

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: P383602

Luminaire Tested: **GLEON-SA8D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41137.1 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

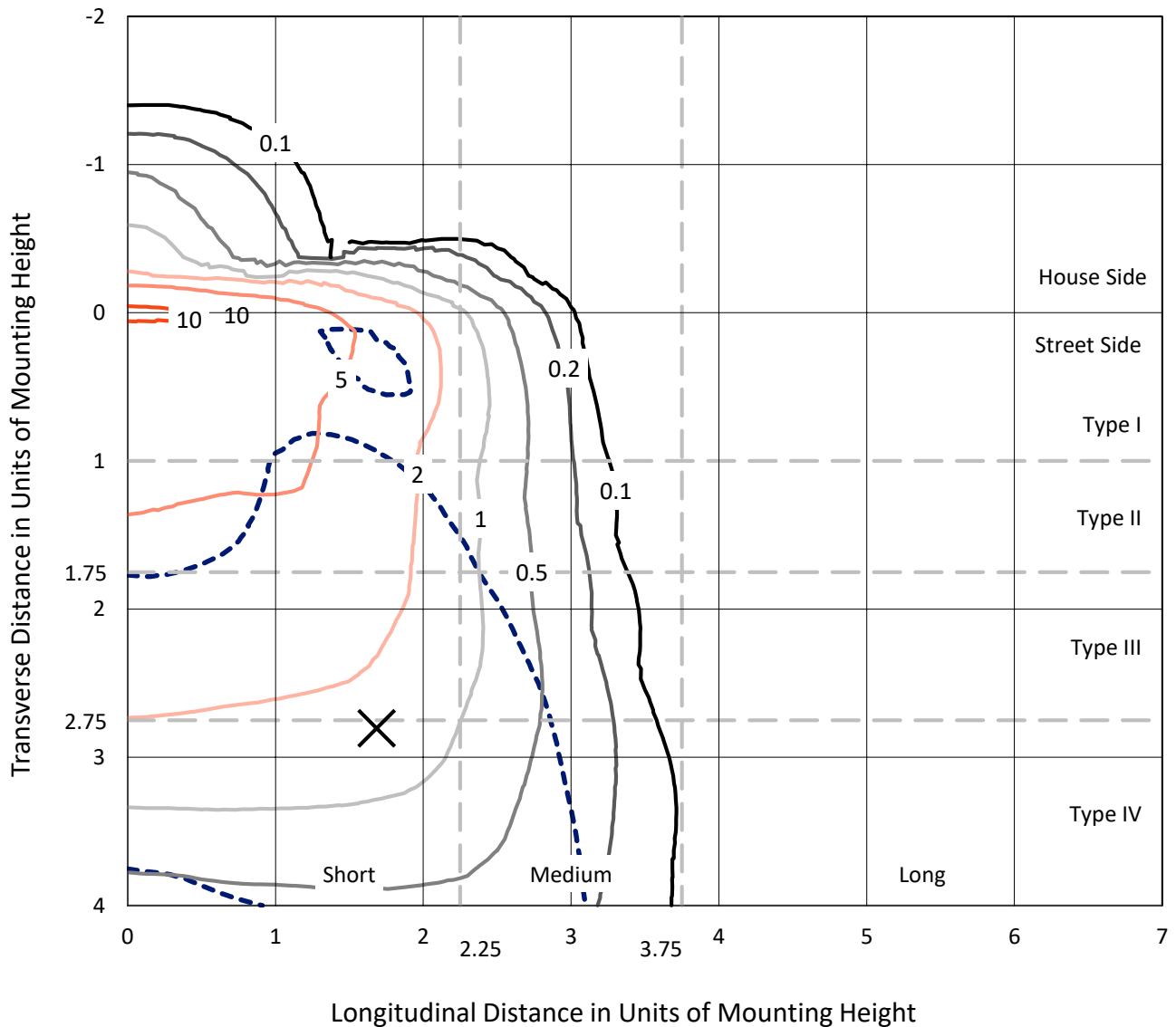
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

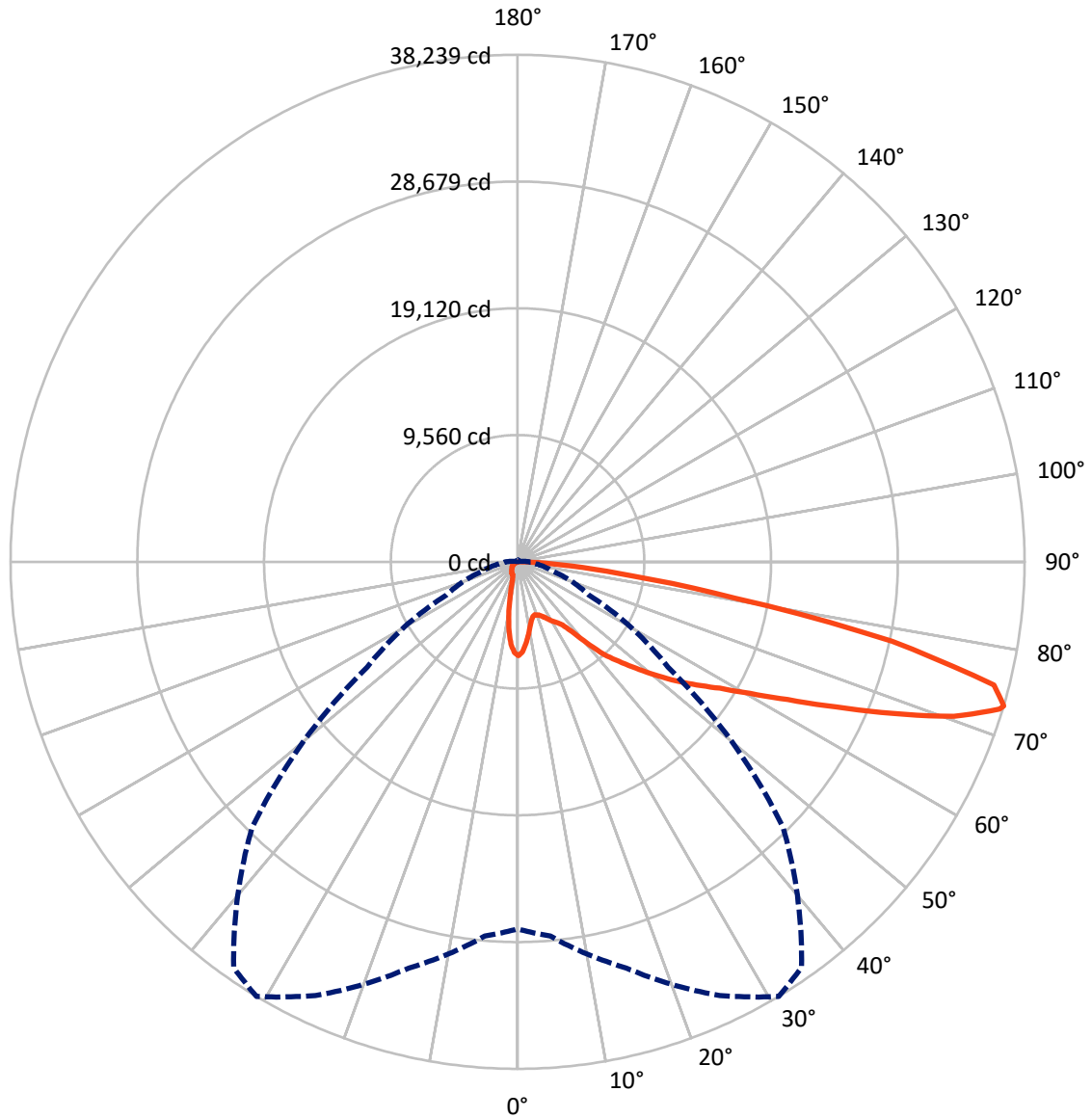
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3749.8 | 0.0 | 3749.8 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 37387.4 | 0.0 | 37387.4 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 41137.1 | 0.0 | 41137.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 586.8 | 1.4 |
| 10°-20° | 1274.2 | 3.1 |
| 20°-30° | 1909.1 | 4.6 |
| 30°-40° | 3037.4 | 7.4 |
| 40°-50° | 5424.0 | 13.2 |
| 50°-60° | 8416.5 | 20.5 |
| 60°-70° | 11188.6 | 27.2 |
| 70°-80° | 8416.1 | 20.5 |
| 80°-90° | 884.4 | 2.1 |
| 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° | 41137.1 | 100.0 |
| 0°-180° | 41137.1 | 100.0 |

Coefficient of Utilization



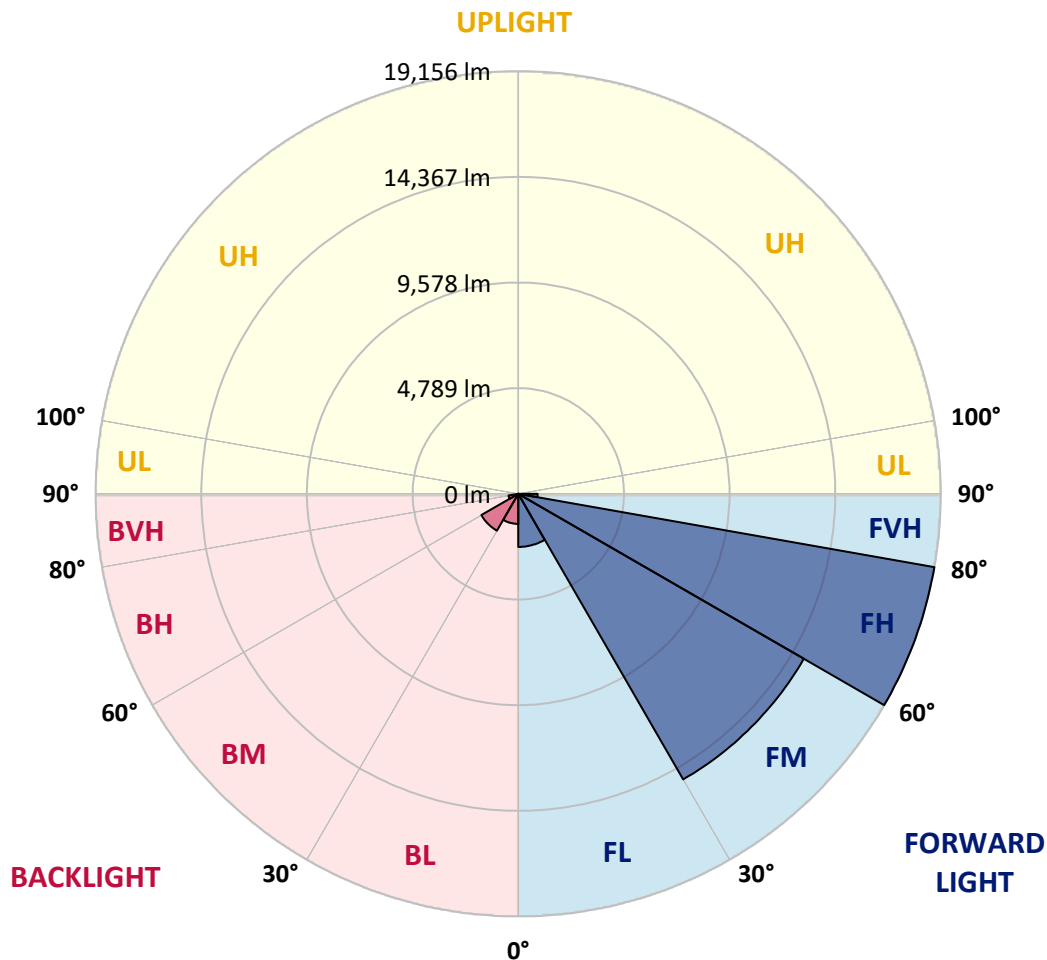
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2406.6 | 5.9 | | | |
| FM (30°-60°) | 14947.8 | 36.3 | | | |
| FH (60°-80°) | 19156.0 | 46.6 | | | G5 |
| FVH (80°-90°) | 876.9 | 2.1 | | | G5 |
| BL (0°-30°) | 1363.6 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 1930.1 | 4.7 | B2/2500 | | |
| BH (60°-80°) | 448.6 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.4 | 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° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 |
