

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: P323960

Luminaire Tested: **GLEON-SA6B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20393 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

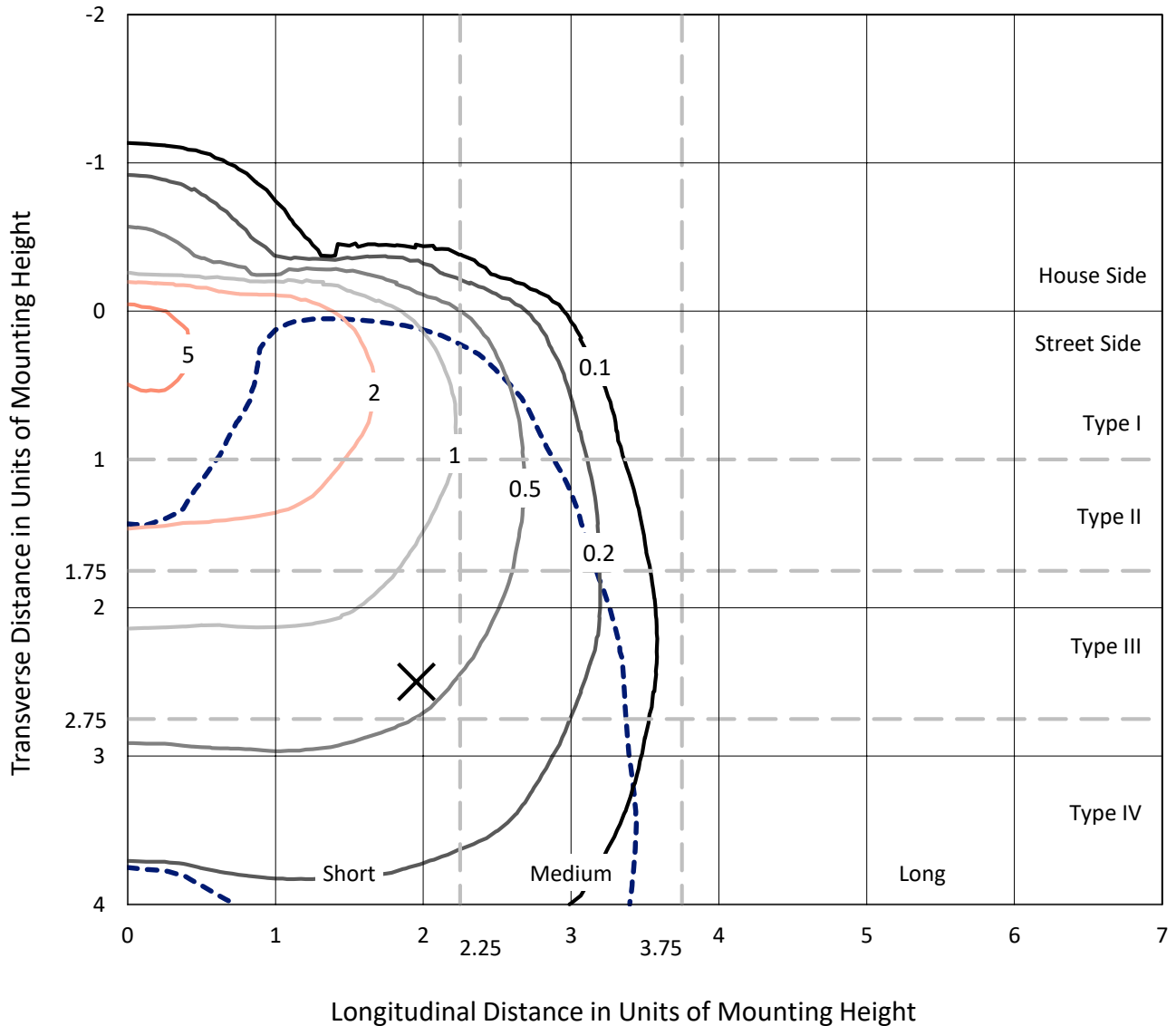
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

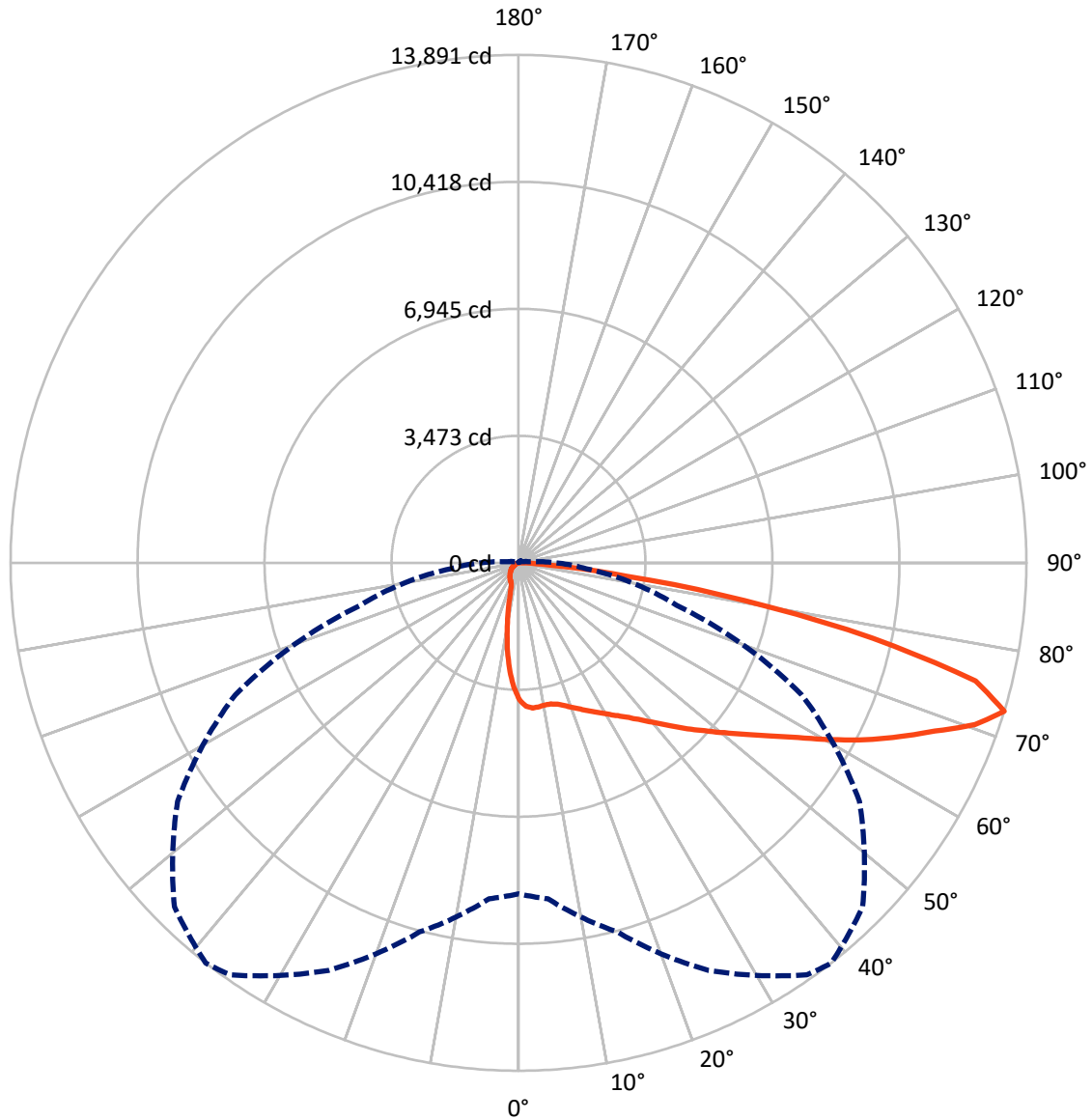
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1716.1 | 0.0 | 1716.1 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 18676.9 | 0.0 | 18676.9 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 20393.0 | 0.0 | 20393.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 319.6 | 1.6 |
| 10°-20° | 781.5 | 3.8 |
| 20°-30° | 1242.9 | 6.1 |
| 30°-40° | 1868.6 | 9.2 |
| 40°-50° | 2850.7 | 14.0 |
| 50°-60° | 4028.9 | 19.8 |
| 60°-70° | 5053.6 | 24.8 |
| 70°-80° | 3778.7 | 18.5 |
| 80°-90° | 468.5 | 2.3 |
| 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° | 20393.0 | 100.0 |
| 0°-180° | 20393.0 | 100.0 |

Coefficient of Utilization



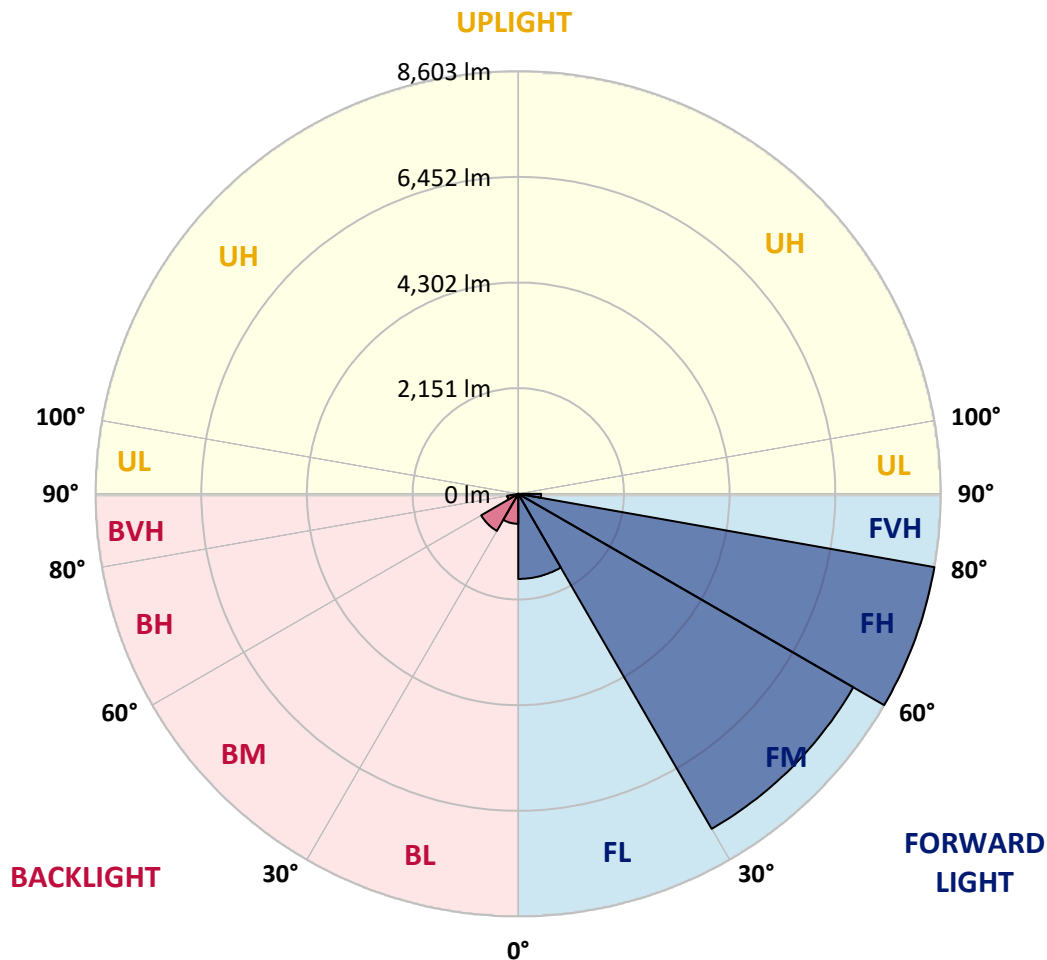
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1732.9 | 8.5 | | | |
| FM (30°-60°) | 7876.7 | 38.6 | | | |
| FH (60°-80°) | 8603.1 | 42.2 | | | G4/12000 |
| FVH (80°-90°) | 464.2 | 2.3 | | | G3/500 |
| BL (0°-30°) | 611.1 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 871.5 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 229.2 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.4 | 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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 |
