

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: P383514

Luminaire Tested: **GLEON-SA8A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25354.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

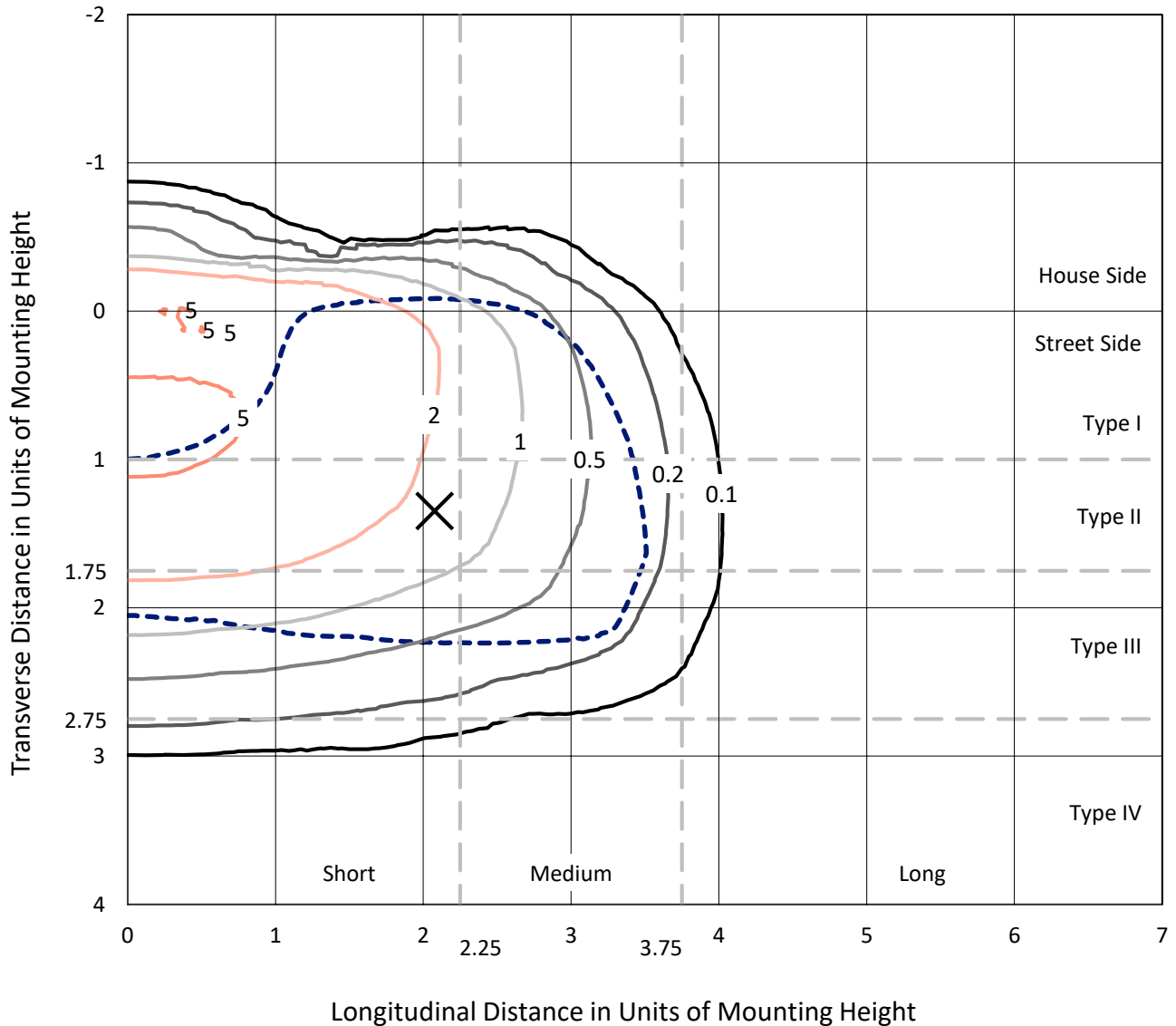
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

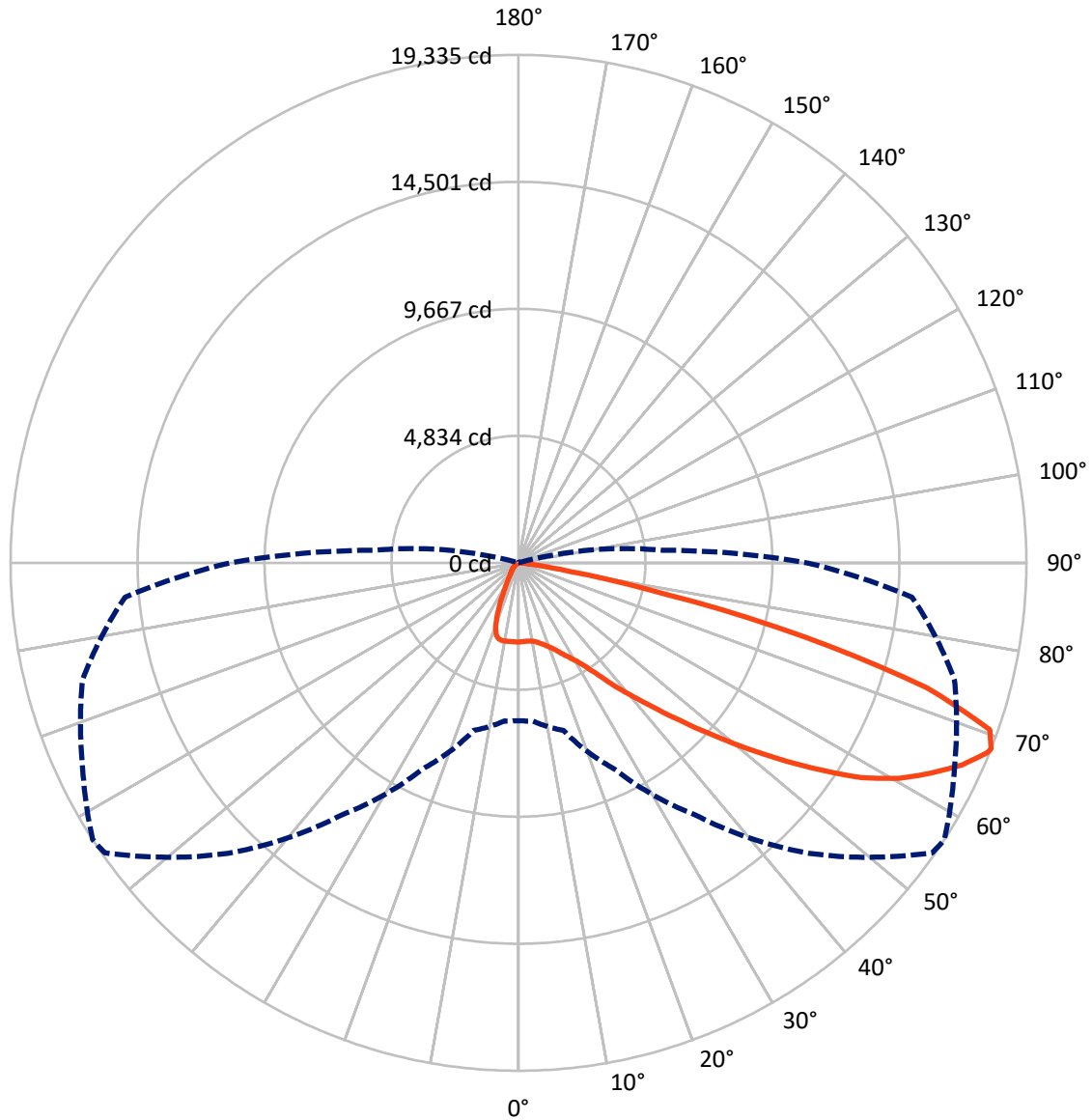
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2780.3 | 0.0 | 2780.3 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 22574.5 | 0.0 | 22574.5 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 25354.9 | 0.0 | 25354.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 282.0 | 1.1 |
| 10°-20° | 781.3 | 3.1 |
| 20°-30° | 1347.9 | 5.3 |
| 30°-40° | 2326.3 | 9.2 |
| 40°-50° | 3979.2 | 15.7 |
| 50°-60° | 6366.4 | 25.1 |
| 60°-70° | 7355.7 | 29.0 |
| 70°-80° | 2810.7 | 11.1 |
| 80°-90° | 105.4 | 0.4 |
| 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° | 25354.9 | 100.0 |
| 0°-180° | 25354.9 | 100.0 |

Coefficient of Utilization



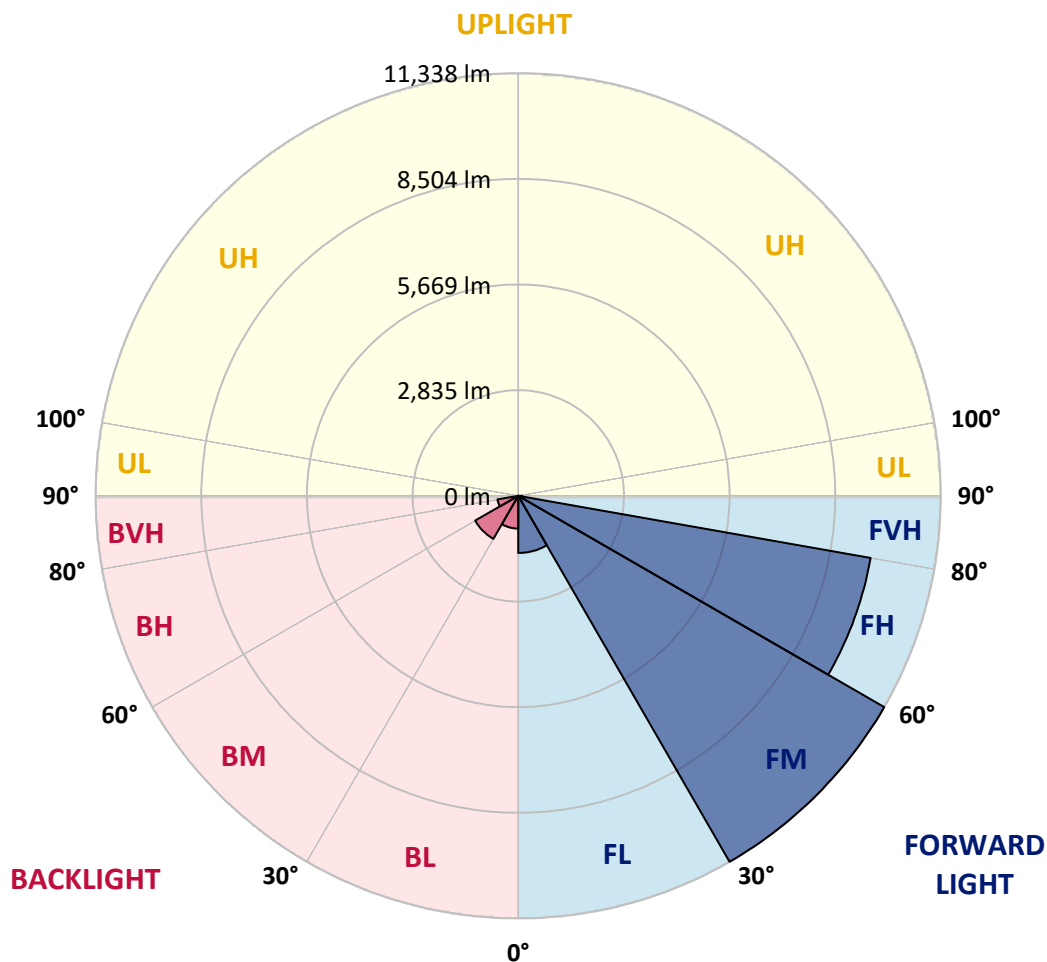
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1532.5 | 6.0 | | | |
| FM (30°-60°) | 11338.5 | 44.7 | | | |
| FH (60°-80°) | 9600.2 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 103.4 | 0.4 | | | G2/225 |
| BL (0°-30°) | 878.7 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1333.5 | 5.3 | B2/2500 | | |
| BH (60°-80°) | 566.2 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 1.9 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 |
