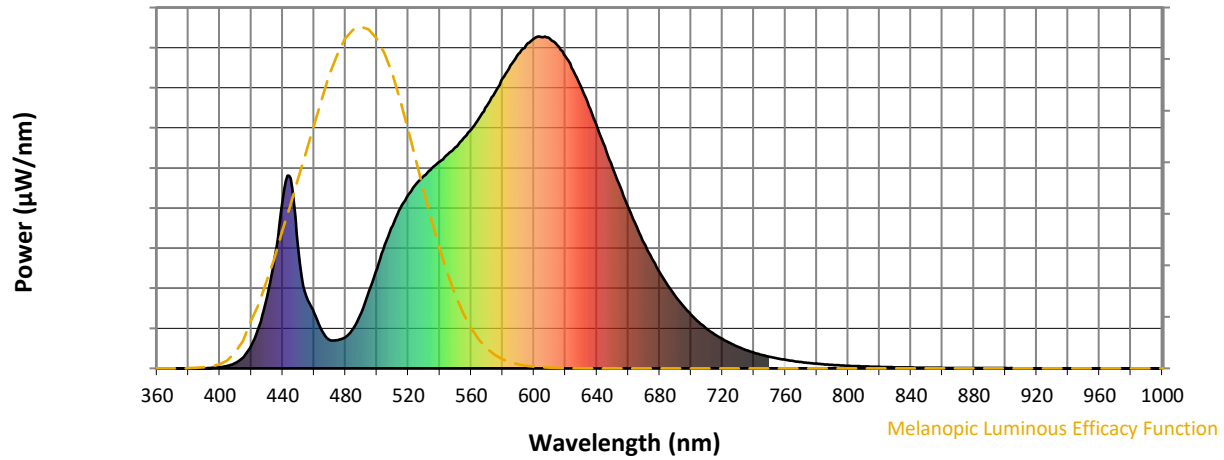
Scotopic Lumens: NR

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



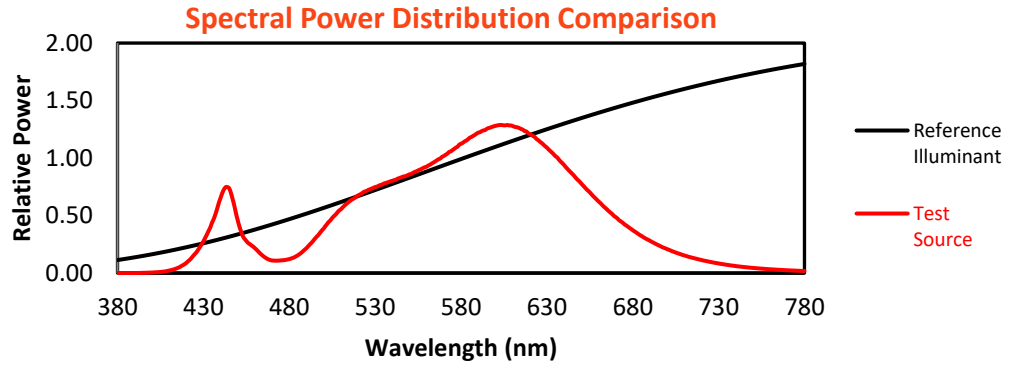
Melanopic Lumens: NR

M/P: 2.32

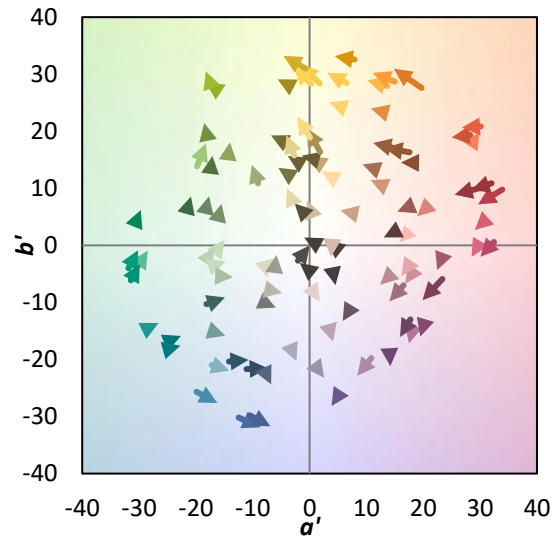
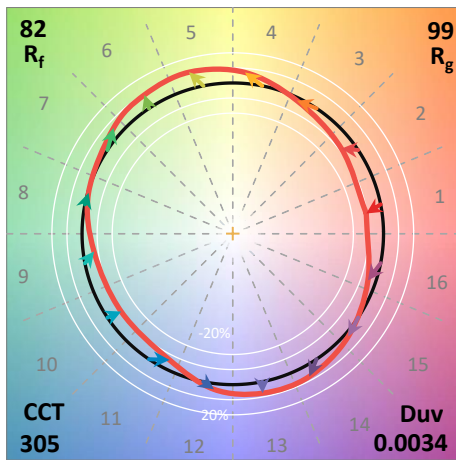
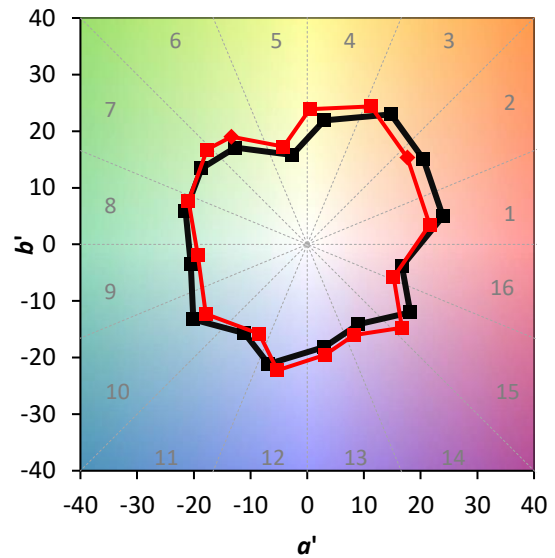
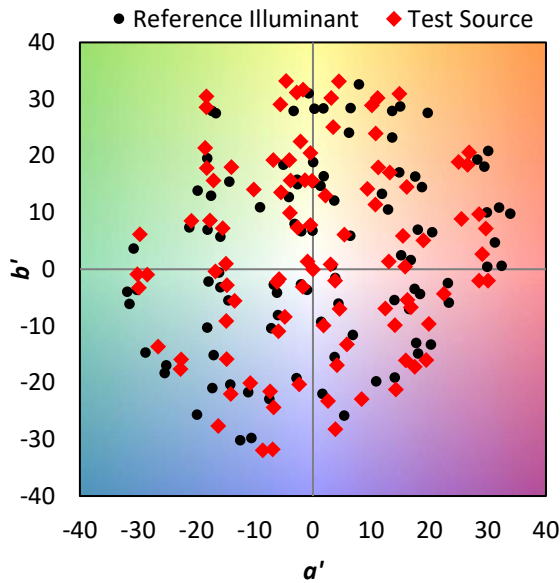
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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			

