

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: P386962

Luminaire Tested: **GWC-SA2C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2C-830-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8329 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

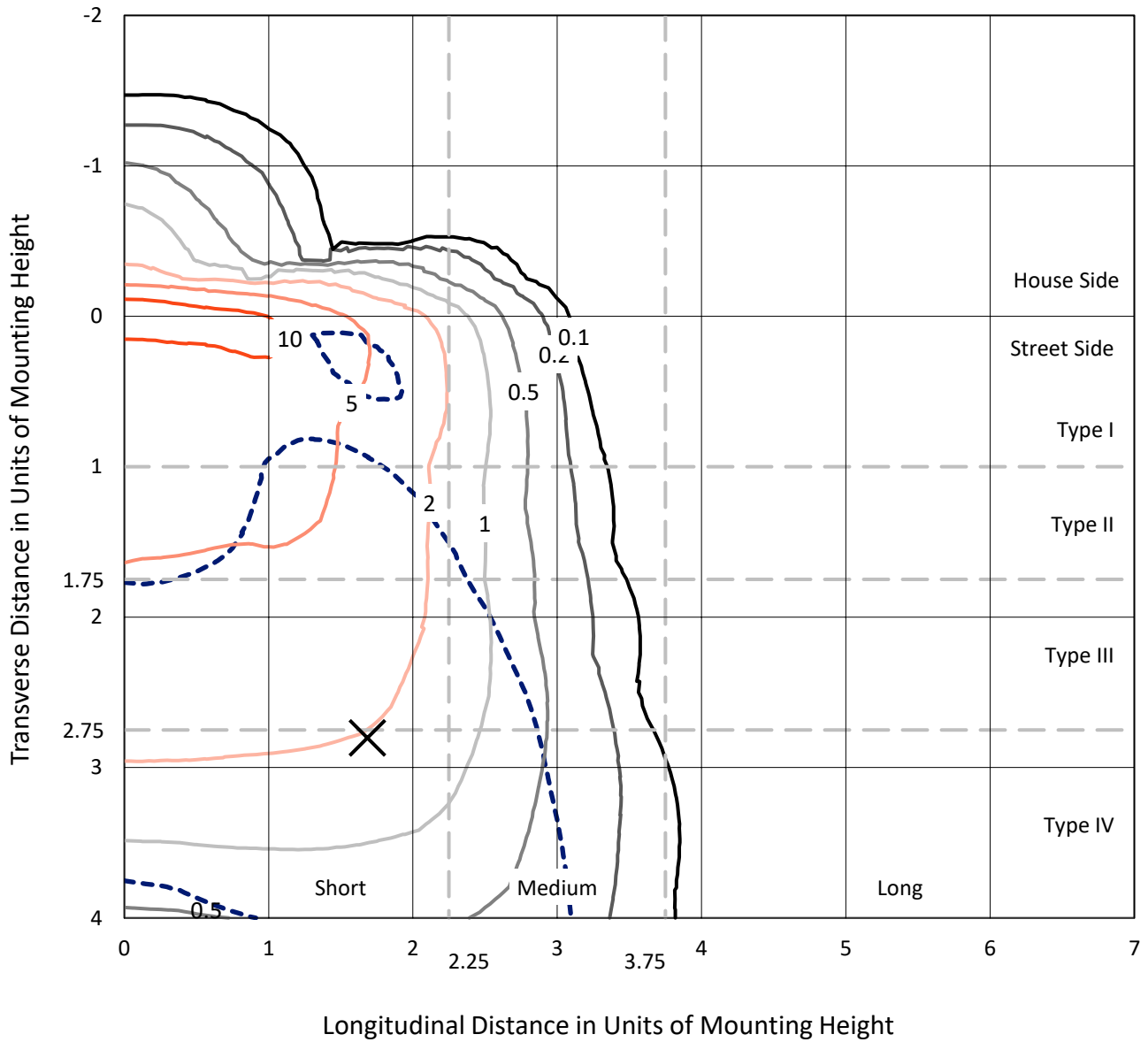
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P386962
 CATALOG NUMBER: GWC-SA2C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

