

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: P386301

Luminaire Tested: **GWC-SA2A-722-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2A-722-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7004 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

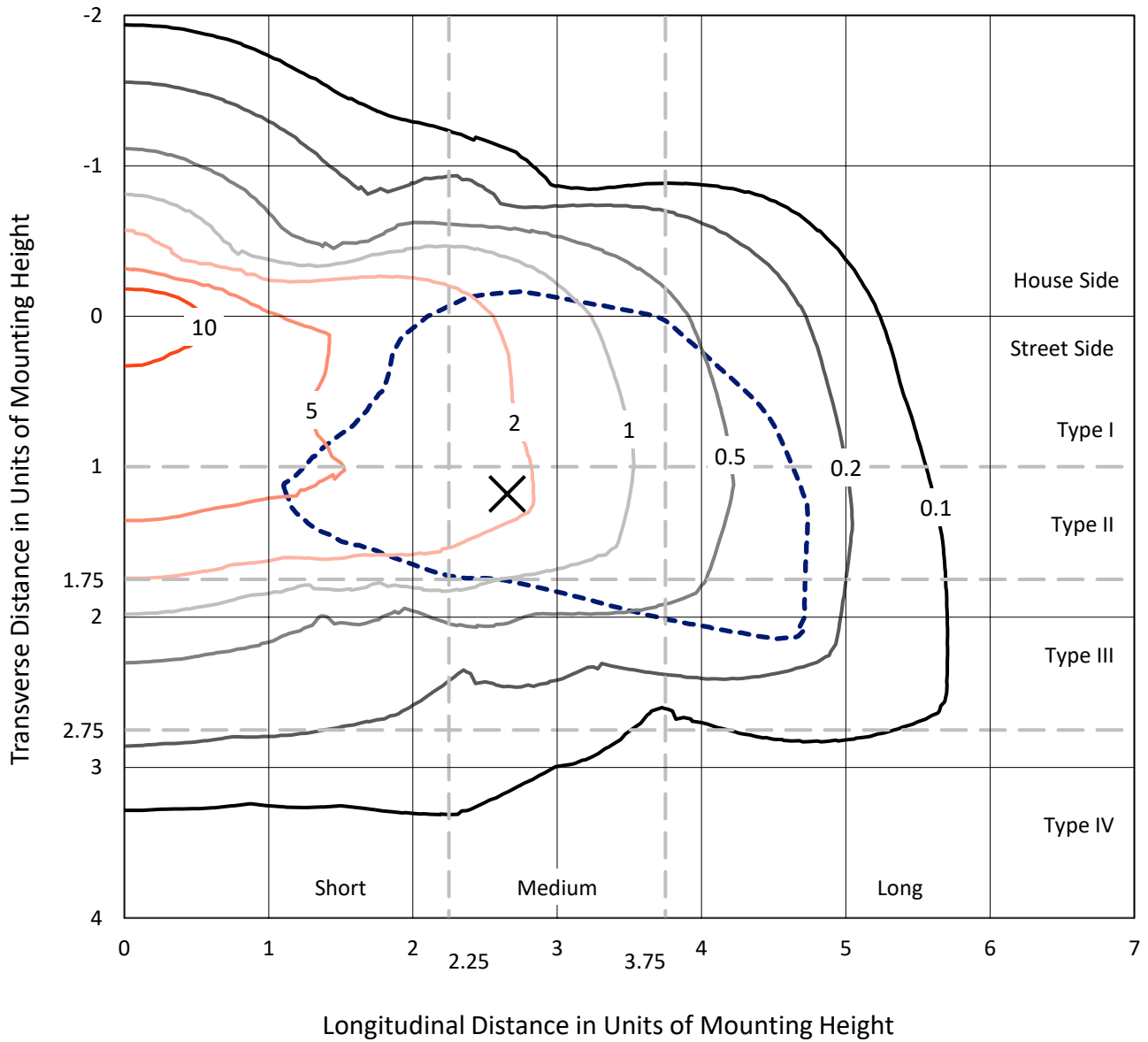
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

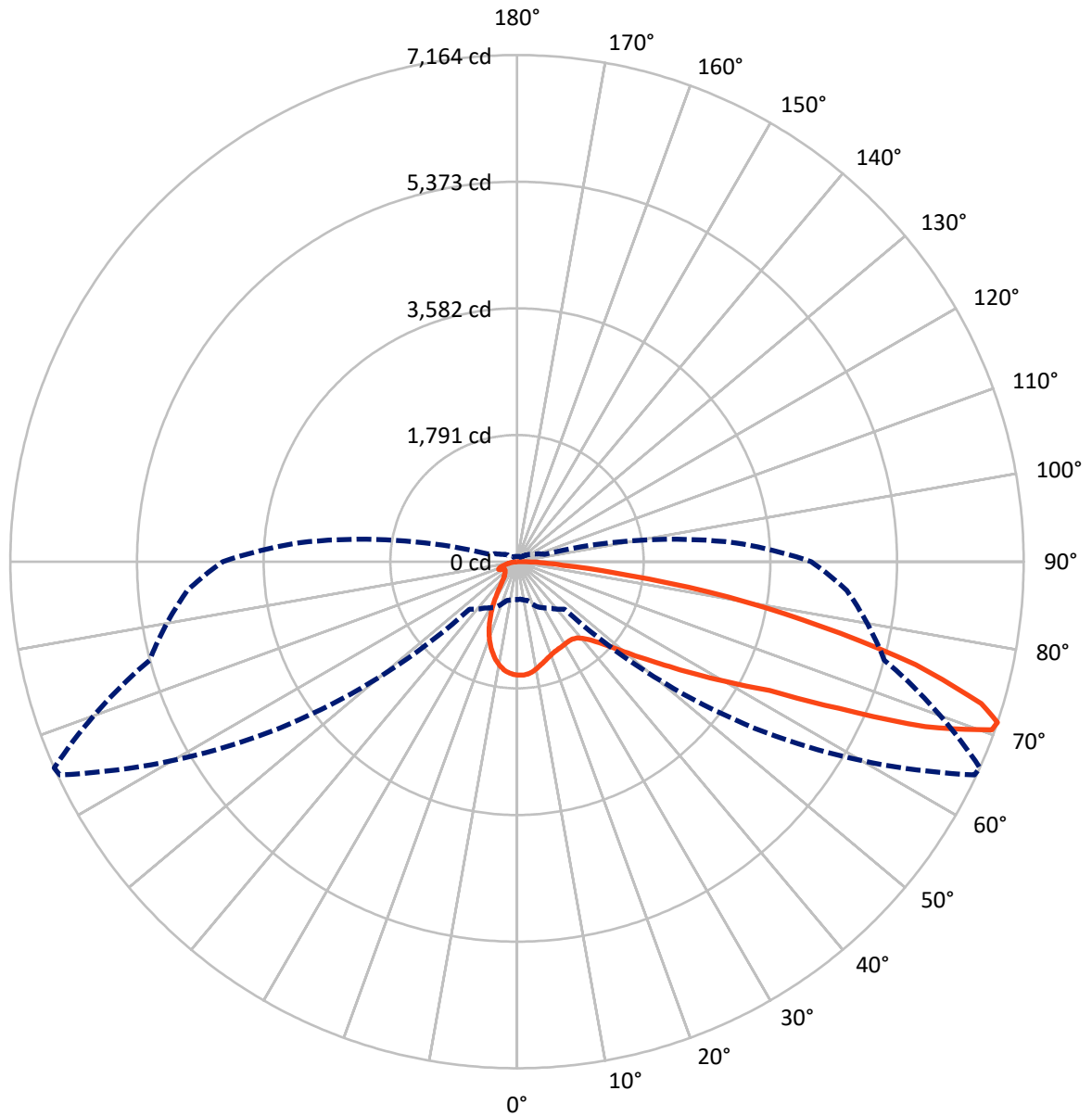
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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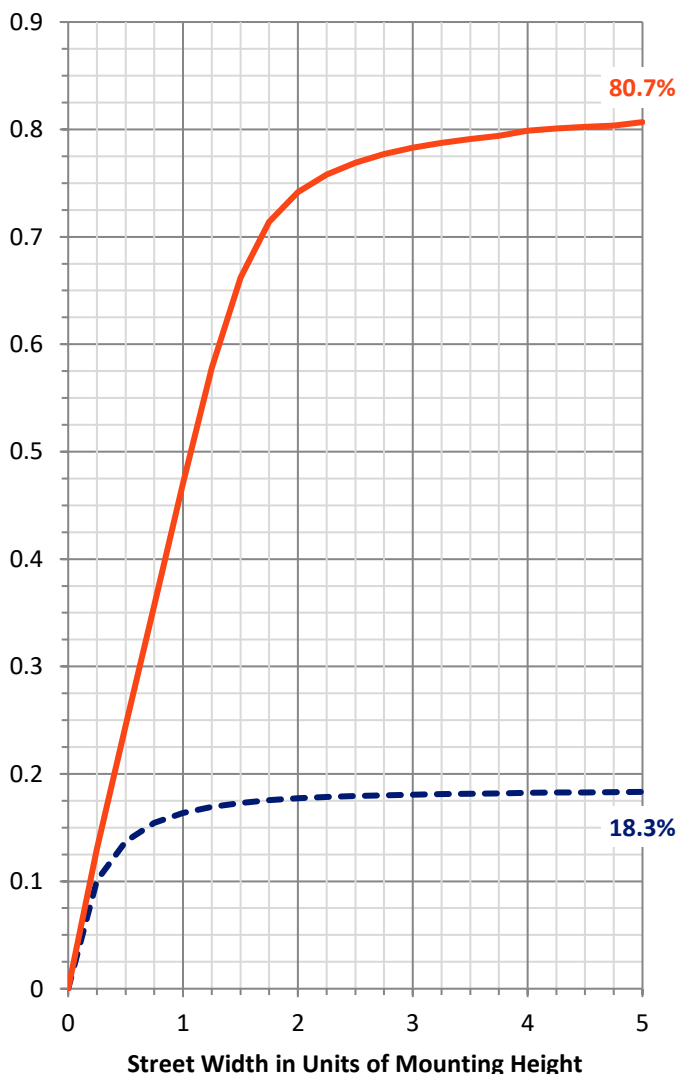
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1298.0 | 0.0 | 1298.0 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 5706.0 | 0.0 | 5706.0 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 7004.0 | 0.0 | 7004.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.2 | 2.0 |
| 10°-20° | 338.7 | 4.8 |
| 20°-30° | 455.0 | 6.5 |
| 30°-40° | 598.6 | 8.5 |
| 40°-50° | 870.7 | 12.4 |
| 50°-60° | 1360.2 | 19.4 |
| 60°-70° | 1703.9 | 24.3 |
| 70°-80° | 1299.7 | 18.6 |
| 80°-90° | 236.0 | 3.4 |
| 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° | 7004.0 | 100.0 |
| 0°-180° | 7004.0 | 100.0 |

Coefficient of Utilization



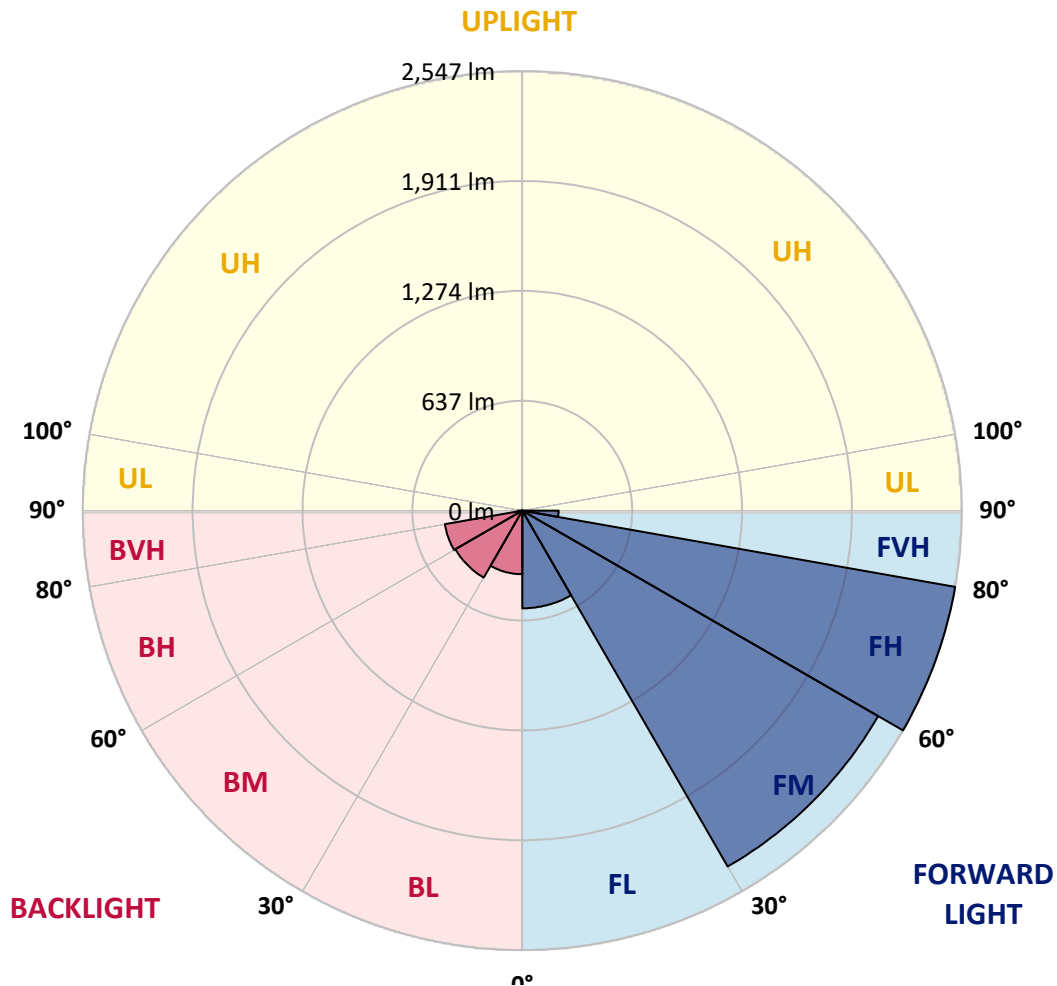
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 566.4 | 8.1 | | | |
| FM (30°-60°) | 2381.7 | 34.0 | | | |
