

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: P387021

Luminaire Tested: **GWC-SA2D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-727-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13447 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

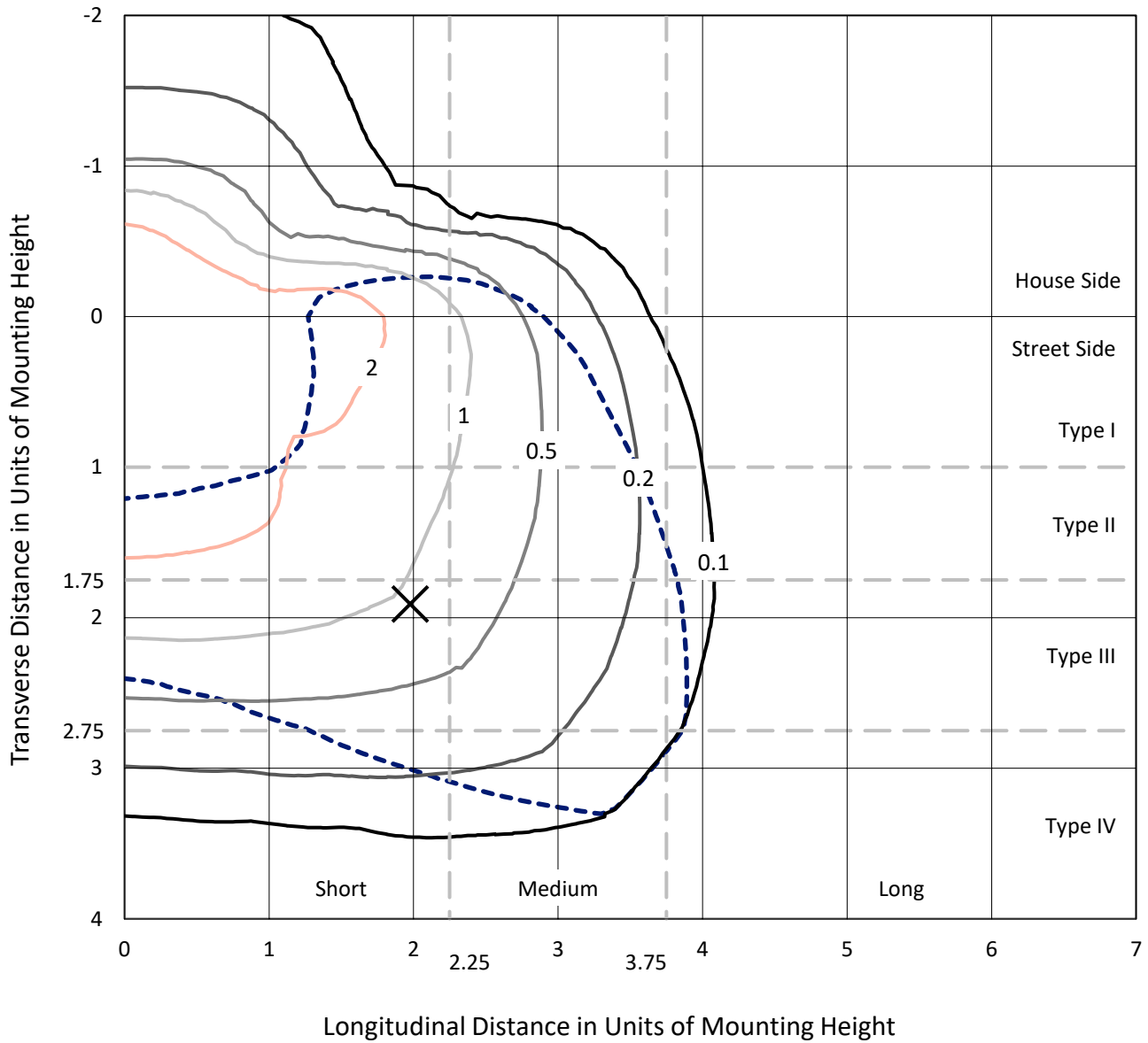
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P387021
 CATALOG NUMBER: GWC-SA2D-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

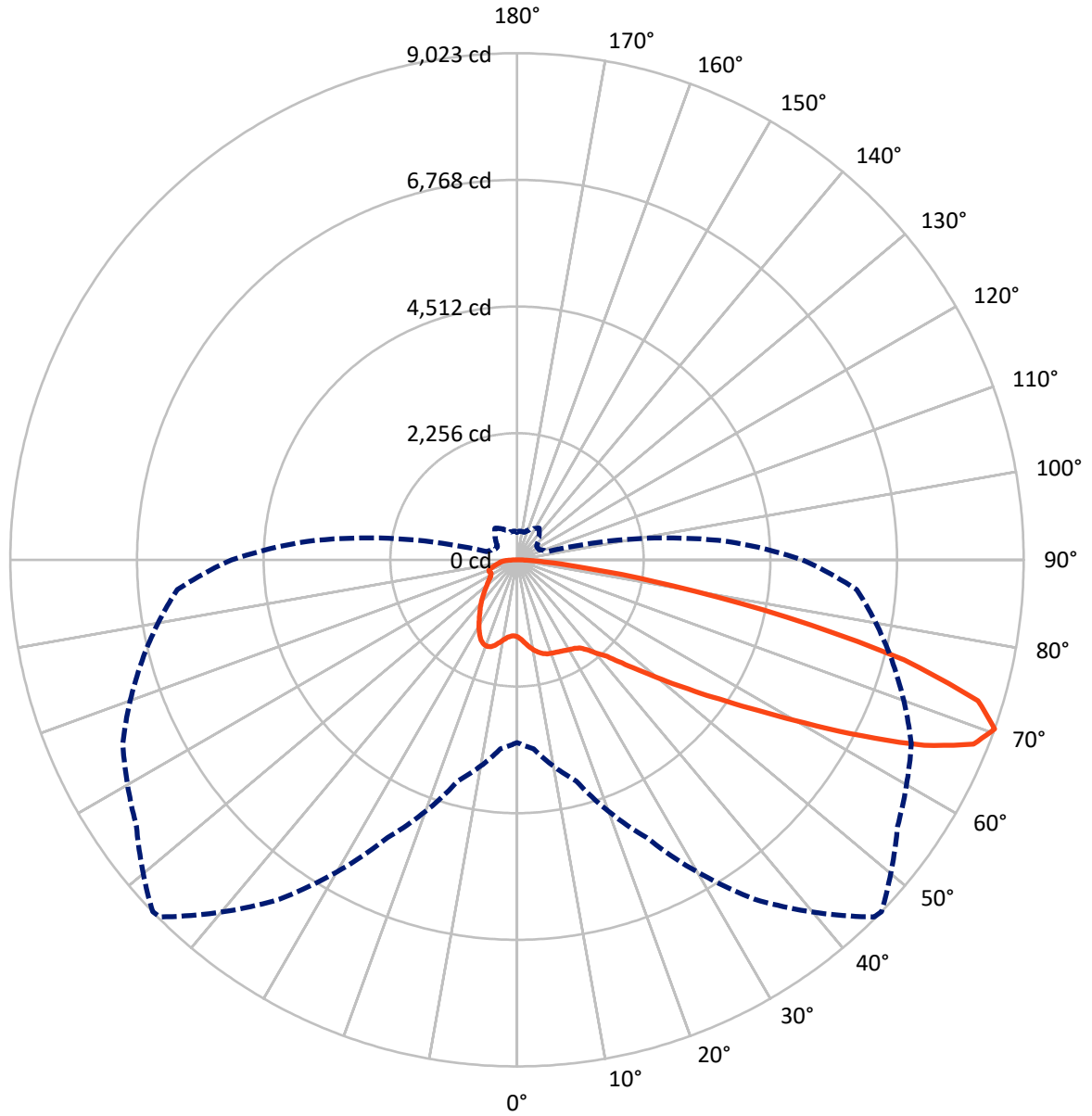
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P387021
CATALOG NUMBER: GWC-SA2D-727-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P387021

CATALOG NUMBER: GWC-SA2D-727-U-T4W

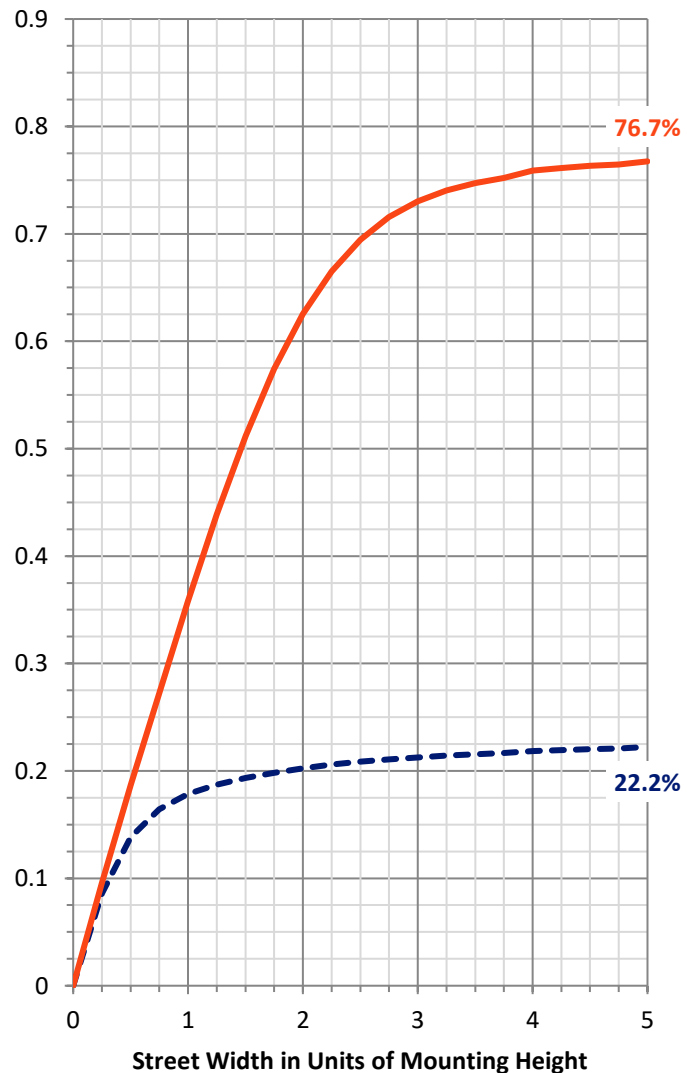
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3082.0 | 0.0 | 3082.0 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 10365.0 | 0.0 | 10365.0 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 13447.0 | 0.0 | 13447.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 139.7 | 1.0 |
| 10°-20° | 465.3 | 3.5 |
| 20°-30° | 775.8 | 5.8 |
| 30°-40° | 1101.0 | 8.2 |
| 40°-50° | 1619.5 | 12.0 |
| 50°-60° | 2742.6 | 20.4 |
| 60°-70° | 3893.0 | 29.0 |
| 70°-80° | 2365.0 | 17.6 |
| 80°-90° | 345.2 | 2.6 |
| 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° | 13447.0 | 100.0 |
| 0°-180° | 13447.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P387021

