

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: P383408

Luminaire Tested: **GLEON-SA7A-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383408
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-SA7A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 22254.7 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

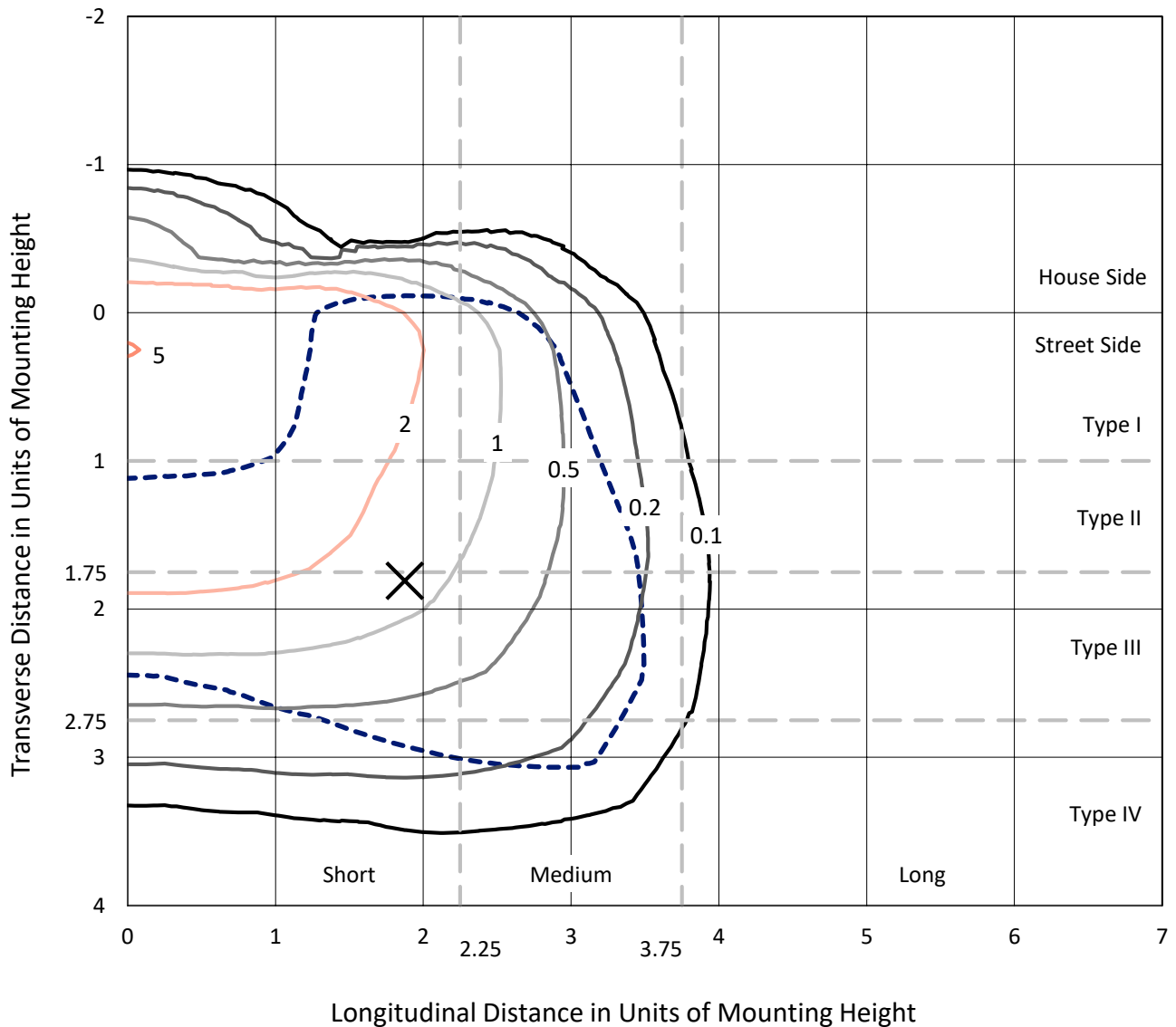
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383408
 CATALOG NUMBER: GLEON-SA7A-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

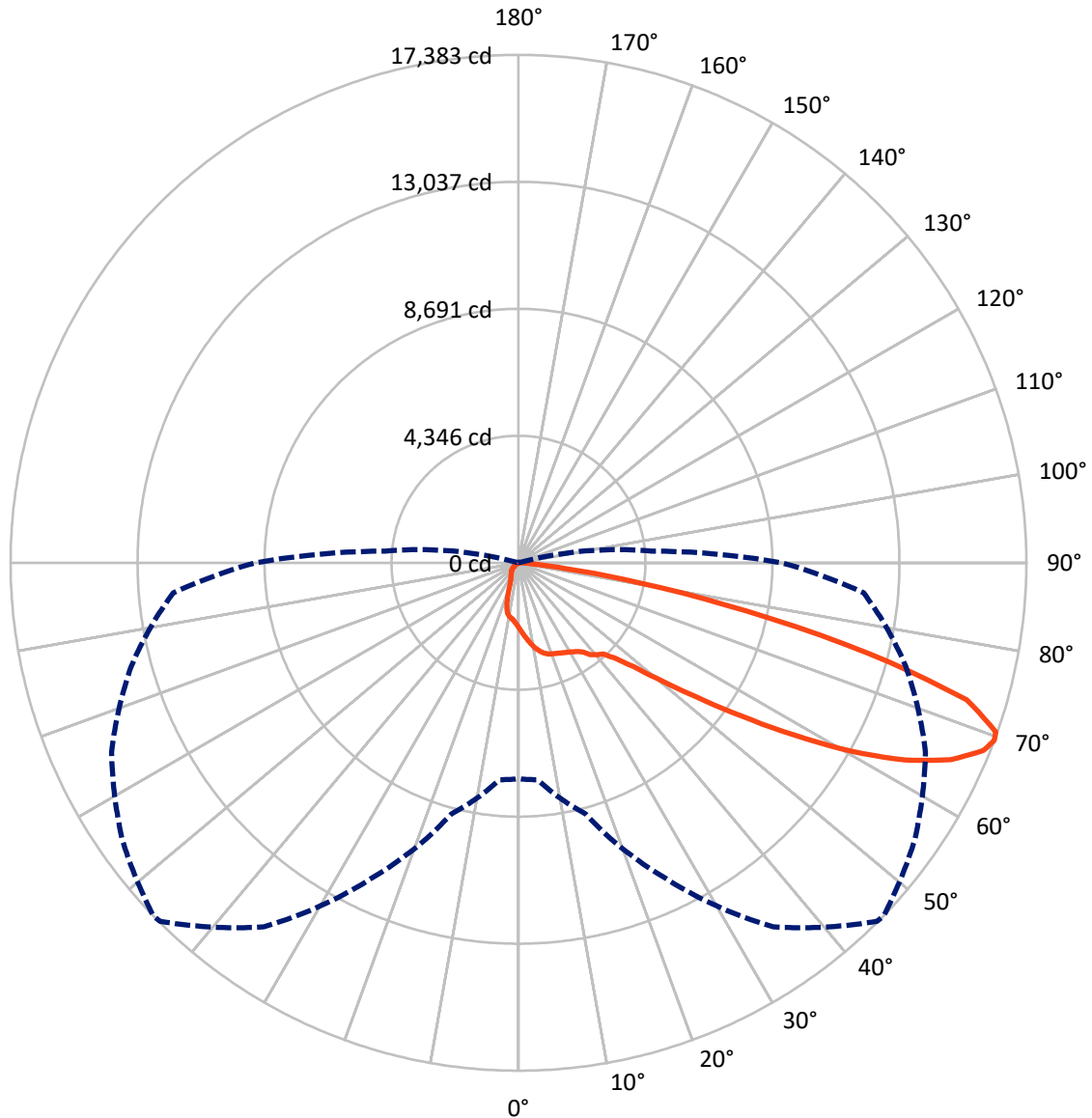
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P383408
CATALOG NUMBER: GLEON-SA7A-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383408
 CATALOG NUMBER: GLEON-SA7A-735-U-T4W-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2283.9 | 0.0 | 2283.9 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 19970.7 | 0.0 | 19970.7 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 22254.7 | 0.0 | 22254.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 221.9 | 1.0 |
| 10°-20° | 673.3 | 3.0 |
| 20°-30° | 1058.9 | 4.8 |
| 30°-40° | 1518.5 | 6.8 |
| 40°-50° | 2624.5 | 11.8 |
| 50°-60° | 5185.0 | 23.3 |
| 60°-70° | 7246.5 | 32.6 |
| 70°-80° | 3500.9 | 15.7 |
| 80°-90° | 225.0 | 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° | 22254.7 | 100.0 |
| 0°-180° | 22254.7 | 100.0 |