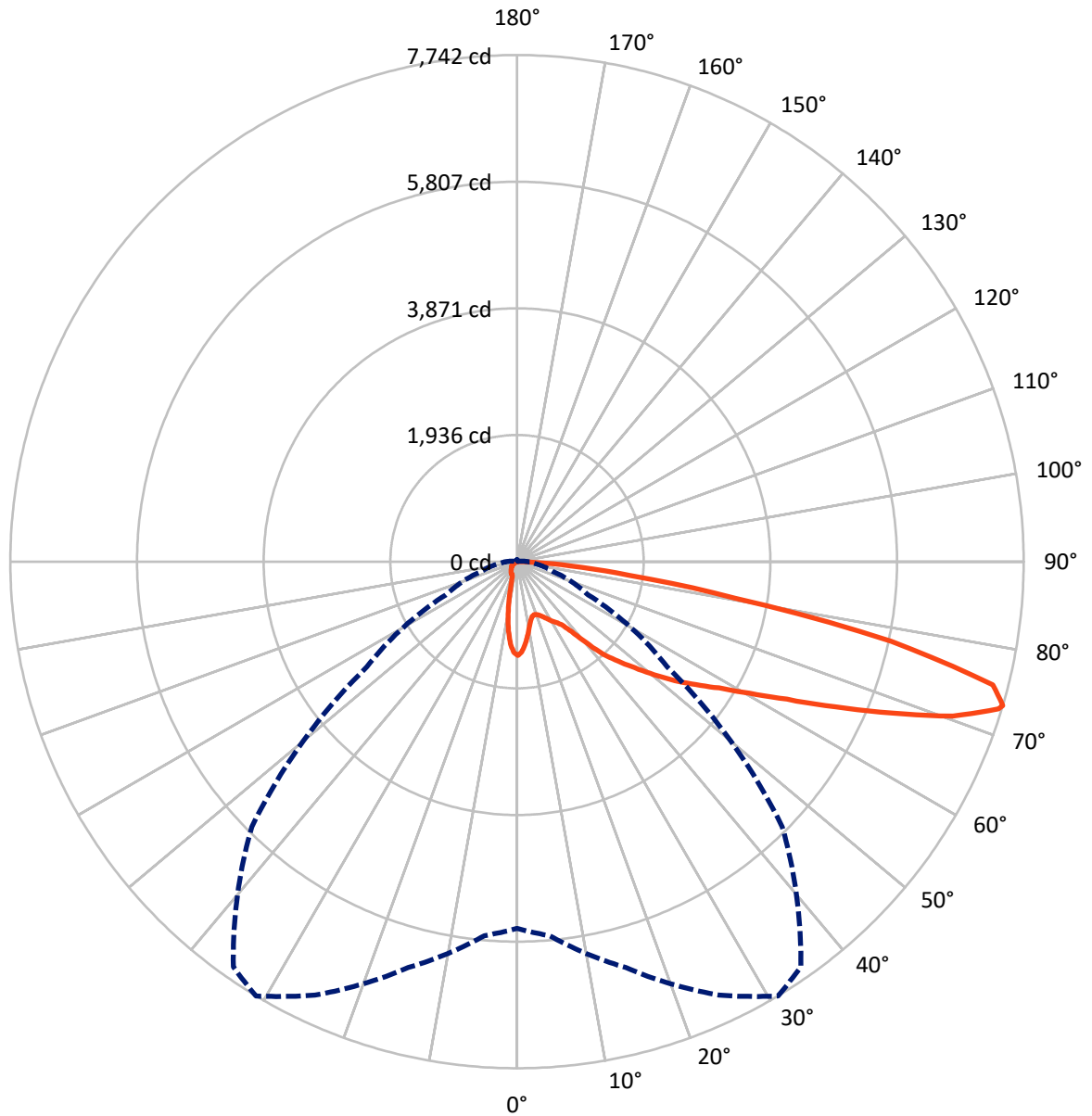
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P386962
CATALOG NUMBER: GWC-SA2C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