| FH (60°-80°) | 2547.4 | 36.4 | | | G2/5000 |
| FVH (80°-90°) | 210.5 | 3.0 | | | G2/225 |
| BL (0°-30°) | 368.6 | 5.3 | B1/500 | | |
| BM (30°-60°) | 447.8 | 6.4 | B1/1000 | | |
| BH (60°-80°) | 456.1 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.5 | 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° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 |
| 2.5° | 1574.7 | 1572.3 | 1579.6 | 1587.1 | 1590.0 | 1594.8 | 1602.1 | 1606.2 | 1605.9 | 1606.7 | 1604.2 |
| 5° | 1470.3 | 1467.1 | 1481.6 | 1493.5 | 1516.2 | 1541.8 | 1573.0 | 1595.3 | 1595.8 | 1608.3 | 1611.7 |
| 7.5° | 1371.4 | 1369.2 | 1385.9 | 1405.0 | 1431.3 | 1470.5 | 1521.1 | 1568.9 | 1571.8 | 1605.9 | 1617.8 |
| 10° | 1292.0 | 1291.6 | 1307.8 | 1328.6 | 1359.3 | 1403.0 | 1461.1 | 1531.2 | 1535.6 | 1594.3 | 1618.7 |
| 12.5° | 1230.1 | 1231.1 | 1245.1 | 1268.8 | 1301.2 | 1346.9 | 1409.8 | 1488.9 | 1495.9 | 1575.9 | 1613.2 |
| 15° | 1184.4 | 1188.3 | 1199.7 | 1223.6 | 1255.5 | 1302.0 | 1366.5 | 1449.7 | 1460.4 | 1555.4 | 1610.0 |
| 17.5° | 1158.3 | 1162.7 | 1170.7 | 1190.5 | 1220.5 | 1265.2 | 1326.4 | 1417.6 | 1427.2 | 1539.7 | 1610.3 |
| 20° | 1150.6 | 1154.2 | 1158.8 | 1170.9 | 1196.3 | 1236.9 | 1294.7 | 1388.5 | 1398.9 | 1527.1 | 1612.7 |
| 22.5° | 1165.8 | 1168.5 | 1169.0 | 1168.0 | 1183.5 | 1216.6 | 1271.7 | 1367.3 | 1378.4 | 1518.9 | 1614.4 |