| 2.5° | 2942.1 | 2955.2 | 2964.8 | 2970.9 | 2978.1 | 2993.6 | 2998.5 | 3005.6 | 3009.3 | 3009.3 | 3017.7 |
| 5° | 2825.8 | 2840.2 | 2860.6 | 2877.4 | 2910.9 | 2954.1 | 2985.2 | 2997.3 | 3018.9 | 3038.0 | 3048.8 |
| 7.5° | 2717.9 | 2734.7 | 2758.7 | 2798.2 | 2855.8 | 2925.3 | 2990.1 | 3006.8 | 3048.8 | 3089.6 | 3110.0 |
| 10° | 2648.4 | 2661.5 | 2692.7 | 2749.1 | 2824.6 | 2921.7 | 3012.8 | 3033.2 | 3105.1 | 3173.5 | 3211.9 |
| 12.5° | 2624.4 | 2636.4 | 2668.7 | 2732.3 | 2825.8 | 2939.7 | 3065.5 | 3095.5 | 3201.1 | 3300.6 | 3354.5 |
| 15° | 2659.2 | 2661.5 | 2696.3 | 2756.3 | 2848.6 | 2984.0 | 3153.1 | 3189.1 | 3322.2 | 3451.7 | 3518.7 |
| 17.5° | 2793.4 | 2782.6 | 2800.6 | 2827.0 | 2900.1 | 3042.8 | 3245.4 | 3299.4 | 3476.8 | 3629.0 | 3692.6 |
| 20° | 3129.2 | 3129.2 | 3088.4 | 3016.4 | 3017.7 | 3133.9 | 3370.1 | 3431.3 | 3648.2 | 3824.5 | 3882.0 |
| 22.5° | 3703.4 | 3692.6 | 3611.1 | 3434.8 | 3273.0 | 3291.0 | 3522.4 | 3601.5 | 3854.5 | 4042.6 | 4061.8 |
| 25° | 4393.9 | 4380.8 | 4254.8 | 4006.7 | 3726.2 | 3545.1 | 3728.6 | 3819.7 | 4100.2 | 4266.9 | 4227.3 |
| 27.5° | 5125.3 | 5114.5 | 4989.8 | 4681.7 | 4282.4 | 3950.3 | 3974.4 | 4060.6 | 4350.8 | 4515.0 | 4389.2 |
| 30° | 5833.8 | 5837.4 | 5713.9 | 5397.4 | 4945.5 | 4467.1 | 4286.1 | 4336.4 | 4594.2 | 4760.9 | 4581.0 |
| 32.5° | 6507.6 | 6512.4 | 6405.7 | 6052.0 | 5630.0 | 5067.7 | 4717.6 | 4704.5 | 4877.1 | 5041.3 | 4835.1 |
| 35° | 7108.3 | 7120.3 | 7047.2 | 6772.5 | 6325.4 | 5736.7 | 5277.5 | 5246.4 | 5278.7 | 5464.6 | 5224.8 |