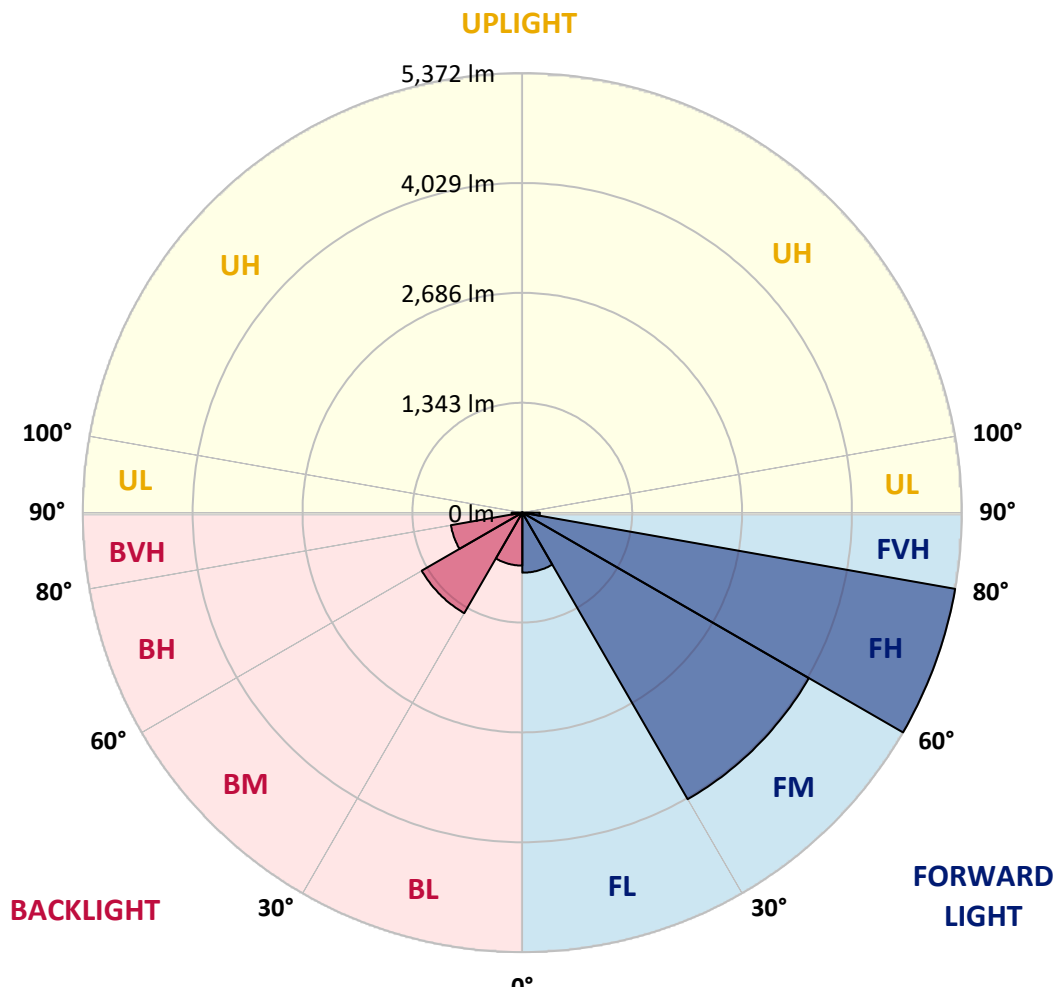
CATALOG NUMBER: GWC-SA2D-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 733.7 | 5.5 | | | |
| FM (30°-60°) | 4044.3 | 30.1 | | | |
| FH (60°-80°) | 5372.0 | 39.9 | | | G3/7500 |
| FVH (80°-90°) | 215.0 | 1.6 | | | G2/225 |
| BL (0°-30°) | 647.1 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1418.7 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 886.0 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 130.2 | 1.0 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P387021

CATALOG NUMBER: GWC-SA2D-727-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 |
| 2.5° | 1438.6 | 1439.5 | 1441.3 | 1436.7 | 1423.8 | 1420.1 | 1418.8 | 1405.4 | 1396.7 | 1383.8 | 1372.7 |
| 5° | 1553.6 | 1554.5 | 1551.8 | 1538.9 | 1510.3 | 1489.2 | 1487.3 | 1457.0 | 1429.4 | 1399.9 | 1377.8 |
| 7.5° | 1673.7 | 1675.1 | 1666.3 | 1642.0 | 1601.9 | 1565.1 | 1562.8 | 1521.4 | 1479.5 | 1434.9 | 1401.7 |
| 10° | 1780.0 | 1774.5 | 1760.2 | 1726.2 | 1678.8 | 1633.7 | 1631.8 | 1588.6 | 1540.3 | 1486.4 | 1442.2 |
| 12.5° | 1850.9 | 1846.3 | 1827.9 | 1786.5 | 1734.5 | 1693.0 | 1689.4 | 1649.3 | 1602.4 | 1543.5 | 1490.6 |
| 15° | 1890.0 | 1893.2 | 1868.4 | 1821.4 | 1770.8 | 1735.8 | 1732.6 | 1704.1 | 1662.2 | 1602.8 | 1542.1 |
| 17.5° | 1895.1 | 1897.8 | 1873.9 | 1827.4 | 1786.0 | 1762.1 | 1760.7 | 1741.8 | 1711.4 | 1654.4 | 1590.9 |