| 2.5° | 3980.6 | 3981.4 | 3972.1 | 3956.9 | 3937.4 | 3927.2 | 3910.3 | 3883.2 | 3854.4 | 3802.7 | 3746.8 |
| 5° | 4061.9 | 4061.9 | 4050.0 | 4029.7 | 3998.4 | 3989.0 | 3956.9 | 3913.7 | 3854.4 | 3770.5 | 3676.5 |
| 7.5° | 4053.4 | 4055.1 | 4039.0 | 4017.8 | 3986.5 | 3978.0 | 3939.1 | 3890.8 | 3817.1 | 3715.5 | 3595.2 |
| 10° | 4009.4 | 4013.6 | 4000.9 | 3990.7 | 3961.9 | 3952.6 | 3916.2 | 3867.9 | 3794.2 | 3685.8 | 3547.8 |
| 12.5° | 3964.5 | 3968.7 | 3972.9 | 3982.3 | 3964.5 | 3961.1 | 3932.3 | 3891.6 | 3821.3 | 3708.7 | 3552.9 |
| 15° | 3935.7 | 3944.2 | 3974.6 | 4011.1 | 4015.3 | 4011.9 | 3993.3 | 3955.2 | 3884.0 | 3767.1 | 3589.3 |
| 17.5° | 3935.7 | 3949.2 | 4012.8 | 4082.2 | 4106.8 | 4109.3 | 4093.2 | 4039.9 | 3955.2 | 3829.8 | 3623.2 |
| 20° | 3968.7 | 3987.3 | 4086.4 | 4184.7 | 4225.3 | 4225.3 | 4194.0 | 4119.5 | 4020.4 | 3886.6 | 3646.0 |
| 22.5° | 4053.4 | 4078.0 | 4202.5 | 4316.0 | 4359.1 | 4349.8 | 4307.5 | 4199.1 | 4088.1 | 3950.9 | 3674.8 |
| 25° | 4220.3 | 4238.9 | 4368.5 | 4482.8 | 4509.1 | 4487.9 | 4434.5 | 4295.6 | 4174.5 | 4038.2 | 3727.3 |
| 27.5° | 4435.4 | 4437.9 | 4571.7 | 4668.3 | 4652.2 | 4637.8 | 4570.9 | 4416.7 | 4299.0 | 4162.7 | 3818.0 |
| 30° | 4671.7 | 4671.7 | 4789.4 | 4863.1 | 4813.9 | 4802.1 | 4735.2 | 4563.3 | 4458.2 | 4332.0 | 3946.7 |
| 32.5° | 4900.3 | 4910.5 | 5006.2 | 5052.8 | 4997.7 | 4985.9 | 4920.7 | 4748.7 | 4670.0 | 4590.4 | 4147.4 |
