

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: P324547

Luminaire Tested: **GLEON-SA3A-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10546 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

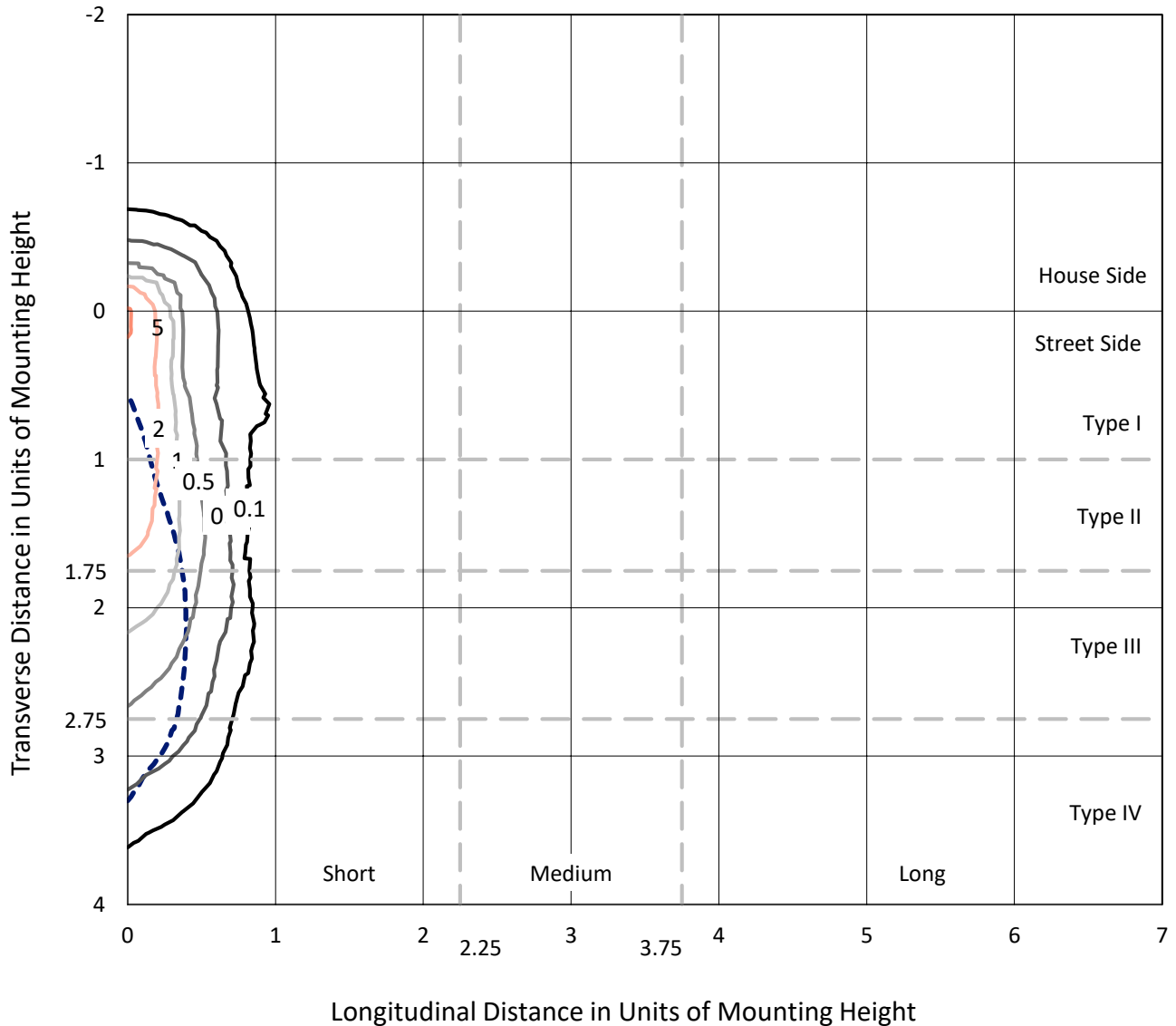
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324547
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Iso-Footcandle Lines of Horizontal Illumination

