

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: P386517

Luminaire Tested: **GWC-SA2A-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386517
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-SA2A-830-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7675 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

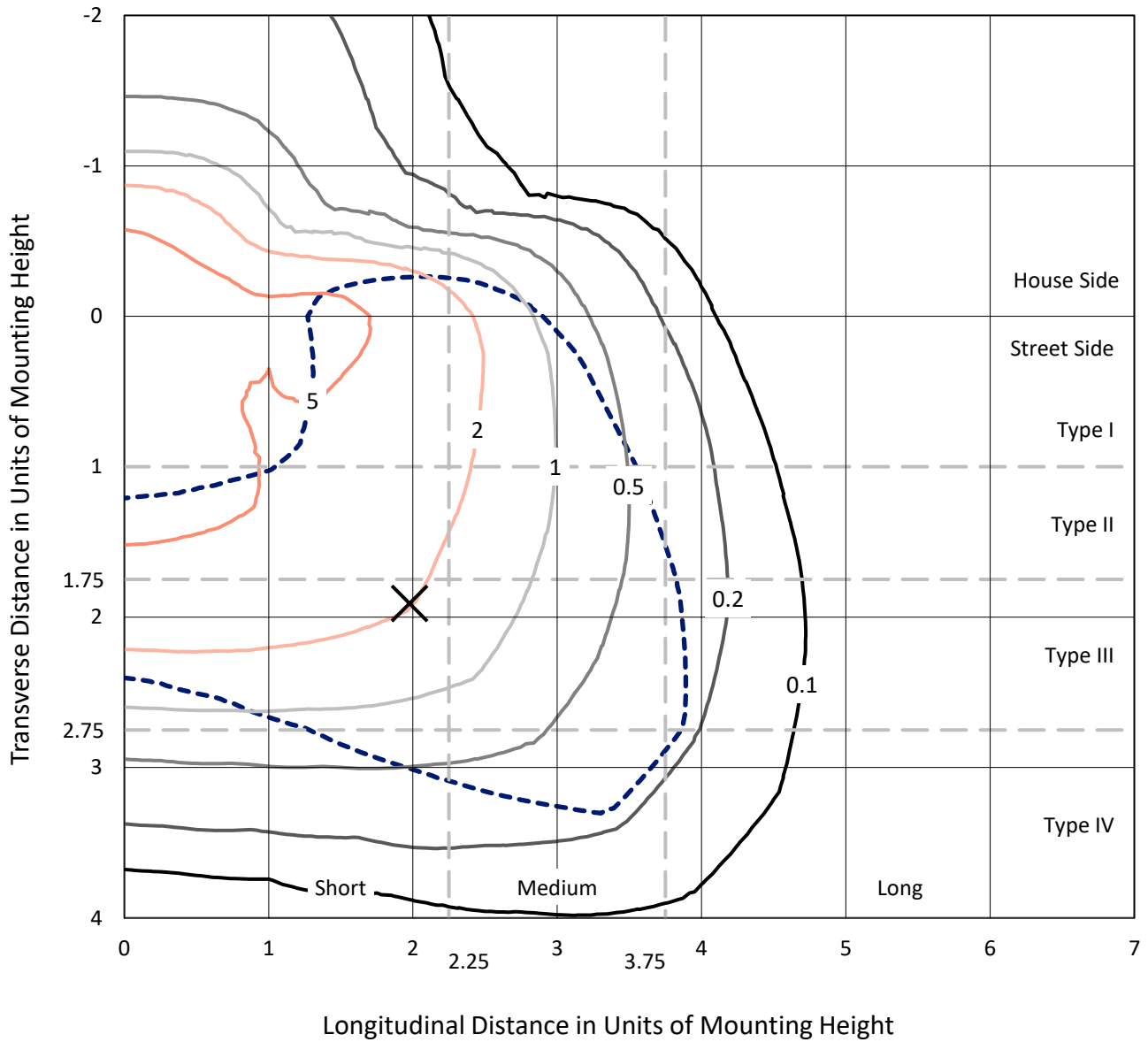
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P386517
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Iso-Footcandle Lines of Horizontal Illumination

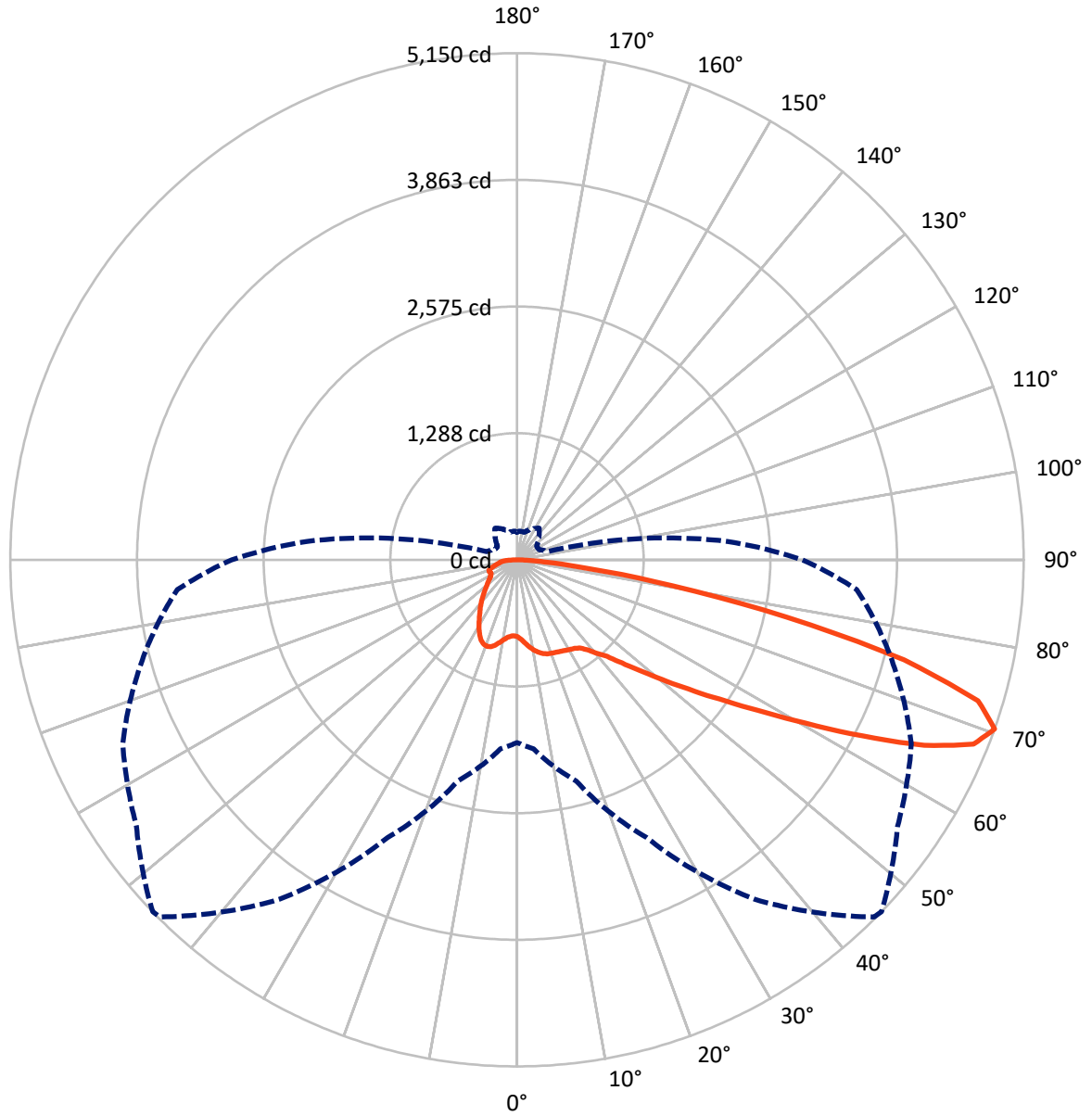
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P386517
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Luminous Intensity Polar Plot



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

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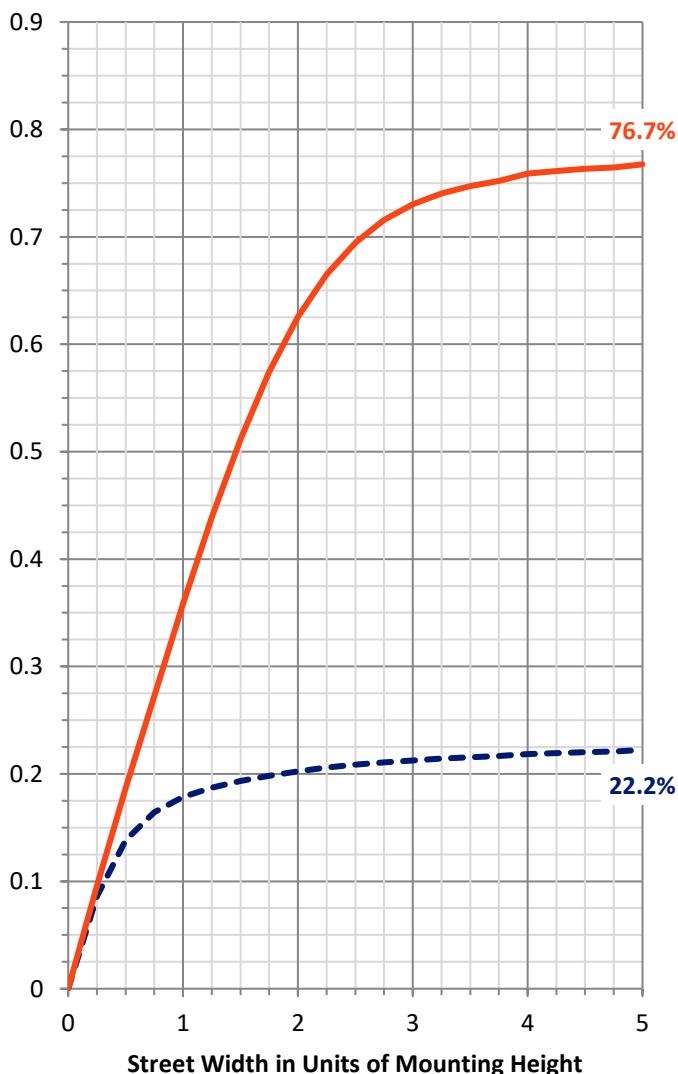
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1759.1 | 0.0 | 1759.1 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 5915.9 | 0.0 | 5915.9 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 7675.0 | 0.0 | 7675.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.7 | 1.0 |
| 10°-20° | 265.6 | 3.5 |
| 20°-30° | 442.8 | 5.8 |
| 30°-40° | 628.4 | 8.2 |
| 40°-50° | 924.3 | 12.0 |
| 50°-60° | 1565.3 | 20.4 |
| 60°-70° | 2222.0 | 29.0 |