| 35° | 5121.4 | 5129.0 | 5219.6 | 5245.0 | 5192.5 | 5195.9 | 5149.3 | 5003.7 | 4974.0 | 4963.9 | 4449.8 |
| 37.5° | 5335.7 | 5337.4 | 5429.7 | 5445.8 | 5419.5 | 5448.3 | 5452.5 | 5323.8 | 5378.9 | 5461.0 | 4875.8 |
| 40° | 5531.3 | 5533.0 | 5624.5 | 5666.0 | 5710.8 | 5748.1 | 5781.1 | 5712.5 | 5894.6 | 6085.2 | 5383.1 |
| 42.5° | 5688.0 | 5705.8 | 5821.8 | 5900.6 | 6019.1 | 6090.3 | 6180.0 | 6176.7 | 6508.7 | 6794.9 | 5996.3 |
| 45° | 5826.0 | 5856.5 | 6018.3 | 6156.3 | 6359.6 | 6473.1 | 6613.7 | 6723.8 | 7199.8 | 7585.1 | 6617.1 |
| 47.5° | 6008.1 | 6036.9 | 6221.5 | 6447.7 | 6718.7 | 6867.8 | 7100.7 | 7338.6 | 7959.4 | 8360.9 | 7223.5 |
| 50° | 6264.7 | 6252.0 | 6434.1 | 6758.5 | 7106.6 | 7302.2 | 7634.2 | 7990.8 | 8713.2 | 9036.7 | 7580.0 |
| 52.5° | 6538.3 | 6533.2 | 6667.9 | 7096.4 | 7563.9 | 7792.6 | 8231.3 | 8664.9 | 9434.0 | 9502.6 | 7743.5 |
| 55° | 6877.1 | 6840.7 | 6954.1 | 7481.8 | 8106.8 | 8352.4 | 8869.0 | 9332.3 | 10008.2 | 9765.1 | 7825.6 |
| 57.5° | 7231.9 | 7171.8 | 7280.2 | 7911.2 | 8719.1 | 9009.6 | 9575.4 | 9982.8 | 10390.1 | 9944.7 | 7824.8 |
| 60° | 7598.7 | 7527.5 | 7656.2 | 8448.1 | 9479.7 | 9815.9 | 10341.0 | 10422.3 | 10746.7 | 10035.3 | 7767.2 |
| 62.5° | 7905.2 | 7862.9 | 8054.3 | 9022.3 | 10329.2 | 10659.5 | 10919.5 | 10822.1 | 11047.4 | 10105.6 | 7632.5 |
| 65° | 8229.6 | 8232.2 | 8541.3 | 9692.3 | 11232.0 | 11454.7 | 11476.7 | 11340.4 | 11298.9 | 10091.2 | 7176.9 |
| 67.5° | 8668.3 | 8709.0 | 9224.8 | 10601.9 | 12110.3 | 12282.2 | 12280.5 | 11901.9 | 11482.7 | 9518.6 | 6166.5 |
