

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: P383290

Luminaire Tested: **GLEON-SA6A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383290
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-SA6A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 18920.7 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

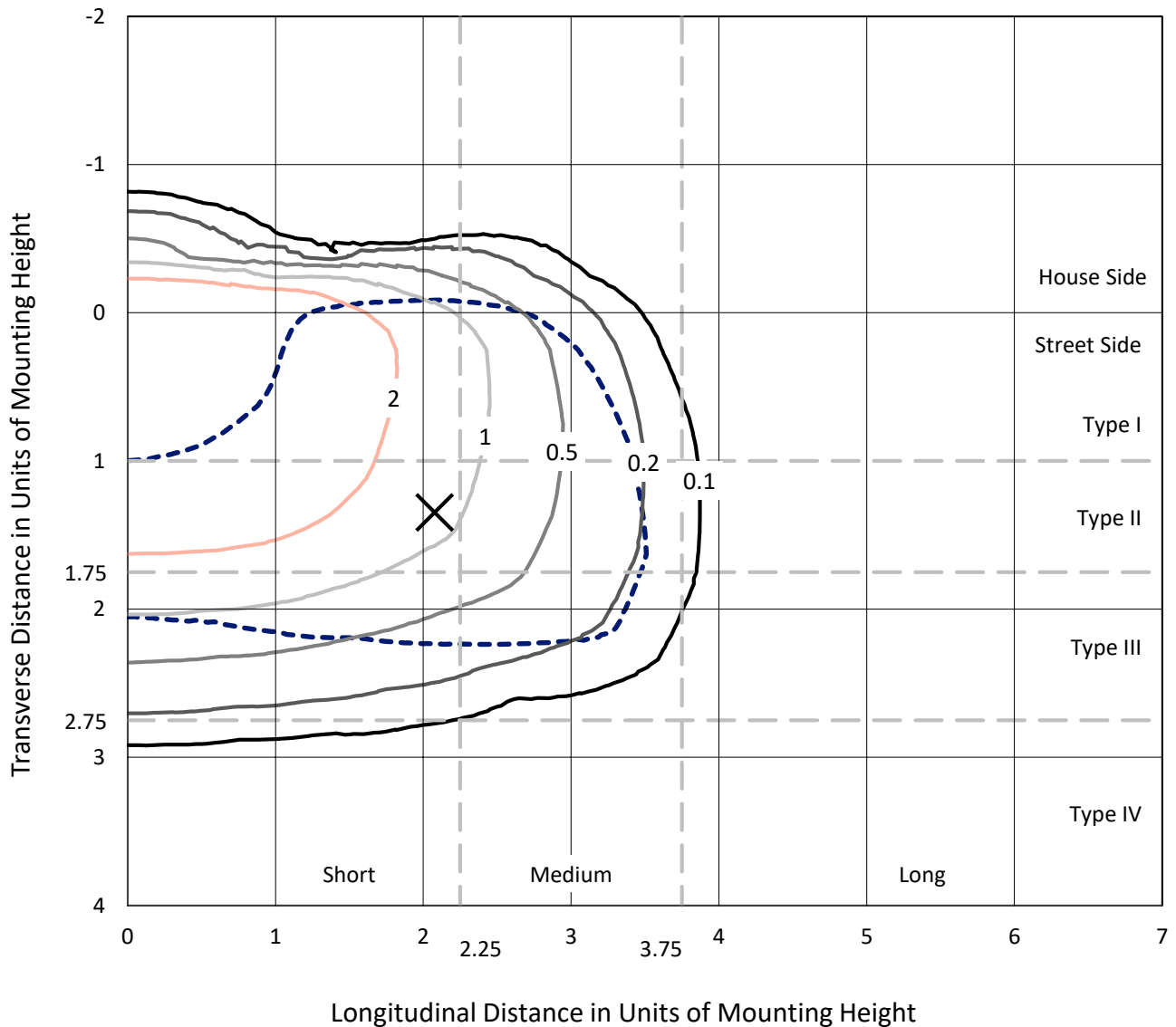
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

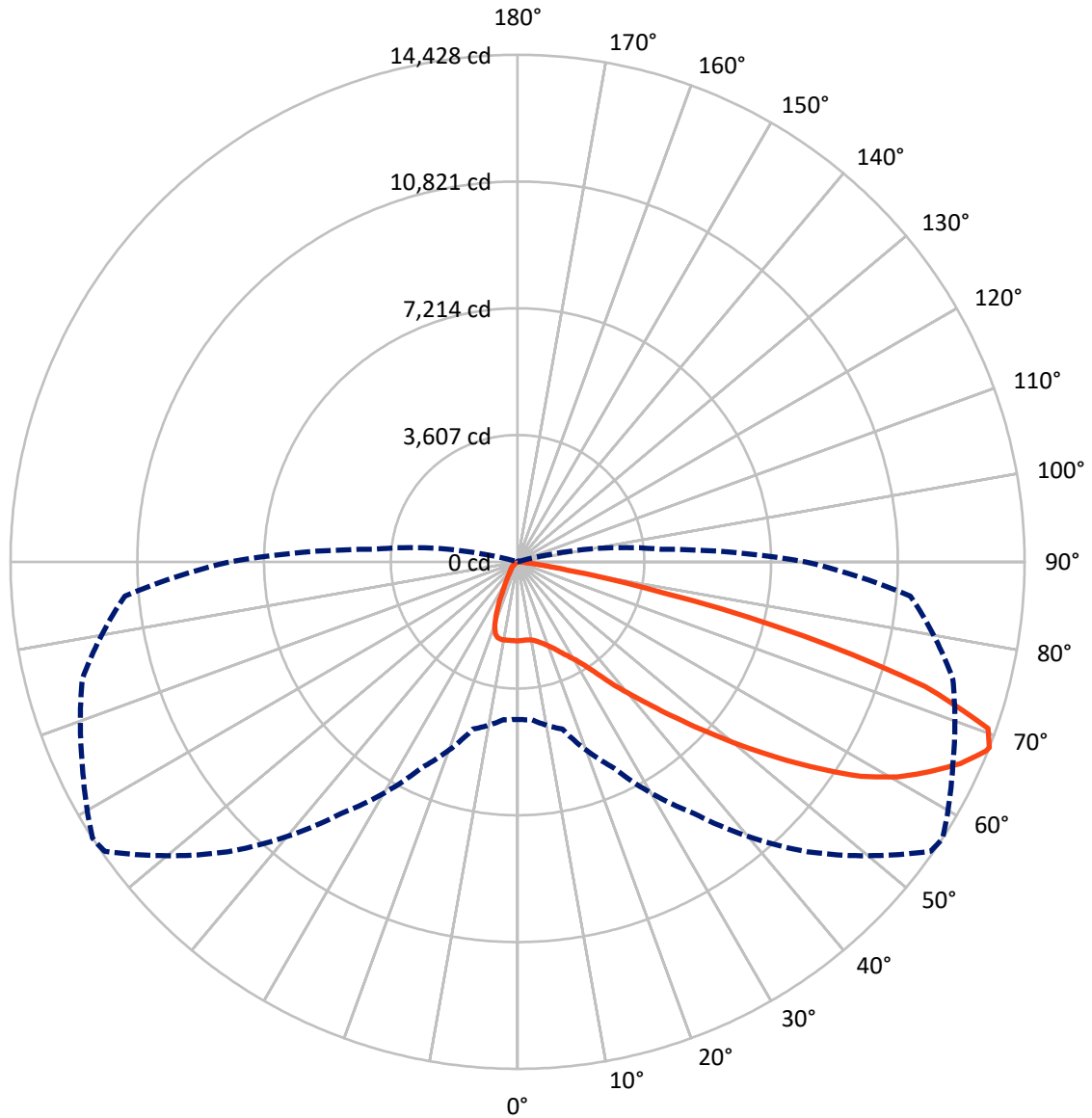
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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 | 2074.8 | 0.0 | 2074.8 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 16845.9 | 0.0 | 16845.9 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 18920.7 | 0.0 | 18920.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 210.4 | 1.1 |
| 10°-20° | 583.0 | 3.1 |
| 20°-30° | 1005.8 | 5.3 |
| 30°-40° | 1736.0 | 9.2 |
| 40°-50° | 2969.4 | 15.7 |
| 50°-60° | 4750.8 | 25.1 |
| 60°-70° | 5489.1 | 29.0 |
| 70°-80° | 2097.5 | 11.1 |
| 80°-90° | 78.6 | 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° | 18920.7 | 100.0 |
| 0°-180° | 18920.7 | 100.0 |

Coefficient of Utilization



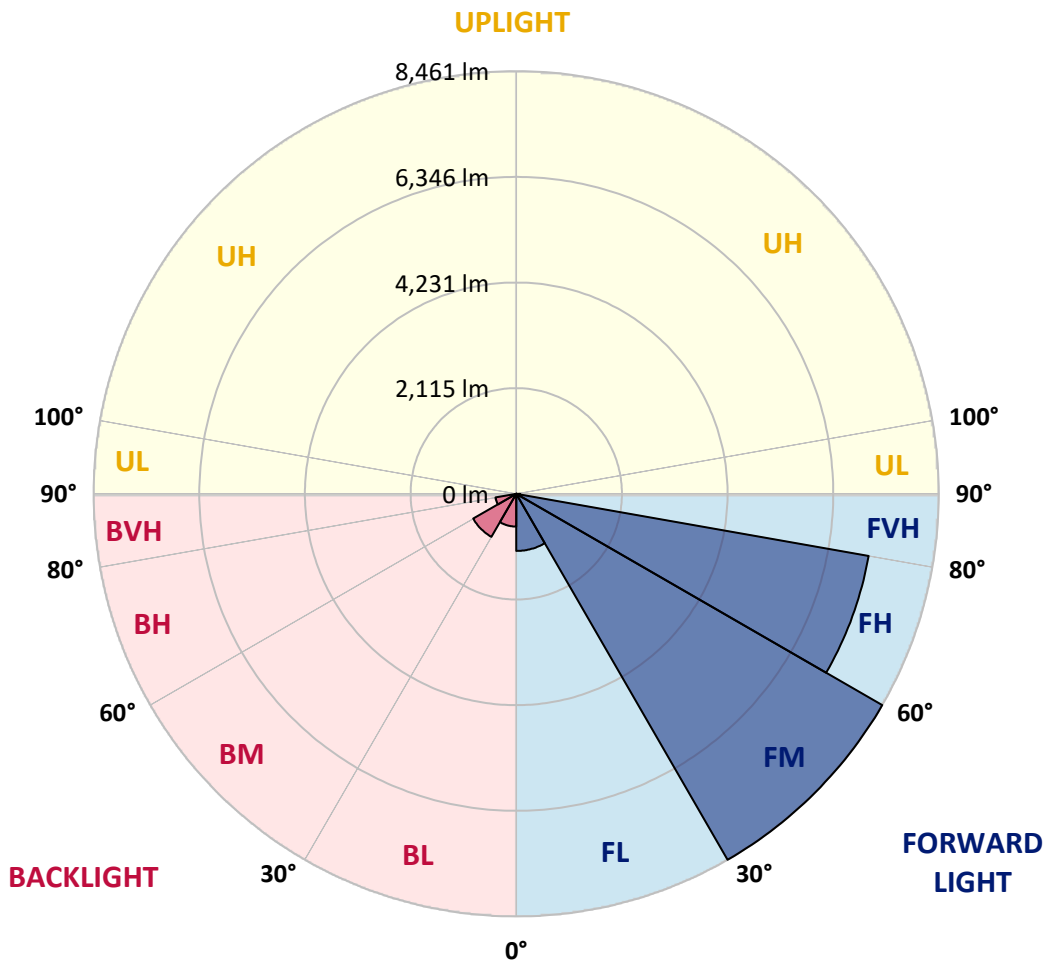
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1143.6 | 6.0 | | | |
| FM (30°-60°) | 8461.2 | 44.7 | | | |
| FH (60°-80°) | 7164.0 | 37.9 | | | G3/7500 |
| FVH (80°-90°) | 77.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 655.7 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 995.1 | 5.3 | B1/1000 | | |