| 37.5° | 7687.3 | 7694.5 | 7639.3 | 7407.9 | 7033.9 | 6471.6 | 5984.9 | 5940.6 | 5871.0 | 6013.7 | 5739.1 |
| 40° | 8321.5 | 8303.5 | 8240.0 | 8030.2 | 7708.9 | 7283.3 | 6745.0 | 6668.3 | 6547.2 | 6674.3 | 6415.3 |
| 42.5° | 8911.4 | 8891.0 | 8901.8 | 8664.4 | 8393.4 | 8117.7 | 7631.0 | 7499.1 | 7428.3 | 7574.6 | 7244.9 |
| 45° | 9648.7 | 9637.9 | 9673.9 | 9467.7 | 9248.3 | 9048.0 | 8646.4 | 8502.6 | 8471.4 | 8642.8 | 8248.4 |
| 47.5° | 10376.4 | 10402.8 | 10514.3 | 10426.8 | 10338.0 | 10161.9 | 9721.8 | 9657.1 | 9676.3 | 9883.7 | 9307.0 |
| 50° | 10983.1 | 11014.2 | 11320.0 | 11420.7 | 11549.0 | 11445.8 | 11004.7 | 10965.1 | 11040.6 | 11227.7 | 10446.0 |
| 52.5° | 11421.9 | 11485.4 | 11865.5 | 12329.4 | 12797.0 | 12866.5 | 12426.6 | 12390.6 | 12492.5 | 12521.3 | 11325.9 |
| 55° | 11726.4 | 11782.8 | 12213.1 | 13062.0 | 14013.9 | 14313.6 | 14040.3 | 13901.2 | 13882.0 | 13597.9 | 12251.5 |
| 57.5° | 11780.4 | 11774.4 | 12393.0 | 13535.6 | 14968.2 | 15741.5 | 15568.9 | 15432.2 | 15039.0 | 14593.0 | 13312.6 |
| 60° | 11475.8 | 11510.6 | 12228.7 | 13699.8 | 15567.7 | 16821.7 | 16834.9 | 16657.5 | 16044.8 | 15560.5 | 14341.2 |
| 62.5° | 10538.3 | 10679.7 | 11405.1 | 13269.3 | 15560.5 | 17256.9 | 17762.8 | 17627.4 | 16894.8 | 16352.9 | 15384.2 |
| 65° | 9018.1 | 9068.4 | 9760.2 | 11794.7 | 14509.0 | 17074.7 | 18598.4 | 18548.1 | 17660.9 | 17122.6 | 15920.1 |
| 67.5° | 6585.6 | 6476.4 | 7203.0 | 9287.8 | 12283.9 | 16012.5 | 19197.9 | 19261.4 | 18252.0 | 17280.9 | 15349.5 |