| 20° | 1865.6 | 1867.5 | 1847.7 | 1809.5 | 1782.3 | 1775.0 | 1774.5 | 1766.2 | 1743.7 | 1693.0 | 1631.4 |
| 22.5° | 1822.8 | 1824.2 | 1809.9 | 1782.3 | 1773.1 | 1784.6 | 1787.8 | 1784.6 | 1768.5 | 1721.1 | 1663.1 |
| 25° | 1812.2 | 1811.3 | 1796.6 | 1768.5 | 1776.3 | 1800.7 | 1804.9 | 1806.2 | 1795.2 | 1753.8 | 1703.6 |
| 27.5° | 1863.3 | 1860.1 | 1832.0 | 1786.9 | 1792.0 | 1821.4 | 1827.0 | 1840.3 | 1833.4 | 1797.0 | 1749.6 |
| 30° | 2011.0 | 2005.5 | 1948.0 | 1856.9 | 1832.0 | 1847.2 | 1854.1 | 1875.3 | 1876.7 | 1846.3 | 1810.8 |
| 32.5° | 2260.5 | 2253.6 | 2150.5 | 1987.6 | 1899.7 | 1873.4 | 1879.9 | 1911.6 | 1928.7 | 1905.2 | 1867.0 |
| 35° | 2575.7 | 2567.9 | 2432.6 | 2209.8 | 2012.9 | 1923.6 | 1928.2 | 1953.5 | 1987.6 | 1954.4 | 1903.8 |
| 37.5° | 2904.3 | 2885.4 | 2755.2 | 2471.2 | 2192.8 | 2030.8 | 2030.8 | 2034.0 | 2050.1 | 1981.1 | 1947.1 |
| 40° | 3231.0 | 3212.1 | 3094.3 | 2778.6 | 2425.7 | 2199.7 | 2189.1 | 2117.8 | 2104.9 | 2045.5 | 2034.0 |
| 42.5° | 3534.7 | 3529.2 | 3459.7 | 3126.1 | 2699.0 | 2365.8 | 2351.1 | 2230.1 | 2232.8 | 2196.0 | 2196.5 |
| 45° | 3857.8 | 3857.8 | 3801.2 | 3476.7 | 3017.5 | 2632.7 | 2618.0 | 2439.9 | 2467.5 | 2450.5 | 2491.5 |
| 47.5° | 4121.5 | 4129.7 | 4121.9 | 3842.1 | 3387.9 | 2971.9 | 2945.2 | 2730.8 | 2808.1 | 2866.5 | 2985.7 |
