

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: P383446

Luminaire Tested: **GLEON-SA7C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39816.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

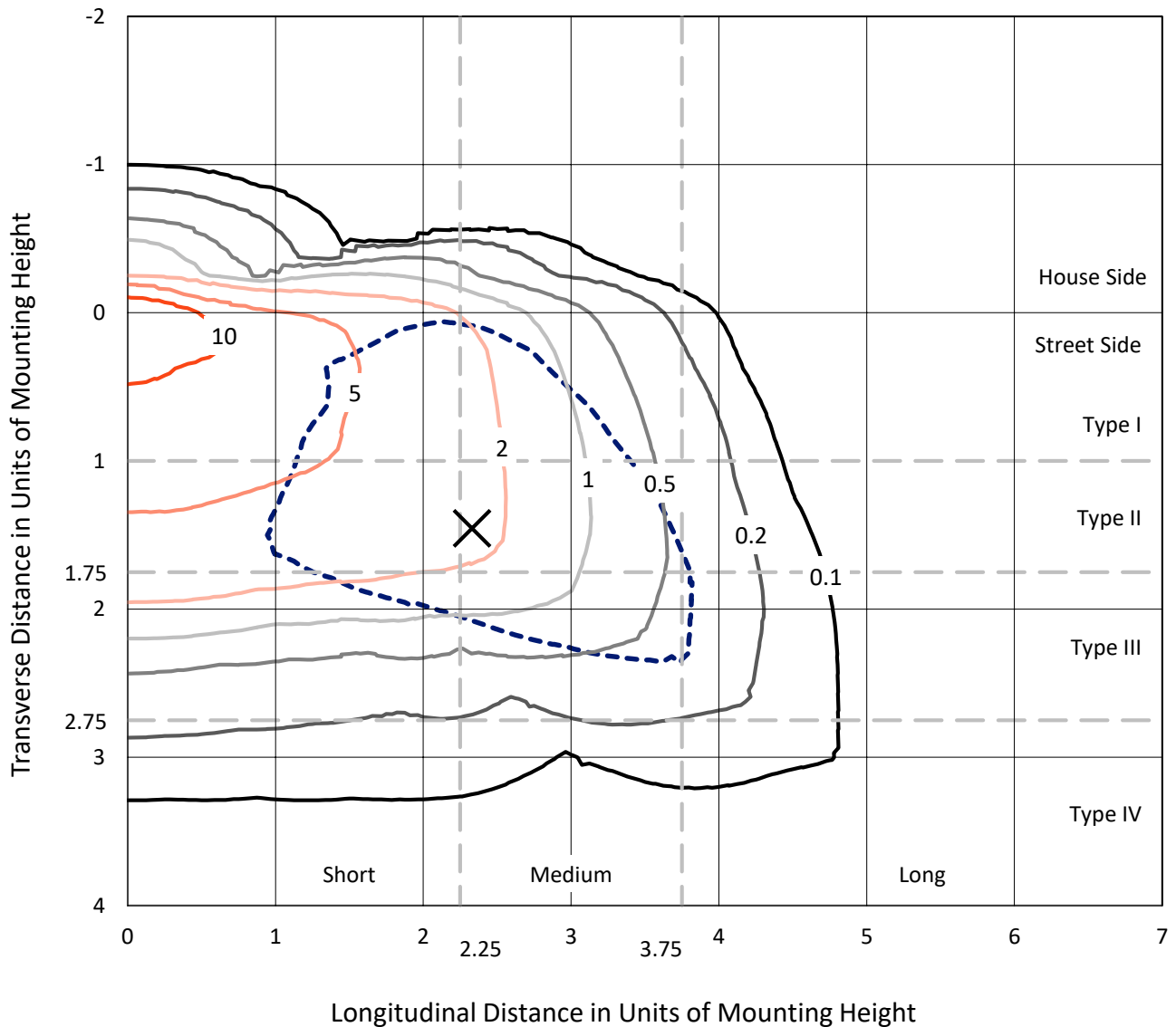
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

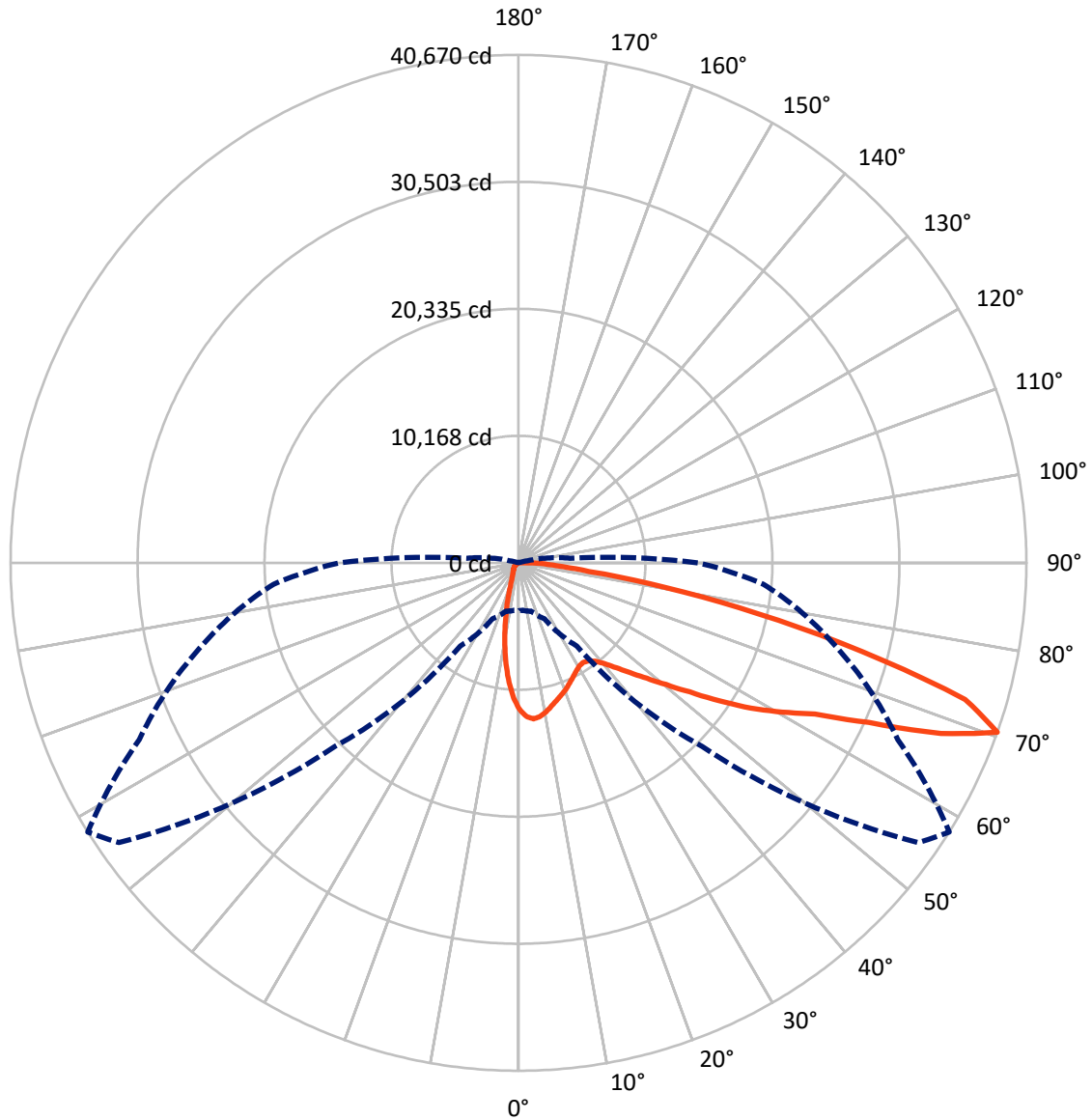
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3407.4 | 0.0 | 3407.4 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 36408.8 | 0.0 | 36408.8 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 39816.2 | 0.0 | 39816.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 961.8 | 2.4 |
| 10°-20° | 2018.6 | 5.1 |
| 20°-30° | 2653.7 | 6.7 |
| 30°-40° | 3514.6 | 8.8 |
| 40°-50° | 5253.2 | 13.2 |
| 50°-60° | 8415.4 | 21.1 |
| 60°-70° | 10607.5 | 26.6 |
| 70°-80° | 5721.7 | 14.4 |
| 80°-90° | 669.7 | 1.7 |
| 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° | 39816.2 | 100.0 |
| 0°-180° | 39816.2 | 100.0 |

Coefficient of Utilization

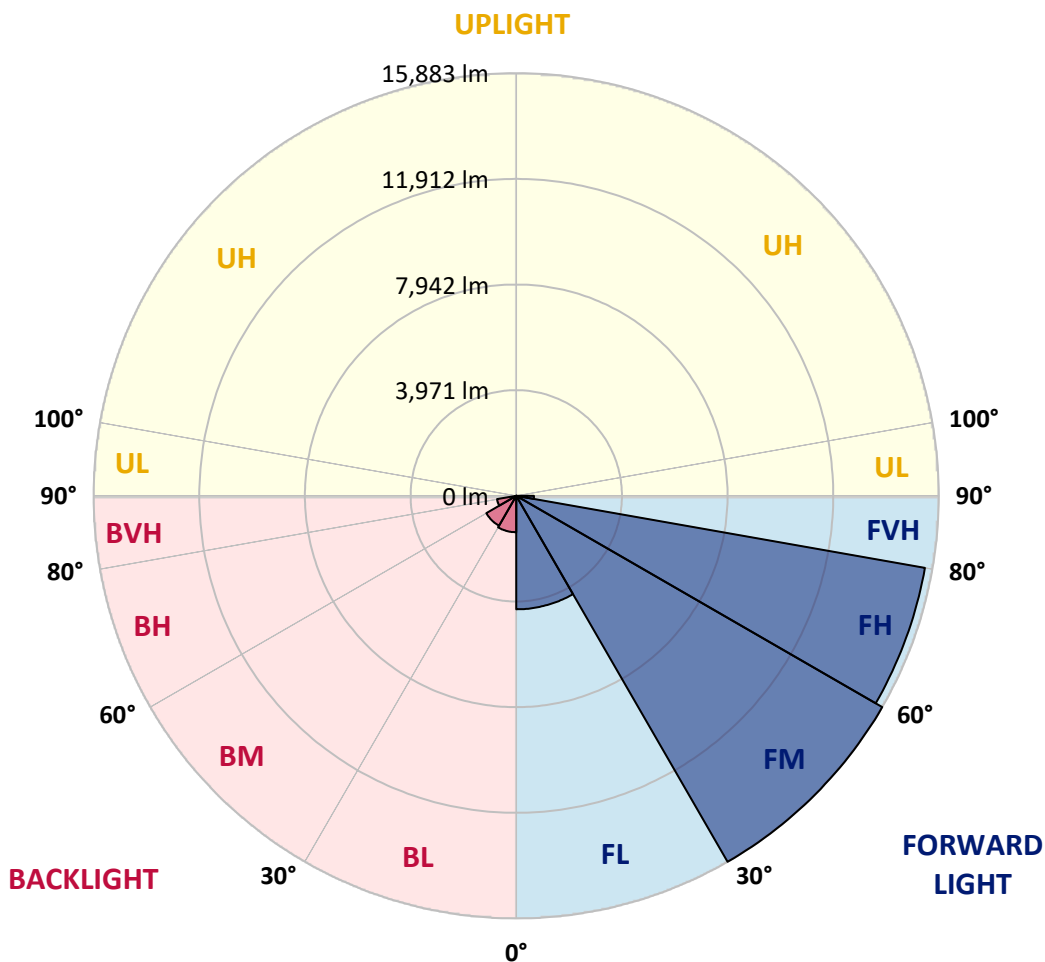


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4265.1 | 10.7 | | | |
| FM (30°-60°) | 15883.3 | 39.9 | | | |
| FH (60°-80°) | 15596.4 | 39.2 | | | G5 |
| FVH (80°-90°) | 664.0 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1369.0 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 1299.9 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 732.8 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 |