| 68° | 6010.1 | 6042.4 | 6608.3 | 8668.1 | 11701.3 | 15637.2 | 19237.5 | 19334.6 | 18310.8 | 17177.8 | 15037.8 |
| 70° | 3582.3 | 3644.7 | 4149.4 | 5968.1 | 8901.8 | 13514.0 | 18810.6 | 19032.4 | 17960.7 | 16114.4 | 13006.8 |
| 72.5° | 914.8 | 989.1 | 1466.3 | 2671.1 | 5084.5 | 9521.6 | 15879.3 | 16254.7 | 15594.0 | 13072.8 | 8780.7 |
| 75° | 376.4 | 395.6 | 523.9 | 880.0 | 1894.3 | 4289.7 | 10466.4 | 11269.6 | 10810.4 | 7826.4 | 3968.4 |
| 77.5° | 260.2 | 273.3 | 336.8 | 487.9 | 820.0 | 1454.2 | 5131.2 | 5711.5 | 5145.7 | 2671.1 | 865.6 |
| 80° | 187.1 | 197.9 | 241.0 | 324.9 | 471.2 | 519.2 | 1672.5 | 1933.8 | 1535.7 | 586.2 | 214.6 |
| 82.5° | 111.5 | 119.9 | 179.8 | 231.4 | 286.5 | 248.2 | 416.0 | 472.4 | 444.8 | 291.3 | 95.9 |
| 85° | 55.1 | 64.7 | 121.1 | 165.4 | 154.6 | 104.3 | 127.1 | 141.5 | 175.0 | 177.5 | 51.5 |
| 87.5° | 3.6 | 7.2 | 70.7 | 99.5 | 43.1 | 23.9 | 37.2 | 45.6 | 62.3 | 87.6 | 21.6 |
| 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-SA8A-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 | 3012.8 |
| 2.5° | 3021.2 | 3022.4 | 3014.0 | 3010.4 | 3012.8 | 2998.5 | 2992.4 | 2994.8 | 2994.8 | 2998.5 | 2992.4 |
| 5° | 3051.2 | 3051.2 | 3036.8 | 3017.7 | 3006.8 | 2979.3 | 2961.3 | 2956.5 | 2952.9 | 2950.5 | 2945.6 |
| 7.5° | 3115.9 | 3108.8 | 3083.5 | 3041.6 | 3005.6 | 2945.6 | 2900.1 | 2876.2 | 2864.1 | 2859.4 | 2855.8 |
| 10° | 3220.3 | 3207.0 | 3165.1 | 3087.1 | 3004.4 | 2897.8 | 2798.2 | 2727.5 | 2668.7 | 2644.8 | 2630.4 |
