

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: P383660

Luminaire Tested: **GLEON-SA9B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383660
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-SA9B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 34494.3 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

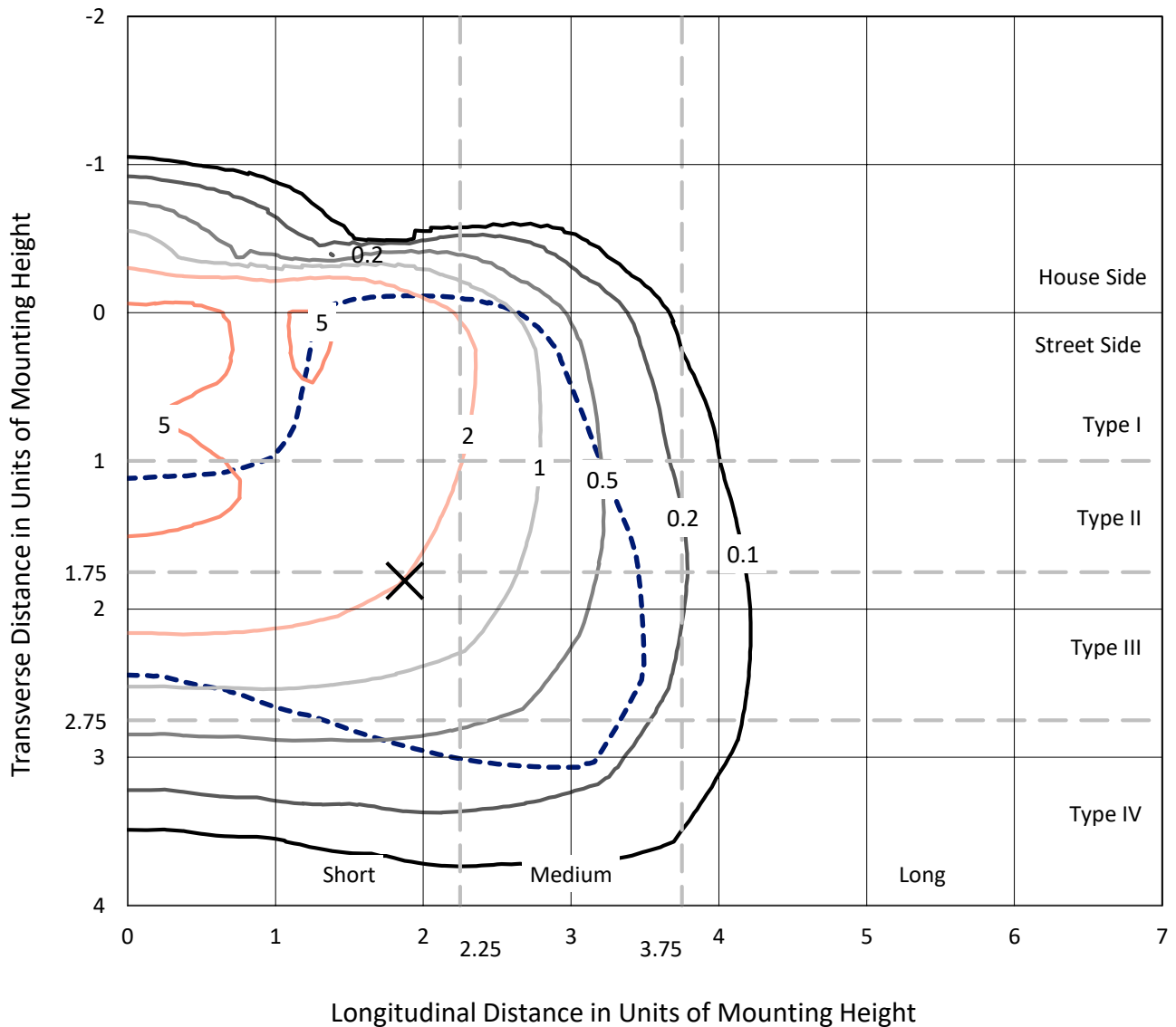
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

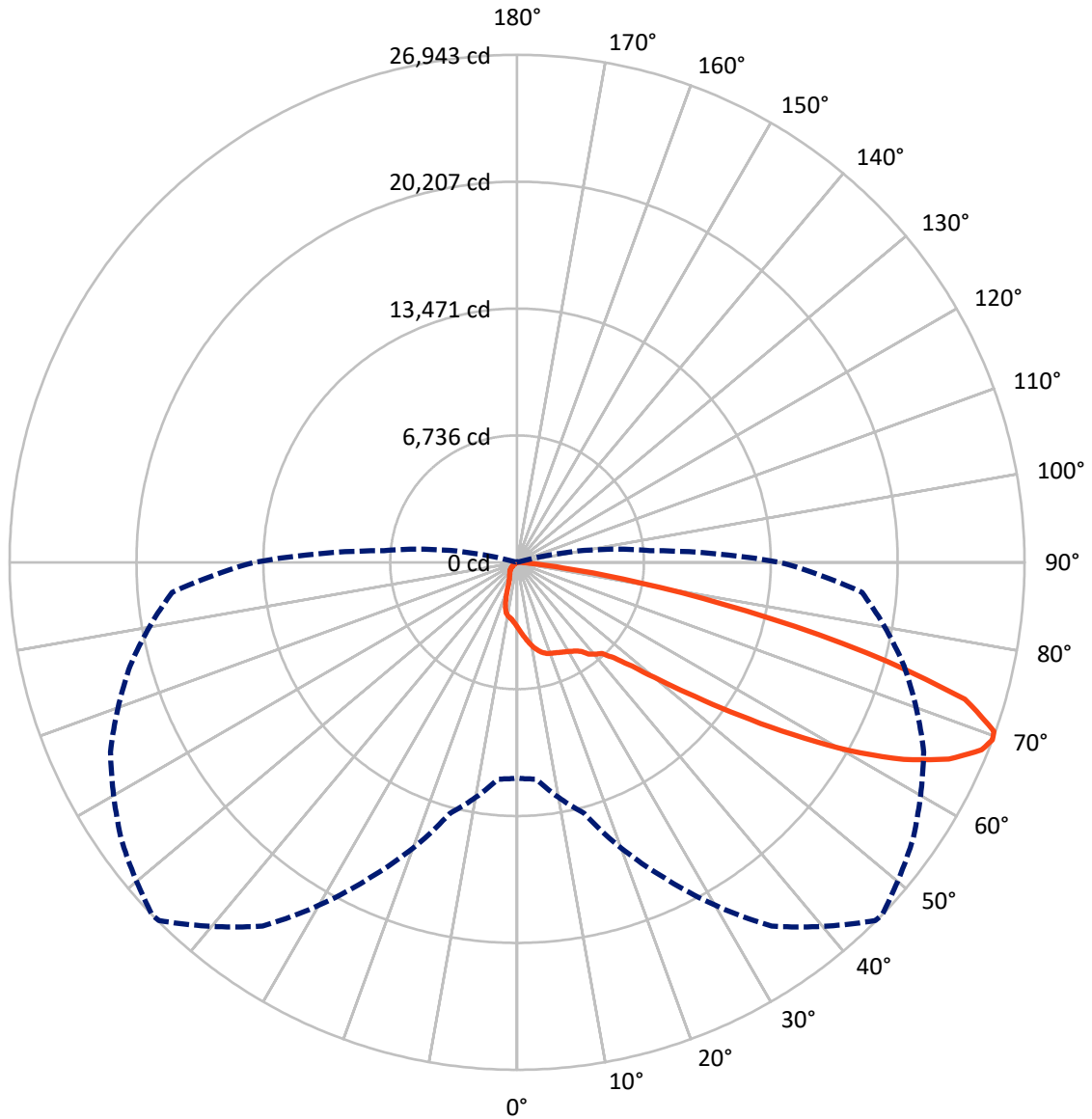
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 | 3540.0 | 0.0 | 3540.0 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 30954.2 | 0.0 | 30954.2 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 34494.3 | 0.0 | 34494.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 344.0 | 1.0 |
| 10°-20° | 1043.6 | 3.0 |
| 20°-30° | 1641.3 | 4.8 |
| 30°-40° | 2353.6 | 6.8 |
| 40°-50° | 4068.0 | 11.8 |
| 50°-60° | 8036.7 | 23.3 |
| 60°-70° | 11232.0 | 32.6 |
| 70°-80° | 5426.3 | 15.7 |
| 80°-90° | 348.8 | 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° | 34494.3 | 100.0 |
| 0°-180° | 34494.3 | 100.0 |

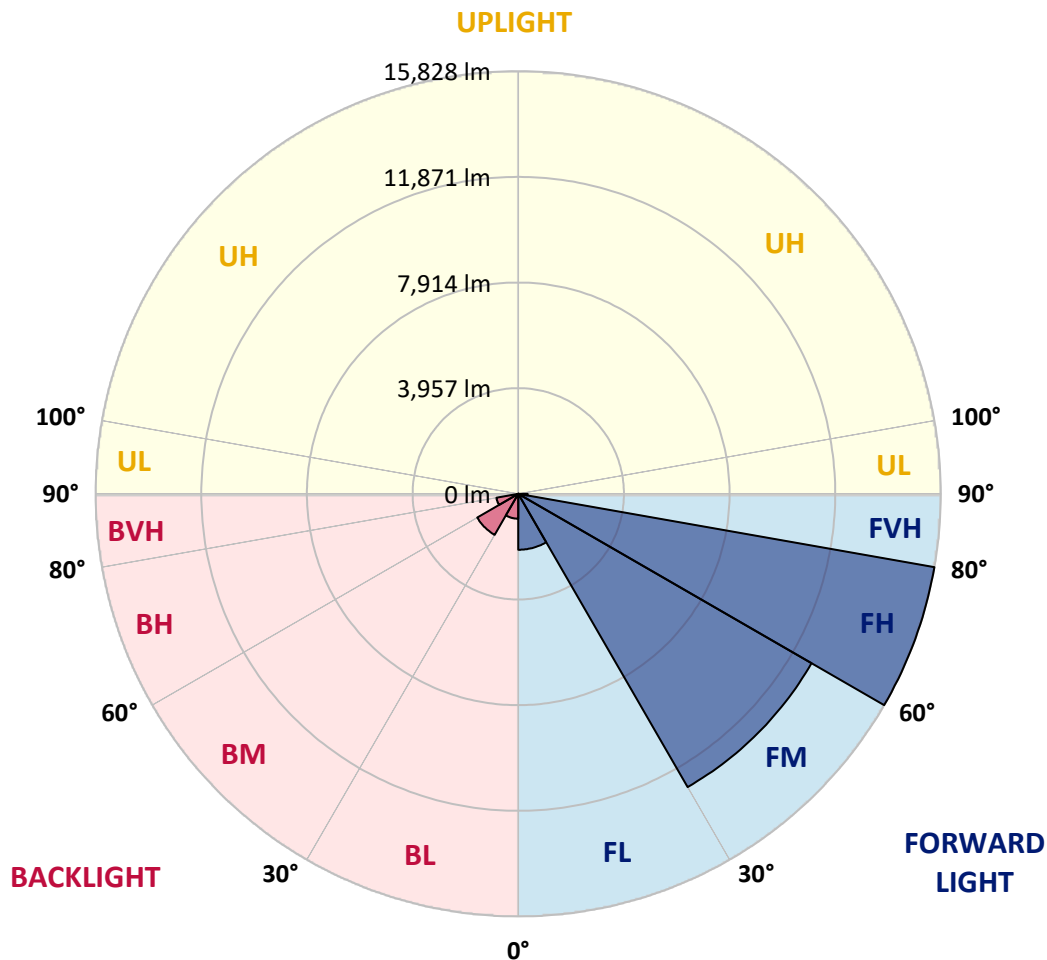


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2095.9 | 6.1 | | | |
| FM (30°-60°) | 12684.3 | 36.8 | | | |
| FH (60°-80°) | 15828.2 | 45.9 | | | G5 |
| FVH (80°-90°) | 345.8 | 1.0 | | | G3/500 |
| BL (0°-30°) | 933.0 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1774.0 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 830.1 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 |