| 70°-80° | 1349.9 | 17.6 |
| 80°-90° | 197.0 | 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° | 7675.0 | 100.0 |
| 0°-180° | 7675.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P386517

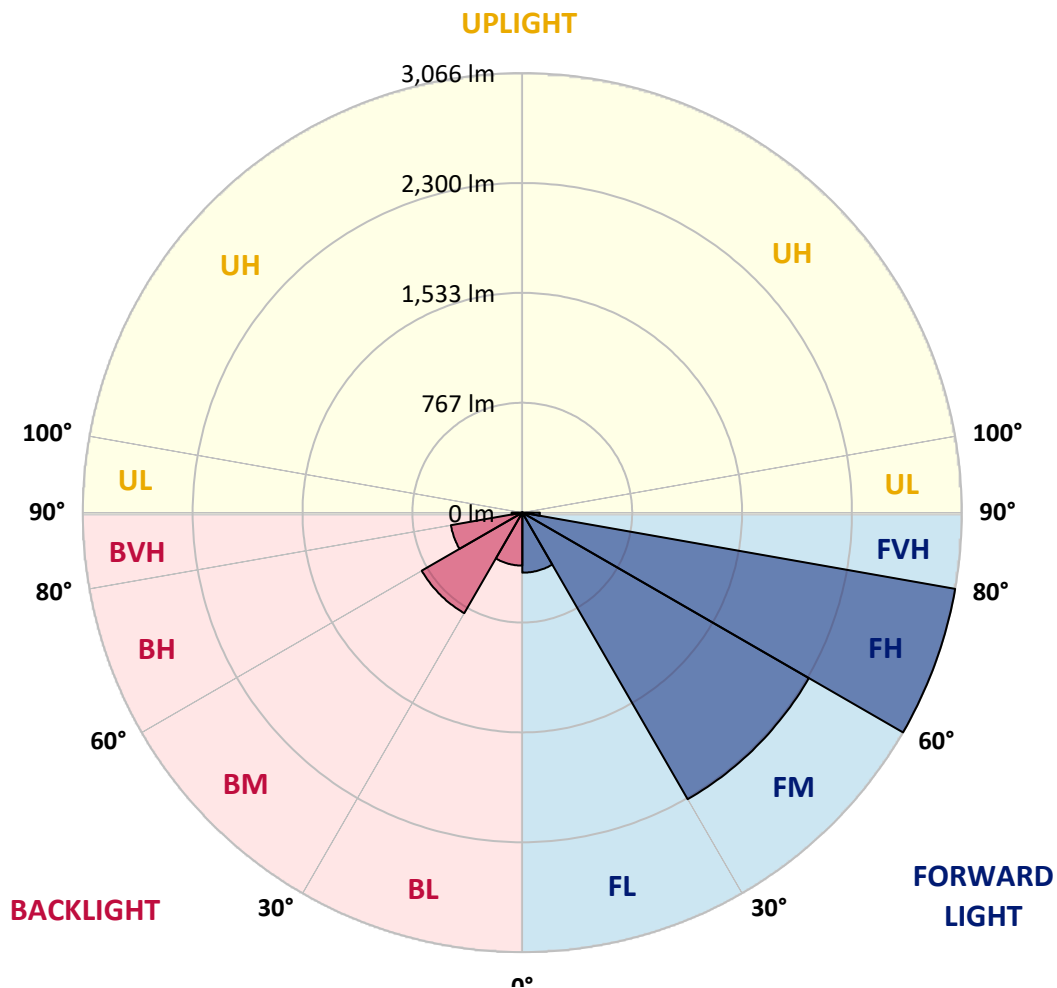
CATALOG NUMBER: GWC-SA2A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 418.8 | 5.5 | | | |
| FM (30°-60°) | 2308.3 | 30.1 | | | |
| FH (60°-80°) | 3066.1 | 39.9 | | | G2/5000 |
| FVH (80°-90°) | 122.7 | 1.6 | | | G2/225 |
| BL (0°-30°) | 369.3 | 4.8 | B1/500 | | |
| BM (30°-60°) | 809.8 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 505.7 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 74.3 | 1.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 |
| 2.5° | 821.1 | 821.6 | 822.6 | 820.0 | 812.7 | 810.6 | 809.8 | 802.2 | 797.2 | 789.8 | 783.5 |
| 5° | 886.7 | 887.3 | 885.7 | 878.3 | 862.0 | 850.0 | 848.9 | 831.6 | 815.8 | 799.0 | 786.4 |
| 7.5° | 955.3 | 956.1 | 951.1 | 937.2 | 914.3 | 893.3 | 892.0 | 868.3 | 844.4 | 819.0 | 800.1 |
| 10° | 1016.0 | 1012.8 | 1004.7 | 985.2 | 958.2 | 932.4 | 931.4 | 906.7 | 879.1 | 848.4 | 823.2 |
| 12.5° | 1056.4 | 1053.8 | 1043.3 | 1019.6 | 990.0 | 966.3 | 964.2 | 941.4 | 914.6 | 881.0 | 850.7 |
| 15° | 1078.7 | 1080.6 | 1066.4 | 1039.6 | 1010.7 | 990.7 | 988.9 | 972.6 | 948.7 | 914.8 | 880.2 |