| 70° | 9132.4 | 9228.1 | 10012.4 | 11642.7 | 13069.0 | 13243.4 | 13153.7 | 12259.3 | 10811.9 | 7696.9 | 4364.2 |
| 72.5° | 9054.5 | 9220.5 | 10450.3 | 12299.1 | 13757.5 | 13890.5 | 13307.0 | 11381.0 | 8545.5 | 4473.5 | 1858.2 |
| 75° | 6985.5 | 7177.7 | 9582.2 | 11648.7 | 13035.1 | 12915.7 | 11433.6 | 8856.3 | 4670.0 | 1248.4 | 418.4 |
| 77.5° | 3690.1 | 3792.6 | 6330.0 | 8874.1 | 10164.0 | 9914.2 | 8054.3 | 4913.0 | 1423.7 | 309.1 | 188.0 |
| 80° | 1932.7 | 1956.4 | 2758.5 | 5035.0 | 6273.2 | 6274.9 | 4773.3 | 2158.0 | 586.9 | 158.4 | 126.2 |
| 82.5° | 1034.9 | 1055.3 | 1457.6 | 2326.5 | 3286.9 | 2979.5 | 1827.7 | 1187.4 | 341.3 | 89.8 | 121.1 |
| 85° | 249.0 | 253.2 | 826.6 | 1062.9 | 1292.4 | 923.2 | 542.9 | 996.8 | 92.3 | 52.5 | 98.2 |
| 87.5° | 95.7 | 97.4 | 306.6 | 459.9 | 329.5 | 213.4 | 254.1 | 371.8 | 11.9 | 20.3 | 15.2 |
| 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-SA6B-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 | 3750.2 |
| 2.5° | 3712.9 | 3690.9 | 3636.7 | 3568.1 | 3507.1 | 3463.1 | 3397.0 | 3353.8 | 3325.0 | 3324.2 | 3313.2 |
| 5° | 3618.9 | 3574.0 | 3457.2 | 3318.3 | 3192.1 | 3078.6 | 2944.8 | 2838.9 | 2760.1 | 2747.4 | 2720.3 |
| 7.5° | 3518.1 | 3444.5 | 3264.9 | 3048.1 | 2836.4 | 2621.2 | 2371.4 | 2216.4 | 2083.4 | 2019.9 | 2013.2 |
| 10° | 3456.3 | 3353.0 | 3098.1 | 2784.7 | 2452.7 | 2102.9 | 1776.0 | 1549.9 | 1386.4 | 1339.8 | 1305.1 |