| BH (60°-80°) | 422.5 | 2.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 |
| 2.5° | 2195.5 | 2205.3 | 2212.5 | 2217.0 | 2222.3 | 2233.9 | 2237.6 | 2242.9 | 2245.6 | 2245.6 | 2251.8 |
| 5° | 2108.7 | 2119.5 | 2134.6 | 2147.2 | 2172.2 | 2204.4 | 2227.7 | 2236.6 | 2252.8 | 2267.1 | 2275.1 |
| 7.5° | 2028.2 | 2040.7 | 2058.6 | 2088.2 | 2131.1 | 2183.0 | 2231.2 | 2243.8 | 2275.1 | 2305.5 | 2320.8 |
| 10° | 1976.3 | 1986.2 | 2009.4 | 2051.5 | 2107.8 | 2180.3 | 2248.3 | 2263.5 | 2317.1 | 2368.2 | 2396.8 |
| 12.5° | 1958.4 | 1967.3 | 1991.5 | 2038.9 | 2108.7 | 2193.7 | 2287.6 | 2310.0 | 2388.8 | 2463.0 | 2503.3 |
| 15° | 1984.4 | 1986.2 | 2012.0 | 2056.9 | 2125.7 | 2226.8 | 2352.9 | 2379.8 | 2479.1 | 2575.7 | 2625.8 |
| 17.5° | 2084.5 | 2076.5 | 2089.9 | 2109.6 | 2164.2 | 2270.6 | 2421.8 | 2462.1 | 2594.5 | 2708.1 | 2755.5 |
| 20° | 2335.0 | 2335.0 | 2304.6 | 2251.0 | 2251.8 | 2338.7 | 2514.9 | 2560.5 | 2722.4 | 2854.0 | 2896.9 |
| 22.5° | 2763.6 | 2755.5 | 2694.7 | 2563.2 | 2442.4 | 2455.8 | 2628.5 | 2687.5 | 2876.3 | 3016.8 | 3031.1 |
| 25° | 3279.0 | 3269.1 | 3175.2 | 2990.0 | 2780.6 | 2645.5 | 2782.3 | 2850.3 | 3059.8 | 3184.1 | 3154.6 |
| 27.5° | 3824.7 | 3816.6 | 3723.6 | 3493.7 | 3195.7 | 2947.9 | 2965.8 | 3030.2 | 3246.7 | 3369.3 | 3275.3 |
| 30° | 4353.4 | 4356.1 | 4264.0 | 4027.7 | 3690.4 | 3333.4 | 3198.4 | 3236.0 | 3428.3 | 3552.6 | 3418.5 |
| 32.5° | 4856.2 | 4859.8 | 4780.1 | 4516.2 | 4201.3 | 3781.7 | 3520.5 | 3510.6 | 3639.5 | 3762.1 | 3608.2 |