| 2.5° | 6707.3 | 6735.6 | 6765.7 | 6771.8 | 6822.1 | 6824.1 | 6896.5 | 6950.9 | 7005.2 | 7057.6 | 7075.8 |
| 5° | 6018.9 | 6065.2 | 6119.5 | 6173.9 | 6280.6 | 6322.9 | 6500.0 | 6681.2 | 6854.3 | 7019.4 | 7099.9 |
| 7.5° | 5284.1 | 5336.5 | 5412.9 | 5547.8 | 5666.6 | 5749.1 | 6029.0 | 6351.0 | 6673.1 | 6977.1 | 7152.2 |
| 10° | 4613.8 | 4662.1 | 4742.6 | 4885.6 | 5068.7 | 5181.5 | 5557.9 | 6004.8 | 6477.9 | 6938.8 | 7230.7 |
| 12.5° | 4187.0 | 4213.2 | 4257.5 | 4410.5 | 4575.6 | 4702.4 | 5145.2 | 5698.8 | 6316.8 | 6936.9 | 7357.5 |
| 15° | 4108.6 | 4116.6 | 4080.4 | 4148.8 | 4277.7 | 4400.4 | 4849.4 | 5451.2 | 6194.0 | 6969.0 | 7522.6 |
| 17.5° | 4233.3 | 4229.3 | 4108.6 | 4100.5 | 4203.1 | 4303.8 | 4704.4 | 5280.1 | 6107.5 | 7043.5 | 7735.9 |
| 20° | 4422.6 | 4408.5 | 4199.1 | 4160.9 | 4269.6 | 4364.2 | 4694.3 | 5215.7 | 6075.3 | 7168.4 | 7995.7 |
| 22.5° | 4674.2 | 4650.0 | 4321.9 | 4281.7 | 4398.4 | 4497.0 | 4819.2 | 5278.1 | 6103.4 | 7335.4 | 8297.6 |
| 25° | 4986.2 | 4950.0 | 4533.3 | 4489.0 | 4607.8 | 4706.4 | 5042.6 | 5457.3 | 6188.0 | 7538.7 | 8680.1 |
| 27.5° | 5338.5 | 5286.2 | 4871.4 | 4756.8 | 4891.6 | 4994.3 | 5340.5 | 5731.1 | 6320.8 | 7754.1 | 9149.1 |
| 30° | 5670.6 | 5602.2 | 5227.8 | 5038.6 | 5203.6 | 5318.4 | 5662.6 | 6057.1 | 6534.2 | 8086.2 | 9791.2 |
| 32.5° | 6004.8 | 5928.3 | 5545.9 | 5320.3 | 5469.3 | 5594.1 | 5994.7 | 6506.0 | 6934.8 | 8593.5 | 10644.8 |
| 35° | 6773.7 | 6693.3 | 6224.2 | 5851.8 | 5849.8 | 5920.3 | 6459.7 | 7120.0 | 7464.2 | 9300.1 | 11663.3 |