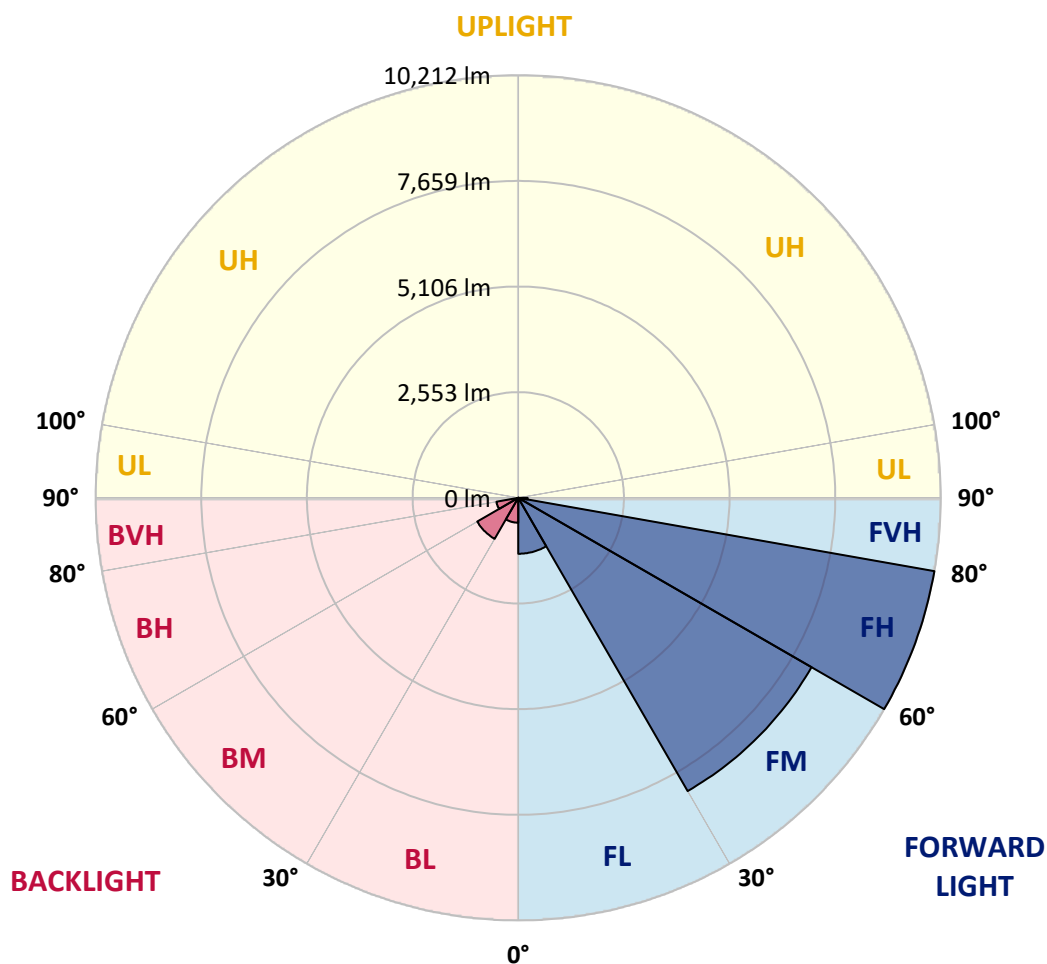


REPORT NUMBER: P383408
 CATALOG NUMBER: GLEON-SA7A-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1352.2 | 6.1 | | | |
| FM (30°-60°) | 8183.5 | 36.8 | | | |
| FH (60°-80°) | 10211.8 | 45.9 | | | G4/12000 |
| FVH (80°-90°) | 223.1 | 1.0 | | | G2/225 |
| BL (0°-30°) | 602.0 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1144.5 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 535.5 | 2.4 | 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 IV Short





REPORT NUMBER: P383408

CATALOG NUMBER: GLEON-SA7A-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 |
| 2.5° | 2477.2 | 2474.0 | 2459.4 | 2453.1 | 2417.6 | 2396.8 | 2388.4 | 2362.3 | 2324.8 | 2287.2 | 2245.5 |
| 5° | 2758.9 | 2757.8 | 2730.6 | 2704.6 | 2637.9 | 2575.2 | 2563.7 | 2503.3 | 2418.7 | 2339.4 | 2260.1 |
| 7.5° | 3046.8 | 3033.3 | 3006.2 | 2956.1 | 2859.0 | 2758.9 | 2749.5 | 2663.9 | 2543.9 | 2429.1 | 2315.4 |
| 10° | 3291.0 | 3282.7 | 3247.2 | 3171.0 | 3057.2 | 2943.5 | 2932.0 | 2826.7 | 2691.1 | 2550.2 | 2405.2 |
| 12.5° | 3480.9 | 3474.7 | 3427.7 | 3332.8 | 3211.7 | 3093.8 | 3078.1 | 2984.2 | 2839.2 | 2681.6 | 2510.5 |
| 15° | 3596.7 | 3593.6 | 3536.2 | 3435.0 | 3316.0 | 3213.8 | 3200.2 | 3117.8 | 2983.2 | 2818.3 | 2625.3 |
| 17.5° | 3623.9 | 3624.9 | 3565.4 | 3463.2 | 3365.1 | 3292.1 | 3281.7 | 3219.1 | 3106.3 | 2942.5 | 2740.1 |