| 12.5° | 3360.5 | 3341.4 | 3270.6 | 3141.1 | 2996.0 | 2799.4 | 2583.6 | 2376.2 | 2183.2 | 2104.1 | 2064.5 |
| 15° | 3522.4 | 3494.8 | 3383.3 | 3186.6 | 2946.9 | 2577.6 | 2108.8 | 1745.6 | 1478.3 | 1377.6 | 1334.3 |
| 17.5° | 3686.6 | 3650.6 | 3481.6 | 3215.4 | 2799.4 | 2118.4 | 1479.5 | 1117.4 | 938.7 | 890.7 | 874.0 |
| 20° | 3852.0 | 3799.3 | 3566.7 | 3193.9 | 2466.1 | 1527.4 | 975.9 | 816.4 | 764.9 | 750.5 | 745.7 |
| 22.5° | 4009.1 | 3927.6 | 3643.5 | 3110.0 | 1953.0 | 1025.1 | 772.1 | 721.8 | 705.0 | 696.5 | 694.2 |
| 25° | 4145.8 | 4031.9 | 3710.5 | 2851.0 | 1382.3 | 774.5 | 695.4 | 678.5 | 657.0 | 641.4 | 642.6 |
| 27.5° | 4274.0 | 4136.2 | 3751.3 | 2424.2 | 922.0 | 661.8 | 643.8 | 621.1 | 581.5 | 558.6 | 558.6 |
| 30° | 4428.8 | 4275.2 | 3781.3 | 1865.5 | 678.5 | 585.1 | 570.7 | 535.9 | 482.0 | 452.0 | 452.0 |
| 32.5° | 4661.3 | 4486.2 | 3762.1 | 1309.2 | 562.3 | 514.3 | 480.8 | 432.8 | 374.0 | 345.3 | 344.1 |
| 35° | 5017.4 | 4812.4 | 3625.5 | 858.4 | 496.3 | 447.1 | 393.2 | 334.5 | 282.9 | 259.0 | 257.8 |
| 37.5° | 5497.0 | 5248.8 | 3318.5 | 613.8 | 444.8 | 384.8 | 320.1 | 255.3 | 217.0 | 201.4 | 200.2 |
| 40° | 6119.1 | 5755.9 | 2879.8 | 497.5 | 396.8 | 324.9 | 247.0 | 197.9 | 171.4 | 159.5 | 160.7 |
| 42.5° | 6866.1 | 6299.0 | 2353.5 | 429.2 | 350.1 | 267.4 | 193.0 | 155.8 | 139.1 | 130.7 | 128.3 |
| 45° | 7695.7 | 6835.0 | 1802.0 | 382.5 | 303.3 | 215.8 | 151.1 | 123.5 | 110.3 | 105.5 | 105.5 |
| 47.5° | 8608.1 | 7356.4 | 1318.8 | 341.7 | 253.0 | 166.7 | 121.1 | 100.7 | 89.9 | 86.4 | 85.1 |