REPORT NUMBER: P386962
 CATALOG NUMBER: GWC-SA2C-830-U-T4FT-HSS

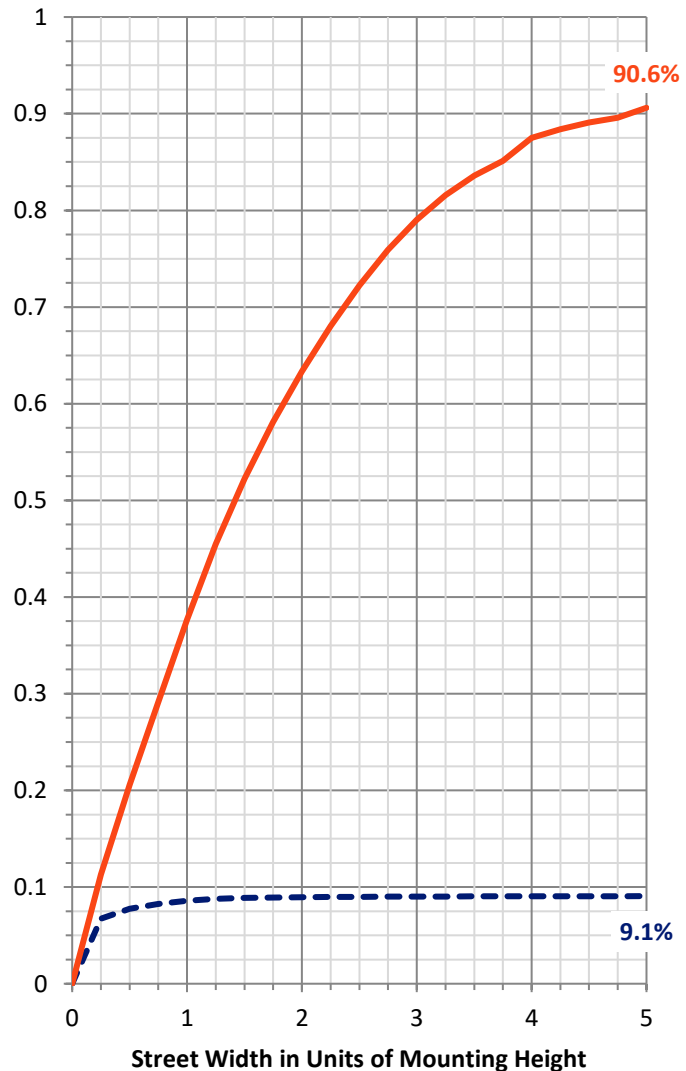
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 759.2 | 0.0 | 759.2 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 7569.8 | 0.0 | 7569.8 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 8329.0 | 0.0 | 8329.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.8 | 1.4 |
| 10°-20° | 258.0 | 3.1 |
| 20°-30° | 386.5 | 4.6 |
| 30°-40° | 615.0 | 7.4 |
| 40°-50° | 1098.2 | 13.2 |
| 50°-60° | 1704.1 | 20.5 |
| 60°-70° | 2265.3 | 27.2 |
| 70°-80° | 1704.0 | 20.5 |
| 80°-90° | 179.1 | 2.1 |
| 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° | 8329.0 | 100.0 |
| 0°-180° | 8329.0 | 100.0 |