| 20° | 3563.4 | 3575.8 | 3522.6 | 3434.0 | 3373.4 | 3334.8 | 3326.5 | 3288.9 | 3194.0 | 3039.5 | 2831.9 |
| 22.5° | 3477.7 | 3484.1 | 3447.6 | 3388.0 | 3363.0 | 3370.3 | 3366.1 | 3345.3 | 3264.9 | 3123.0 | 2922.6 |
| 25° | 3425.6 | 3425.6 | 3403.7 | 3353.7 | 3370.3 | 3415.1 | 3416.3 | 3412.1 | 3348.4 | 3225.3 | 3033.3 |
| 27.5° | 3423.5 | 3417.3 | 3392.2 | 3354.7 | 3400.6 | 3469.5 | 3473.6 | 3501.8 | 3462.1 | 3349.5 | 3171.0 |
| 30° | 3507.0 | 3499.7 | 3446.4 | 3397.4 | 3455.9 | 3530.0 | 3540.4 | 3601.9 | 3582.2 | 3484.1 | 3324.4 |
| 32.5° | 3702.2 | 3676.1 | 3558.1 | 3477.7 | 3521.6 | 3610.3 | 3623.9 | 3722.0 | 3753.3 | 3650.0 | 3472.5 |
| 35° | 3969.2 | 3886.8 | 3716.8 | 3630.1 | 3634.3 | 3727.2 | 3739.7 | 3883.7 | 3976.6 | 3802.3 | 3587.4 |
| 37.5° | 4337.6 | 4296.9 | 4020.4 | 3788.7 | 3807.5 | 3948.4 | 3984.9 | 4141.4 | 4115.3 | 3885.8 | 3717.8 |
| 40° | 5145.2 | 5081.6 | 4787.3 | 4233.2 | 3973.4 | 4127.9 | 4139.3 | 4222.8 | 4224.9 | 4074.7 | 3989.1 |
| 42.5° | 6245.0 | 6218.9 | 5909.0 | 5039.9 | 4300.0 | 4247.9 | 4268.7 | 4409.6 | 4567.1 | 4473.2 | 4469.1 |
| 45° | 7462.7 | 7449.1 | 7120.5 | 6110.4 | 4960.5 | 4641.2 | 4667.3 | 4856.2 | 5157.7 | 5178.6 | 5311.1 |
| 47.5° | 8442.5 | 8436.2 | 8247.4 | 7305.1 | 5971.6 | 5308.0 | 5316.3 | 5516.7 | 6046.8 | 6308.6 | 6520.5 |
