

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: P383604

Luminaire Tested: **GLEON-SA8D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41986.7 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

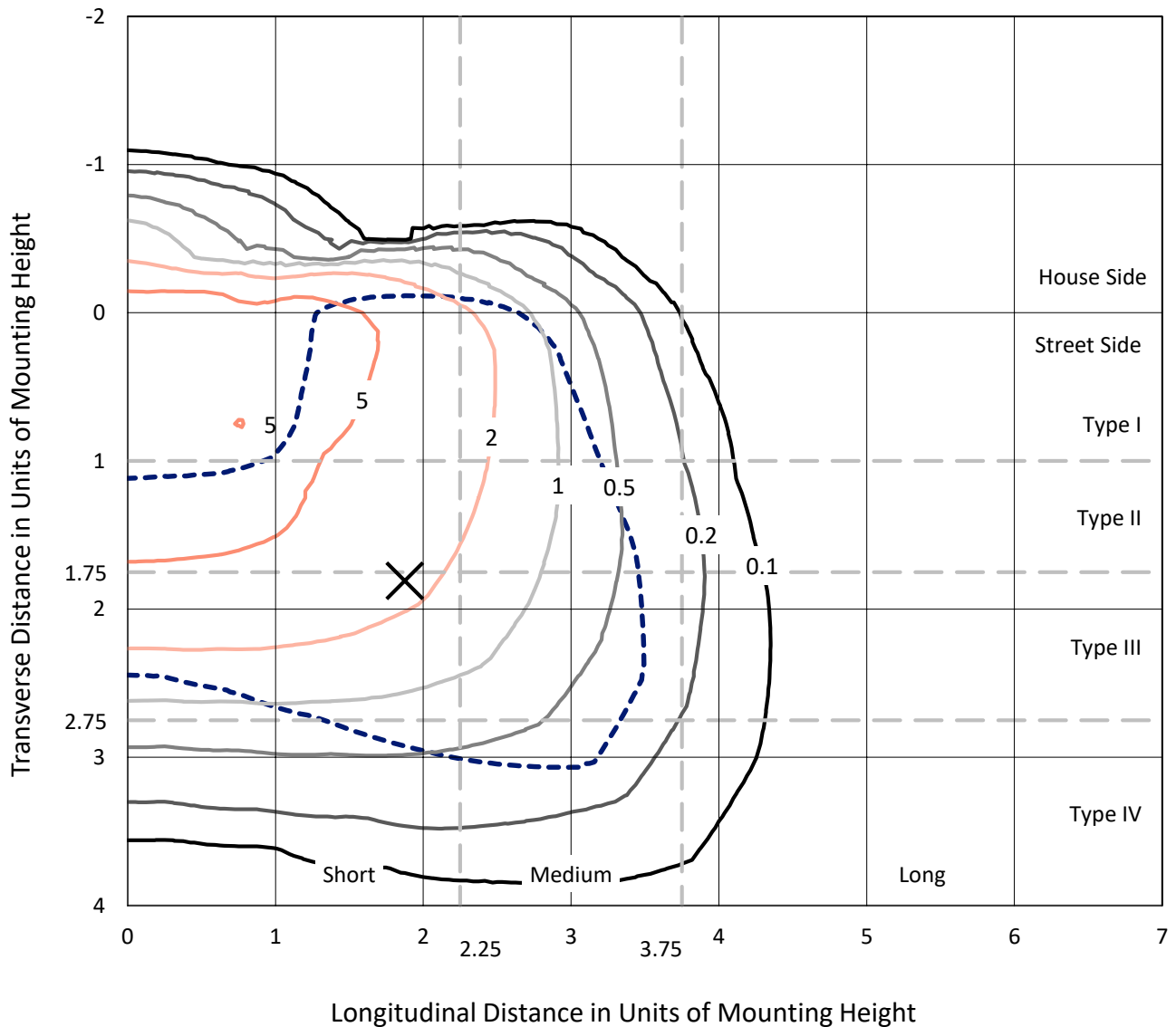
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

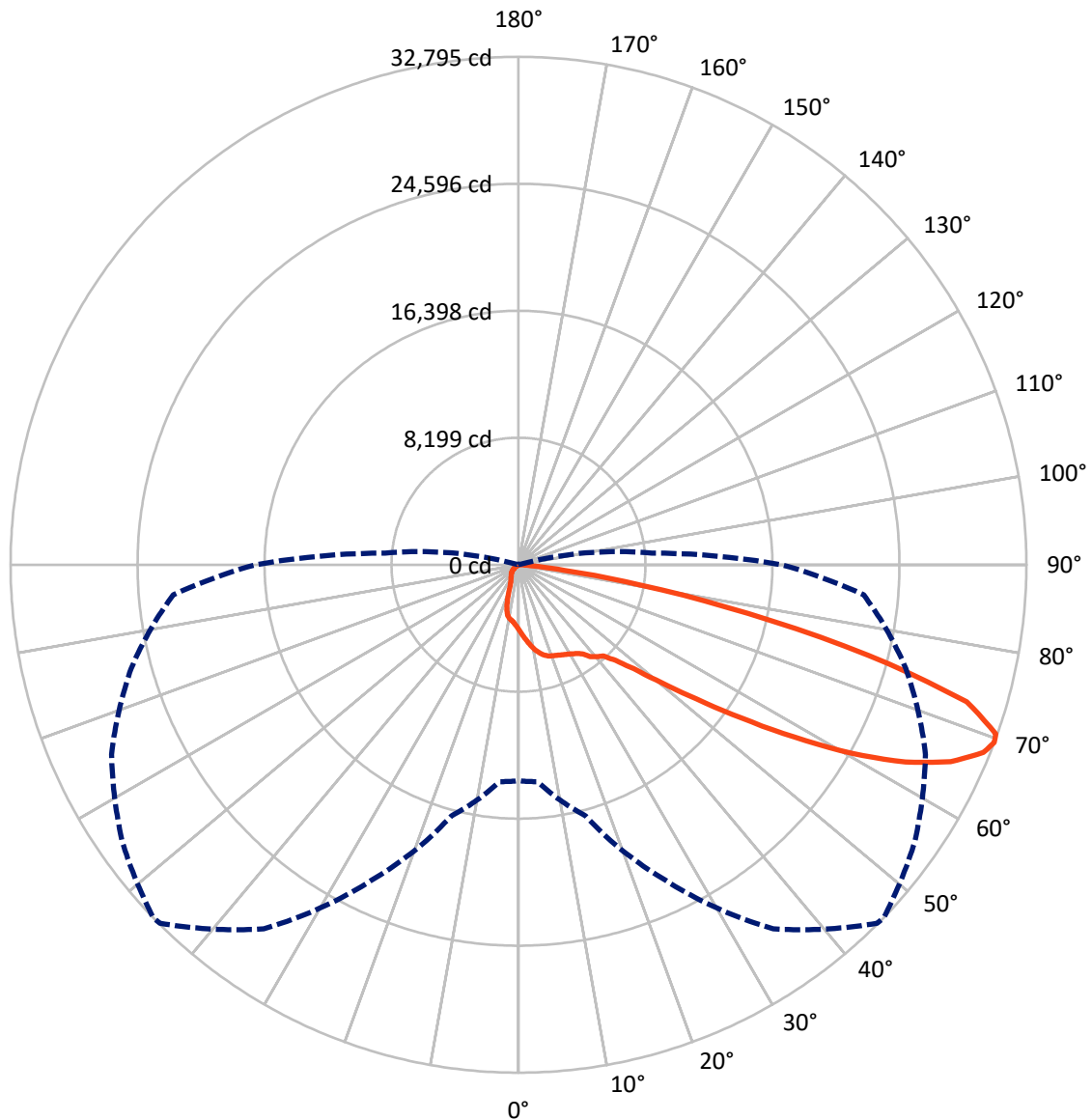
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4309.0 | 0.0 | 4309.0 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 37677.8 | 0.0 | 37677.8 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 41986.7 | 0.0 | 41986.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 418.7 | 1.0 |
| 10°-20° | 1270.3 | 3.0 |
| 20°-30° | 1997.8 | 4.8 |
| 30°-40° | 2864.9 | 6.8 |
| 40°-50° | 4951.6 | 11.8 |
| 50°-60° | 9782.3 | 23.3 |
| 60°-70° | 13671.6 | 32.6 |
| 70°-80° | 6604.9 | 15.7 |
| 80°-90° | 424.5 | 1.0 |
| 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° | 41986.7 | 100.0 |
| 0°-180° | 41986.7 | 100.0 |

Coefficient of Utilization

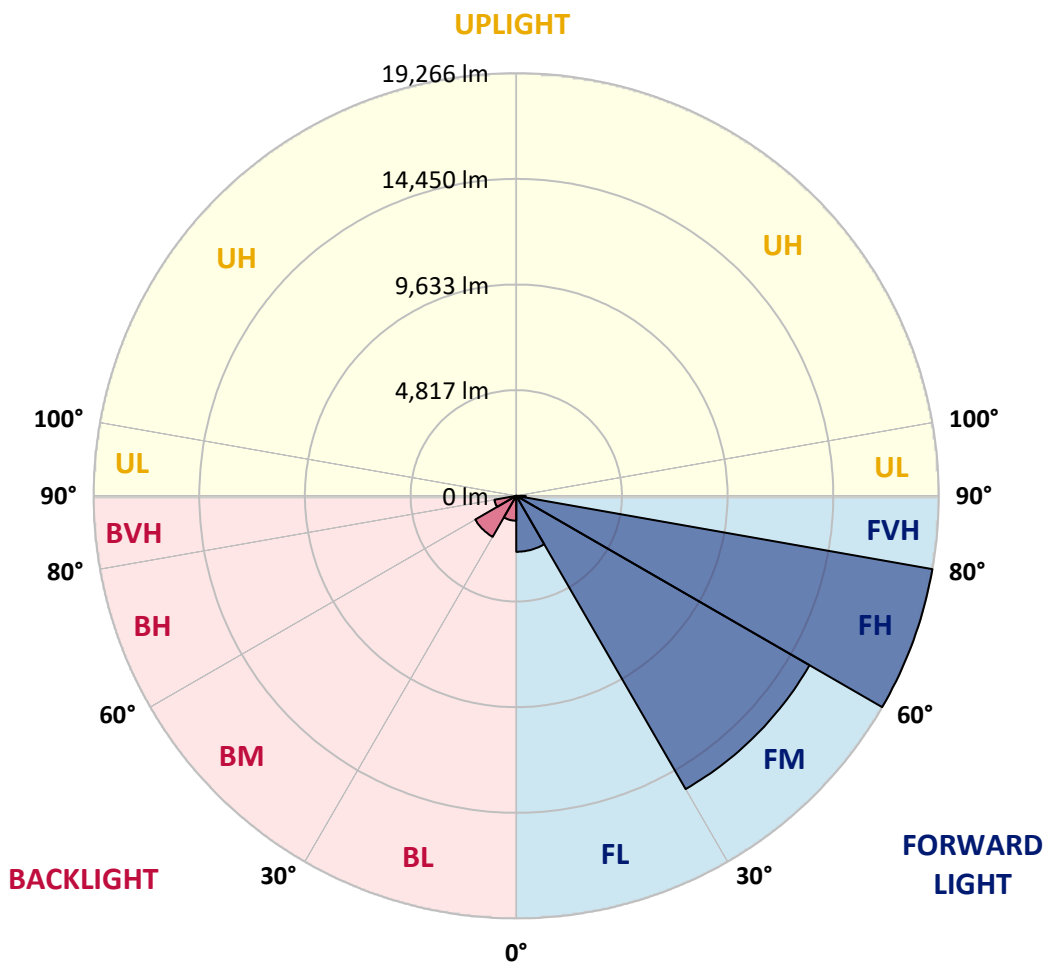


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2551.2 | 6.1 | | | |
| FM (30°-60°) | 15439.4 | 36.8 | | | |
| FH (60°-80°) | 19266.2 | 45.9 | | | G5 |
| FVH (80°-90°) | 421.0 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1135.7 | 2.7 | B3/2500 | | |
| BM (30°-60°) | 2159.3 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 1010.4 | 2.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 3.6 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 |
