

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: P383482

Luminaire Tested: **GLEON-SA7D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36370.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

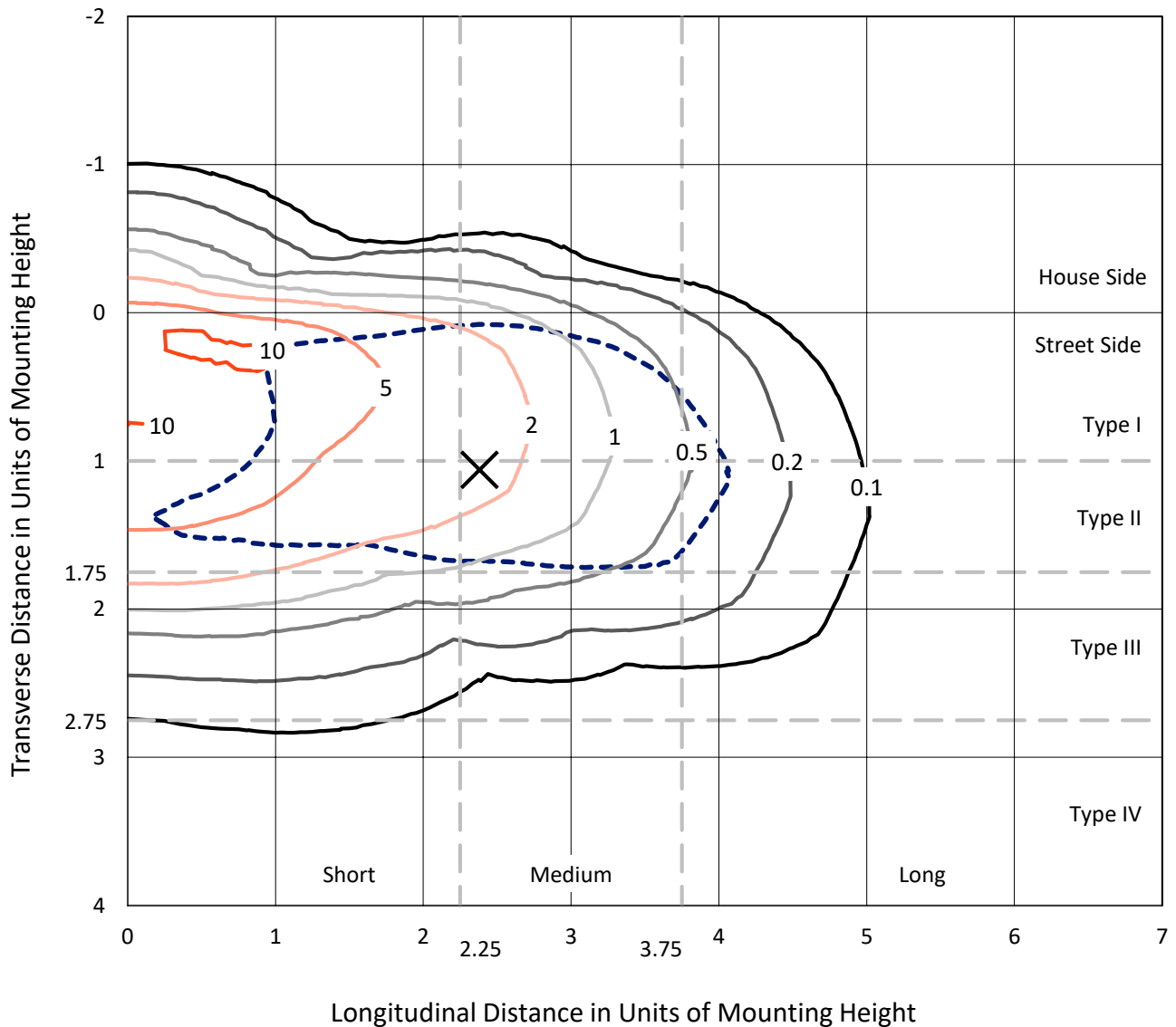
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

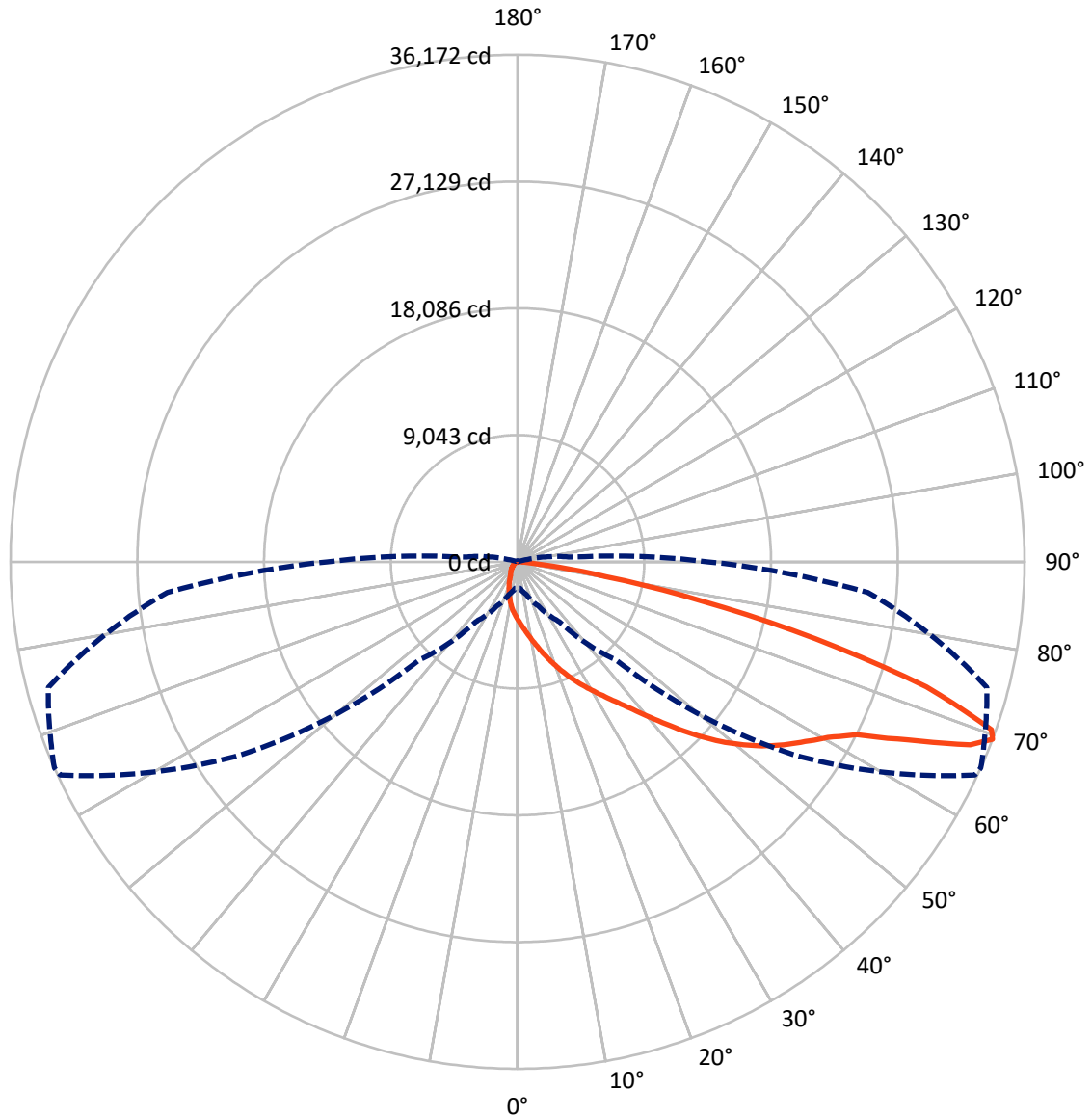
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2181.7 | 0.0 | 2181.7 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 34188.7 | 0.0 | 34188.7 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 36370.4 | 0.0 | 36370.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.1 | 1.1 |
| 10°-20° | 1190.8 | 3.3 |
| 20°-30° | 2073.5 | 5.7 |
| 30°-40° | 3638.0 | 10.0 |
| 40°-50° | 6089.5 | 16.7 |
| 50°-60° | 8951.0 | 24.6 |
| 60°-70° | 9190.4 | 25.3 |
| 70°-80° | 4537.1 | 12.5 |
| 80°-90° | 300.0 | 0.8 |
| 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° | 36370.4 | 100.0 |
| 0°-180° | 36370.4 | 100.0 |

Coefficient of Utilization

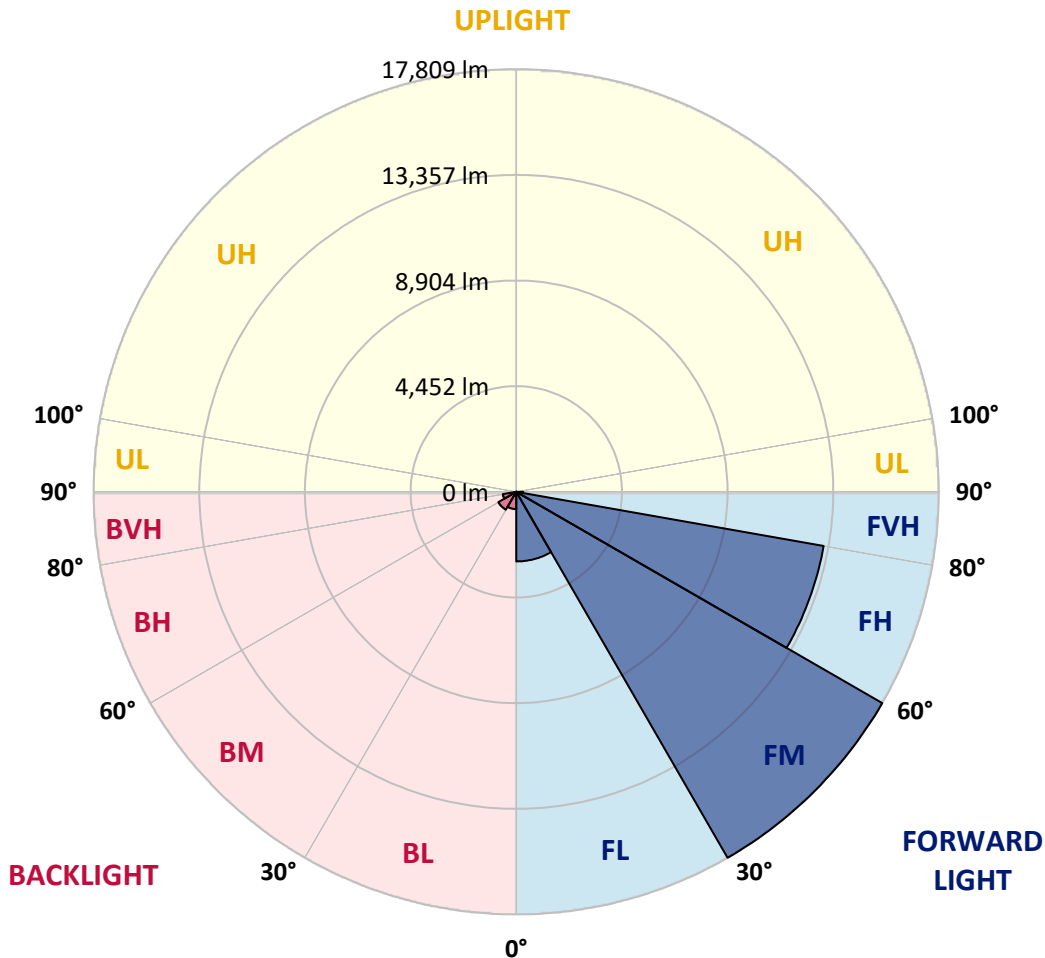


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2934.7 | 8.1 | | | |
| FM (30°-60°) | 17808.7 | 49.0 | | | |
| FH (60°-80°) | 13152.5 | 36.2 | | | G5 |
| FVH (80°-90°) | 292.7 | 0.8 | | | G3/500 |
| BL (0°-30°) | 729.7 | 2.0 | B2/1000 | | |
| BM (30°-60°) | 869.8 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 575.0 | 1.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.3 | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 |