| 50° | 9335.7 | 9366.0 | 9216.7 | 8598.0 | 7349.0 | 6352.5 | 6332.7 | 6466.2 | 7317.7 | 7746.5 | 8009.4 |
| 52.5° | 10577.4 | 10620.1 | 10201.8 | 9804.2 | 8794.1 | 7648.5 | 7632.8 | 7772.6 | 8845.2 | 9166.6 | 9213.6 |
| 55° | 11674.1 | 11601.0 | 11270.2 | 11155.5 | 10556.5 | 9249.1 | 9244.9 | 9368.0 | 10322.8 | 10459.4 | 10546.1 |
| 57.5° | 12158.2 | 12130.1 | 12289.6 | 12552.6 | 12402.3 | 11140.8 | 11131.4 | 11037.5 | 11644.8 | 11659.4 | 11925.5 |
| 60° | 12463.9 | 12498.4 | 12987.7 | 13798.5 | 14173.0 | 13176.6 | 13116.1 | 12543.2 | 12907.3 | 12875.0 | 13159.9 |
| 62.5° | 12234.4 | 12302.2 | 13182.9 | 14534.1 | 15498.3 | 14953.6 | 14868.0 | 13922.6 | 13986.3 | 13874.7 | 14139.7 |
| 65° | 11015.6 | 11121.0 | 12564.1 | 14395.3 | 16155.6 | 16342.4 | 16255.8 | 15140.3 | 14843.0 | 14659.3 | 14512.2 |
| 67.5° | 8944.3 | 9006.9 | 10513.7 | 13188.1 | 15859.2 | 17170.8 | 17153.1 | 16207.8 | 15489.9 | 14526.8 | 13385.3 |
| 69° | 7391.7 | 7453.3 | 8903.7 | 11917.1 | 15207.1 | 17348.3 | 17382.7 | 16550.1 | 15366.8 | 13721.2 | 11859.7 |
| 70° | 6260.7 | 6326.4 | 7677.6 | 10827.8 | 14450.6 | 17265.9 | 17327.4 | 16517.6 | 15014.1 | 12788.4 | 10521.0 |
| 72.5° | 3283.7 | 3340.1 | 4726.8 | 7459.6 | 11780.4 | 15854.0 | 16040.8 | 15121.5 | 12726.9 | 9287.7 | 6221.0 |
| 75° | 1032.0 | 1064.3 | 1845.9 | 3899.4 | 8065.8 | 12327.3 | 12370.0 | 11861.9 | 9037.2 | 5108.7 | 2590.8 |