| 2.5° | 3839.5 | 3834.6 | 3812.0 | 3802.3 | 3747.3 | 3715.0 | 3702.1 | 3661.6 | 3603.4 | 3545.2 | 3480.4 |
| 5° | 4276.2 | 4274.6 | 4232.5 | 4192.1 | 4088.6 | 3991.5 | 3973.7 | 3879.9 | 3748.9 | 3626.0 | 3503.1 |
| 7.5° | 4722.6 | 4701.5 | 4659.5 | 4581.8 | 4431.5 | 4276.2 | 4261.6 | 4129.0 | 3943.1 | 3765.1 | 3588.8 |
| 10° | 5101.0 | 5088.0 | 5033.1 | 4915.0 | 4738.7 | 4562.4 | 4544.6 | 4381.3 | 4171.0 | 3952.7 | 3727.9 |
| 12.5° | 5395.3 | 5385.6 | 5312.9 | 5165.7 | 4978.1 | 4795.3 | 4771.1 | 4625.5 | 4400.7 | 4156.5 | 3891.3 |
| 15° | 5574.8 | 5570.0 | 5481.0 | 5324.2 | 5139.8 | 4981.4 | 4960.3 | 4832.5 | 4623.9 | 4368.4 | 4069.2 |
| 17.5° | 5617.0 | 5618.5 | 5526.3 | 5367.9 | 5215.8 | 5102.6 | 5086.4 | 4989.4 | 4814.7 | 4560.9 | 4247.0 |
| 20° | 5523.1 | 5542.5 | 5460.1 | 5322.6 | 5228.8 | 5169.0 | 5156.0 | 5097.8 | 4950.6 | 4711.2 | 4389.4 |
| 22.5° | 5390.5 | 5400.2 | 5343.6 | 5251.4 | 5212.6 | 5223.9 | 5217.4 | 5185.1 | 5060.5 | 4840.6 | 4530.1 |
| 25° | 5309.6 | 5309.6 | 5275.6 | 5198.0 | 5223.9 | 5293.4 | 5295.1 | 5288.6 | 5189.9 | 4999.2 | 4701.5 |
| 27.5° | 5306.4 | 5296.7 | 5257.8 | 5199.6 | 5270.8 | 5377.5 | 5384.1 | 5427.7 | 5366.3 | 5191.6 | 4915.0 |
| 30° | 5435.8 | 5424.5 | 5342.0 | 5265.9 | 5356.6 | 5471.4 | 5487.6 | 5583.0 | 5552.2 | 5400.2 | 5152.8 |
| 32.5° | 5738.2 | 5697.8 | 5515.0 | 5390.5 | 5458.4 | 5595.9 | 5617.0 | 5769.0 | 5817.5 | 5657.4 | 5382.4 |
| 35° | 6152.2 | 6024.5 | 5760.9 | 5626.6 | 5633.1 | 5777.1 | 5796.5 | 6019.7 | 6163.6 | 5893.5 | 5560.3 |