| 50° | 4390.7 | 4403.6 | 4404.9 | 4243.0 | 3835.7 | 3375.0 | 3344.7 | 3116.9 | 3289.4 | 3456.9 | 3691.2 |
| 52.5° | 4781.4 | 4810.4 | 4694.9 | 4642.9 | 4384.2 | 3853.6 | 3823.7 | 3613.4 | 3901.5 | 4136.6 | 4540.2 |
| 55° | 5143.5 | 5118.2 | 5035.9 | 5068.1 | 4971.4 | 4398.5 | 4375.9 | 4191.4 | 4583.5 | 4889.1 | 5413.2 |
| 57.5° | 5339.6 | 5337.7 | 5420.6 | 5558.6 | 5604.7 | 5070.4 | 5051.5 | 4872.0 | 5352.5 | 5582.1 | 6232.8 |
| 60° | 5569.7 | 5572.9 | 5778.1 | 6091.5 | 6281.1 | 5907.0 | 5898.7 | 5762.5 | 6099.4 | 6229.1 | 6875.7 |
| 62.5° | 5601.9 | 5659.9 | 6013.3 | 6552.6 | 6914.4 | 6884.4 | 6902.9 | 6564.6 | 6767.6 | 6745.5 | 7355.7 |
| 65° | 5231.4 | 5307.8 | 5947.5 | 6692.1 | 7543.9 | 7953.5 | 7970.5 | 7371.3 | 7294.5 | 7186.8 | 7527.3 |
| 67.5° | 4472.1 | 4585.3 | 5280.2 | 6388.8 | 7751.4 | 8743.6 | 8767.5 | 7996.7 | 7731.7 | 7336.4 | 7114.1 |
| 70° | 3254.5 | 3380.1 | 4079.6 | 5456.5 | 7381.5 | 8996.3 | 9023.4 | 8273.3 | 7748.2 | 6910.7 | 6073.1 |
| 72.5° | 1965.9 | 2064.4 | 2641.0 | 4017.0 | 6230.1 | 8536.1 | 8584.4 | 7922.6 | 7074.0 | 5853.6 | 4484.6 |
| 75° | 863.3 | 927.7 | 1277.0 | 2314.8 | 4460.2 | 7062.5 | 7122.8 | 6781.4 | 5747.8 | 4254.0 | 2650.7 |
| 77.5° | 367.7 | 386.1 | 523.7 | 1005.5 | 2521.4 | 4826.0 | 4908.8 | 4954.9 | 3899.7 | 2314.8 | 1120.1 |
| 80° | 229.2 | 236.5 | 296.4 | 455.1 | 1179.9 | 2710.5 | 2799.8 | 2915.3 | 1936.5 | 850.9 | 391.2 |