| 2.5° | 12736.7 | 12705.2 | 12693.6 | 12673.8 | 12597.6 | 12523.1 | 12375.8 | 12334.3 | 12241.7 | 12021.4 | 11788.0 |
| 5° | 12746.6 | 12745.0 | 12779.7 | 12771.4 | 12745.0 | 12710.2 | 12604.2 | 12549.6 | 12392.3 | 12077.7 | 11650.6 |
| 7.5° | 12132.4 | 12163.9 | 12241.7 | 12304.5 | 12377.4 | 12471.7 | 12485.1 | 12432.1 | 12302.9 | 11963.5 | 11397.3 |
| 10° | 11307.9 | 11357.5 | 11466.8 | 11591.0 | 11781.4 | 11970.1 | 12139.0 | 12132.4 | 12087.7 | 11753.2 | 11092.7 |
| 12.5° | 10481.7 | 10539.7 | 10665.5 | 10849.3 | 11119.1 | 11427.1 | 11728.4 | 11769.8 | 11844.3 | 11564.5 | 10811.2 |
| 15° | 9758.2 | 9807.9 | 9932.1 | 10157.2 | 10491.6 | 10905.5 | 11347.6 | 11423.8 | 11615.8 | 11417.1 | 10576.1 |
| 17.5° | 9144.0 | 9175.5 | 9266.5 | 9516.5 | 9903.9 | 10405.6 | 10980.1 | 11129.1 | 11415.5 | 11301.3 | 10372.4 |
| 20° | 8715.2 | 8720.1 | 8779.7 | 8955.2 | 9342.7 | 9903.9 | 10599.2 | 10812.8 | 11203.5 | 11202.0 | 10162.2 |
| 22.5° | 8503.3 | 8486.7 | 8498.3 | 8599.3 | 8884.1 | 9425.4 | 10218.5 | 10471.8 | 11013.2 | 11117.5 | 9948.6 |
| 25° | 8463.5 | 8450.3 | 8417.2 | 8430.4 | 8602.6 | 9006.6 | 9834.3 | 10127.4 | 10845.9 | 11066.1 | 9763.2 |
| 27.5° | 8587.7 | 8601.0 | 8544.6 | 8485.1 | 8498.3 | 8735.0 | 9493.3 | 9832.8 | 10710.2 | 11066.1 | 9632.4 |
| 30° | 8837.7 | 8844.3 | 8802.9 | 8725.2 | 8620.8 | 8658.9 | 9256.6 | 9596.0 | 10642.3 | 11142.3 | 9549.6 |
| 32.5° | 9114.2 | 9150.6 | 9145.7 | 9082.7 | 8933.7 | 8779.7 | 9200.2 | 9509.9 | 10637.3 | 11311.2 | 9541.4 |
| 35° | 9456.9 | 9498.2 | 9567.8 | 9554.6 | 9398.9 | 9145.7 | 9392.3 | 9635.7 | 10735.1 | 11589.3 | 9630.7 |