| 37.5° | 6723.2 | 6660.1 | 6231.5 | 5872.5 | 5901.5 | 6119.9 | 6176.5 | 6419.1 | 6378.7 | 6022.8 | 5762.5 |
| 40° | 7975.0 | 7876.3 | 7420.2 | 6561.4 | 6158.7 | 6398.1 | 6415.8 | 6545.2 | 6548.5 | 6315.6 | 6183.0 |
| 42.5° | 9679.6 | 9639.2 | 9158.9 | 7811.6 | 6664.9 | 6584.1 | 6616.4 | 6834.8 | 7079.0 | 6933.4 | 6927.0 |
| 45° | 11567.0 | 11546.0 | 11036.5 | 9471.0 | 7688.7 | 7193.8 | 7234.2 | 7527.0 | 7994.4 | 8026.7 | 8232.1 |
| 47.5° | 13085.6 | 13075.9 | 12783.3 | 11322.8 | 9255.9 | 8227.2 | 8240.2 | 8550.8 | 9372.3 | 9778.3 | 10106.5 |
| 50° | 14470.1 | 14517.0 | 14285.7 | 13326.6 | 11390.8 | 9846.2 | 9815.4 | 10022.5 | 11342.2 | 12006.9 | 12414.5 |
| 52.5° | 16394.7 | 16461.0 | 15812.5 | 15196.2 | 13630.7 | 11854.9 | 11830.7 | 12047.3 | 13710.0 | 14208.1 | 14280.9 |
| 55° | 18094.5 | 17981.3 | 17468.6 | 17290.7 | 16362.4 | 14335.9 | 14329.4 | 14520.2 | 16000.1 | 16211.9 | 16346.1 |
| 57.5° | 18844.9 | 18801.2 | 19048.8 | 19456.3 | 19223.4 | 17268.0 | 17253.5 | 17108.0 | 18049.2 | 18071.8 | 18484.2 |
| 60° | 19318.8 | 19372.2 | 20130.7 | 21387.3 | 21967.9 | 20423.4 | 20329.6 | 19441.7 | 20006.2 | 19956.0 | 20397.5 |
| 62.5° | 18963.0 | 19068.1 | 20433.1 | 22527.5 | 24021.9 | 23177.7 | 23045.1 | 21579.8 | 21678.4 | 21505.4 | 21916.2 |
| 65° | 17074.0 | 17237.4 | 19474.1 | 22312.4 | 25040.8 | 25330.4 | 25196.1 | 23467.2 | 23006.2 | 22721.7 | 22493.6 |
| 67.5° | 13863.6 | 13960.6 | 16296.0 | 20441.2 | 24581.5 | 26614.5 | 26587.0 | 25121.7 | 24009.0 | 22516.3 | 20746.9 |