| 82.5° | 139.4 | 147.7 | 197.0 | 275.2 | 614.4 | 1228.7 | 1271.5 | 1353.0 | 751.5 | 367.7 | 202.5 |
| 85° | 83.8 | 89.7 | 120.6 | 174.0 | 349.7 | 483.2 | 482.7 | 533.8 | 353.9 | 236.5 | 106.8 |
| 87.5° | 40.0 | 44.6 | 64.4 | 90.2 | 176.3 | 181.3 | 169.8 | 192.4 | 214.9 | 155.1 | 53.8 |
| 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: P387021
 CATALOG NUMBER: GWC-SA2D-727-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 | 1370.0 |
| 2.5° | 1369.1 | 1367.2 | 1361.2 | 1356.6 | 1355.7 | 1353.0 | 1350.7 | 1352.0 | 1353.9 | 1354.3 | 1354.3 |
| 5° | 1368.6 | 1363.5 | 1355.7 | 1352.5 | 1356.6 | 1362.2 | 1369.1 | 1378.3 | 1383.8 | 1387.9 | 1390.7 |
| 7.5° | 1390.7 | 1381.0 | 1372.3 | 1370.4 | 1378.7 | 1393.5 | 1409.1 | 1428.4 | 1441.8 | 1451.0 | 1452.8 |
| 10° | 1427.5 | 1415.5 | 1406.8 | 1408.6 | 1423.4 | 1444.5 | 1466.6 | 1491.5 | 1511.7 | 1524.1 | 1525.1 |
| 12.5° | 1469.8 | 1458.3 | 1450.1 | 1457.9 | 1482.3 | 1508.0 | 1531.1 | 1552.7 | 1571.1 | 1583.5 | 1583.5 |
| 15° | 1518.6 | 1510.3 | 1500.7 | 1518.6 | 1551.8 | 1574.8 | 1584.4 | 1595.0 | 1605.1 | 1614.3 | 1612.5 |
| 17.5° | 1565.6 | 1557.7 | 1552.7 | 1573.9 | 1608.4 | 1618.9 | 1612.5 | 1604.7 | 1604.7 | 1609.7 | 1610.7 |
| 20° | 1606.1 | 1599.2 | 1602.4 | 1623.1 | 1641.0 | 1630.0 | 1606.1 | 1581.2 | 1571.1 | 1573.9 | 1576.6 |
| 22.5° | 1641.5 | 1638.3 | 1647.9 | 1657.6 | 1644.7 | 1606.1 | 1561.9 | 1528.3 | 1515.9 | 1514.9 | 1515.9 |