REPORT NUMBER: P386962

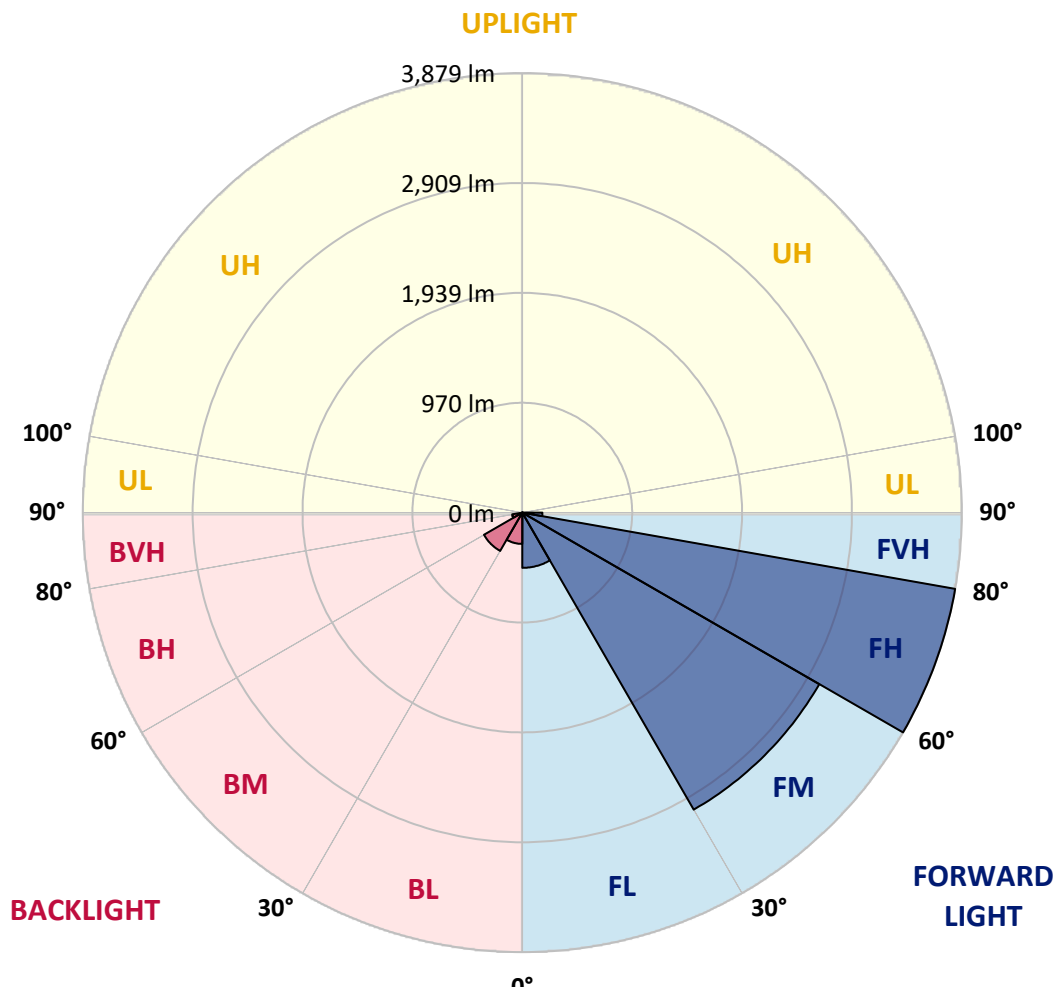
CATALOG NUMBER: GWC-SA2C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 487.3 | 5.9 | | | |
| FM (30°-60°) | 3026.5 | 36.3 | | | |
| FH (60°-80°) | 3878.5 | 46.6 | | | G2/5000 |
| FVH (80°-90°) | 177.5 | 2.1 | | | G2/225 |
| BL (0°-30°) | 276.1 | 3.3 | B1/500 | | |
| BM (30°-60°) | 390.8 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 90.8 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.5 | 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: P386962