| 35° | 5304.4 | 5313.4 | 5258.8 | 5053.9 | 4720.2 | 4280.9 | 3938.3 | 3915.0 | 3939.1 | 4077.8 | 3898.9 |
| 37.5° | 5736.6 | 5741.9 | 5700.8 | 5528.1 | 5249.0 | 4829.3 | 4466.1 | 4433.0 | 4381.2 | 4487.6 | 4282.7 |
| 40° | 6209.8 | 6196.4 | 6149.0 | 5992.5 | 5752.7 | 5435.0 | 5033.3 | 4976.0 | 4885.7 | 4980.5 | 4787.3 |
| 42.5° | 6649.9 | 6634.8 | 6642.9 | 6465.7 | 6263.5 | 6057.8 | 5694.5 | 5596.1 | 5543.3 | 5652.4 | 5406.4 |
| 45° | 7200.2 | 7192.1 | 7219.0 | 7065.1 | 6901.4 | 6752.0 | 6452.3 | 6344.9 | 6321.7 | 6449.6 | 6155.2 |
| 47.5° | 7743.3 | 7763.0 | 7846.1 | 7780.8 | 7714.6 | 7583.1 | 7254.8 | 7206.5 | 7220.8 | 7375.5 | 6945.2 |
| 50° | 8195.9 | 8219.2 | 8447.4 | 8522.5 | 8618.2 | 8541.3 | 8212.1 | 8182.5 | 8238.9 | 8378.4 | 7795.2 |
| 52.5° | 8523.4 | 8570.8 | 8854.5 | 9200.6 | 9549.6 | 9601.5 | 9273.1 | 9246.3 | 9322.4 | 9343.8 | 8451.8 |
| 55° | 8750.7 | 8792.7 | 9113.9 | 9747.2 | 10457.6 | 10681.3 | 10477.3 | 10373.5 | 10359.3 | 10147.2 | 9142.5 |
| 57.5° | 8790.9 | 8786.5 | 9248.0 | 10100.7 | 11169.8 | 11746.8 | 11618.0 | 11516.1 | 11222.5 | 10889.8 | 9934.3 |
| 60° | 8563.6 | 8589.6 | 9125.5 | 10223.3 | 11617.1 | 12553.0 | 12562.8 | 12430.4 | 11973.2 | 11611.7 | 10701.9 |
| 62.5° | 7864.0 | 7969.6 | 8510.9 | 9902.1 | 11611.7 | 12877.7 | 13255.3 | 13154.1 | 12607.5 | 12203.1 | 11480.2 |
| 65° | 6729.6 | 6767.2 | 7283.4 | 8801.6 | 10827.1 | 12741.7 | 13878.8 | 13841.2 | 13179.2 | 12777.5 | 11880.1 |