| 37.5° | 9821.1 | 9884.1 | 10033.0 | 10104.2 | 10003.2 | 9716.8 | 9822.8 | 9996.6 | 10996.6 | 12039.7 | 9857.5 |
| 40° | 10173.8 | 10245.0 | 10516.5 | 10796.3 | 10720.2 | 10425.4 | 10475.1 | 10614.1 | 11461.9 | 12687.0 | 10288.0 |
| 42.5° | 10519.8 | 10625.8 | 11024.8 | 11485.1 | 11576.1 | 11341.0 | 11367.5 | 11478.4 | 12152.2 | 13577.8 | 10991.7 |
| 45° | 10933.7 | 11052.9 | 11644.0 | 12211.8 | 12455.3 | 12352.6 | 12465.1 | 12538.0 | 13054.5 | 14754.9 | 11940.3 |
| 47.5° | 11541.3 | 11678.7 | 12403.9 | 13051.3 | 13478.4 | 13544.6 | 13771.4 | 13819.4 | 14195.3 | 16125.7 | 13177.1 |
| 50° | 12726.7 | 12764.8 | 13420.4 | 14008.2 | 14624.1 | 15021.4 | 15279.7 | 15316.1 | 15576.0 | 17624.0 | 14721.8 |
| 52.5° | 14218.5 | 14243.3 | 14614.1 | 15008.2 | 15708.5 | 16519.8 | 17124.1 | 17175.4 | 17230.0 | 19084.3 | 16246.6 |
| 55° | 15700.2 | 15696.9 | 15941.9 | 16173.7 | 16975.0 | 18153.9 | 19465.2 | 19496.5 | 19104.2 | 20470.1 | 17412.1 |
| 57.5° | 16625.7 | 16715.1 | 17087.7 | 17385.7 | 18504.8 | 20016.4 | 21835.9 | 21951.8 | 21072.7 | 21496.6 | 18564.4 |
| 60° | 16331.1 | 16374.1 | 17200.2 | 18302.9 | 20410.5 | 22663.8 | 24235.0 | 24264.8 | 22552.9 | 22521.4 | 20021.4 |
| 62.5° | 13913.8 | 13937.0 | 15235.0 | 17508.2 | 21375.7 | 26097.5 | 27129.0 | 26643.8 | 24254.8 | 23943.6 | 21764.8 |
| 65° | 9536.3 | 9687.1 | 10771.5 | 13581.0 | 19602.6 | 28251.5 | 31609.1 | 30806.1 | 26849.2 | 25993.3 | 23340.9 |