| 69° | 11457.0 | 11552.5 | 13800.5 | 18471.3 | 23570.8 | 26889.4 | 26942.8 | 25652.2 | 23818.2 | 21267.7 | 18382.4 |
| 70° | 9703.8 | 9805.7 | 11900.1 | 16782.9 | 22398.1 | 26761.7 | 26857.1 | 25602.1 | 23271.5 | 19821.7 | 16307.4 |
| 72.5° | 5089.7 | 5177.0 | 7326.4 | 11562.2 | 18259.5 | 24573.5 | 24862.9 | 23438.1 | 19726.4 | 14395.7 | 9642.4 |
| 75° | 1599.6 | 1649.7 | 2861.1 | 6043.9 | 12501.8 | 19107.0 | 19173.2 | 18385.6 | 14007.6 | 7918.3 | 4015.8 |
| 77.5° | 609.7 | 595.2 | 952.6 | 2227.1 | 6320.5 | 12031.2 | 12437.1 | 11489.4 | 7350.7 | 2799.6 | 926.7 |
| 80° | 328.3 | 330.0 | 494.9 | 921.9 | 2704.2 | 6183.0 | 6525.9 | 5568.4 | 2612.0 | 873.3 | 213.5 |
| 82.5° | 142.3 | 148.8 | 278.2 | 488.4 | 1242.1 | 2280.4 | 2451.8 | 2041.0 | 997.9 | 587.1 | 79.3 |
| 85° | 30.7 | 34.0 | 134.2 | 265.2 | 506.2 | 640.4 | 671.2 | 661.5 | 635.6 | 456.1 | 30.7 |
| 87.5° | 0.0 | 0.0 | 59.8 | 95.4 | 127.8 | 145.6 | 127.8 | 166.6 | 350.9 | 307.3 | 16.2 |
| 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-SA9B-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 | 3456.2 |
| 2.5° | 3459.4 | 3430.3 | 3380.2 | 3325.2 | 3286.4 | 3246.0 | 3213.6 | 3199.0 | 3182.9 | 3171.5 | 3186.1 |
| 5° | 3453.0 | 3396.3 | 3299.4 | 3205.5 | 3137.5 | 3082.6 | 3037.3 | 3019.5 | 3001.7 | 2988.8 | 2987.2 |
| 7.5° | 3509.6 | 3430.3 | 3281.6 | 3144.1 | 3038.9 | 2964.6 | 2903.1 | 2877.2 | 2856.2 | 2846.4 | 2838.4 |
| 10° | 3617.9 | 3516.0 | 3317.1 | 3137.5 | 3001.7 | 2875.6 | 2742.9 | 2641.0 | 2574.8 | 2544.1 | 2532.7 |