| 2.5° | 4871.5 | 4850.8 | 4842.2 | 4804.2 | 4738.5 | 4688.4 | 4591.7 | 4479.3 | 4458.7 | 4349.9 | 4216.8 |
| 5° | 5503.8 | 5486.5 | 5474.4 | 5420.9 | 5353.5 | 5227.4 | 5051.2 | 4842.2 | 4802.4 | 4595.1 | 4329.1 |
| 7.5° | 5944.3 | 5975.4 | 5975.4 | 5940.9 | 5856.2 | 5761.2 | 5545.2 | 5260.2 | 5210.1 | 4892.3 | 4479.3 |
| 10° | 6201.7 | 6239.7 | 6269.0 | 6298.5 | 6286.4 | 6248.4 | 6044.5 | 5723.1 | 5662.7 | 5241.2 | 4653.8 |
| 12.5° | 6225.9 | 6263.9 | 6346.8 | 6469.4 | 6588.6 | 6675.0 | 6547.2 | 6236.2 | 6167.1 | 5645.5 | 4861.2 |
| 15° | 6091.1 | 6130.9 | 6258.7 | 6497.1 | 6785.6 | 7037.8 | 7079.3 | 6804.6 | 6733.8 | 6127.4 | 5120.3 |
| 17.5° | 5856.2 | 5882.1 | 6065.2 | 6395.2 | 6847.8 | 7310.8 | 7561.2 | 7414.4 | 7348.8 | 6678.5 | 5408.8 |
| 20° | 5681.7 | 5700.7 | 5861.4 | 6215.5 | 6809.8 | 7481.7 | 8017.3 | 8062.2 | 7993.1 | 7269.2 | 5721.5 |
| 22.5° | 5980.5 | 6015.1 | 6020.3 | 6187.9 | 6706.1 | 7566.4 | 8418.0 | 8699.6 | 8647.8 | 7896.4 | 6029.0 |
| 25° | 6797.7 | 6837.4 | 6706.1 | 6602.4 | 6794.2 | 7604.4 | 8761.9 | 9352.6 | 9311.2 | 8571.8 | 6338.2 |
| 27.5° | 7877.4 | 7918.8 | 7749.5 | 7440.3 | 7255.5 | 7747.8 | 9067.6 | 10016.0 | 10014.2 | 9287.0 | 6671.6 |
| 30° | 8938.0 | 8979.5 | 8806.8 | 8497.6 | 8072.6 | 8153.7 | 9331.9 | 10710.5 | 10720.8 | 10024.7 | 7025.7 |
| 32.5° | 10050.6 | 10102.4 | 9924.4 | 9527.1 | 9083.1 | 8855.1 | 9703.3 | 11408.4 | 11467.1 | 10879.7 | 7424.7 |
| 35° | 11315.0 | 11321.9 | 11071.5 | 10655.1 | 10143.8 | 9793.2 | 10299.3 | 12190.9 | 12330.8 | 11938.7 | 7930.9 |