| 25° | 1198.5 | 1202.1 | 1199.4 | 1190.5 | 1185.4 | 1205.7 | 1259.9 | 1353.2 | 1364.4 | 1512.8 | 1611.0 |
| 27.5° | 1247.6 | 1248.0 | 1245.9 | 1234.3 | 1210.3 | 1206.9 | 1256.3 | 1345.0 | 1355.6 | 1505.8 | 1604.0 |
| 30° | 1314.3 | 1317.4 | 1313.6 | 1297.9 | 1258.7 | 1226.3 | 1260.6 | 1337.0 | 1346.7 | 1496.9 | 1592.6 |
| 32.5° | 1392.4 | 1400.1 | 1399.9 | 1383.5 | 1327.4 | 1269.6 | 1278.5 | 1332.2 | 1339.7 | 1487.4 | 1578.8 |
| 35° | 1473.4 | 1484.1 | 1503.9 | 1496.9 | 1427.5 | 1338.0 | 1312.8 | 1339.9 | 1345.0 | 1486.2 | 1569.2 |
| 37.5° | 1557.6 | 1568.2 | 1609.1 | 1627.9 | 1546.7 | 1435.9 | 1367.0 | 1367.3 | 1369.7 | 1501.0 | 1568.4 |
| 40° | 1645.6 | 1657.0 | 1718.4 | 1767.5 | 1701.2 | 1560.0 | 1454.3 | 1424.3 | 1421.7 | 1537.3 | 1582.7 |
| 42.5° | 1768.9 | 1779.1 | 1852.8 | 1915.5 | 1872.7 | 1718.9 | 1575.0 | 1512.3 | 1506.8 | 1608.3 | 1628.4 |
| 45° | 1924.9 | 1933.6 | 2011.9 | 2078.9 | 2056.9 | 1900.2 | 1726.6 | 1633.5 | 1632.5 | 1726.8 | 1721.0 |
| 47.5° | 2110.4 | 2117.1 | 2187.5 | 2252.3 | 2260.3 | 2108.9 | 1917.2 | 1820.4 | 1804.7 | 1889.3 | 1864.4 |
| 50° | 2303.6 | 2311.1 | 2359.0 | 2428.6 | 2487.9 | 2388.2 | 2162.4 | 2049.4 | 2028.4 | 2103.8 | 2067.6 |
| 52.5° | 2431.5 | 2441.4 | 2483.0 | 2571.3 | 2743.7 | 2694.4 | 2452.3 | 2327.0 | 2295.1 | 2363.8 | 2336.0 |