| 25° | 1682.9 | 1682.5 | 1694.4 | 1676.9 | 1619.9 | 1548.5 | 1489.2 | 1456.5 | 1449.6 | 1455.1 | 1464.3 |
| 27.5° | 1734.5 | 1739.5 | 1745.5 | 1681.5 | 1569.2 | 1461.6 | 1401.3 | 1378.7 | 1385.6 | 1399.0 | 1407.7 |
| 30° | 1800.3 | 1814.1 | 1801.2 | 1670.0 | 1496.5 | 1362.2 | 1304.6 | 1298.2 | 1317.1 | 1335.9 | 1345.1 |
| 32.5° | 1864.2 | 1885.9 | 1854.6 | 1640.1 | 1402.7 | 1256.8 | 1212.1 | 1210.3 | 1233.3 | 1251.7 | 1264.6 |
| 35° | 1915.8 | 1958.6 | 1894.6 | 1580.8 | 1294.1 | 1159.7 | 1127.0 | 1114.6 | 1122.9 | 1144.5 | 1159.2 |
| 37.5° | 1983.0 | 2054.3 | 1922.2 | 1490.1 | 1176.2 | 1079.6 | 1041.4 | 1012.9 | 1005.5 | 1014.3 | 1021.6 |
| 40° | 2105.8 | 2200.2 | 1935.1 | 1363.5 | 1061.2 | 999.5 | 960.9 | 919.0 | 890.0 | 868.8 | 869.3 |
| 42.5° | 2306.5 | 2390.2 | 1926.8 | 1209.8 | 954.9 | 921.3 | 877.6 | 829.3 | 782.3 | 734.5 | 730.8 |
| 45° | 2632.3 | 2672.8 | 1902.0 | 1046.9 | 861.5 | 839.4 | 798.4 | 750.1 | 687.5 | 633.2 | 628.2 |
| 47.5° | 3153.7 | 3063.9 | 1863.3 | 904.7 | 779.1 | 769.9 | 732.2 | 676.5 | 610.2 | 566.5 | 562.8 |
| 50° | 3864.7 | 3628.6 | 1844.4 | 791.5 | 706.4 | 709.2 | 678.3 | 619.4 | 556.8 | 524.6 | 520.9 |
| 52.5° | 4715.1 | 4286.2 | 1880.8 | 704.1 | 647.9 | 657.6 | 634.6 | 579.4 | 526.9 | 501.6 | 497.9 |
| 55° | 5597.3 | 4967.3 | 1919.9 | 640.6 | 592.7 | 611.6 | 603.8 | 558.2 | 510.8 | 487.3 | 484.1 |