CATALOG NUMBER: GWC-SA2C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 |
| 2.5° | 1358.0 | 1363.7 | 1369.8 | 1371.1 | 1381.3 | 1381.7 | 1396.3 | 1407.3 | 1418.3 | 1428.9 | 1432.6 |
| 5° | 1218.6 | 1228.0 | 1239.0 | 1250.0 | 1271.6 | 1280.2 | 1316.0 | 1352.7 | 1387.8 | 1421.2 | 1437.5 |
| 7.5° | 1069.9 | 1080.5 | 1096.0 | 1123.3 | 1147.3 | 1164.0 | 1220.7 | 1285.9 | 1351.1 | 1412.6 | 1448.1 |
| 10° | 934.2 | 943.9 | 960.2 | 989.2 | 1026.3 | 1049.1 | 1125.3 | 1215.8 | 1311.6 | 1404.9 | 1464.0 |
| 12.5° | 847.7 | 853.0 | 862.0 | 893.0 | 926.4 | 952.1 | 1041.8 | 1153.8 | 1279.0 | 1404.5 | 1489.7 |
| 15° | 831.9 | 833.5 | 826.1 | 840.0 | 866.1 | 891.0 | 981.8 | 1103.7 | 1254.1 | 1411.0 | 1523.1 |
| 17.5° | 857.1 | 856.3 | 831.9 | 830.2 | 851.0 | 871.4 | 952.5 | 1069.1 | 1236.6 | 1426.1 | 1566.3 |
| 20° | 895.4 | 892.6 | 850.2 | 842.5 | 864.5 | 883.6 | 950.5 | 1056.0 | 1230.1 | 1451.4 | 1618.9 |
| 22.5° | 946.4 | 941.5 | 875.1 | 866.9 | 890.5 | 910.5 | 975.7 | 1068.7 | 1235.8 | 1485.2 | 1680.0 |
| 25° | 1009.6 | 1002.2 | 917.9 | 908.9 | 932.9 | 952.9 | 1021.0 | 1104.9 | 1252.9 | 1526.4 | 1757.4 |
| 27.5° | 1080.9 | 1070.3 | 986.3 | 963.1 | 990.4 | 1011.2 | 1081.3 | 1160.4 | 1279.8 | 1570.0 | 1852.4 |
| 30° | 1148.1 | 1134.3 | 1058.5 | 1020.2 | 1053.6 | 1076.8 | 1146.5 | 1226.4 | 1323.0 | 1637.2 | 1982.4 |
| 32.5° | 1215.8 | 1200.3 | 1122.9 | 1077.2 | 1107.4 | 1132.6 | 1213.7 | 1317.3 | 1404.1 | 1739.9 | 2155.2 |
| 35° | 1371.5 | 1355.2 | 1260.2 | 1184.8 | 1184.4 | 1198.7 | 1307.9 | 1441.6 | 1511.3 | 1883.0 | 2361.5 |
| 37.5° | 1633.5 | 1624.2 | 1533.7 | 1390.6 | 1352.3 | 1336.4 | 1436.3 | 1589.9 | 1665.3 | 2079.8 | 2594.2 |
| 40° | 1920.5 | 1912.3 | 1810.8 | 1681.2 | 1622.9 | 1583.8 | 1620.5 | 1796.6 | 1883.0 | 2320.3 | 2831.8 |
| 42.5° | 2244.5 | 2205.8 | 2024.8 | 1986.1 | 1933.9 | 1904.2 | 1871.2 | 2051.3 | 2150.3 | 2582.0 | 3067.4 |
| 45° | 2538.8 | 2473.6 | 2238.8 | 2180.1 | 2168.3 | 2175.6 | 2194.0 | 2393.7 | 2451.1 | 2892.9 | 3302.1 |