| 67.5° | 5615.8 | 5584.4 | 6120.8 | 8190.4 | 14397.3 | 26821.0 | 37276.2 | 36478.3 | 30387.3 | 27365.7 | 22879.0 |
| 70° | 3836.1 | 3814.5 | 4019.8 | 4958.5 | 8127.5 | 20806.2 | 39059.3 | 40670.3 | 33511.4 | 26441.9 | 19690.3 |
| 72.5° | 2738.4 | 2750.0 | 3053.0 | 3852.6 | 5102.6 | 12122.4 | 33589.2 | 37402.1 | 32532.9 | 23051.1 | 14966.8 |
| 75° | 1859.3 | 1890.8 | 2324.5 | 3160.6 | 4473.5 | 6167.2 | 23836.0 | 28432.0 | 26491.5 | 16753.2 | 8602.6 |
| 77.5° | 1000.0 | 1034.8 | 1546.4 | 2546.4 | 4044.7 | 4284.7 | 15332.7 | 19567.8 | 16640.6 | 7531.4 | 2493.4 |
| 80° | 417.2 | 437.1 | 723.5 | 1851.0 | 3495.0 | 3763.3 | 9021.5 | 11865.9 | 7091.0 | 1485.1 | 556.3 |
| 82.5° | 180.4 | 190.4 | 301.4 | 1104.3 | 2612.5 | 3177.1 | 4776.4 | 5708.6 | 2149.0 | 326.1 | 279.8 |
| 85° | 34.7 | 36.4 | 124.2 | 584.5 | 1667.2 | 1793.0 | 3096.0 | 3034.8 | 965.3 | 140.8 | 203.6 |
| 87.5° | 0.0 | 0.0 | 29.8 | 183.8 | 490.1 | 976.8 | 1889.1 | 1865.9 | 327.8 | 67.9 | 76.2 |
| 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: GLEON-SA7C-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 | 11761.5 |
| 2.5° | 11668.8 | 11554.5 | 11314.5 | 11018.2 | 10791.3 | 10541.3 | 10342.7 | 10091.0 | 9981.7 | 9986.7 | 9927.1 |
| 5° | 11407.2 | 11172.1 | 10640.7 | 9970.2 | 9453.6 | 8920.5 | 8461.9 | 8004.9 | 7735.0 | 7647.3 | 7564.5 |
| 7.5° | 11033.1 | 10660.5 | 9812.8 | 8779.7 | 7905.6 | 7051.3 | 6307.9 | 5653.9 | 5240.0 | 5038.1 | 4963.6 |
| 10° | 10610.9 | 10087.7 | 8860.9 | 7500.0 | 6251.6 | 5096.0 | 4132.4 | 3294.7 | 2960.3 | 2733.4 | 2675.5 |