| 57.5° | 6352.5 | 5475.8 | 1841.7 | 589.0 | 543.5 | 572.9 | 579.8 | 544.9 | 502.5 | 481.4 | 477.7 |
| 60° | 6827.8 | 5680.6 | 1636.4 | 540.7 | 504.4 | 542.1 | 566.0 | 541.2 | 505.7 | 503.9 | 501.1 |
| 62.5° | 7053.3 | 5662.6 | 1328.6 | 502.5 | 480.0 | 528.8 | 576.2 | 561.9 | 542.6 | 559.1 | 560.5 |
| 65° | 6952.1 | 5392.0 | 989.4 | 477.2 | 462.5 | 533.8 | 606.5 | 601.0 | 553.1 | 569.7 | 572.0 |
| 67.5° | 6285.7 | 4746.4 | 732.6 | 455.1 | 443.2 | 548.1 | 661.8 | 613.9 | 532.4 | 544.4 | 537.0 |
| 70° | 5080.5 | 3763.0 | 565.1 | 430.3 | 423.4 | 546.2 | 686.6 | 606.1 | 509.9 | 512.7 | 492.9 |
| 72.5° | 3503.4 | 2566.0 | 459.7 | 407.3 | 394.8 | 497.9 | 669.1 | 586.7 | 491.0 | 469.9 | 443.6 |
| 75° | 1905.2 | 1377.3 | 390.7 | 383.3 | 344.7 | 437.2 | 636.9 | 572.9 | 474.0 | 445.9 | 431.2 |
| 77.5° | 749.6 | 571.6 | 339.2 | 350.7 | 301.4 | 386.1 | 601.0 | 546.7 | 450.5 | 413.7 | 406.3 |
| 80° | 306.0 | 291.8 | 281.2 | 303.3 | 259.1 | 337.8 | 557.8 | 515.9 | 422.5 | 383.8 | 369.1 |
| 82.5° | 173.5 | 181.3 | 218.6 | 239.3 | 210.3 | 311.1 | 537.0 | 491.0 | 388.9 | 343.8 | 326.3 |
| 85° | 88.8 | 106.3 | 152.3 | 171.7 | 154.6 | 264.6 | 494.7 | 429.8 | 312.0 | 263.2 | 264.6 |
| 87.5° | 42.8 | 59.4 | 96.2 | 107.7 | 100.3 | 191.4 | 369.5 | 311.5 | 243.0 | 192.4 | 186.4 |
| 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)