| 55° | 2374.4 | 2396.7 | 2460.3 | 2601.7 | 2948.3 | 3162.0 | 2810.0 | 2650.8 | 2614.8 | 2671.9 | 2655.4 |
| 57.5° | 2115.0 | 2145.4 | 2232.2 | 2450.6 | 2977.1 | 3574.1 | 3350.7 | 3032.2 | 3006.8 | 2990.4 | 2997.9 |
| 60° | 1640.8 | 1670.0 | 1777.6 | 2062.2 | 2776.6 | 3874.9 | 4164.4 | 3502.3 | 3465.5 | 3310.0 | 3316.8 |
| 62.5° | 1161.2 | 1146.5 | 1220.2 | 1428.4 | 2256.2 | 3910.2 | 5090.3 | 4131.0 | 4010.1 | 3647.6 | 3617.9 |
| 65° | 885.5 | 882.2 | 915.3 | 981.6 | 1366.5 | 3487.8 | 5641.9 | 5187.8 | 4998.9 | 4044.7 | 3974.6 |
| 67.5° | 727.6 | 721.6 | 754.2 | 850.7 | 880.0 | 2250.1 | 5654.0 | 6413.8 | 6228.3 | 4539.0 | 4387.1 |
| 70° | 598.3 | 591.5 | 622.0 | 746.5 | 813.2 | 1141.2 | 4758.5 | 7131.8 | 7121.9 | 5164.8 | 4698.6 |
| 71° | 536.4 | 531.5 | 568.0 | 706.4 | 799.0 | 951.1 | 4108.5 | 7133.7 | 7163.5 | 5376.6 | 4680.2 |
| 72.5° | 436.7 | 438.4 | 477.1 | 628.7 | 788.3 | 839.8 | 3019.6 | 6801.2 | 6864.1 | 5578.6 | 4513.1 |
| 75° | 290.2 | 291.6 | 342.4 | 483.6 | 764.4 | 821.7 | 1659.6 | 5707.0 | 5822.6 | 5457.7 | 4118.2 |
| 77.5° | 194.9 | 194.4 | 229.0 | 331.8 | 666.0 | 821.7 | 973.1 | 4268.4 | 4395.3 | 4342.6 | 3174.9 |
| 80° | 134.2 | 133.2 | 157.7 | 229.0 | 504.2 | 831.6 | 752.3 | 2991.3 | 3029.8 | 2345.2 | 1290.4 |
| 82.5° | 82.2 | 82.9 | 103.0 | 161.8 | 343.1 | 748.4 | 710.2 | 1631.1 | 1589.2 | 657.8 | 322.3 |