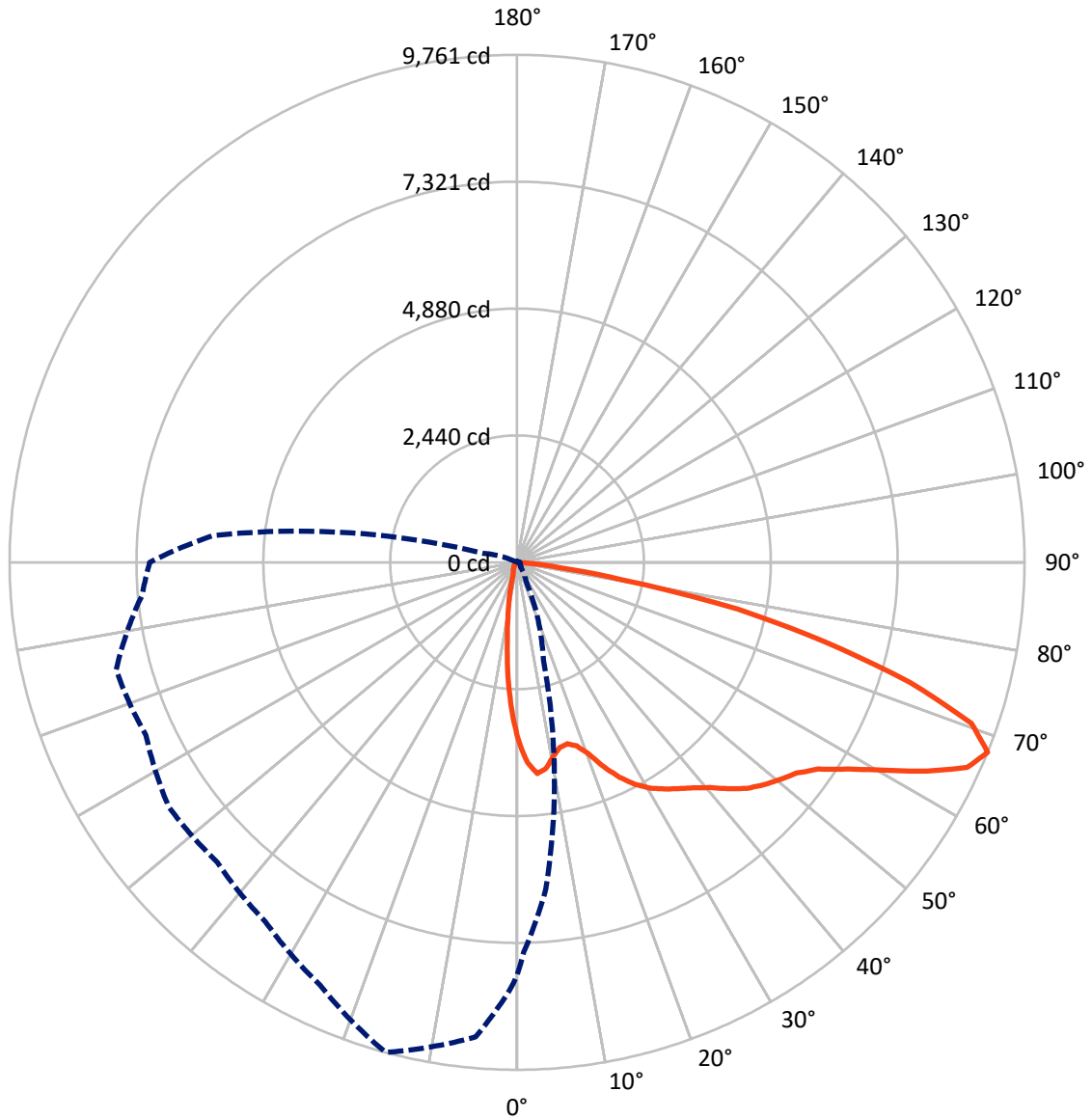
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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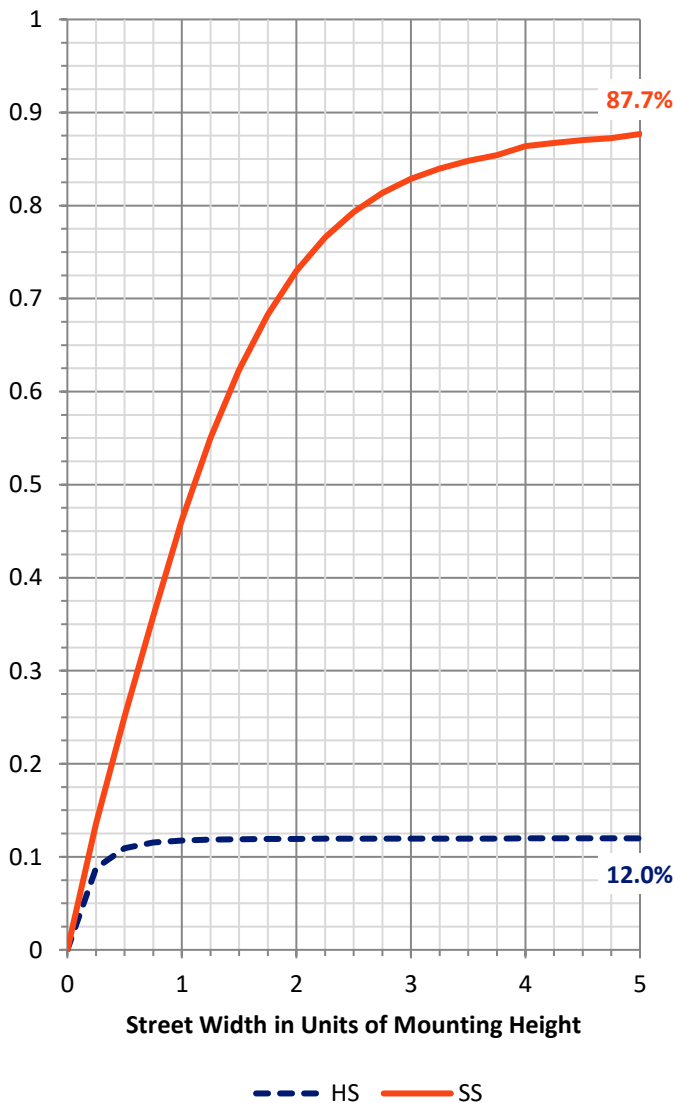
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1276.4 | 0.0 | 1276.4 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 9269.6 | 0.0 | 9269.6 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 10546.0 | 0.0 | 10546.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.7 | 2.5 |
| 10°-20° | 524.8 | 5.0 |
| 20°-30° | 745.2 | 7.1 |
| 30°-40° | 1100.7 | 10.4 |
| 40°-50° | 1587.5 | 15.1 |
| 50°-60° | 2228.5 | 21.1 |
| 60°-70° | 2597.8 | 24.6 |
| 70°-80° | 1328.1 | 12.6 |
| 80°-90° | 169.6 | 1.6 |
| 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° | 10546.0 | 100.0 |
| 0°-180° | 10546.0 | 100.0 |