| 12.5° | 3443.6 | 3307.3 | 2969.3 | 2537.4 | 2063.1 | 1600.7 | 1239.1 | 998.5 | 868.1 | 826.6 | 815.6 |
| 15° | 3456.3 | 3286.1 | 2860.9 | 2292.6 | 1668.5 | 1135.7 | 831.7 | 691.9 | 642.8 | 631.0 | 630.1 |
| 17.5° | 3463.9 | 3260.7 | 2738.1 | 2020.8 | 1285.6 | 811.4 | 636.9 | 596.2 | 588.6 | 587.8 | 589.5 |
| 20° | 3463.1 | 3221.7 | 2591.6 | 1717.6 | 956.2 | 637.7 | 575.9 | 567.4 | 565.7 | 566.6 | 565.7 |
| 22.5° | 3457.2 | 3176.0 | 2430.7 | 1405.1 | 722.4 | 570.0 | 549.7 | 544.6 | 543.7 | 543.7 | 543.7 |
| 25° | 3468.2 | 3139.6 | 2253.7 | 1106.1 | 595.4 | 538.6 | 525.9 | 521.7 | 520.9 | 520.9 | 519.2 |
| 27.5° | 3508.0 | 3119.2 | 2059.7 | 851.2 | 537.8 | 510.7 | 500.5 | 499.7 | 497.1 | 496.3 | 498.0 |
| 30° | 3572.4 | 3119.2 | 1847.2 | 662.3 | 503.1 | 481.9 | 474.3 | 472.6 | 471.7 | 470.9 | 471.7 |
| 32.5° | 3685.8 | 3143.0 | 1615.1 | 550.5 | 470.0 | 449.7 | 444.6 | 447.2 | 444.6 | 444.6 | 444.6 |
| 35° | 3890.8 | 3214.1 | 1372.0 | 480.2 | 435.3 | 418.4 | 413.3 | 416.7 | 415.0 | 415.0 | 414.1 |
| 37.5° | 4189.8 | 3346.2 | 1127.3 | 437.9 | 404.8 | 387.0 | 380.3 | 385.4 | 383.7 | 383.7 | 382.8 |
| 40° | 4553.9 | 3538.5 | 894.4 | 405.7 | 375.2 | 356.6 | 350.6 | 353.2 | 348.9 | 348.9 | 350.6 |
| 42.5° | 5003.7 | 3782.4 | 691.1 | 374.3 | 345.5 | 327.8 | 324.4 | 321.8 | 314.2 | 310.0 | 310.8 |
| 45° | 5503.4 | 4036.5 | 538.6 | 343.9 | 317.6 | 303.2 | 298.1 | 291.3 | 278.6 | 270.2 | 271.0 |
| 47.5° | 5949.7 | 4232.1 | 437.9 | 314.2 | 292.2 | 281.2 | 273.6 | 260.9 | 242.2 | 232.1 | 232.9 |