| 17.5° | 1081.6 | 1083.2 | 1069.5 | 1043.0 | 1019.4 | 1005.7 | 1004.9 | 994.2 | 976.8 | 944.3 | 908.0 |
| 20° | 1064.8 | 1065.9 | 1054.6 | 1032.8 | 1017.3 | 1013.1 | 1012.8 | 1008.1 | 995.2 | 966.3 | 931.1 |
| 22.5° | 1040.4 | 1041.2 | 1033.0 | 1017.3 | 1012.0 | 1018.6 | 1020.4 | 1018.6 | 1009.4 | 982.3 | 949.2 |
| 25° | 1034.3 | 1033.8 | 1025.4 | 1009.4 | 1013.9 | 1027.8 | 1030.1 | 1030.9 | 1024.6 | 1001.0 | 972.4 |
| 27.5° | 1063.5 | 1061.7 | 1045.6 | 1019.9 | 1022.8 | 1039.6 | 1042.8 | 1050.4 | 1046.4 | 1025.7 | 998.6 |
| 30° | 1147.8 | 1144.7 | 1111.8 | 1059.8 | 1045.6 | 1054.3 | 1058.2 | 1070.3 | 1071.1 | 1053.8 | 1033.6 |
| 32.5° | 1290.2 | 1286.2 | 1227.4 | 1134.4 | 1084.3 | 1069.3 | 1073.0 | 1091.1 | 1100.8 | 1087.4 | 1065.6 |
| 35° | 1470.1 | 1465.6 | 1388.4 | 1261.3 | 1148.9 | 1097.9 | 1100.5 | 1115.0 | 1134.4 | 1115.5 | 1086.6 |
| 37.5° | 1657.6 | 1646.9 | 1572.5 | 1410.5 | 1251.6 | 1159.1 | 1159.1 | 1160.9 | 1170.1 | 1130.7 | 1111.3 |
| 40° | 1844.1 | 1833.4 | 1766.1 | 1585.9 | 1384.5 | 1255.5 | 1249.5 | 1208.8 | 1201.4 | 1167.5 | 1160.9 |
| 42.5° | 2017.5 | 2014.3 | 1974.7 | 1784.2 | 1540.5 | 1350.3 | 1341.9 | 1272.8 | 1274.4 | 1253.4 | 1253.7 |
| 45° | 2201.9 | 2201.9 | 2169.6 | 1984.4 | 1722.2 | 1502.7 | 1494.3 | 1392.6 | 1408.4 | 1398.7 | 1422.0 |
| 47.5° | 2352.4 | 2357.1 | 2352.6 | 2192.9 | 1933.7 | 1696.2 | 1681.0 | 1558.6 | 1602.7 | 1636.1 | 1704.1 |