| 37.5° | 12555.4 | 12605.5 | 12399.9 | 11743.5 | 11273.6 | 10876.3 | 11185.5 | 13168.6 | 13367.3 | 13232.5 | 8592.5 |
| 40° | 13474.5 | 13579.8 | 13550.5 | 12842.1 | 12396.5 | 12113.2 | 12285.9 | 14331.3 | 14583.5 | 14738.9 | 9426.9 |
| 42.5° | 14051.4 | 14130.9 | 14265.6 | 13839.0 | 13434.7 | 13481.4 | 13585.0 | 15685.6 | 15996.5 | 16456.1 | 10385.6 |
| 45° | 14713.0 | 14751.1 | 14863.3 | 14675.0 | 14402.1 | 14872.0 | 14963.5 | 17211.0 | 17537.5 | 18302.8 | 11449.8 |
| 47.5° | 15521.5 | 15611.3 | 15642.5 | 15469.7 | 15345.3 | 16102.0 | 16291.9 | 18598.2 | 19055.9 | 20280.7 | 12576.2 |
| 50° | 16551.1 | 16575.3 | 16628.9 | 16516.5 | 16392.2 | 17159.2 | 17483.9 | 20054.4 | 20470.8 | 22265.7 | 13686.9 |
| 52.5° | 17558.2 | 17644.6 | 17831.1 | 17760.3 | 17710.2 | 18059.2 | 18546.4 | 21367.4 | 21832.0 | 23920.6 | 14796.0 |
| 55° | 17848.5 | 17922.7 | 18567.0 | 19007.6 | 19415.3 | 19168.3 | 19562.1 | 22543.7 | 23046.5 | 25399.3 | 15863.5 |
| 57.5° | 16689.3 | 16839.6 | 17955.6 | 19102.6 | 20793.8 | 20892.3 | 20958.0 | 23751.3 | 24202.2 | 26532.5 | 16974.3 |
| 60° | 13759.4 | 13788.9 | 15620.0 | 17587.6 | 20565.8 | 22396.9 | 22996.4 | 25048.7 | 25427.0 | 27588.1 | 18304.5 |
| 62.5° | 8751.5 | 9050.4 | 11059.4 | 13837.2 | 18154.2 | 22179.3 | 25461.5 | 27011.1 | 27149.3 | 28854.3 | 20211.7 |
| 65° | 4168.4 | 4361.9 | 5809.6 | 8549.4 | 13149.6 | 19392.9 | 27163.1 | 30561.1 | 30623.2 | 31364.4 | 22759.7 |
| 67.5° | 2307.9 | 2401.3 | 3090.5 | 4602.0 | 7687.3 | 13714.5 | 26475.5 | 34765.7 | 34824.5 | 33927.9 | 24995.1 |