Coefficient of Utilization

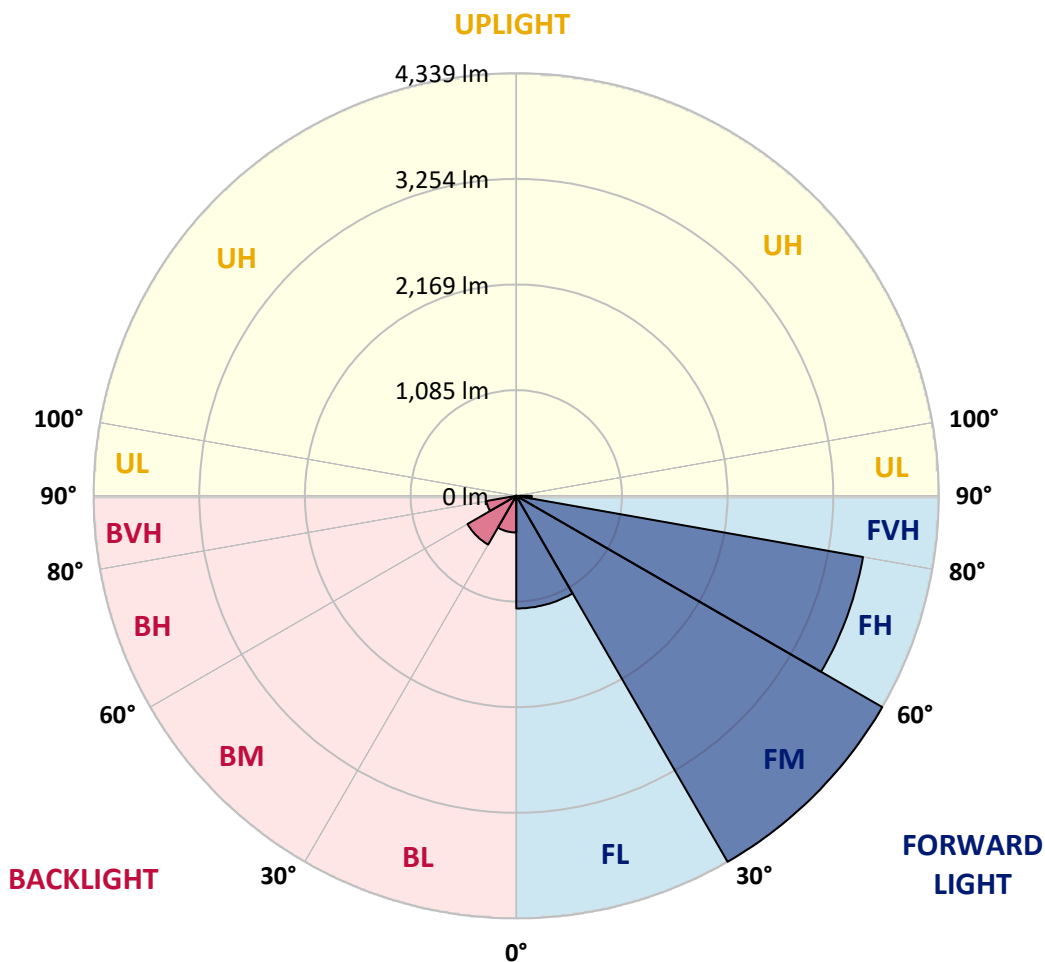


REPORT NUMBER: P324547
 CATALOG NUMBER: GLEON-SA3A-760-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1156.7 | 11.0 | | | |
| FM (30°-60°) | 4338.8 | 41.1 | | | |
| FH (60°-80°) | 3614.8 | 34.3 | | | G2/5000 |
| FVH (80°-90°) | 159.3 | 1.5 | | | G2/225 |
| BL (0°-30°) | 377.0 | 3.6 | B1/500 | | |
| BM (30°-60°) | 578.0 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 311.1 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.3 | 0.1 | | | 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 IV Medium





REPORT NUMBER: P324547

CATALOG NUMBER: GLEON-SA3A-760-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 |
| 2.5° | 3761.6 | 3732.6 | 3700.6 | 3596.2 | 3499.3 | 3388.4 | 3297.9 | 3235.0 | 3156.1 | 3053.6 | 3027.7 |
| 5° | 3734.6 | 3703.6 | 3603.2 | 3370.9 | 3167.5 | 2969.7 | 2778.8 | 2666.9 | 2528.0 | 2387.2 | 2352.2 |
| 7.5° | 3463.3 | 3430.8 | 3286.0 | 2967.7 | 2693.9 | 2408.1 | 2160.3 | 2006.9 | 1850.1 | 1721.2 | 1652.7 |
| 10° | 3181.0 | 3145.6 | 2982.7 | 2596.5 | 2259.3 | 2001.0 | 1819.1 | 1672.7 | 1524.3 | 1386.4 | 1276.5 |
| 12.5° | 2986.7 | 2940.2 | 2763.4 | 2325.7 | 2031.9 | 1856.6 | 1686.7 | 1511.3 | 1310.5 | 1162.6 | 1041.7 |
| 15° | 2905.3 | 2852.3 | 2665.4 | 2221.3 | 1951.5 | 1745.6 | 1524.3 | 1309.0 | 1073.7 | 904.3 | 793.4 |
| 17.5° | 2968.2 | 2899.3 | 2698.9 | 2214.3 | 1850.6 | 1570.3 | 1290.5 | 1037.7 | 782.4 | 611.0 | 532.1 |
| 20° | 3182.0 | 3091.6 | 2837.3 | 2212.3 | 1728.2 | 1361.9 | 1007.2 | 721.4 | 515.6 | 414.7 | 373.2 |
| 22.5° | 3518.8 | 3399.4 | 3036.1 | 2228.3 | 1601.8 | 1143.1 | 727.4 | 490.1 | 387.2 | 334.7 | 310.3 |
| 25° | 3925.5 | 3787.1 | 3322.4 | 2284.7 | 1490.8 | 930.3 | 528.6 | 387.2 | 326.7 | 288.3 | 267.8 |
| 27.5° | 4312.2 | 4199.7 | 3684.1 | 2366.2 | 1404.9 | 758.4 | 429.2 | 328.2 | 279.3 | 253.8 | 237.3 |
| 30° | 4698.4 | 4557.0 | 4055.4 | 2463.1 | 1301.5 | 642.0 | 377.2 | 299.3 | 250.3 | 223.3 | 212.8 |
| 32.5° | 4979.1 | 4861.7 | 4346.1 | 2533.0 | 1191.1 | 566.1 | 337.2 | 273.8 | 233.8 | 206.3 | 190.9 |
| 35° | 5309.4 | 5176.5 | 4595.4 | 2548.5 | 1120.1 | 518.1 | 303.3 | 246.3 | 202.8 | 178.4 | 161.9 |
| 37.5° | 5666.1 | 5500.7 | 4883.2 | 2514.6 | 1064.7 | 494.6 | 277.8 | 233.8 | 189.4 | 164.4 | 146.9 |
| 40° | 6060.8 | 5874.0 | 5159.5 | 2465.6 | 1010.2 | 486.6 | 258.3 | 224.3 | 178.9 | 153.4 | 135.4 |
| 42.5° | 6476.5 | 6256.2 | 5398.8 | 2414.1 | 975.7 | 459.1 | 256.3 | 214.8 | 170.9 | 143.4 | 125.4 |
| 45° | 6825.7 | 6602.4 | 5644.6 | 2397.1 | 951.3 | 429.2 | 264.8 | 208.3 | 165.4 | 135.4 | 117.9 |
| 47.5° | 7104.0 | 6892.7 | 5896.4 | 2435.1 | 937.3 | 401.7 | 241.3 | 216.8 | 162.4 | 128.4 | 111.4 |
| 50° | 7436.2 | 7196.9 | 6251.2 | 2548.5 | 916.8 | 374.2 | 218.3 | 248.3 | 162.4 | 123.9 | 105.9 |
| 52.5° | 7852.9 | 7616.1 | 6646.9 | 2724.4 | 875.8 | 336.2 | 196.3 | 248.8 | 163.9 | 117.9 | 98.9 |
| 55° | 8377.0 | 8205.1 | 7211.9 | 2917.2 | 810.4 | 280.3 | 169.9 | 213.8 | 157.9 | 106.9 | 92.4 |
| 57.5° | 8879.6 | 8739.2 | 7727.0 | 3049.1 | 722.9 | 218.8 | 147.9 | 172.4 | 144.4 | 93.9 | 82.4 |
| 59° | 9017.0 | 8863.6 | 7915.9 | 3055.1 | 657.5 | 190.9 | 136.9 | 142.4 | 141.4 | 87.9 | 76.4 |
| 60° | 9017.0 | 8854.1 | 7970.3 | 3023.2 | 610.0 | 175.4 | 129.9 | 126.9 | 147.4 | 83.9 | 72.9 |
| 62.5° | 8853.6 | 8624.8 | 7793.5 | 2806.8 | 497.6 | 149.4 | 113.4 | 104.9 | 132.4 | 75.4 | 64.5 |
| 65° | 8513.9 | 8180.7 | 7190.9 | 2415.6 | 443.7 | 136.9 | 97.9 | 85.9 | 91.9 | 66.4 | 56.5 |
| 67.5° | 7947.3 | 7495.7 | 6322.1 | 1951.5 | 422.2 | 133.4 | 84.4 | 72.9 | 69.4 | 57.0 | 49.5 |
| 70° | 6949.6 | 6448.5 | 5267.4 | 1534.3 | 403.7 | 131.9 | 70.9 | 61.5 | 56.0 | 48.0 | 42.0 |
| 72.5° | 5058.1 | 4535.5 | 3739.6 | 1199.6 | 392.7 | 134.9 | 57.0 | 51.5 | 46.0 | 37.5 | 32.5 |
| 75° | 2893.3 | 2551.0 | 2101.9 | 792.4 | 334.7 | 128.9 | 44.0 | 43.0 | 33.0 | 27.0 | 22.5 |
| 77.5° | 1494.8 | 1449.4 | 1259.5 | 304.3 | 160.4 | 56.5 | 29.0 | 25.0 | 19.5 | 16.5 | 13.5 |
| 80° | 645.0 | 638.0 | 552.1 | 87.9 | 42.5 | 31.5 | 16.5 | 10.5 | 9.0 | 7.0 | 5.5 |
| 82.5° | 222.8 | 222.8 | 196.3 | 29.5 | 19.0 | 15.5 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 45.0 | 50.5 | 35.5 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