| 50° | 2506.0 | 2513.4 | 2514.2 | 2421.7 | 2189.3 | 1926.3 | 1909.0 | 1779.0 | 1877.5 | 1973.1 | 2106.8 |
| 52.5° | 2729.0 | 2745.6 | 2679.6 | 2650.0 | 2502.3 | 2199.5 | 2182.4 | 2062.4 | 2226.8 | 2361.0 | 2591.4 |
| 55° | 2935.7 | 2921.3 | 2874.3 | 2892.7 | 2837.5 | 2510.5 | 2497.6 | 2392.3 | 2616.1 | 2790.5 | 3089.6 |
| 57.5° | 3047.6 | 3046.6 | 3093.8 | 3172.6 | 3198.9 | 2894.0 | 2883.2 | 2780.8 | 3055.0 | 3186.0 | 3557.4 |
| 60° | 3178.9 | 3180.8 | 3297.9 | 3476.8 | 3585.0 | 3371.5 | 3366.7 | 3289.0 | 3481.3 | 3555.3 | 3924.4 |
| 62.5° | 3197.3 | 3230.4 | 3432.1 | 3740.0 | 3946.4 | 3929.4 | 3939.9 | 3746.8 | 3862.6 | 3850.0 | 4198.3 |
| 65° | 2985.9 | 3029.5 | 3394.6 | 3819.6 | 4305.7 | 4539.5 | 4549.2 | 4207.3 | 4163.4 | 4101.9 | 4296.3 |
| 67.5° | 2552.5 | 2617.1 | 3013.7 | 3646.5 | 4424.2 | 4990.5 | 5004.2 | 4564.2 | 4412.9 | 4187.3 | 4060.4 |
| 70° | 1857.5 | 1929.2 | 2328.5 | 3114.3 | 4213.0 | 5134.7 | 5150.2 | 4722.1 | 4422.4 | 3944.3 | 3466.3 |
| 72.5° | 1122.1 | 1178.3 | 1507.4 | 2292.7 | 3555.9 | 4872.0 | 4899.6 | 4521.9 | 4037.6 | 3341.0 | 2559.6 |
| 75° | 492.7 | 529.5 | 728.9 | 1321.2 | 2545.7 | 4031.0 | 4065.4 | 3870.5 | 3280.6 | 2428.0 | 1512.9 |
| 77.5° | 209.9 | 220.4 | 298.9 | 573.9 | 1439.1 | 2754.5 | 2801.8 | 2828.0 | 2225.8 | 1321.2 | 639.3 |