| 2.5° | 4673.5 | 4667.5 | 4640.0 | 4628.2 | 4561.2 | 4521.9 | 4506.2 | 4456.9 | 4386.1 | 4315.2 | 4236.4 |
| 5° | 5205.0 | 5203.1 | 5151.8 | 5102.6 | 4976.6 | 4858.5 | 4836.9 | 4722.7 | 4563.2 | 4413.6 | 4264.0 |
| 7.5° | 5748.3 | 5722.8 | 5671.5 | 5577.1 | 5393.9 | 5205.0 | 5187.3 | 5025.9 | 4799.4 | 4582.9 | 4368.3 |
| 10° | 6209.0 | 6193.2 | 6126.3 | 5982.6 | 5768.0 | 5553.4 | 5531.8 | 5332.9 | 5077.0 | 4811.3 | 4537.7 |
| 12.5° | 6567.2 | 6555.5 | 6466.9 | 6287.8 | 6059.3 | 5836.9 | 5807.4 | 5630.2 | 5356.6 | 5059.3 | 4736.5 |
| 15° | 6785.8 | 6779.9 | 6671.7 | 6480.7 | 6256.3 | 6063.4 | 6037.7 | 5882.2 | 5628.2 | 5317.2 | 4953.0 |
| 17.5° | 6837.0 | 6839.0 | 6726.7 | 6533.8 | 6348.8 | 6210.9 | 6191.3 | 6073.1 | 5860.6 | 5551.5 | 5169.5 |
| 20° | 6722.8 | 6746.5 | 6646.0 | 6478.7 | 6364.5 | 6291.7 | 6275.9 | 6205.0 | 6025.9 | 5734.5 | 5342.8 |
| 22.5° | 6561.4 | 6573.2 | 6504.3 | 6392.1 | 6344.9 | 6358.6 | 6350.7 | 6311.3 | 6159.8 | 5892.0 | 5514.1 |
| 25° | 6462.9 | 6462.9 | 6421.6 | 6327.1 | 6358.6 | 6443.2 | 6445.2 | 6437.4 | 6317.3 | 6085.0 | 5722.8 |
| 27.5° | 6459.0 | 6447.1 | 6399.9 | 6329.0 | 6415.7 | 6545.6 | 6553.5 | 6606.6 | 6531.8 | 6319.2 | 5982.6 |
| 30° | 6616.5 | 6602.7 | 6502.3 | 6409.8 | 6520.0 | 6659.8 | 6679.5 | 6795.6 | 6758.2 | 6573.2 | 6272.0 |
| 32.5° | 6984.7 | 6935.4 | 6712.9 | 6561.4 | 6644.1 | 6811.4 | 6837.0 | 7022.0 | 7081.1 | 6886.2 | 6551.5 |
| 35° | 7488.6 | 7333.0 | 7012.1 | 6848.7 | 6856.7 | 7031.9 | 7055.4 | 7327.2 | 7502.4 | 7173.6 | 6768.1 |