Summary

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

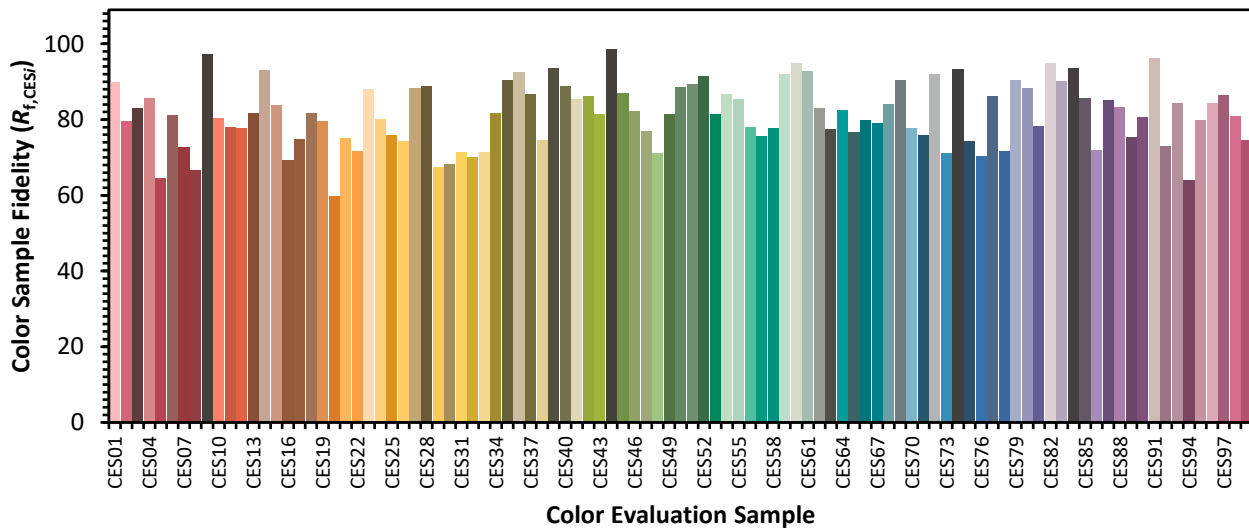


Color Vector Graphics