| 69° | 1805.2 | 1884.7 | 2427.1 | 3468.8 | 5211.8 | 9857.1 | 23958.6 | 35997.5 | 36171.9 | 34662.1 | 25074.6 |
| 70° | 1532.3 | 1610.0 | 2090.3 | 2929.8 | 4190.9 | 7616.5 | 21325.9 | 35691.7 | 35876.5 | 34593.0 | 24482.0 |
| 72.5° | 938.1 | 983.0 | 1392.4 | 2062.6 | 2808.9 | 3831.5 | 13151.4 | 30184.5 | 30497.1 | 31732.3 | 21040.9 |
| 75° | 632.2 | 656.5 | 870.6 | 1423.5 | 2009.1 | 1972.8 | 6832.2 | 21275.8 | 21952.9 | 24684.1 | 15540.5 |
| 77.5° | 452.6 | 475.1 | 583.9 | 920.7 | 1407.9 | 1302.5 | 3093.9 | 13222.2 | 13367.3 | 14804.6 | 8475.0 |
| 80° | 257.4 | 278.2 | 412.9 | 547.7 | 955.3 | 868.9 | 1230.0 | 6315.7 | 6388.3 | 6348.5 | 2829.7 |
| 82.5° | 134.7 | 152.0 | 226.3 | 361.1 | 613.2 | 568.3 | 511.3 | 2114.4 | 2124.9 | 1767.2 | 620.1 |
| 85° | 25.9 | 31.1 | 112.3 | 247.0 | 316.2 | 247.0 | 209.0 | 495.8 | 506.1 | 447.4 | 153.7 |
| 87.5° | 0.0 | 1.8 | 44.9 | 55.2 | 62.2 | 63.9 | 67.4 | 96.7 | 103.7 | 139.9 | 41.5 |
| 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-SA7D-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 | 4139.1 |
| 2.5° | 4158.1 | 4095.9 | 3976.7 | 3838.4 | 3731.4 | 3626.0 | 3543.0 | 3456.7 | 3425.6 | 3410.0 | 3408.3 |
| 5° | 4199.5 | 4068.3 | 3816.0 | 3556.9 | 3344.4 | 3144.1 | 3000.6 | 2864.1 | 2800.2 | 2770.9 | 2758.8 |
| 7.5° | 4268.6 | 4057.9 | 3651.9 | 3256.3 | 2950.6 | 2700.1 | 2501.4 | 2352.8 | 2278.6 | 2247.5 | 2235.3 |
| 10° | 4349.9 | 4044.0 | 3460.1 | 2938.5 | 2548.1 | 2288.9 | 2092.0 | 1945.2 | 1863.9 | 1829.4 | 1812.1 |