| 37.5° | 8183.5 | 8106.7 | 7585.0 | 7148.0 | 7183.4 | 7449.2 | 7518.1 | 7813.4 | 7764.2 | 7331.1 | 7014.2 |
| 40° | 9707.2 | 9587.1 | 9032.0 | 7986.6 | 7496.4 | 7787.8 | 7809.4 | 7967.0 | 7970.9 | 7687.4 | 7526.0 |
| 42.5° | 11782.1 | 11732.9 | 11148.2 | 9508.4 | 8112.7 | 8014.2 | 8053.6 | 8319.4 | 8616.6 | 8439.4 | 8431.5 |
| 45° | 14079.5 | 14053.9 | 13433.8 | 11528.2 | 9358.8 | 8756.4 | 8805.5 | 9161.9 | 9730.9 | 9770.2 | 10020.2 |
| 47.5° | 15928.0 | 15916.1 | 15559.8 | 13782.2 | 11266.3 | 10014.3 | 10030.1 | 10408.0 | 11408.1 | 11902.2 | 12301.8 |
| 50° | 17613.1 | 17670.2 | 17388.7 | 16221.3 | 13864.9 | 11984.9 | 11947.5 | 12199.5 | 13805.8 | 14615.0 | 15111.0 |
| 52.5° | 19955.8 | 20036.5 | 19247.1 | 18497.0 | 16591.4 | 14429.9 | 14400.3 | 14664.1 | 16687.8 | 17294.2 | 17382.8 |
| 55° | 22024.8 | 21887.0 | 21262.9 | 21046.4 | 19916.4 | 17449.7 | 17441.8 | 17674.2 | 19475.4 | 19733.3 | 19896.7 |
| 57.5° | 22938.2 | 22885.1 | 23186.2 | 23682.4 | 23398.9 | 21018.8 | 21001.1 | 20823.9 | 21969.6 | 21997.2 | 22499.2 |
| 60° | 23515.0 | 23580.0 | 24503.2 | 26032.8 | 26739.6 | 24859.6 | 24745.4 | 23664.7 | 24351.7 | 24290.7 | 24828.1 |
| 62.5° | 23081.9 | 23209.9 | 24871.4 | 27420.8 | 29239.7 | 28212.1 | 28050.7 | 26267.1 | 26387.2 | 26176.6 | 26676.5 |
| 65° | 20782.5 | 20981.4 | 23704.0 | 27158.9 | 30480.0 | 30832.3 | 30668.9 | 28564.5 | 28003.4 | 27657.0 | 27379.4 |
| 67.5° | 16874.9 | 16993.0 | 19835.7 | 24881.2 | 29920.8 | 32395.4 | 32362.0 | 30578.3 | 29224.0 | 27407.0 | 25253.3 |