| 67.5° | 4914.4 | 4833.0 | 5375.1 | 6930.9 | 9166.6 | 11949.1 | 14326.2 | 14373.6 | 13620.3 | 12895.6 | 11454.3 |
| 68° | 4484.9 | 4509.1 | 4931.3 | 6468.4 | 8731.9 | 11669.0 | 14355.7 | 14428.2 | 13664.1 | 12818.7 | 11221.7 |
| 70° | 2673.3 | 2719.7 | 3096.4 | 4453.6 | 6642.9 | 10084.6 | 14037.2 | 14202.7 | 13402.8 | 12025.1 | 9706.2 |
| 72.5° | 682.6 | 738.1 | 1094.2 | 1993.3 | 3794.3 | 7105.4 | 11849.8 | 12129.8 | 11636.8 | 9755.4 | 6552.5 |
| 75° | 281.0 | 295.2 | 391.0 | 656.6 | 1413.5 | 3201.1 | 7810.4 | 8409.7 | 8067.1 | 5840.3 | 2961.3 |
| 77.5° | 194.1 | 204.0 | 251.4 | 364.1 | 611.9 | 1085.3 | 3829.1 | 4262.1 | 3839.8 | 1993.3 | 645.9 |
| 80° | 139.5 | 147.7 | 179.8 | 242.5 | 351.6 | 387.4 | 1248.1 | 1443.1 | 1146.1 | 437.5 | 160.1 |
| 82.5° | 83.2 | 89.4 | 134.2 | 172.7 | 213.8 | 185.2 | 310.5 | 352.5 | 331.9 | 217.4 | 71.5 |
| 85° | 41.2 | 48.3 | 90.4 | 123.4 | 115.4 | 77.9 | 94.8 | 105.5 | 130.6 | 132.4 | 38.5 |
| 87.5° | 2.7 | 5.4 | 52.8 | 74.2 | 32.2 | 17.9 | 27.8 | 34.0 | 46.5 | 65.3 | 16.1 |
| 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-SA6A-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 | 2248.3 |
| 2.5° | 2254.5 | 2255.5 | 2249.1 | 2246.5 | 2248.3 | 2237.6 | 2233.1 | 2234.9 | 2234.9 | 2237.6 | 2233.1 |
| 5° | 2276.9 | 2276.9 | 2266.2 | 2251.8 | 2243.8 | 2223.2 | 2209.8 | 2206.2 | 2203.6 | 2201.7 | 2198.2 |
| 7.5° | 2325.2 | 2319.8 | 2301.0 | 2269.7 | 2242.9 | 2198.2 | 2164.2 | 2146.3 | 2137.3 | 2133.8 | 2131.1 |
| 10° | 2403.0 | 2393.2 | 2361.9 | 2303.7 | 2242.0 | 2162.4 | 2088.2 | 2035.3 | 1991.5 | 1973.6 | 1962.9 |