| 12.5° | 10240.0 | 9531.4 | 7930.5 | 6187.1 | 4705.2 | 3311.3 | 2392.4 | 1870.8 | 1644.0 | 1554.7 | 1539.8 |
| 15° | 9890.7 | 9011.5 | 7034.8 | 4998.3 | 3258.3 | 2038.0 | 1521.5 | 1344.3 | 1291.4 | 1276.5 | 1276.5 |
| 17.5° | 9561.2 | 8516.5 | 6158.9 | 3827.8 | 2155.6 | 1428.8 | 1259.9 | 1220.2 | 1203.7 | 1202.0 | 1203.7 |
| 20° | 9216.8 | 8021.5 | 5298.0 | 2804.6 | 1504.9 | 1210.3 | 1163.9 | 1142.4 | 1137.4 | 1137.4 | 1137.4 |
| 22.5° | 8887.3 | 7526.4 | 4460.2 | 2003.3 | 1206.9 | 1104.3 | 1081.2 | 1066.2 | 1061.2 | 1059.6 | 1056.3 |
| 25° | 8571.2 | 7056.3 | 3642.4 | 1415.6 | 1059.6 | 1011.6 | 991.7 | 971.9 | 957.0 | 948.7 | 943.7 |
| 27.5° | 8311.2 | 6637.4 | 2880.8 | 1135.7 | 957.0 | 915.5 | 890.7 | 860.9 | 824.5 | 807.9 | 801.3 |
| 30° | 8104.3 | 6255.0 | 2220.2 | 958.6 | 860.9 | 819.6 | 781.5 | 730.1 | 677.1 | 649.0 | 647.3 |
| 32.5° | 7942.0 | 5879.1 | 1685.4 | 847.7 | 774.9 | 723.5 | 668.9 | 604.3 | 543.0 | 511.6 | 509.9 |
| 35° | 7862.5 | 5548.0 | 1288.1 | 766.6 | 698.7 | 634.1 | 566.2 | 495.0 | 435.4 | 405.6 | 402.3 |
| 37.5° | 7915.5 | 5268.2 | 1005.0 | 698.7 | 634.1 | 559.6 | 480.1 | 405.6 | 352.7 | 326.1 | 324.5 |
| 40° | 8109.2 | 5089.4 | 816.2 | 640.7 | 579.4 | 488.4 | 402.3 | 332.7 | 288.0 | 266.5 | 264.9 |
| 42.5° | 8521.5 | 5023.2 | 697.0 | 592.7 | 526.5 | 422.2 | 334.4 | 274.8 | 233.4 | 218.5 | 215.2 |
| 45° | 9210.2 | 5120.8 | 615.8 | 546.4 | 471.8 | 359.3 | 276.5 | 225.2 | 188.7 | 177.2 | 175.5 |
| 47.5° | 10127.4 | 5377.5 | 557.9 | 501.6 | 422.2 | 302.9 | 230.1 | 182.1 | 154.0 | 142.3 | 140.8 |