| 77.5° | 393.4 | 384.0 | 614.5 | 1436.8 | 4077.8 | 7762.1 | 8024.1 | 7412.6 | 4742.4 | 1806.2 | 597.9 |
| 80° | 211.8 | 212.9 | 319.3 | 594.8 | 1744.6 | 3989.1 | 4210.3 | 3592.6 | 1685.2 | 563.5 | 137.8 |
| 82.5° | 91.9 | 96.0 | 179.5 | 315.1 | 801.3 | 1471.3 | 1581.9 | 1316.8 | 643.8 | 378.8 | 51.1 |
| 85° | 19.8 | 21.9 | 86.6 | 171.1 | 326.6 | 413.2 | 433.0 | 426.7 | 410.1 | 294.3 | 19.8 |
| 87.5° | 0.0 | 0.0 | 38.6 | 61.6 | 82.4 | 93.9 | 82.4 | 107.5 | 226.5 | 198.2 | 10.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P383408

CATALOG NUMBER: GLEON-SA7A-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 | 2229.8 |
| 2.5° | 2231.9 | 2213.2 | 2180.8 | 2145.4 | 2120.3 | 2094.2 | 2073.3 | 2063.9 | 2053.5 | 2046.1 | 2055.6 |
| 5° | 2227.7 | 2191.2 | 2128.6 | 2068.1 | 2024.3 | 1988.8 | 1959.6 | 1948.1 | 1936.6 | 1928.3 | 1927.3 |
| 7.5° | 2264.3 | 2213.2 | 2117.1 | 2028.4 | 1960.6 | 1912.7 | 1873.0 | 1856.3 | 1842.7 | 1836.5 | 1831.2 |
| 10° | 2334.2 | 2268.4 | 2140.1 | 2024.3 | 1936.6 | 1855.3 | 1769.7 | 1704.0 | 1661.1 | 1641.3 | 1634.0 |
| 12.5° | 2425.0 | 2342.6 | 2183.9 | 2046.1 | 1918.9 | 1762.4 | 1580.8 | 1424.3 | 1323.1 | 1289.7 | 1269.9 |
| 15° | 2531.4 | 2429.1 | 2241.3 | 2074.4 | 1854.2 | 1568.3 | 1260.5 | 1056.0 | 962.0 | 943.3 | 922.4 |
| 17.5° | 2633.7 | 2521.0 | 2310.1 | 2079.6 | 1712.3 | 1253.2 | 923.4 | 784.6 | 748.1 | 760.7 | 763.8 |