REPORT NUMBER: P324547

CATALOG NUMBER: GLEON-SA3A-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 |
| 2.5° | 2996.2 | 2935.7 | 2931.7 | 2893.8 | 2846.3 | 2824.8 | 2812.3 | 2834.3 | 2861.3 | 2864.3 | 2904.8 |
| 5° | 2325.7 | 2262.2 | 2288.7 | 2221.3 | 2234.8 | 2221.3 | 2199.3 | 2203.3 | 2215.3 | 2177.8 | 2224.3 |
| 7.5° | 1633.2 | 1585.3 | 1615.7 | 1597.8 | 1621.7 | 1631.2 | 1617.7 | 1597.8 | 1538.8 | 1531.8 | 1572.3 |
| 10° | 1231.0 | 1176.6 | 1144.1 | 1110.1 | 1117.6 | 1133.1 | 1128.1 | 1113.6 | 1076.2 | 1078.2 | 1117.1 |
| 12.5° | 989.2 | 928.3 | 863.8 | 780.4 | 759.9 | 771.4 | 759.9 | 751.4 | 715.4 | 718.4 | 752.9 |
| 15° | 750.4 | 700.5 | 633.0 | 566.1 | 529.6 | 533.1 | 501.1 | 478.6 | 456.1 | 429.2 | 450.2 |
| 17.5° | 506.6 | 476.1 | 456.1 | 436.2 | 392.7 | 382.7 | 342.2 | 298.8 | 281.8 | 269.3 | 278.3 |
| 20° | 358.7 | 342.2 | 334.2 | 333.2 | 308.3 | 295.8 | 256.3 | 229.3 | 220.8 | 218.3 | 223.8 |
| 22.5° | 299.8 | 287.8 | 276.3 | 269.8 | 257.3 | 242.8 | 212.8 | 199.3 | 193.4 | 190.4 | 194.3 |
| 25° | 260.8 | 251.8 | 239.8 | 228.8 | 223.8 | 208.3 | 186.9 | 176.9 | 172.9 | 169.9 | 171.9 |
| 27.5° | 231.8 | 223.8 | 209.8 | 202.8 | 198.8 | 185.4 | 166.9 | 158.9 | 155.4 | 154.4 | 153.9 |
| 30° | 208.8 | 201.3 | 188.4 | 180.4 | 173.4 | 161.4 | 150.4 | 142.4 | 138.9 | 137.9 | 136.9 |
| 32.5° | 185.9 | 179.9 | 171.4 | 163.4 | 155.9 | 144.9 | 135.4 | 128.9 | 123.4 | 122.4 | 121.9 |
| 35° | 156.9 | 150.9 | 146.4 | 145.9 | 138.9 | 128.4 | 121.4 | 112.9 | 108.4 | 106.9 | 107.4 |
| 37.5° | 139.4 | 131.4 | 121.4 | 124.9 | 122.9 | 115.4 | 105.9 | 97.4 | 92.9 | 91.9 | 91.9 |
| 40° | 128.4 | 119.9 | 108.4 | 102.4 | 108.4 | 106.9 | 91.9 | 83.4 | 78.9 | 78.4 | 77.4 |
| 42.5° | 117.9 | 109.4 | 96.4 | 86.4 | 89.4 | 93.9 | 79.4 | 71.4 | 66.9 | 65.9 | 64.5 |
| 45° | 110.4 | 101.4 | 86.9 | 75.4 | 69.4 | 78.9 | 67.9 | 58.0 | 55.5 | 53.5 | 52.5 |
| 47.5° | 103.4 | 94.9 | 78.4 | 65.4 | 55.5 | 57.0 | 54.5 | 47.5 | 44.5 | 42.5 | 42.0 |
| 50° | 97.4 | 88.4 | 70.9 | 56.0 | 46.0 | 42.0 | 44.0 | 37.5 | 35.0 | 33.0 | 32.0 |
| 52.5° | 90.4 | 81.9 | 63.0 | 48.5 | 38.5 | 33.0 | 33.5 | 29.5 | 27.0 | 25.5 | 25.0 |
| 55° | 84.9 | 76.4 | 56.5 | 42.5 | 34.0 | 27.0 | 24.0 | 23.0 | 21.5 | 20.5 | 20.0 |
| 57.5° | 77.4 | 69.4 | 50.0 | 36.0 | 29.0 | 22.0 | 18.5 | 18.5 | 18.0 | 17.0 | 16.5 |
| 59° | 72.9 | 65.9 | 46.0 | 32.5 | 26.5 | 19.0 | 16.5 | 17.0 | 16.5 | 15.5 | 15.0 |
| 60° | 69.4 | 63.0 | 43.0 | 30.0 | 25.0 | 17.5 | 15.0 | 16.0 | 15.5 | 14.5 | 14.0 |
| 62.5° | 61.5 | 57.0 | 37.0 | 25.0 | 22.0 | 14.0 | 12.5 | 13.5 | 13.5 | 13.0 | 12.5 |
| 65° | 54.0 | 49.0 | 31.5 | 21.0 | 20.5 | 12.0 | 10.0 | 12.0 | 12.5 | 11.5 | 10.5 |
| 67.5° | 47.0 | 42.0 | 27.5 | 17.0 | 19.0 | 9.5 | 7.5 | 10.0 | 13.5 | 10.5 | 9.5 |
| 70° | 40.0 | 35.0 | 21.5 | 13.5 | 20.0 | 6.5 | 6.0 | 9.0 | 16.0 | 11.5 | 9.0 |
| 72.5° | 31.0 | 27.0 | 15.0 | 10.0 | 21.5 | 4.5 | 4.5 | 7.5 | 18.0 | 12.5 | 8.5 |
| 75° | 21.5 | 17.5 | 9.0 | 6.0 | 17.5 | 3.0 | 3.0 | 7.0 | 17.0 | 11.5 | 8.0 |
| 77.5° | 12.5 | 9.5 | 3.0 | 0.5 | 9.0 | 0.0 | 0.5 | 5.0 | 12.0 | 7.0 | 3.5 |
| 80° | 4.5 | 2.0 | 0.0 | 0.0 | 5.5 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