| 85° | 47.2 | 46.9 | 65.8 | 109.5 | 220.3 | 631.6 | 692.6 | 702.0 | 644.0 | 198.1 | 116.6 |
| 87.5° | 16.9 | 18.1 | 35.3 | 60.7 | 126.2 | 439.9 | 587.6 | 365.1 | 329.1 | 89.5 | 52.7 |
| 90° | 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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 CATALOG NUMBER: GWC-SA2A-722-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 | 1604.5 |
| 2.5° | 1602.5 | 1604.0 | 1602.3 | 1592.6 | 1584.4 | 1571.1 | 1563.6 | 1553.2 | 1550.1 | 1548.6 | 1552.5 |
| 5° | 1608.6 | 1609.1 | 1594.8 | 1569.4 | 1540.9 | 1507.3 | 1483.1 | 1453.3 | 1439.3 | 1433.3 | 1437.1 |
| 7.5° | 1614.2 | 1612.0 | 1580.8 | 1532.2 | 1479.5 | 1420.9 | 1368.9 | 1321.3 | 1293.5 | 1282.1 | 1283.1 |
| 10° | 1614.9 | 1605.7 | 1555.6 | 1480.4 | 1398.7 | 1312.8 | 1233.0 | 1159.5 | 1113.1 | 1082.9 | 1092.1 |
| 12.5° | 1607.4 | 1591.9 | 1518.6 | 1413.4 | 1300.0 | 1183.0 | 1075.1 | 964.9 | 898.6 | 867.9 | 868.9 |
| 15° | 1601.6 | 1573.5 | 1473.2 | 1334.6 | 1182.3 | 1027.3 | 880.0 | 750.4 | 679.8 | 648.3 | 633.6 |
| 17.5° | 1596.7 | 1553.7 | 1420.5 | 1245.9 | 1043.2 | 846.6 | 669.6 | 554.0 | 515.3 | 506.1 | 502.3 |
| 20° | 1590.0 | 1532.7 | 1361.7 | 1143.1 | 884.8 | 644.5 | 489.0 | 431.9 | 432.1 | 442.8 | 444.2 |
| 22.5° | 1580.5 | 1508.7 | 1299.1 | 1027.7 | 714.8 | 469.4 | 383.3 | 366.8 | 383.5 | 403.8 | 407.5 |