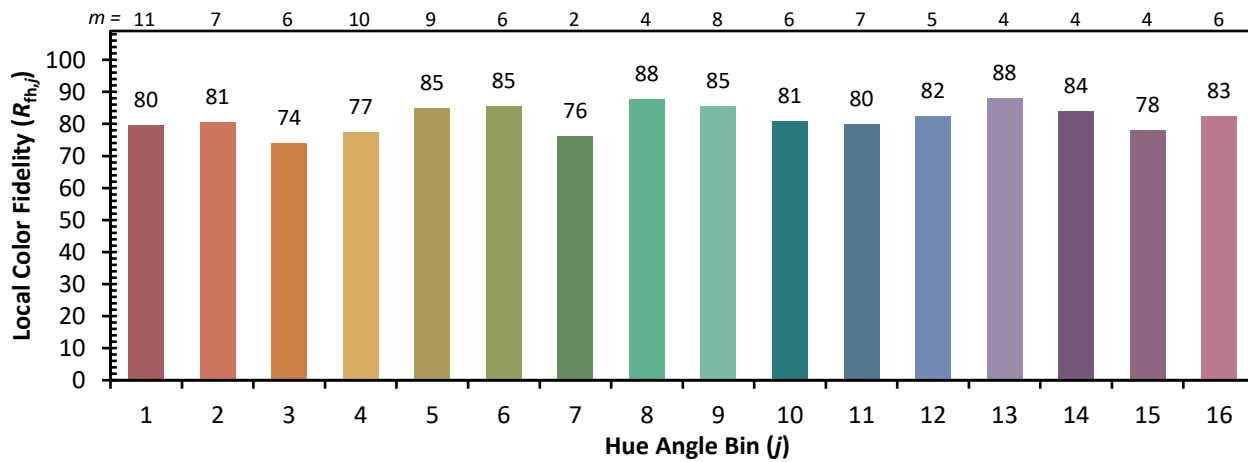
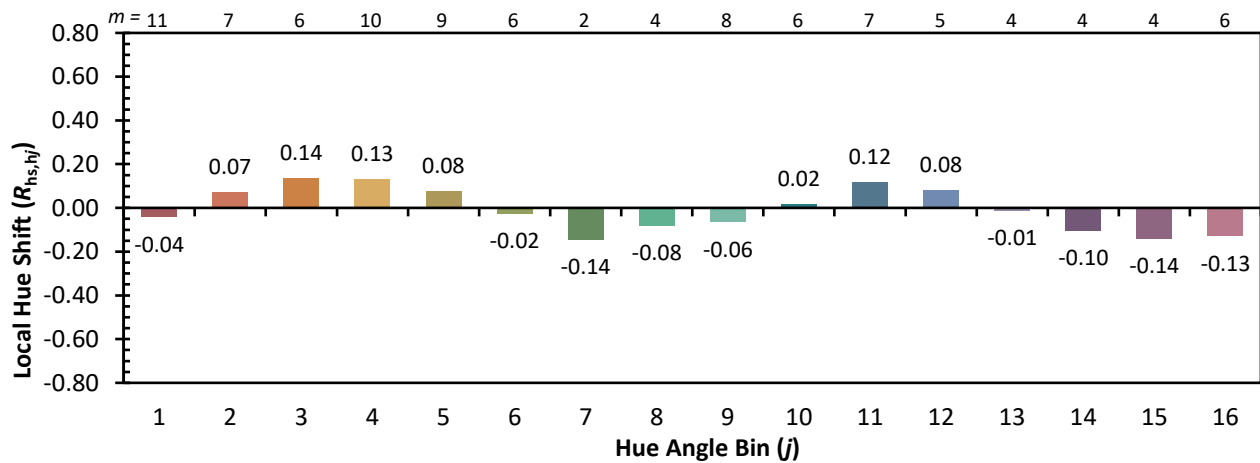
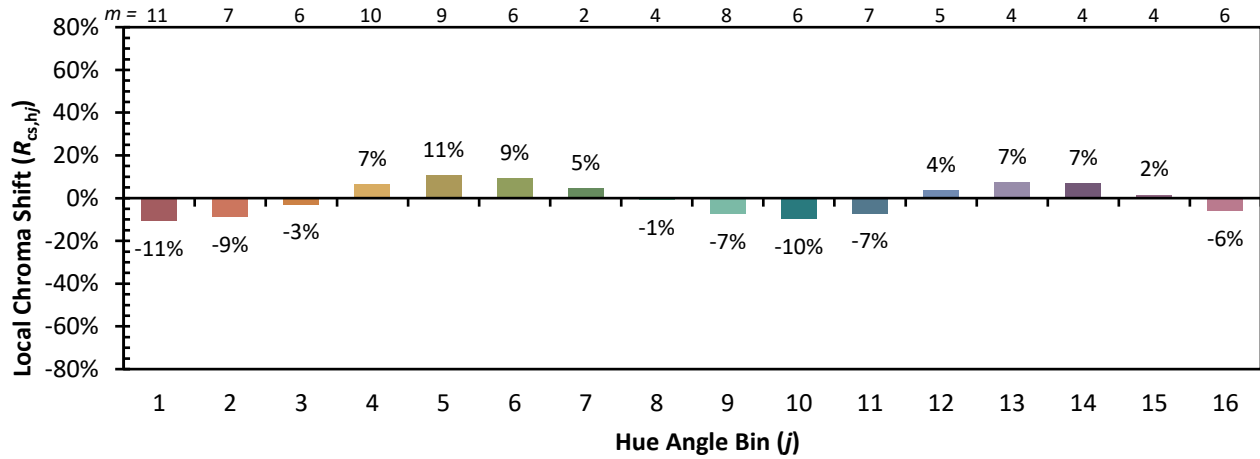