| 80° | 130.8 | 135.0 | 169.2 | 259.8 | 673.5 | 1547.1 | 1598.0 | 1663.9 | 1105.3 | 485.7 | 223.3 |
| 82.5° | 79.6 | 84.3 | 112.4 | 157.1 | 350.6 | 701.3 | 725.7 | 772.2 | 428.9 | 209.9 | 115.6 |
| 85° | 47.8 | 51.2 | 68.8 | 99.3 | 199.6 | 275.8 | 275.5 | 304.7 | 202.0 | 135.0 | 60.9 |
| 87.5° | 22.9 | 25.5 | 36.8 | 51.5 | 100.6 | 103.5 | 96.9 | 109.8 | 122.7 | 88.5 | 30.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 | 781.9 |
| 2.5° | 781.4 | 780.4 | 776.9 | 774.3 | 773.8 | 772.2 | 770.9 | 771.7 | 772.7 | 773.0 | 773.0 |
| 5° | 781.1 | 778.3 | 773.8 | 772.0 | 774.3 | 777.5 | 781.4 | 786.7 | 789.8 | 792.2 | 793.8 |
| 7.5° | 793.8 | 788.2 | 783.2 | 782.2 | 786.9 | 795.3 | 804.3 | 815.3 | 822.9 | 828.2 | 829.2 |
| 10° | 814.8 | 807.9 | 802.9 | 804.0 | 812.4 | 824.5 | 837.1 | 851.3 | 862.8 | 869.9 | 870.4 |
| 12.5° | 838.9 | 832.4 | 827.6 | 832.1 | 846.0 | 860.7 | 873.9 | 886.2 | 896.7 | 903.8 | 903.8 |
| 15° | 866.8 | 862.0 | 856.5 | 866.8 | 885.7 | 898.8 | 904.3 | 910.4 | 916.2 | 921.4 | 920.4 |
| 17.5° | 893.6 | 889.1 | 886.2 | 898.3 | 918.0 | 924.0 | 920.4 | 915.9 | 915.9 | 918.8 | 919.3 |
| 20° | 916.7 | 912.7 | 914.6 | 926.4 | 936.6 | 930.3 | 916.7 | 902.5 | 896.7 | 898.3 | 899.9 |
| 22.5° | 936.9 | 935.1 | 940.6 | 946.1 | 938.7 | 916.7 | 891.5 | 872.3 | 865.2 | 864.7 | 865.2 |