| 20° | 2723.4 | 2611.8 | 2378.0 | 2033.7 | 1454.5 | 940.1 | 714.8 | 680.3 | 693.9 | 717.9 | 722.0 |
| 22.5° | 2814.2 | 2699.3 | 2440.7 | 1912.7 | 1124.8 | 713.8 | 643.8 | 652.2 | 665.7 | 689.7 | 693.9 |
| 25° | 2924.8 | 2805.8 | 2499.1 | 1690.4 | 844.2 | 607.3 | 611.5 | 624.0 | 637.6 | 659.4 | 661.6 |
| 27.5° | 3052.0 | 2940.4 | 2537.6 | 1401.3 | 626.1 | 558.3 | 571.8 | 590.6 | 604.1 | 625.0 | 629.2 |
| 30° | 3221.1 | 3117.8 | 2550.2 | 1101.8 | 524.8 | 514.4 | 520.6 | 543.7 | 563.5 | 582.2 | 585.4 |
| 32.5° | 3379.7 | 3293.1 | 2508.5 | 831.6 | 486.3 | 473.7 | 473.7 | 487.3 | 510.2 | 528.0 | 532.2 |
| 35° | 3525.8 | 3469.5 | 2374.9 | 608.3 | 457.0 | 436.2 | 425.7 | 425.7 | 440.3 | 455.0 | 459.2 |
| 37.5° | 3718.8 | 3716.8 | 2158.9 | 485.2 | 428.9 | 404.9 | 383.0 | 366.3 | 361.1 | 364.1 | 366.3 |
| 40° | 4049.6 | 4052.7 | 1877.2 | 435.1 | 404.9 | 372.5 | 339.1 | 308.9 | 280.7 | 271.3 | 270.2 |
| 42.5° | 4566.1 | 4519.1 | 1581.9 | 411.1 | 384.0 | 339.1 | 289.1 | 248.4 | 204.5 | 191.0 | 189.9 |
| 45° | 5386.2 | 5107.7 | 1268.9 | 389.2 | 362.1 | 301.5 | 238.9 | 183.6 | 148.2 | 137.8 | 137.8 |
| 47.5° | 6581.0 | 5880.9 | 982.9 | 365.2 | 332.8 | 258.8 | 180.5 | 132.6 | 108.5 | 103.3 | 104.3 |
| 50° | 7816.4 | 6638.4 | 753.3 | 335.0 | 297.3 | 213.9 | 133.6 | 96.0 | 82.4 | 82.4 | 83.5 |