Individual Sample Fidelity Index ($R_{f,i}$)

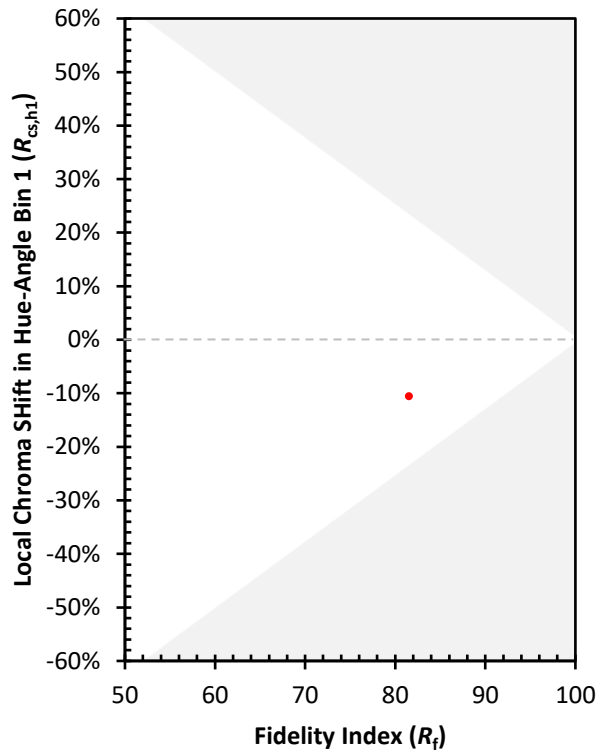
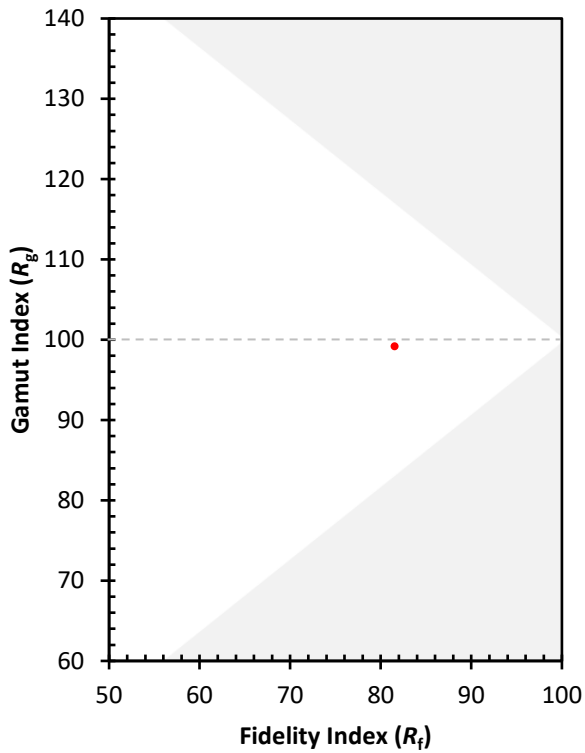
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)