| 37.5° | 8068.1 | 8021.8 | 7575.0 | 6868.4 | 6679.2 | 6600.7 | 7093.8 | 7852.8 | 8225.1 | 10272.4 | 12812.8 |
| 40° | 9485.3 | 9445.1 | 8943.8 | 8303.6 | 8015.8 | 7822.6 | 8003.7 | 8873.4 | 9300.1 | 11460.1 | 13986.3 |
| 42.5° | 11085.6 | 10894.4 | 10000.6 | 9809.4 | 9551.7 | 9404.7 | 9241.7 | 10131.4 | 10620.6 | 12752.4 | 15149.9 |
| 45° | 12539.0 | 12217.0 | 11057.5 | 10767.6 | 10709.2 | 10745.4 | 10836.0 | 11822.4 | 12106.2 | 14288.4 | 16309.3 |
| 47.5° | 13404.6 | 13150.9 | 12261.2 | 11983.4 | 11967.3 | 12206.9 | 12891.3 | 13732.7 | 13585.8 | 15627.0 | 17330.0 |
| 50° | 14227.9 | 13998.5 | 13259.6 | 13328.1 | 13402.6 | 13728.7 | 15224.4 | 15697.4 | 14936.5 | 16840.8 | 18266.0 |
| 52.5° | 14894.2 | 14544.0 | 14157.5 | 14541.9 | 14908.3 | 15433.7 | 17632.0 | 17460.8 | 15894.7 | 17807.1 | 19067.2 |
| 55° | 15278.7 | 15119.7 | 15306.9 | 15693.4 | 16381.8 | 17235.4 | 19904.6 | 18928.3 | 16595.2 | 18688.7 | 19600.6 |
| 57.5° | 16687.8 | 16375.8 | 16748.2 | 17082.3 | 17980.2 | 19173.9 | 21851.2 | 20021.4 | 17100.5 | 19234.3 | 19723.5 |
| 60° | 18392.8 | 18141.2 | 18360.6 | 18916.2 | 20128.0 | 21531.1 | 23670.9 | 20913.2 | 17364.2 | 19584.6 | 19405.3 |
| 62.5° | 21106.4 | 20774.3 | 20637.3 | 21259.3 | 22865.8 | 24397.6 | 25051.8 | 21531.1 | 17305.8 | 19429.6 | 18314.3 |
| 65° | 24741.9 | 24397.6 | 23785.7 | 24349.4 | 26392.5 | 27473.5 | 26595.9 | 21661.9 | 16903.2 | 18175.4 | 15556.5 |
| 67.5° | 28466.0 | 28216.3 | 27693.0 | 28643.0 | 30486.9 | 30835.3 | 28228.4 | 21343.9 | 15606.9 | 14737.2 | 10991.1 |