| 25° | 960.5 | 960.3 | 967.1 | 957.1 | 924.6 | 883.8 | 850.0 | 831.3 | 827.4 | 830.5 | 835.8 |
| 27.5° | 990.0 | 992.8 | 996.3 | 959.8 | 895.7 | 834.2 | 799.8 | 786.9 | 790.9 | 798.5 | 803.5 |
| 30° | 1027.5 | 1035.4 | 1028.0 | 953.2 | 854.2 | 777.5 | 744.6 | 741.0 | 751.7 | 762.5 | 767.7 |
| 32.5° | 1064.0 | 1076.4 | 1058.5 | 936.1 | 800.6 | 717.3 | 691.8 | 690.8 | 703.9 | 714.4 | 721.8 |
| 35° | 1093.4 | 1117.9 | 1081.4 | 902.2 | 738.6 | 661.9 | 643.2 | 636.2 | 640.9 | 653.2 | 661.6 |
| 37.5° | 1131.8 | 1172.5 | 1097.1 | 850.5 | 671.4 | 616.2 | 594.4 | 578.1 | 573.9 | 578.9 | 583.1 |
| 40° | 1201.9 | 1255.8 | 1104.5 | 778.3 | 605.7 | 570.5 | 548.4 | 524.5 | 508.0 | 495.9 | 496.2 |
| 42.5° | 1316.4 | 1364.2 | 1099.7 | 690.5 | 545.0 | 525.8 | 500.9 | 473.3 | 446.5 | 419.2 | 417.1 |
| 45° | 1502.4 | 1525.5 | 1085.6 | 597.5 | 491.7 | 479.1 | 455.7 | 428.1 | 392.4 | 361.4 | 358.5 |
| 47.5° | 1800.0 | 1748.8 | 1063.5 | 516.4 | 444.7 | 439.4 | 417.9 | 386.1 | 348.3 | 323.3 | 321.2 |
| 50° | 2205.8 | 2071.1 | 1052.7 | 451.8 | 403.2 | 404.8 | 387.2 | 353.5 | 317.8 | 299.4 | 297.3 |
| 52.5° | 2691.2 | 2446.4 | 1073.5 | 401.9 | 369.8 | 375.3 | 362.2 | 330.7 | 300.7 | 286.3 | 284.2 |
| 55° | 3194.7 | 2835.1 | 1095.8 | 365.6 | 338.3 | 349.1 | 344.6 | 318.6 | 291.6 | 278.2 | 276.3 |