| 47.5° | 2714.0 | 2662.7 | 2482.5 | 2426.3 | 2423.0 | 2471.5 | 2610.1 | 2780.5 | 2750.7 | 3164.0 | 3508.8 |
| 50° | 2880.7 | 2834.3 | 2684.7 | 2698.5 | 2713.6 | 2779.6 | 3082.5 | 3178.2 | 3024.2 | 3409.7 | 3698.3 |
| 52.5° | 3015.6 | 2944.7 | 2866.5 | 2944.3 | 3018.5 | 3124.9 | 3569.9 | 3535.3 | 3218.2 | 3605.4 | 3860.5 |
| 55° | 3093.5 | 3061.3 | 3099.2 | 3177.4 | 3316.8 | 3489.6 | 4030.1 | 3832.4 | 3360.0 | 3783.9 | 3968.5 |
| 57.5° | 3378.8 | 3315.6 | 3391.0 | 3458.7 | 3640.4 | 3882.1 | 4424.2 | 4053.7 | 3462.3 | 3894.3 | 3993.4 |
| 60° | 3724.0 | 3673.0 | 3717.5 | 3829.9 | 4075.3 | 4359.4 | 4792.6 | 4234.3 | 3515.7 | 3965.3 | 3929.0 |
| 62.5° | 4273.4 | 4206.1 | 4178.4 | 4304.4 | 4629.6 | 4939.8 | 5072.2 | 4359.4 | 3503.9 | 3933.9 | 3708.1 |
| 65° | 5009.5 | 4939.8 | 4815.9 | 4930.0 | 5343.7 | 5562.5 | 5384.8 | 4385.9 | 3422.4 | 3680.0 | 3149.7 |
| 67.5° | 5763.5 | 5712.9 | 5607.0 | 5799.3 | 6172.7 | 6243.2 | 5715.4 | 4321.5 | 3159.9 | 2983.8 | 2225.3 |
| 70° | 6261.5 | 6239.9 | 6308.8 | 6734.3 | 7067.3 | 7046.9 | 6018.6 | 3975.5 | 2463.0 | 1834.9 | 1100.9 |
| 72.5° | 5902.5 | 6006.0 | 6514.6 | 7286.2 | 7692.9 | 7526.6 | 5862.9 | 3052.7 | 1407.8 | 705.9 | 318.3 |
| 73° | 5604.9 | 5737.4 | 6422.1 | 7306.9 | 7742.2 | 7560.0 | 5732.1 | 2802.1 | 1199.9 | 557.2 | 241.3 |
| 75° | 3899.2 | 4061.9 | 5316.8 | 6805.2 | 7511.5 | 7203.0 | 4778.0 | 1715.1 | 555.9 | 247.0 | 97.4 |
| 77.5° | 1893.2 | 2013.4 | 2927.6 | 4916.9 | 5841.7 | 5627.7 | 2974.5 | 639.1 | 251.1 | 154.5 | 44.8 |
| 80° | 706.7 | 785.8 | 1270.8 | 2502.5 | 3375.9 | 3464.4 | 1308.3 | 241.7 | 167.1 | 124.3 | 22.8 |
| 82.5° | 185.0 | 206.2 | 468.7 | 1115.9 | 1730.1 | 1810.8 | 412.5 | 121.9 | 122.3 | 102.3 | 13.9 |
| 85° | 59.1 | 67.7 | 146.3 | 500.9 | 815.1 | 715.7 | 107.6 | 59.1 | 88.9 | 76.2 | 7.7 |
| 87.5° | 7.3 | 9.4 | 46.5 | 117.8 | 179.7 | 99.9 | 16.7 | 17.5 | 37.9 | 42.4 | 4.5 |
| 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: P386962