| 69° | 13945.6 | 14061.7 | 16798.1 | 22483.5 | 28690.5 | 32730.0 | 32795.0 | 31224.1 | 28991.6 | 25887.1 | 22375.2 |
| 70° | 11811.7 | 11935.6 | 14485.0 | 20428.2 | 27263.2 | 32574.5 | 32690.7 | 31163.1 | 28326.3 | 24127.3 | 19849.4 |
| 72.5° | 6195.2 | 6301.5 | 8917.8 | 14073.5 | 22225.6 | 29911.0 | 30263.4 | 28529.0 | 24011.1 | 17522.6 | 11736.8 |
| 75° | 1946.9 | 2008.0 | 3482.5 | 7356.7 | 15217.3 | 23257.1 | 23337.8 | 22379.1 | 17050.1 | 9638.3 | 4888.0 |
| 77.5° | 742.2 | 724.5 | 1159.5 | 2710.8 | 7693.3 | 14644.5 | 15138.6 | 13985.0 | 8947.3 | 3407.7 | 1128.0 |
| 80° | 399.6 | 401.6 | 602.4 | 1122.1 | 3291.5 | 7526.0 | 7943.3 | 6777.9 | 3179.3 | 1063.1 | 259.9 |
| 82.5° | 173.3 | 181.1 | 338.6 | 594.5 | 1511.9 | 2775.7 | 2984.4 | 2484.3 | 1214.6 | 714.6 | 96.4 |
| 85° | 37.4 | 41.4 | 163.4 | 322.9 | 616.2 | 779.6 | 817.0 | 805.1 | 773.7 | 555.1 | 37.4 |
| 87.5° | 0.0 | 0.0 | 72.8 | 116.2 | 155.5 | 177.2 | 155.5 | 202.8 | 427.2 | 374.0 | 19.7 |
| 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: GLEON-SA8D-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 | 4206.9 |
| 2.5° | 4210.9 | 4175.4 | 4114.4 | 4047.5 | 4000.3 | 3951.0 | 3911.7 | 3893.9 | 3874.2 | 3860.4 | 3878.1 |
| 5° | 4203.0 | 4134.1 | 4016.0 | 3901.8 | 3819.1 | 3752.2 | 3697.0 | 3675.4 | 3653.7 | 3638.0 | 3636.0 |
| 7.5° | 4271.9 | 4175.4 | 3994.3 | 3827.0 | 3699.0 | 3608.4 | 3533.6 | 3502.2 | 3476.5 | 3464.7 | 3454.9 |
| 10° | 4403.8 | 4279.7 | 4037.6 | 3819.1 | 3653.7 | 3500.2 | 3338.8 | 3214.8 | 3134.0 | 3096.7 | 3082.9 |
| 12.5° | 4575.0 | 4419.5 | 4120.3 | 3860.4 | 3620.3 | 3325.0 | 2982.4 | 2687.1 | 2496.2 | 2433.2 | 2395.8 |