| 50° | 11309.5 | 5784.7 | 509.9 | 456.9 | 375.8 | 256.6 | 190.4 | 144.0 | 119.2 | 110.9 | 110.9 |
| 52.5° | 12595.9 | 6269.9 | 466.9 | 415.6 | 329.5 | 213.6 | 154.0 | 110.9 | 94.4 | 84.4 | 84.4 |
| 55° | 13658.8 | 6693.6 | 420.5 | 384.1 | 273.2 | 177.2 | 117.6 | 84.4 | 69.5 | 64.6 | 64.6 |
| 57.5° | 14720.1 | 7145.6 | 367.6 | 329.5 | 218.5 | 144.0 | 89.4 | 62.9 | 51.3 | 48.0 | 48.0 |
| 60° | 16095.9 | 7698.6 | 316.3 | 268.2 | 172.1 | 109.3 | 66.2 | 44.7 | 38.1 | 36.4 | 36.4 |
| 62.5° | 17609.1 | 8023.1 | 269.9 | 215.2 | 134.1 | 81.1 | 48.0 | 29.8 | 28.1 | 28.1 | 26.5 |
| 65° | 18534.6 | 7564.5 | 226.8 | 172.1 | 104.3 | 61.3 | 31.5 | 21.5 | 24.9 | 23.2 | 19.8 |
| 67.5° | 17354.2 | 5922.1 | 185.5 | 134.1 | 81.1 | 46.4 | 19.8 | 14.9 | 26.5 | 21.5 | 16.6 |
| 70° | 14369.1 | 4145.7 | 144.0 | 94.4 | 64.6 | 39.8 | 13.2 | 10.0 | 28.1 | 21.5 | 13.2 |
| 72.5° | 10753.2 | 2774.8 | 114.2 | 62.9 | 48.0 | 34.7 | 11.6 | 4.9 | 24.9 | 18.3 | 11.6 |
| 75° | 5875.8 | 1117.6 | 91.1 | 39.8 | 29.8 | 24.9 | 8.3 | 3.4 | 16.6 | 13.2 | 8.3 |
| 77.5° | 1546.4 | 294.7 | 66.2 | 26.5 | 16.6 | 10.0 | 4.9 | 1.7 | 8.3 | 6.6 | 3.4 |
| 80° | 394.0 | 114.2 | 43.0 | 18.3 | 11.6 | 4.9 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 |
| 82.5° | 210.3 | 48.0 | 26.5 | 13.2 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 158.9 | 31.5 | 14.9 | 8.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 61.3 | 10.0 | 4.9 | 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 |

(END OF REPORT)