CATALOG NUMBER: GWC-SA2C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 | 1433.0 |
| 2.5° | 1436.3 | 1434.2 | 1434.7 | 1424.1 | 1417.1 | 1403.3 | 1389.0 | 1382.5 | 1375.6 | 1372.7 | 1375.6 |
| 5° | 1443.6 | 1440.0 | 1429.4 | 1396.7 | 1362.1 | 1317.3 | 1275.3 | 1243.5 | 1203.6 | 1192.6 | 1204.0 |
| 7.5° | 1455.0 | 1447.7 | 1416.7 | 1350.3 | 1273.3 | 1187.7 | 1091.5 | 1021.4 | 963.9 | 926.8 | 940.3 |
| 10° | 1471.7 | 1457.9 | 1395.5 | 1282.6 | 1144.9 | 993.3 | 856.7 | 750.3 | 674.9 | 644.0 | 642.7 |
| 12.5° | 1499.9 | 1473.8 | 1369.4 | 1194.6 | 988.0 | 785.8 | 606.9 | 491.5 | 430.4 | 390.9 | 390.0 |
| 15° | 1530.8 | 1492.5 | 1336.4 | 1089.0 | 805.4 | 562.9 | 390.9 | 303.2 | 263.7 | 251.1 | 249.4 |
| 17.5° | 1568.7 | 1514.1 | 1293.6 | 959.0 | 614.2 | 372.9 | 255.1 | 229.9 | 228.2 | 227.0 | 227.0 |
| 20° | 1616.4 | 1539.8 | 1238.6 | 810.3 | 435.7 | 249.0 | 216.8 | 218.5 | 219.3 | 217.6 | 218.1 |
| 22.5° | 1671.9 | 1565.9 | 1173.0 | 650.5 | 294.7 | 208.3 | 207.5 | 209.5 | 210.3 | 209.5 | 209.9 |
| 25° | 1736.3 | 1596.1 | 1093.1 | 483.0 | 212.8 | 197.7 | 199.7 | 202.6 | 204.6 | 204.6 | 204.6 |
| 27.5° | 1816.1 | 1632.7 | 996.9 | 337.1 | 183.8 | 186.7 | 192.4 | 197.7 | 200.5 | 201.3 | 201.3 |
| 30° | 1920.1 | 1678.4 | 881.6 | 231.1 | 167.1 | 172.0 | 182.6 | 192.8 | 198.1 | 198.9 | 199.3 |
| 32.5° | 2051.3 | 1729.7 | 747.9 | 170.8 | 152.8 | 156.5 | 167.9 | 185.0 | 195.2 | 196.9 | 196.9 |
| 35° | 2201.7 | 1789.2 | 604.0 | 148.8 | 142.7 | 143.9 | 152.8 | 172.4 | 190.3 | 194.8 | 195.2 |
| 37.5° | 2366.4 | 1847.9 | 459.3 | 139.0 | 134.1 | 134.1 | 140.6 | 157.3 | 178.5 | 192.4 | 194.0 |
| 40° | 2520.0 | 1883.4 | 322.0 | 131.2 | 126.3 | 126.3 | 132.1 | 144.3 | 164.3 | 185.0 | 189.5 |
| 42.5° | 2661.8 | 1895.6 | 224.2 | 123.9 | 119.0 | 120.2 | 125.1 | 134.9 | 150.0 | 170.8 | 174.8 |
| 45° | 2807.8 | 1893.6 | 163.4 | 115.3 | 111.7 | 115.3 | 119.0 | 126.3 | 137.4 | 149.2 | 150.0 |
| 47.5° | 2917.8 | 1876.5 | 129.6 | 107.2 | 104.7 | 109.6 | 112.9 | 117.8 | 123.9 | 123.1 | 123.1 |
| 50° | 3020.9 | 1834.9 | 104.3 | 96.2 | 97.8 | 103.5 | 105.2 | 106.8 | 107.2 | 99.4 | 98.6 |
| 52.5° | 3099.2 | 1770.1 | 83.6 | 84.4 | 90.9 | 96.6 | 95.0 | 92.5 | 88.4 | 79.1 | 77.4 |
| 55° | 3125.3 | 1645.4 | 65.6 | 69.7 | 80.7 | 88.0 | 81.9 | 76.6 | 68.9 | 61.1 | 59.5 |
| 57.5° | 3078.0 | 1484.4 | 53.4 | 54.2 | 68.1 | 74.2 | 67.2 | 61.1 | 52.6 | 46.1 | 44.8 |
| 60° | 2977.7 | 1305.5 | 44.0 | 40.8 | 52.6 | 57.9 | 53.4 | 47.3 | 39.5 | 34.6 | 34.2 |
| 62.5° | 2778.8 | 1114.7 | 36.3 | 31.8 | 39.9 | 44.4 | 41.6 | 37.1 | 30.6 | 27.3 | 26.9 |
| 65° | 2360.7 | 891.8 | 29.3 | 25.7 | 31.0 | 34.6 | 32.2 | 28.9 | 24.0 | 21.6 | 21.2 |
| 67.5° | 1647.8 | 602.8 | 24.0 | 21.2 | 24.5 | 27.3 | 25.3 | 23.6 | 19.2 | 18.7 | 19.2 |
| 70° | 794.8 | 290.6 | 20.0 | 17.1 | 19.2 | 21.2 | 20.4 | 19.2 | 18.3 | 21.2 | 24.5 |
| 72.5° | 227.8 | 97.4 | 15.9 | 14.3 | 15.5 | 16.7 | 17.5 | 17.1 | 20.0 | 25.7 | 29.8 |
| 73° | 175.3 | 78.7 | 15.1 | 13.4 | 14.7 | 16.3 | 17.1 | 16.7 | 20.4 | 26.1 | 29.8 |
| 75° | 75.0 | 37.9 | 11.4 | 11.0 | 12.2 | 14.3 | 15.1 | 15.1 | 20.4 | 26.5 | 28.5 |
| 77.5° | 33.8 | 20.4 | 7.3 | 8.6 | 10.6 | 11.4 | 12.6 | 12.6 | 16.3 | 20.4 | 20.4 |
| 80° | 19.2 | 11.0 | 5.7 | 6.5 | 7.7 | 7.7 | 7.7 | 6.9 | 7.3 | 8.2 | 9.0 |
| 82.5° | 12.2 | 7.3 | 4.5 | 5.3 | 4.9 | 4.1 | 3.3 | 3.3 | 2.9 | 3.3 | 4.1 |
| 85° | 6.9 | 4.1 | 4.1 | 3.3 | 2.0 | 1.6 | 2.0 | 1.6 | 0.4 | 0.0 | 0.4 |
| 87.5° | 4.1 | 2.4 | 1.2 | 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 |

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

Scaled Data Report



Report Generated By 670245982

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



--- HS — SS

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

Scaled Data Report



u

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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)