| 70° | 30925.8 | 30819.1 | 31159.3 | 33260.9 | 34905.6 | 34804.9 | 29726.1 | 19634.9 | 12164.6 | 9062.6 | 5437.2 |
| 72.5° | 29152.3 | 29663.6 | 32175.9 | 35986.5 | 37995.5 | 37174.2 | 28957.1 | 15077.4 | 6952.9 | 3486.5 | 1572.2 |
| 73° | 27682.9 | 28337.1 | 31718.9 | 36089.2 | 38239.1 | 37339.2 | 28310.9 | 13839.4 | 5926.3 | 2751.8 | 1191.7 |
| 75° | 19258.4 | 20061.6 | 26259.7 | 33611.2 | 37099.7 | 35575.9 | 23598.4 | 8470.7 | 2745.7 | 1219.9 | 481.1 |
| 77.5° | 9350.4 | 9944.3 | 14459.4 | 24284.9 | 28852.5 | 27795.6 | 14690.9 | 3156.4 | 1240.0 | 762.9 | 221.4 |
| 80° | 3490.5 | 3881.1 | 6276.6 | 12359.9 | 16673.8 | 17110.6 | 6461.8 | 1193.7 | 825.4 | 614.0 | 112.7 |
| 82.5° | 913.9 | 1018.6 | 2315.0 | 5511.6 | 8545.2 | 8943.8 | 2037.2 | 601.9 | 603.9 | 505.3 | 68.5 |
| 85° | 291.9 | 334.1 | 722.7 | 2474.0 | 4026.1 | 3534.9 | 531.4 | 291.9 | 438.9 | 376.4 | 38.3 |
| 87.5° | 36.2 | 46.3 | 229.4 | 581.8 | 887.8 | 493.2 | 82.5 | 86.5 | 187.2 | 209.3 | 22.2 |
| 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-SA8D-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 | 7077.7 |
| 2.5° | 7093.8 | 7083.8 | 7085.8 | 7033.5 | 6999.2 | 6930.8 | 6860.3 | 6828.2 | 6793.9 | 6779.8 | 6793.9 |
| 5° | 7130.1 | 7112.0 | 7059.6 | 6898.6 | 6727.5 | 6506.0 | 6298.7 | 6141.7 | 5944.4 | 5890.1 | 5946.4 |
| 7.5° | 7186.4 | 7150.2 | 6997.2 | 6669.1 | 6288.6 | 5865.9 | 5390.9 | 5044.6 | 4760.8 | 4577.5 | 4644.0 |
| 10° | 7269.0 | 7200.5 | 6892.5 | 6334.9 | 5654.5 | 4905.7 | 4231.4 | 3706.0 | 3333.5 | 3180.6 | 3174.5 |
| 12.5° | 7407.9 | 7279.0 | 6763.7 | 5900.1 | 4879.5 | 3881.1 | 2997.3 | 2427.7 | 2125.7 | 1930.4 | 1926.4 |