| 52.5° | 8912.0 | 7193.5 | 587.4 | 302.6 | 253.6 | 168.0 | 101.3 | 75.1 | 68.8 | 67.8 | 68.8 |
| 55° | 9937.7 | 7551.4 | 449.8 | 265.0 | 201.4 | 125.2 | 77.2 | 61.6 | 57.4 | 55.3 | 54.2 |
| 57.5° | 10927.0 | 7728.8 | 337.0 | 213.9 | 146.1 | 90.8 | 61.6 | 52.2 | 48.0 | 44.9 | 43.8 |
| 60° | 11585.4 | 7584.8 | 231.7 | 157.5 | 101.3 | 65.8 | 51.1 | 44.9 | 39.7 | 36.5 | 35.5 |
| 62.5° | 11956.8 | 7191.4 | 149.2 | 113.7 | 72.0 | 49.0 | 40.7 | 37.5 | 30.3 | 27.1 | 27.1 |
| 65° | 11806.5 | 6542.4 | 104.3 | 81.4 | 52.2 | 36.5 | 30.3 | 30.3 | 21.9 | 17.7 | 16.7 |
| 67.5° | 10462.6 | 5527.2 | 79.3 | 60.6 | 37.5 | 27.1 | 22.9 | 26.1 | 13.6 | 8.4 | 8.4 |
| 69° | 9001.7 | 4580.7 | 67.8 | 50.1 | 31.3 | 21.9 | 19.8 | 24.0 | 9.4 | 6.2 | 5.2 |
| 70° | 7823.7 | 3951.5 | 61.6 | 43.8 | 26.1 | 18.8 | 17.7 | 22.9 | 9.4 | 5.2 | 4.2 |
| 72.5° | 4680.8 | 2203.8 | 46.9 | 31.3 | 16.7 | 14.6 | 14.6 | 26.1 | 9.4 | 5.2 | 4.2 |
| 75° | 1891.8 | 776.4 | 34.5 | 21.9 | 12.5 | 12.5 | 17.7 | 33.3 | 8.4 | 4.2 | 3.2 |
| 77.5° | 428.9 | 170.1 | 19.8 | 13.6 | 8.4 | 12.5 | 20.9 | 26.1 | 5.2 | 2.0 | 0.0 |
| 80° | 104.3 | 41.7 | 12.5 | 8.4 | 5.2 | 9.4 | 15.6 | 14.6 | 1.0 | 0.0 | 0.0 |
| 82.5° | 34.5 | 14.6 | 5.2 | 4.2 | 1.0 | 3.2 | 7.3 | 4.2 | 0.0 | 0.0 | 0.0 |
| 85° | 14.6 | 8.4 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.4 | 3.2 | 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)