REPORT NUMBER: P324547

CATALOG NUMBER: GLEON-SA3A-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 |
| 2.5° | 2915.2 | 2982.7 | 3043.1 | 3134.6 | 3243.0 | 3367.9 | 3475.3 | 3590.7 | 3699.1 | 3744.1 | 3775.1 |
| 5° | 2233.8 | 2317.2 | 2414.6 | 2549.0 | 2727.9 | 2948.2 | 3154.6 | 3387.9 | 3638.7 | 3764.1 | 3882.0 |
| 7.5° | 1579.3 | 1664.2 | 1785.1 | 1928.0 | 2144.3 | 2406.6 | 2676.4 | 2998.7 | 3338.4 | 3536.8 | 3732.1 |
| 10° | 1135.6 | 1240.0 | 1353.0 | 1548.3 | 1768.1 | 2016.9 | 2294.7 | 2654.4 | 3033.2 | 3253.0 | 3488.3 |
| 12.5° | 772.9 | 891.8 | 1062.7 | 1281.5 | 1539.8 | 1783.6 | 2024.9 | 2368.2 | 2807.8 | 3025.7 | 3278.0 |
| 15° | 463.6 | 529.6 | 710.4 | 963.8 | 1280.5 | 1584.3 | 1848.6 | 2192.8 | 2661.4 | 2928.2 | 3190.5 |
| 17.5° | 285.8 | 316.3 | 414.7 | 622.5 | 955.3 | 1339.5 | 1701.7 | 2133.3 | 2682.4 | 3007.2 | 3288.0 |
| 20° | 227.8 | 239.8 | 271.3 | 367.7 | 633.0 | 1069.7 | 1536.3 | 2121.4 | 2853.8 | 3253.5 | 3554.7 |
| 22.5° | 197.8 | 209.3 | 230.3 | 267.3 | 398.2 | 800.9 | 1379.4 | 2132.3 | 3099.6 | 3622.7 | 3974.4 |
| 25° | 174.4 | 184.4 | 204.3 | 234.8 | 291.8 | 564.1 | 1211.6 | 2181.3 | 3419.9 | 4080.8 | 4454.6 |
| 27.5° | 155.9 | 164.4 | 182.9 | 210.8 | 250.3 | 393.7 | 1021.2 | 2240.8 | 3799.6 | 4549.5 | 4918.2 |
| 30° | 138.9 | 146.4 | 162.9 | 188.9 | 217.3 | 302.8 | 812.4 | 2281.2 | 4179.8 | 4918.2 | 5249.4 |
| 32.5° | 124.4 | 129.9 | 144.9 | 166.9 | 188.9 | 241.3 | 617.5 | 2274.7 | 4462.0 | 5225.0 | 5487.8 |
| 35° | 109.4 | 114.9 | 127.9 | 146.9 | 164.4 | 199.3 | 485.6 | 2153.3 | 4707.9 | 5543.2 | 5760.5 |
| 37.5° | 92.9 | 99.9 | 112.4 | 129.4 | 141.4 | 175.4 | 392.7 | 2006.9 | 4957.2 | 5906.9 | 6064.8 |
| 40° | 78.9 | 85.9 | 96.9 | 115.4 | 122.9 | 166.4 | 301.8 | 1828.6 | 5237.4 | 6313.6 | 6398.5 |
| 42.5° | 65.4 | 71.9 | 83.4 | 99.4 | 115.9 | 143.4 | 223.3 | 1624.7 | 5506.7 | 6661.3 | 6702.8 |
| 45° | 53.0 | 59.5 | 71.4 | 87.4 | 123.9 | 118.9 | 172.9 | 1406.4 | 5724.1 | 6950.6 | 6964.1 |
| 47.5° | 42.0 | 48.0 | 60.5 | 82.4 | 115.4 | 94.9 | 123.4 | 1235.0 | 5906.4 | 7176.4 | 7141.0 |
| 50° | 32.5 | 37.5 | 50.5 | 94.4 | 100.9 | 78.4 | 93.4 | 1178.1 | 6069.8 | 7316.3 | 7224.4 |
| 52.5° | 25.5 | 30.0 | 41.5 | 88.4 | 78.4 | 64.9 | 78.4 | 1231.5 | 6293.6 | 7432.2 | 7271.4 |
| 55° | 20.5 | 25.0 | 32.5 | 50.5 | 53.5 | 55.0 | 66.9 | 1281.5 | 6679.8 | 7704.0 | 7548.7 |
| 57.5° | 17.0 | 21.5 | 26.5 | 35.5 | 40.5 | 46.5 | 59.5 | 1287.0 | 7135.0 | 8155.7 | 8008.8 |
| 59° | 15.5 | 19.5 | 24.0 | 31.5 | 35.5 | 42.5 | 56.0 | 1257.0 | 7295.4 | 8320.1 | 8246.6 |
| 60° | 14.5 | 18.5 | 22.5 | 29.0 | 33.0 | 40.0 | 54.0 | 1228.5 | 7302.3 | 8314.1 | 8348.0 |
| 62.5° | 12.5 | 16.5 | 20.0 | 24.5 | 28.0 | 34.0 | 48.5 | 1123.1 | 7006.6 | 8041.8 | 8287.1 |
| 65° | 11.0 | 14.5 | 18.0 | 21.0 | 24.0 | 30.5 | 44.0 | 930.8 | 6501.5 | 7602.6 | 7869.9 |
| 67.5° | 10.0 | 12.5 | 16.5 | 18.5 | 21.5 | 27.0 | 39.0 | 663.5 | 5870.5 | 7065.5 | 7238.9 |
| 70° | 9.0 | 12.0 | 15.0 | 17.0 | 19.5 | 23.5 | 33.5 | 381.2 | 4957.2 | 6279.1 | 6402.5 |
| 72.5° | 8.5 | 11.5 | 13.5 | 16.0 | 17.5 | 21.0 | 30.5 | 179.4 | 3629.7 | 5030.1 | 5352.4 |
| 75° | 7.5 | 10.5 | 12.5 | 15.0 | 16.5 | 19.0 | 26.0 | 85.9 | 2414.1 | 3640.2 | 4006.4 |
| 77.5° | 4.5 | 8.5 | 11.5 | 13.5 | 14.5 | 16.5 | 21.5 | 49.5 | 1540.8 | 2519.5 | 2967.7 |
| 80° | 0.0 | 3.0 | 8.5 | 11.5 | 12.5 | 14.0 | 16.5 | 39.0 | 824.4 | 1439.4 | 1727.7 |
| 82.5° | 0.0 | 0.0 | 6.0 | 9.0 | 8.5 | 9.5 | 12.5 | 24.5 | 371.7 | 940.8 | 1060.2 |
| 85° | 0.0 | 0.0 | 2.0 | 7.0 | 6.0 | 4.5 | 8.5 | 8.5 | 81.4 | 476.1 | 594.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 3.0 | 2.0 | 3.5 | 1.0 | 0.5 | 35.5 | 143.9 |
| 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: P324547