| 12.5° | 3758.6 | 3630.9 | 3385.1 | 3171.5 | 2974.2 | 2731.7 | 2450.2 | 2207.7 | 2050.7 | 1999.0 | 1968.3 |
| 15° | 3923.6 | 3765.1 | 3474.0 | 3215.2 | 2874.0 | 2430.8 | 1953.7 | 1636.7 | 1491.1 | 1462.1 | 1429.7 |
| 17.5° | 4082.1 | 3907.5 | 3580.8 | 3223.3 | 2654.0 | 1942.4 | 1431.3 | 1216.2 | 1159.6 | 1179.1 | 1183.9 |
| 20° | 4221.2 | 4048.1 | 3685.9 | 3152.2 | 2254.5 | 1457.2 | 1107.9 | 1054.5 | 1075.5 | 1112.7 | 1119.2 |
| 22.5° | 4361.9 | 4184.0 | 3782.9 | 2964.6 | 1743.5 | 1106.2 | 997.9 | 1010.8 | 1031.9 | 1069.0 | 1075.5 |
| 25° | 4533.3 | 4348.9 | 3873.5 | 2620.1 | 1308.5 | 941.2 | 947.8 | 967.1 | 988.2 | 1022.2 | 1025.4 |
| 27.5° | 4730.7 | 4557.6 | 3933.3 | 2172.1 | 970.4 | 865.2 | 886.3 | 915.4 | 936.4 | 968.8 | 975.2 |
| 30° | 4992.6 | 4832.5 | 3952.7 | 1707.9 | 813.5 | 797.3 | 807.0 | 842.6 | 873.3 | 902.5 | 907.3 |
| 32.5° | 5238.5 | 5104.2 | 3888.0 | 1289.0 | 753.6 | 734.2 | 734.2 | 755.3 | 790.9 | 818.4 | 824.8 |
| 35° | 5464.9 | 5377.5 | 3681.0 | 942.9 | 708.3 | 676.0 | 659.9 | 659.9 | 682.5 | 705.2 | 711.6 |
| 37.5° | 5764.1 | 5760.9 | 3346.2 | 752.0 | 664.8 | 627.5 | 593.6 | 567.7 | 559.6 | 564.4 | 567.7 |
| 40° | 6276.8 | 6281.6 | 2909.5 | 674.4 | 627.5 | 577.4 | 525.7 | 478.7 | 435.0 | 420.5 | 418.9 |
| 42.5° | 7077.3 | 7004.6 | 2451.8 | 637.2 | 595.2 | 525.7 | 448.0 | 384.9 | 317.0 | 296.0 | 294.4 |
| 45° | 8348.5 | 7916.8 | 1966.7 | 603.3 | 561.2 | 467.4 | 370.4 | 284.7 | 229.6 | 213.5 | 213.5 |
| 47.5° | 10200.4 | 9115.2 | 1523.5 | 566.1 | 515.9 | 401.1 | 279.8 | 205.4 | 168.2 | 160.1 | 161.7 |