| 25° | 1566.5 | 1480.4 | 1229.4 | 900.3 | 545.1 | 360.8 | 327.4 | 326.7 | 347.0 | 368.3 | 371.4 |
| 27.5° | 1546.7 | 1443.4 | 1152.0 | 763.4 | 401.7 | 306.6 | 293.3 | 298.4 | 313.4 | 328.9 | 330.1 |
| 30° | 1520.1 | 1400.4 | 1066.7 | 619.1 | 314.9 | 273.0 | 271.6 | 276.2 | 285.3 | 296.2 | 297.2 |
| 32.5° | 1490.8 | 1356.6 | 975.5 | 479.3 | 269.6 | 254.9 | 256.3 | 258.5 | 262.9 | 267.2 | 268.2 |
| 35° | 1464.2 | 1311.9 | 882.2 | 364.2 | 248.1 | 243.0 | 242.1 | 241.6 | 242.1 | 240.6 | 240.9 |
| 37.5° | 1447.1 | 1274.9 | 785.0 | 289.9 | 235.8 | 232.6 | 229.7 | 226.1 | 222.0 | 219.6 | 220.1 |
| 40° | 1440.8 | 1247.3 | 686.5 | 250.5 | 225.6 | 223.4 | 217.9 | 210.1 | 205.3 | 203.9 | 203.9 |
| 42.5° | 1457.7 | 1233.0 | 591.5 | 230.7 | 217.2 | 213.5 | 204.3 | 195.4 | 191.8 | 191.5 | 191.3 |
| 45° | 1509.4 | 1238.8 | 501.1 | 219.8 | 209.4 | 202.4 | 190.3 | 182.8 | 180.4 | 180.9 | 180.6 |
| 47.5° | 1602.3 | 1275.4 | 423.7 | 212.6 | 201.7 | 192.5 | 178.9 | 172.9 | 170.0 | 170.0 | 170.2 |
| 50° | 1760.2 | 1360.7 | 362.0 | 206.5 | 195.1 | 183.3 | 170.7 | 163.2 | 159.4 | 159.1 | 159.1 |
| 52.5° | 1990.2 | 1513.6 | 323.6 | 201.4 | 187.9 | 175.1 | 162.5 | 153.1 | 148.5 | 147.5 | 147.0 |
| 55° | 2278.4 | 1732.6 | 312.9 | 198.1 | 178.2 | 166.1 | 152.6 | 143.2 | 138.1 | 135.9 | 135.7 |
| 57.5° | 2600.8 | 1999.1 | 334.0 | 193.9 | 168.3 | 155.5 | 141.7 | 132.8 | 127.4 | 124.8 | 124.5 |