CATALOG NUMBER: GLEON-SA3A-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 | 3435.3 |
| 2.5° | 3883.5 | 3920.5 | 3982.9 | 4012.4 | 3997.9 | 3936.5 | 3863.0 | 3788.1 | 3744.1 | 3761.6 |
| 5° | 4122.3 | 4312.7 | 4422.6 | 4459.0 | 4398.1 | 4260.2 | 4079.8 | 3842.0 | 3757.6 | 3734.6 |
| 7.5° | 4122.3 | 4480.5 | 4707.4 | 4747.3 | 4611.4 | 4341.1 | 4002.9 | 3631.7 | 3508.3 | 3463.3 |
| 10° | 3977.4 | 4465.0 | 4781.3 | 4844.7 | 4654.9 | 4250.7 | 3797.6 | 3373.9 | 3227.5 | 3181.0 |
| 12.5° | 3814.0 | 4339.1 | 4672.4 | 4759.8 | 4603.9 | 4160.8 | 3655.2 | 3199.5 | 3027.2 | 2986.7 |
| 15° | 3713.6 | 4184.3 | 4460.0 | 4523.5 | 4457.5 | 4108.3 | 3621.2 | 3147.1 | 2944.2 | 2905.3 |
| 17.5° | 3749.6 | 4064.4 | 4163.8 | 4200.7 | 4245.2 | 4089.8 | 3713.6 | 3262.0 | 3005.2 | 2968.2 |
| 20° | 3885.0 | 3938.0 | 3886.5 | 3933.0 | 4052.9 | 4107.8 | 3934.0 | 3539.8 | 3231.5 | 3182.0 |
| 22.5° | 4114.8 | 3872.5 | 3728.1 | 3746.6 | 3892.5 | 4167.3 | 4270.7 | 3936.5 | 3580.7 | 3518.8 |
| 25° | 4382.6 | 3925.5 | 3640.2 | 3623.7 | 3773.6 | 4245.7 | 4578.5 | 4368.1 | 3993.9 | 3925.5 |
| 27.5° | 4719.3 | 4044.4 | 3622.2 | 3605.7 | 3732.1 | 4319.2 | 4834.3 | 4794.8 | 4429.1 | 4312.2 |
| 30° | 4979.1 | 4161.3 | 3675.7 | 3637.7 | 3773.6 | 4370.1 | 5039.6 | 5157.0 | 4775.8 | 4698.4 |
| 32.5° | 5165.5 | 4299.2 | 3762.6 | 3707.6 | 3890.5 | 4458.0 | 5198.0 | 5488.7 | 5096.6 | 4979.1 |
| 35° | 5307.4 | 4449.1 | 3903.0 | 3812.5 | 4051.4 | 4591.4 | 5346.4 | 5842.0 | 5437.8 | 5309.4 |
| 37.5° | 5440.3 | 4659.4 | 4122.3 | 4014.4 | 4303.7 | 4806.3 | 5503.2 | 6242.7 | 5819.5 | 5666.1 |
| 40° | 5625.6 | 4897.7 | 4460.5 | 4364.6 | 4727.8 | 5099.1 | 5699.1 | 6660.3 | 6253.7 | 6060.8 |
| 42.5° | 5811.0 | 5153.5 | 4806.8 | 4832.8 | 5256.9 | 5454.8 | 5951.9 | 7102.0 | 6682.3 | 6476.5 |
| 45° | 5980.4 | 5417.3 | 5299.9 | 5419.8 | 5748.0 | 5845.0 | 6203.2 | 7357.3 | 7024.6 | 6825.7 |
| 47.5° | 6131.3 | 5747.0 | 5790.0 | 6109.3 | 6306.6 | 6198.2 | 6391.1 | 7577.6 | 7279.4 | 7104.0 |
| 50° | 6306.6 | 6173.7 | 6436.0 | 6887.7 | 6949.6 | 6518.0 | 6561.9 | 7838.4 | 7577.1 | 7436.2 |
| 52.5° | 6498.5 | 6623.4 | 7151.5 | 7549.7 | 7529.7 | 6865.2 | 6733.8 | 8130.7 | 7985.3 | 7852.9 |
| 55° | 6716.3 | 6986.6 | 7781.5 | 8169.2 | 8152.2 | 7252.9 | 7018.6 | 8491.9 | 8496.9 | 8377.0 |
| 57.5° | 7039.5 | 7299.3 | 8209.1 | 8670.3 | 8698.8 | 7700.5 | 7501.2 | 8896.6 | 8959.6 | 8879.6 |
| 59° | 7271.4 | 7502.2 | 8378.5 | 8879.6 | 8995.5 | 8046.8 | 7853.9 | 9131.4 | 9090.0 | 9017.0 |
| 60° | 7443.2 | 7631.1 | 8462.4 | 8989.0 | 9167.9 | 8281.6 | 8114.2 | 9269.3 | 9105.4 | 9017.0 |
| 62.5° | 7868.4 | 7911.9 | 8613.8 | 9112.9 | 9366.2 | 8803.2 | 8846.6 | 9504.1 | 8998.0 | 8853.6 |
| 65° | 8066.8 | 8089.2 | 8611.8 | 8891.1 | 9174.4 | 9209.4 | 9511.1 | 9511.1 | 8735.7 | 8513.9 |
| 67.5° | 7983.8 | 7875.4 | 8184.7 | 8155.7 | 8438.5 | 8968.1 | 9760.9 | 9162.4 | 8234.1 | 7947.3 |
| 70° | 7309.3 | 6892.2 | 6754.8 | 6767.3 | 6983.6 | 7800.5 | 9266.3 | 8136.2 | 7284.9 | 6949.6 |
| 72.5° | 6081.8 | 5081.1 | 4741.8 | 5129.0 | 5185.5 | 5994.9 | 7896.9 | 6127.3 | 5372.3 | 5058.1 |
| 75° | 4891.7 | 3581.7 | 3030.2 | 3438.8 | 3534.8 | 4387.1 | 6108.8 | 3816.0 | 3138.1 | 2893.3 |
| 77.5° | 3514.3 | 2571.0 | 2174.3 | 2145.8 | 2269.7 | 2782.3 | 4334.6 | 1920.5 | 1601.8 | 1494.8 |
| 80° | 1996.5 | 1692.2 | 1822.1 | 1719.2 | 1781.6 | 1739.7 | 2059.4 | 842.3 | 690.0 | 645.0 |
| 82.5° | 1205.1 | 1000.2 | 1083.2 | 901.8 | 1141.1 | 993.7 | 793.4 | 269.8 | 234.3 | 222.8 |
| 85° | 783.9 | 546.6 | 284.8 | 190.9 | 393.2 | 635.0 | 177.4 | 73.4 | 56.5 | 45.0 |
| 87.5° | 270.3 | 139.4 | 14.0 | 6.0 | 42.0 | 118.4 | 6.5 | 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 |