| 12.5° | 4444.9 | 4019.9 | 3239.1 | 2617.2 | 2204.3 | 1945.2 | 1706.8 | 1525.4 | 1432.1 | 1392.4 | 1373.4 |
| 15° | 4562.3 | 3995.7 | 3007.6 | 2314.8 | 1901.9 | 1585.9 | 1324.9 | 1202.3 | 1183.3 | 1176.5 | 1178.1 |
| 17.5° | 4678.0 | 3957.7 | 2755.3 | 2016.0 | 1584.1 | 1238.6 | 1105.6 | 1098.7 | 1102.1 | 1102.1 | 1102.1 |
| 20° | 4781.7 | 3871.3 | 2480.7 | 1760.3 | 1281.8 | 1045.1 | 1017.5 | 1005.4 | 996.8 | 989.9 | 981.2 |
| 22.5° | 4862.9 | 3755.5 | 2216.3 | 1506.4 | 1046.9 | 957.1 | 913.8 | 875.8 | 844.7 | 824.0 | 813.6 |
| 25° | 4918.2 | 3601.8 | 1974.5 | 1262.8 | 941.5 | 870.6 | 792.9 | 729.0 | 680.6 | 651.2 | 639.1 |
| 27.5° | 4959.7 | 3436.0 | 1758.6 | 1057.2 | 868.9 | 770.5 | 668.6 | 592.6 | 542.4 | 516.5 | 506.1 |
| 30° | 4989.0 | 3247.7 | 1568.5 | 929.4 | 787.7 | 665.1 | 556.2 | 482.0 | 445.7 | 431.9 | 425.0 |
| 32.5° | 5016.7 | 3038.6 | 1388.9 | 868.9 | 711.7 | 568.3 | 466.4 | 409.4 | 387.0 | 369.6 | 364.5 |
| 35° | 5085.7 | 2845.1 | 1217.9 | 805.0 | 634.0 | 485.4 | 400.8 | 359.3 | 336.8 | 326.5 | 323.1 |
| 37.5° | 5249.8 | 2701.8 | 1053.8 | 739.4 | 556.2 | 419.8 | 350.6 | 321.3 | 300.6 | 290.2 | 286.7 |
| 40° | 5514.1 | 2629.2 | 915.5 | 668.6 | 480.2 | 369.6 | 317.8 | 290.2 | 267.7 | 252.2 | 248.7 |
| 42.5° | 5902.8 | 2639.6 | 818.8 | 597.7 | 419.8 | 330.0 | 286.7 | 253.9 | 229.7 | 215.9 | 212.5 |
| 45° | 6374.5 | 2715.6 | 751.5 | 528.7 | 369.6 | 298.8 | 252.2 | 217.7 | 195.3 | 183.1 | 179.7 |
| 47.5° | 6885.8 | 2838.2 | 696.1 | 466.4 | 330.0 | 269.5 | 217.7 | 181.4 | 162.4 | 152.0 | 150.3 |