| 60° | 2927.0 | 2290.0 | 419.8 | 188.1 | 160.1 | 143.9 | 130.6 | 122.4 | 117.0 | 114.1 | 113.7 |
| 62.5° | 3253.7 | 2596.7 | 595.1 | 187.7 | 154.3 | 132.8 | 119.2 | 112.2 | 107.1 | 104.0 | 103.3 |
| 65° | 3622.2 | 2932.3 | 794.4 | 200.5 | 152.3 | 122.6 | 107.6 | 102.0 | 97.7 | 94.8 | 94.6 |
| 67.5° | 4045.4 | 3311.3 | 775.3 | 226.8 | 158.9 | 113.4 | 96.7 | 92.4 | 89.2 | 86.8 | 86.6 |
| 70° | 4244.0 | 3252.0 | 481.9 | 245.4 | 168.1 | 104.5 | 86.3 | 83.2 | 80.8 | 79.1 | 78.3 |
| 71° | 4160.8 | 3087.8 | 404.1 | 243.3 | 167.1 | 100.6 | 82.2 | 79.8 | 77.4 | 75.9 | 75.2 |
| 72.5° | 3933.9 | 2816.0 | 337.1 | 226.3 | 156.2 | 93.6 | 76.9 | 74.5 | 72.3 | 70.6 | 70.1 |
| 75° | 3530.1 | 2514.9 | 269.9 | 180.9 | 124.5 | 79.1 | 67.5 | 64.8 | 63.1 | 62.1 | 61.2 |
| 77.5° | 2595.0 | 1794.8 | 208.7 | 142.9 | 91.7 | 64.6 | 57.6 | 55.6 | 53.9 | 52.5 | 51.7 |
| 80° | 994.1 | 695.2 | 140.5 | 106.6 | 67.2 | 51.0 | 46.4 | 45.5 | 43.8 | 42.8 | 42.8 |
| 82.5° | 267.7 | 207.7 | 75.0 | 64.6 | 45.0 | 37.2 | 35.5 | 35.1 | 33.6 | 31.7 | 31.9 |
| 85° | 108.3 | 91.7 | 42.1 | 35.5 | 27.6 | 22.0 | 23.9 | 24.2 | 22.5 | 20.1 | 20.3 |
| 87.5° | 47.6 | 38.9 | 23.5 | 15.7 | 12.1 | 8.5 | 10.9 | 10.9 | 9.9 | 8.2 | 7.5 |
| 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

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