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



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-9-R4

Test Date: 10/23/2019

Luminaire Tested: SA1C-760-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-9-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-760-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

| | | | | | |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K): | 5474 | CRI (Ra): | 71.7 | R9: | -27.1 |
| CIE u': | 0.2052 | R1: | 70.6 | R10: | 40.8 |
| CIE v': | 0.4804 | R2: | 74.6 | R11: | 74.6 |
| Duv: | 0.0025 | R3: | 78.3 | R12: | 50.4 |
| CIE x: | 0.3330 | R4: | 73.8 | R13: | 70.0 |
| CIE y: | 0.3466 | R5: | 72.4 | R14: | 87.8 |
| CIE z: | 0.3204 | R6: | 67.5 | | |
| Peak Wavelength (nm): | 442 | R7: | 77.5 | | |
| Dominant Wavelength (nm): | 554 | R8: | 58.9 | | |
| Purity: | 4.1 | | | | |
| Rf: | 72.1 | | | | |
| Rg: | 97.2 | | | | |



Test Conditions

Stabilization Time: 240M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 24.6/31%
 Sphere Temperature (°C): 25.9

REPORT NUMBER: SP1-1908-441-9-R4

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018 | 12/5/2019 |
| AC Power Source | IN0063 | 12/5/2018 | 12/5/2019 |
| DC Power Source | IN0208 | 12/5/2018 | 12/5/2019 |
| Sphere Thermometer | IN0085 | 12/5/2018 | 12/5/2019 |
| Room Thermometer | IN0046 | 12/5/2018 | 12/5/2019 |

REPORT NUMBER: SP1-1908-441-9-R4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-9-R4