| 15° | 4775.9 | 4582.9 | 4228.6 | 3913.6 | 3498.2 | 2958.8 | 2378.1 | 1992.2 | 1815.0 | 1779.6 | 1740.2 |
| 17.5° | 4968.8 | 4756.1 | 4358.5 | 3923.4 | 3230.5 | 2364.3 | 1742.2 | 1480.4 | 1411.5 | 1435.1 | 1441.0 |
| 20° | 5138.0 | 4927.4 | 4486.4 | 3836.9 | 2744.2 | 1773.8 | 1348.5 | 1283.5 | 1309.1 | 1354.4 | 1362.3 |
| 22.5° | 5309.4 | 5092.8 | 4604.5 | 3608.4 | 2122.2 | 1346.6 | 1214.6 | 1230.4 | 1256.0 | 1301.3 | 1309.1 |
| 25° | 5518.0 | 5293.6 | 4714.8 | 3189.2 | 1592.6 | 1145.7 | 1153.6 | 1177.2 | 1202.8 | 1244.2 | 1248.1 |
| 27.5° | 5758.2 | 5547.6 | 4787.7 | 2643.8 | 1181.2 | 1053.2 | 1078.8 | 1114.2 | 1139.8 | 1179.2 | 1187.1 |
| 30° | 6077.0 | 5882.2 | 4811.3 | 2078.8 | 990.2 | 970.5 | 982.3 | 1025.6 | 1063.1 | 1098.5 | 1104.3 |
| 32.5° | 6376.4 | 6213.0 | 4732.5 | 1569.0 | 917.4 | 893.7 | 893.7 | 919.3 | 962.7 | 996.1 | 1004.0 |
| 35° | 6651.9 | 6545.6 | 4480.6 | 1147.7 | 862.2 | 822.8 | 803.2 | 803.2 | 830.8 | 858.3 | 866.2 |
| 37.5° | 7016.1 | 7012.1 | 4073.0 | 915.4 | 809.1 | 763.8 | 722.5 | 691.0 | 681.1 | 687.0 | 691.0 |
| 40° | 7640.2 | 7646.0 | 3541.6 | 820.9 | 763.8 | 702.8 | 639.8 | 582.7 | 529.6 | 511.8 | 509.8 |
| 42.5° | 8614.6 | 8526.0 | 2984.4 | 775.6 | 724.5 | 639.8 | 545.3 | 468.6 | 385.8 | 360.2 | 358.3 |
| 45° | 10162.0 | 9636.3 | 2393.8 | 734.2 | 683.1 | 568.9 | 450.8 | 346.4 | 279.6 | 259.9 | 259.9 |
| 47.5° | 12416.0 | 11095.1 | 1854.4 | 689.0 | 628.0 | 488.2 | 340.6 | 250.0 | 204.8 | 194.9 | 196.8 |