| 12.5° | 2507.7 | 2493.4 | 2440.7 | 2344.0 | 2235.7 | 2089.0 | 1928.0 | 1773.2 | 1629.2 | 1570.1 | 1540.6 |
| 15° | 2628.5 | 2608.0 | 2524.7 | 2378.0 | 2199.1 | 1923.6 | 1573.7 | 1302.6 | 1103.1 | 1028.0 | 995.7 |
| 17.5° | 2751.0 | 2724.2 | 2598.1 | 2399.5 | 2089.0 | 1580.8 | 1104.0 | 833.8 | 700.5 | 664.8 | 652.2 |
| 20° | 2874.6 | 2835.2 | 2661.6 | 2383.4 | 1840.3 | 1139.7 | 728.3 | 609.2 | 570.8 | 560.0 | 556.5 |
| 22.5° | 2991.8 | 2930.9 | 2718.9 | 2320.8 | 1457.4 | 764.9 | 576.2 | 538.6 | 526.0 | 519.8 | 518.0 |
| 25° | 3093.8 | 3008.7 | 2768.9 | 2127.5 | 1031.5 | 577.9 | 518.9 | 506.4 | 490.3 | 478.6 | 479.6 |
| 27.5° | 3189.4 | 3086.6 | 2799.4 | 1809.0 | 687.9 | 493.8 | 480.4 | 463.4 | 433.9 | 416.9 | 416.9 |
| 30° | 3304.9 | 3190.4 | 2821.8 | 1392.1 | 506.4 | 436.6 | 425.8 | 399.9 | 359.7 | 337.3 | 337.3 |
| 32.5° | 3478.4 | 3347.8 | 2807.4 | 977.0 | 419.6 | 383.8 | 358.7 | 323.0 | 279.1 | 257.7 | 256.7 |
| 35° | 3744.2 | 3591.1 | 2705.4 | 640.5 | 370.4 | 333.7 | 293.4 | 249.7 | 211.2 | 193.2 | 192.4 |
| 37.5° | 4102.0 | 3916.8 | 2476.4 | 458.0 | 331.9 | 287.2 | 238.8 | 190.6 | 161.9 | 150.3 | 149.4 |
| 40° | 4566.4 | 4295.3 | 2149.0 | 371.3 | 296.1 | 242.5 | 184.3 | 147.7 | 127.9 | 119.0 | 119.9 |
| 42.5° | 5123.7 | 4700.5 | 1756.2 | 320.3 | 261.2 | 199.5 | 144.0 | 116.4 | 103.8 | 97.5 | 95.8 |
| 45° | 5742.8 | 5100.4 | 1344.7 | 285.4 | 226.4 | 161.1 | 112.7 | 92.1 | 82.3 | 78.7 | 78.7 |
| 47.5° | 6423.7 | 5489.6 | 984.1 | 255.0 | 188.7 | 124.4 | 90.4 | 75.2 | 67.1 | 64.4 | 63.5 |