Photopic Flux vs. Wavelength



#####

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13759.3 S/P: 1.85

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 5527.6 M/P: 0.74

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 3540 | NR | 490 | 33363 | NR | 620 | 80193 | NR | 750 | 4663 | NR | 880 | 4678 | NR |
| 365 | 2862 | NR | 495 | 44177 | NR | 625 | 73091 | NR | 755 | 4147 | NR | 885 | 4128 | NR |
| 370 | 2865 | NR | 500 | 57019 | NR | 630 | 66269 | NR | 760 | 4040 | NR | 890 | 4504 | NR |
| 375 | 3254 | NR | 505 | 70030 | NR | 635 | 60012 | NR | 765 | 3474 | NR | 895 | 4371 | NR |
| 380 | 3076 | NR | 510 | 81972 | NR | 640 | 53914 | NR | 770 | 3469 | NR | 900 | 4082 | NR |
| 385 | 2904 | NR | 515 | 92590 | NR | 645 | 48385 | NR | 775 | 3181 | NR | 905 | 2982 | NR |
| 390 | 2689 | NR | 520 | 100305 | NR | 650 | 43219 | NR | 780 | 2969 | NR | 910 | 4351 | NR |
| 395 | 2619 | NR | 525 | 107452 | NR | 655 | 38562 | NR | 785 | 3132 | NR | 915 | 3365 | NR |
| 400 | 2679 | NR | 530 | 111373 | NR | 660 | 34110 | NR | 790 | 2507 | NR | 920 | 3430 | NR |
| 405 | 3515 | NR | 535 | 114505 | NR | 665 | 30085 | NR | 795 | 2968 | NR | 925 | 4264 | NR |
| 410 | 6934 | NR | 540 | 116408 | NR | 670 | 26205 | NR | 800 | 2758 | NR | 930 | 4095 | NR |
| 415 | 14943 | NR | 545 | 118700 | NR | 675 | 22906 | NR | 805 | 2872 | NR | 935 | 5048 | NR |
| 420 | 31939 | NR | 550 | 119209 | NR | 680 | 20058 | NR | 810 | 3094 | NR | 940 | 4074 | NR |
| 425 | 64701 | NR | 555 | 120742 | NR | 685 | 17413 | NR | 815 | 3222 | NR | 945 | 4949 | NR |
| 430 | 110939 | NR | 560 | 121594 | NR | 690 | 15447 | NR | 820 | 3238 | NR | 950 | 4387 | NR |
| 435 | 164597 | NR | 565 | 121913 | NR | 695 | 13398 | NR | 825 | 3524 | NR | 955 | 4978 | NR |
| 440 | 207696 | NR | 570 | 122147 | NR | 700 | 11777 | NR | 830 | 2921 | NR | 960 | 4706 | NR |
| 445 | 201830 | NR | 575 | 121605 | NR | 705 | 10412 | NR | 835 | 3595 | NR | 965 | 5083 | NR |
| 450 | 145410 | NR | 580 | 120248 | NR | 710 | 9544 | NR | 840 | 3016 | NR | 970 | 4522 | NR |
| 455 | 89594 | NR | 585 | 117717 | NR | 715 | 8940 | NR | 845 | 4032 | NR | 975 | 4740 | NR |
| 460 | 58321 | NR | 590 | 114359 | NR | 720 | 7897 | NR | 850 | 3579 | NR | 980 | 6122 | NR |
| 465 | 39318 | NR | 595 | 109974 | NR | 725 | 7045 | NR | 855 | 4571 | NR | 985 | 6450 | NR |
| 470 | 27693 | NR | 600 | 105269 | NR | 730 | 6483 | NR | 860 | 4485 | NR | 990 | 4875 | NR |
| 475 | 23081 | NR | 605 | 99453 | NR | 735 | 5838 | NR | 865 | 3978 | NR | 995 | 4764 | NR |
| 480 | 23002 | NR | 610 | 92921 | NR | 740 | 5261 | NR | 870 | 4298 | NR | 1000 | 3640 | NR |
| 485 | 26201 | NR | 615 | 86989 | NR | 745 | 4760 | NR | 875 | 4356 | NR | | | |

REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

Summary

$R_f = 72.1$
 $R_g = 97.2$
 CIE $R_a = 71.7$
 $R_g = -27.1$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-9-R4

TM-30-18

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

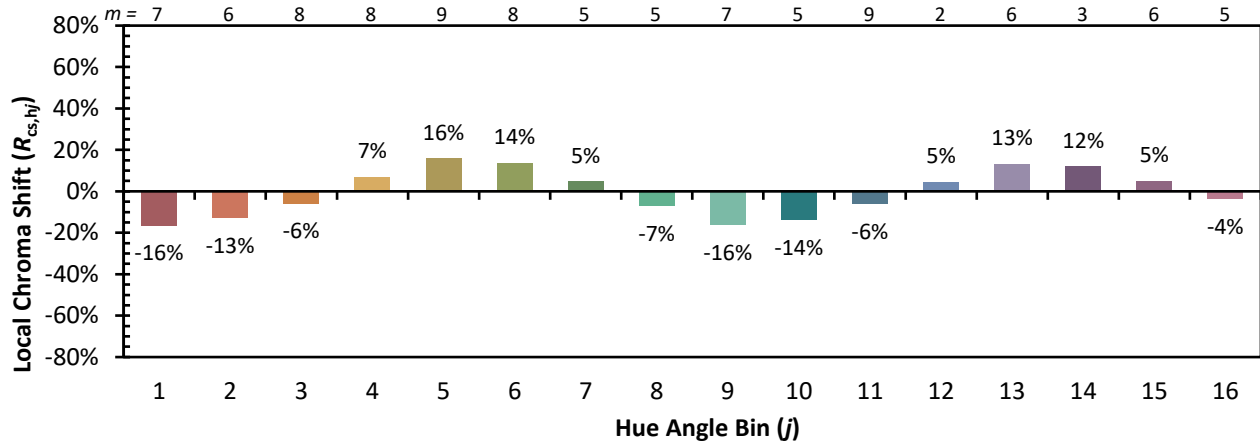
| | | | |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 81 | CES79 = 74 |
| CES05 = 46 | CES30 = 59 | CES55 = 80 | CES80 = 70 |
| CES06 = 50 | CES31 = 55 | CES56 = 70 | CES81 = 71 |
| CES07 = 38 | CES32 = 52 | CES57 = 68 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 82 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 84 |
| CES11 = 55 | CES36 = 90 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 72 | CES62 = 81 | CES87 = 75 |
| CES13 = 41 | CES38 = 68 | CES63 = 75 | CES88 = 77 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 84 | CES66 = 66 | CES91 = 92 |
| CES17 = 48 | CES42 = 70 | CES67 = 64 | CES92 = 70 |
| CES18 = 55 | CES43 = 69 | CES68 = 71 | CES93 = 83 |
| CES19 = 70 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 73 |
| CES21 = 85 | CES46 = 78 | CES71 = 55 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 68 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 78 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 51 | |



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Measure Comparisons



(END OF REPORT)