| 50° | 14746.9 | 12524.3 | 1421.4 | 632.0 | 561.1 | 403.5 | 252.0 | 181.1 | 155.5 | 155.5 | 157.5 |
| 52.5° | 16813.9 | 13571.5 | 1108.4 | 570.9 | 478.3 | 316.9 | 191.0 | 141.8 | 130.0 | 128.0 | 130.0 |
| 55° | 18749.0 | 14246.8 | 848.5 | 500.1 | 380.0 | 236.2 | 145.7 | 116.2 | 108.2 | 104.3 | 102.4 |
| 57.5° | 20615.2 | 14581.4 | 635.9 | 403.5 | 275.6 | 171.3 | 116.2 | 98.5 | 90.5 | 84.7 | 82.7 |
| 60° | 21857.5 | 14309.8 | 437.0 | 297.3 | 191.0 | 124.0 | 96.4 | 84.7 | 74.8 | 68.9 | 67.0 |
| 62.5° | 22558.3 | 13567.6 | 281.5 | 214.5 | 135.8 | 92.5 | 76.8 | 70.9 | 57.1 | 51.1 | 51.1 |
| 65° | 22274.8 | 12343.2 | 196.8 | 153.5 | 98.5 | 68.9 | 57.1 | 57.1 | 41.4 | 33.4 | 31.5 |
| 67.5° | 19739.2 | 10427.7 | 149.6 | 114.2 | 70.9 | 51.1 | 43.3 | 49.2 | 25.6 | 15.7 | 15.7 |
| 69° | 16983.1 | 8642.2 | 128.0 | 94.5 | 59.1 | 41.4 | 37.4 | 45.3 | 17.7 | 11.8 | 9.9 |
| 70° | 14760.7 | 7455.1 | 116.2 | 82.7 | 49.2 | 35.4 | 33.4 | 43.3 | 17.7 | 9.9 | 7.9 |
| 72.5° | 8831.2 | 4157.7 | 88.6 | 59.1 | 31.5 | 27.6 | 27.6 | 49.2 | 17.7 | 9.9 | 7.9 |
| 75° | 3569.0 | 1464.7 | 64.9 | 41.4 | 23.7 | 23.7 | 33.4 | 63.0 | 15.7 | 7.9 | 5.9 |
| 77.5° | 809.1 | 320.9 | 37.4 | 25.6 | 15.7 | 23.7 | 39.4 | 49.2 | 9.9 | 3.9 | 0.0 |
| 80° | 196.8 | 78.7 | 23.7 | 15.7 | 9.9 | 17.7 | 29.5 | 27.6 | 2.0 | 0.0 | 0.0 |
| 82.5° | 64.9 | 27.6 | 9.9 | 7.9 | 2.0 | 5.9 | 13.8 | 7.9 | 0.0 | 0.0 | 0.0 |
| 85° | 27.6 | 15.7 | 3.9 | 2.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.7 | 5.9 | 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 |

(END OF REPORT)