| 50° | 7424.7 | 2957.5 | 639.1 | 406.0 | 295.4 | 240.2 | 183.1 | 150.3 | 134.7 | 126.1 | 122.7 |
| 52.5° | 7970.6 | 3095.6 | 587.3 | 350.6 | 266.0 | 205.6 | 152.0 | 122.7 | 110.6 | 103.7 | 100.2 |
| 55° | 8558.0 | 3199.3 | 537.2 | 307.5 | 236.7 | 174.5 | 126.1 | 101.9 | 91.6 | 82.9 | 81.2 |
| 57.5° | 9249.0 | 3360.0 | 485.4 | 266.0 | 202.1 | 145.1 | 103.7 | 81.2 | 72.6 | 63.9 | 62.2 |
| 60° | 10181.8 | 3548.3 | 430.2 | 234.9 | 165.8 | 119.2 | 84.7 | 65.7 | 55.2 | 48.3 | 46.7 |
| 62.5° | 11411.8 | 3757.3 | 361.1 | 205.6 | 134.7 | 96.7 | 67.4 | 51.8 | 39.8 | 31.1 | 31.1 |
| 65° | 12971.7 | 4097.6 | 295.4 | 172.7 | 110.6 | 79.5 | 51.8 | 38.0 | 22.5 | 13.8 | 13.8 |
| 67.5° | 13882.1 | 4156.4 | 238.4 | 141.7 | 89.8 | 67.4 | 43.2 | 25.9 | 6.9 | 1.8 | 0.0 |
| 69° | 13590.2 | 3816.0 | 202.1 | 120.9 | 77.7 | 63.9 | 39.8 | 19.0 | 3.4 | 0.0 | 0.0 |
| 70° | 13040.8 | 3489.6 | 177.9 | 107.1 | 70.8 | 60.5 | 38.0 | 13.8 | 3.4 | 0.0 | 0.0 |
| 72.5° | 10776.0 | 2484.2 | 134.7 | 79.5 | 51.8 | 53.6 | 34.6 | 8.7 | 3.4 | 0.0 | 0.0 |
| 75° | 7849.7 | 1509.9 | 96.7 | 55.2 | 32.8 | 39.8 | 24.2 | 3.4 | 1.8 | 0.0 | 0.0 |
| 77.5° | 4367.1 | 711.7 | 60.5 | 31.1 | 20.8 | 24.2 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1418.3 | 193.5 | 27.7 | 17.2 | 12.1 | 13.8 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 262.6 | 55.2 | 15.6 | 8.7 | 3.4 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 57.0 | 22.5 | 8.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 19.0 | 6.9 | 1.8 | 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)