| 15° | 7560.8 | 7371.6 | 6600.7 | 5378.8 | 3977.7 | 2779.9 | 1930.4 | 1497.6 | 1302.4 | 1240.0 | 1232.0 |
| 17.5° | 7748.1 | 7478.3 | 6389.3 | 4736.6 | 3033.6 | 1841.9 | 1260.1 | 1135.4 | 1127.3 | 1121.2 | 1121.2 |
| 20° | 7983.5 | 7605.2 | 6117.6 | 4001.8 | 2151.9 | 1229.9 | 1070.9 | 1079.0 | 1083.0 | 1074.9 | 1077.0 |
| 22.5° | 8257.3 | 7734.0 | 5793.4 | 3212.7 | 1455.4 | 1028.6 | 1024.6 | 1034.7 | 1038.7 | 1034.7 | 1036.7 |
| 25° | 8575.4 | 7882.9 | 5398.9 | 2385.4 | 1050.8 | 976.3 | 986.4 | 1000.5 | 1010.5 | 1010.5 | 1010.5 |
| 27.5° | 8970.0 | 8064.1 | 4923.8 | 1664.8 | 907.9 | 922.0 | 950.2 | 976.3 | 990.4 | 994.4 | 994.4 |
| 30° | 9483.2 | 8289.6 | 4354.1 | 1141.3 | 825.4 | 849.5 | 901.8 | 952.1 | 978.3 | 982.3 | 984.4 |
| 32.5° | 10131.4 | 8543.2 | 3693.9 | 843.4 | 754.8 | 773.0 | 829.4 | 913.9 | 964.2 | 972.3 | 972.3 |
| 35° | 10874.2 | 8837.1 | 2983.3 | 734.7 | 704.5 | 710.6 | 754.8 | 851.5 | 940.1 | 962.2 | 964.2 |
| 37.5° | 11687.5 | 9126.9 | 2268.7 | 686.5 | 662.2 | 662.2 | 694.5 | 777.0 | 881.7 | 950.2 | 958.2 |
| 40° | 12446.4 | 9302.1 | 1590.2 | 648.2 | 624.0 | 624.0 | 652.2 | 712.6 | 811.3 | 913.9 | 936.0 |
| 42.5° | 13146.9 | 9362.5 | 1107.1 | 611.9 | 587.8 | 593.9 | 618.0 | 666.3 | 740.8 | 843.4 | 863.5 |
| 45° | 13867.6 | 9352.5 | 807.2 | 569.6 | 551.6 | 569.6 | 587.8 | 624.0 | 678.4 | 736.8 | 740.8 |
| 47.5° | 14411.1 | 9267.9 | 640.2 | 529.4 | 517.4 | 541.5 | 557.6 | 581.8 | 611.9 | 607.9 | 607.9 |