| 50° | 9436.5 | 7718.5 | 950.7 | 298.6 | 207.4 | 131.9 | 98.3 | 83.9 | 76.8 | 71.9 | 71.9 |
| 52.5° | 10127.0 | 7832.4 | 700.2 | 251.8 | 167.9 | 105.5 | 81.5 | 71.9 | 64.7 | 61.1 | 61.1 |
| 55° | 10734.9 | 7785.6 | 520.4 | 207.4 | 135.4 | 86.4 | 69.5 | 61.1 | 55.1 | 51.5 | 51.5 |
| 57.5° | 11317.6 | 7634.6 | 388.5 | 169.1 | 109.1 | 69.5 | 58.8 | 51.5 | 45.6 | 43.1 | 43.1 |
| 60° | 11793.6 | 7382.8 | 289.0 | 136.7 | 87.6 | 56.4 | 49.2 | 41.9 | 37.2 | 33.5 | 33.5 |
| 62.5° | 12179.6 | 7104.6 | 212.2 | 112.7 | 69.5 | 44.3 | 38.4 | 34.7 | 27.6 | 23.9 | 23.9 |
| 65° | 12181.9 | 6643.1 | 159.5 | 93.5 | 53.9 | 34.7 | 28.8 | 27.6 | 18.0 | 14.3 | 13.2 |
| 67.5° | 11300.8 | 5727.2 | 122.3 | 80.3 | 41.9 | 26.4 | 21.6 | 22.8 | 9.6 | 6.0 | 4.8 |
| 68° | 10980.7 | 5494.5 | 115.1 | 79.1 | 39.6 | 25.2 | 20.4 | 22.8 | 8.4 | 4.8 | 3.6 |
| 70° | 9257.9 | 4371.2 | 92.3 | 76.8 | 34.7 | 19.2 | 16.8 | 22.8 | 7.2 | 3.6 | 2.4 |
| 72.5° | 5921.4 | 2536.9 | 68.4 | 61.1 | 26.4 | 14.3 | 10.8 | 20.4 | 7.2 | 2.4 | 1.2 |
| 75° | 2520.1 | 786.5 | 46.8 | 43.1 | 15.6 | 10.8 | 7.2 | 13.2 | 4.8 | 1.2 | 0.0 |
| 77.5° | 531.1 | 177.5 | 27.6 | 26.4 | 10.8 | 7.2 | 4.8 | 3.6 | 1.2 | 0.0 | 0.0 |
| 80° | 136.7 | 51.5 | 14.3 | 13.2 | 6.0 | 3.6 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 43.1 | 20.4 | 8.4 | 6.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.6 | 12.0 | 4.8 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 12.0 | 3.6 | 1.2 | 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)