| 50° | 12115.3 | 10289.3 | 1167.7 | 519.2 | 460.9 | 331.5 | 207.0 | 148.8 | 127.8 | 127.8 | 129.4 |
| 52.5° | 13813.5 | 11149.8 | 910.6 | 469.0 | 393.0 | 260.4 | 156.9 | 116.4 | 106.8 | 105.2 | 106.8 |
| 55° | 15403.3 | 11704.5 | 697.1 | 410.8 | 312.2 | 194.0 | 119.7 | 95.4 | 89.0 | 85.7 | 84.1 |
| 57.5° | 16936.5 | 11979.4 | 522.4 | 331.5 | 226.5 | 140.7 | 95.4 | 80.9 | 74.4 | 69.6 | 67.9 |
| 60° | 17957.1 | 11756.2 | 359.0 | 244.3 | 156.9 | 101.9 | 79.3 | 69.6 | 61.5 | 56.6 | 55.0 |
| 62.5° | 18532.8 | 11146.5 | 231.3 | 176.2 | 111.6 | 76.0 | 63.1 | 58.2 | 46.9 | 42.0 | 42.0 |
| 65° | 18299.9 | 10140.5 | 161.7 | 126.1 | 80.9 | 56.6 | 46.9 | 46.9 | 34.0 | 27.5 | 25.9 |
| 67.5° | 16216.8 | 8566.9 | 122.9 | 93.8 | 58.2 | 42.0 | 35.6 | 40.4 | 21.1 | 12.9 | 12.9 |
| 69° | 13952.5 | 7100.0 | 105.2 | 77.6 | 48.5 | 34.0 | 30.7 | 37.2 | 14.5 | 9.7 | 8.1 |
| 70° | 12126.6 | 6124.7 | 95.4 | 67.9 | 40.4 | 29.2 | 27.5 | 35.6 | 14.5 | 8.1 | 6.4 |
| 72.5° | 7255.3 | 3415.8 | 72.8 | 48.5 | 25.9 | 22.6 | 22.6 | 40.4 | 14.5 | 8.1 | 6.4 |
| 75° | 2932.2 | 1203.3 | 53.4 | 34.0 | 19.4 | 19.4 | 27.5 | 51.8 | 12.9 | 6.4 | 4.8 |
| 77.5° | 664.8 | 263.6 | 30.7 | 21.1 | 12.9 | 19.4 | 32.3 | 40.4 | 8.1 | 3.3 | 0.0 |
| 80° | 161.7 | 64.6 | 19.4 | 12.9 | 8.1 | 14.5 | 24.2 | 22.6 | 1.6 | 0.0 | 0.0 |
| 82.5° | 53.4 | 22.6 | 8.1 | 6.4 | 1.6 | 4.8 | 11.4 | 6.4 | 0.0 | 0.0 | 0.0 |
| 85° | 22.6 | 12.9 | 3.3 | 1.6 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.5 | 4.8 | 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)