| 50° | 14920.4 | 9062.6 | 515.3 | 475.1 | 483.1 | 511.3 | 519.3 | 527.4 | 529.4 | 491.2 | 487.1 |
| 52.5° | 15306.9 | 8742.5 | 412.7 | 416.7 | 448.9 | 477.0 | 469.0 | 456.9 | 436.8 | 390.5 | 382.5 |
| 55° | 15435.7 | 8126.5 | 324.1 | 344.2 | 398.6 | 434.8 | 404.6 | 378.5 | 340.2 | 301.9 | 293.9 |
| 57.5° | 15202.2 | 7331.4 | 263.7 | 267.7 | 336.2 | 366.4 | 332.2 | 301.9 | 259.7 | 227.5 | 221.4 |
| 60° | 14707.0 | 6447.6 | 217.4 | 201.3 | 259.7 | 285.9 | 263.7 | 233.5 | 195.3 | 171.1 | 169.1 |
| 62.5° | 13724.7 | 5505.5 | 179.1 | 157.1 | 197.3 | 219.4 | 205.3 | 183.1 | 151.0 | 134.9 | 132.8 |
| 65° | 11659.3 | 4404.5 | 144.9 | 126.8 | 153.0 | 171.1 | 159.0 | 142.9 | 118.8 | 106.7 | 104.7 |
| 67.5° | 8138.6 | 2977.2 | 118.8 | 104.7 | 120.8 | 134.9 | 124.8 | 116.7 | 94.6 | 92.6 | 94.6 |
| 70° | 3925.4 | 1435.2 | 98.7 | 84.6 | 94.6 | 104.7 | 100.6 | 94.6 | 90.5 | 104.7 | 120.8 |
| 72.5° | 1125.3 | 481.1 | 78.5 | 70.4 | 76.5 | 82.5 | 86.5 | 84.6 | 98.7 | 126.8 | 146.9 |
| 73° | 865.6 | 388.5 | 74.5 | 66.4 | 72.5 | 80.5 | 84.6 | 82.5 | 100.6 | 128.8 | 146.9 |
| 75° | 370.4 | 187.2 | 56.4 | 54.3 | 60.4 | 70.4 | 74.5 | 74.5 | 100.6 | 130.9 | 140.9 |
| 77.5° | 167.1 | 100.6 | 36.2 | 42.3 | 52.4 | 56.4 | 62.4 | 62.4 | 80.5 | 100.6 | 100.6 |
| 80° | 94.6 | 54.3 | 28.2 | 32.2 | 38.3 | 38.3 | 38.3 | 34.2 | 36.2 | 40.2 | 44.2 |
| 82.5° | 60.4 | 36.2 | 22.2 | 26.2 | 24.1 | 20.1 | 16.1 | 16.1 | 14.1 | 16.1 | 20.1 |
| 85° | 34.2 | 20.1 | 20.1 | 16.1 | 10.1 | 8.0 | 10.1 | 8.0 | 2.0 | 0.0 | 2.0 |
| 87.5° | 20.1 | 12.1 | 6.1 | 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)