| 57.5° | 3625.7 | 3125.4 | 1051.2 | 336.2 | 310.2 | 327.0 | 330.9 | 311.0 | 286.8 | 274.7 | 272.6 |
| 60° | 3897.1 | 3242.2 | 934.0 | 308.6 | 287.9 | 309.4 | 323.1 | 308.9 | 288.7 | 287.6 | 286.0 |
| 62.5° | 4025.8 | 3232.0 | 758.3 | 286.8 | 274.0 | 301.8 | 328.8 | 320.7 | 309.7 | 319.1 | 319.9 |
| 65° | 3968.0 | 3077.6 | 564.7 | 272.4 | 264.0 | 304.7 | 346.2 | 343.0 | 315.7 | 325.2 | 326.5 |
| 67.5° | 3587.6 | 2709.1 | 418.2 | 259.8 | 252.9 | 312.8 | 377.7 | 350.4 | 303.9 | 310.7 | 306.5 |
| 70° | 2899.7 | 2147.8 | 322.5 | 245.6 | 241.6 | 311.8 | 391.9 | 345.9 | 291.0 | 292.6 | 281.3 |
| 72.5° | 1999.6 | 1464.6 | 262.4 | 232.5 | 225.4 | 284.2 | 381.9 | 334.9 | 280.3 | 268.2 | 253.2 |
| 75° | 1087.4 | 786.1 | 223.0 | 218.8 | 196.7 | 249.5 | 363.5 | 327.0 | 270.5 | 254.5 | 246.1 |
| 77.5° | 427.9 | 326.2 | 193.6 | 200.1 | 172.0 | 220.4 | 343.0 | 312.0 | 257.1 | 236.1 | 231.9 |
| 80° | 174.7 | 166.5 | 160.5 | 173.1 | 147.9 | 192.8 | 318.3 | 294.4 | 241.1 | 219.1 | 210.7 |
| 82.5° | 99.0 | 103.5 | 124.8 | 136.6 | 120.0 | 177.6 | 306.5 | 280.3 | 221.9 | 196.2 | 186.2 |
| 85° | 50.7 | 60.7 | 86.9 | 98.0 | 88.3 | 151.0 | 282.4 | 245.3 | 178.1 | 150.2 | 151.0 |
| 87.5° | 24.4 | 33.9 | 54.9 | 61.5 | 57.3 | 109.3 | 210.9 | 177.8 | 138.7 | 109.8 | 106.4 |
| 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

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