| 50° | 7041.8 | 5759.8 | 709.5 | 222.7 | 154.7 | 98.4 | 73.4 | 62.6 | 57.3 | 53.7 | 53.7 |
| 52.5° | 7557.2 | 5844.8 | 522.5 | 187.9 | 125.3 | 78.7 | 60.8 | 53.7 | 48.3 | 45.6 | 45.6 |
| 55° | 8010.8 | 5809.9 | 388.3 | 154.7 | 101.1 | 64.4 | 51.9 | 45.6 | 41.2 | 38.5 | 38.5 |
| 57.5° | 8445.6 | 5697.2 | 289.9 | 126.1 | 81.4 | 51.9 | 43.9 | 38.5 | 34.0 | 32.2 | 32.2 |
| 60° | 8800.7 | 5509.3 | 215.7 | 102.0 | 65.3 | 42.0 | 36.7 | 31.3 | 27.8 | 25.1 | 25.1 |
| 62.5° | 9088.8 | 5301.7 | 158.4 | 84.1 | 51.9 | 33.1 | 28.6 | 26.0 | 20.6 | 17.9 | 17.9 |
| 65° | 9090.6 | 4957.3 | 119.0 | 69.8 | 40.2 | 26.0 | 21.4 | 20.6 | 13.4 | 10.7 | 9.9 |
| 67.5° | 8433.0 | 4273.8 | 91.3 | 59.9 | 31.3 | 19.7 | 16.1 | 17.0 | 7.2 | 4.5 | 3.5 |
| 68° | 8194.2 | 4100.2 | 85.9 | 59.1 | 29.5 | 18.8 | 15.2 | 17.0 | 6.2 | 3.5 | 2.7 |
| 70° | 6908.5 | 3261.9 | 68.9 | 57.3 | 26.0 | 14.3 | 12.5 | 17.0 | 5.4 | 2.7 | 1.8 |
| 72.5° | 4418.7 | 1893.1 | 51.0 | 45.6 | 19.7 | 10.7 | 8.0 | 15.2 | 5.4 | 1.8 | 0.9 |
| 75° | 1880.6 | 586.9 | 34.9 | 32.2 | 11.6 | 8.0 | 5.4 | 9.9 | 3.5 | 0.9 | 0.0 |
| 77.5° | 396.4 | 132.4 | 20.6 | 19.7 | 8.0 | 5.4 | 3.5 | 2.7 | 0.9 | 0.0 | 0.0 |
| 80° | 102.0 | 38.5 | 10.7 | 9.9 | 4.5 | 2.7 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 32.2 | 15.2 | 6.2 | 4.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.1 | 8.9 | 3.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.9 | 2.7 | 0.9 | 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)