| 50° | 6184.3 | 4261.8 | 372.6 | 284.6 | 268.5 | 257.5 | 246.5 | 227.0 | 205.0 | 193.9 | 193.1 |
| 52.5° | 6244.4 | 4122.9 | 324.4 | 257.5 | 244.8 | 232.1 | 217.7 | 191.4 | 166.8 | 155.0 | 153.3 |
| 55° | 6266.4 | 3911.1 | 281.2 | 232.1 | 219.4 | 205.0 | 186.3 | 156.7 | 133.8 | 122.0 | 121.1 |
| 57.5° | 6193.6 | 3595.2 | 247.3 | 209.2 | 193.9 | 176.2 | 153.3 | 125.3 | 103.3 | 94.0 | 94.0 |
| 60° | 6031.8 | 3167.5 | 221.0 | 184.6 | 167.7 | 147.4 | 123.7 | 97.4 | 77.1 | 69.4 | 69.4 |
| 62.5° | 5709.2 | 2613.6 | 196.5 | 159.2 | 143.1 | 122.0 | 99.9 | 73.7 | 54.2 | 50.0 | 50.8 |
| 65° | 5100.2 | 1982.7 | 171.9 | 136.4 | 122.0 | 100.8 | 77.9 | 52.5 | 36.4 | 36.4 | 38.1 |
| 67.5° | 4159.3 | 1377.1 | 146.5 | 116.0 | 105.0 | 82.2 | 59.3 | 36.4 | 25.4 | 28.8 | 32.2 |
| 70° | 2753.4 | 772.4 | 125.3 | 95.7 | 89.8 | 65.2 | 44.0 | 24.6 | 20.3 | 27.1 | 33.0 |
| 72.5° | 1039.2 | 300.7 | 105.0 | 77.1 | 77.9 | 50.0 | 31.3 | 18.6 | 18.6 | 29.6 | 39.0 |
| 75° | 289.7 | 147.4 | 75.4 | 56.7 | 61.0 | 36.4 | 22.9 | 16.1 | 17.8 | 33.9 | 45.7 |
| 77.5° | 170.2 | 108.4 | 49.1 | 33.0 | 41.5 | 25.4 | 15.2 | 12.7 | 15.2 | 28.8 | 44.0 |
| 80° | 137.2 | 57.6 | 28.8 | 16.9 | 22.9 | 14.4 | 10.2 | 7.6 | 4.2 | 11.0 | 22.9 |
| 82.5° | 137.2 | 34.7 | 13.6 | 11.9 | 11.9 | 7.6 | 5.1 | 3.4 | 0.8 | 0.0 | 5.9 |
| 85° | 92.3 | 14.4 | 8.5 | 7.6 | 5.9 | 2.5 | 1.7 | 0.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 15.2 | 5.9 | 3.4 | 1.7 | 0.8 | 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)