

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: P322374

Luminaire Tested: **GLEON-SA0C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322374
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-SA0C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA 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: 37504 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

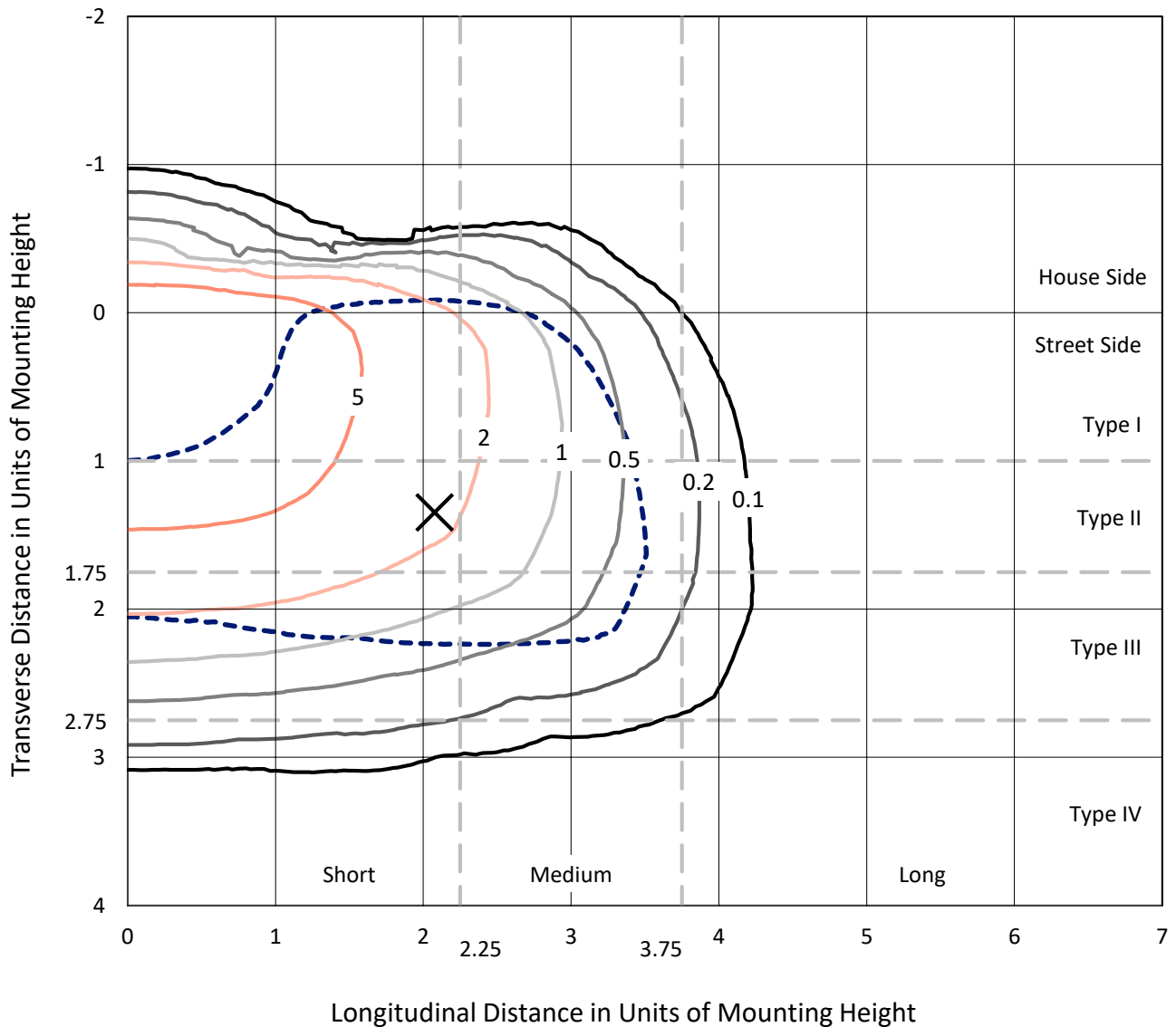
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

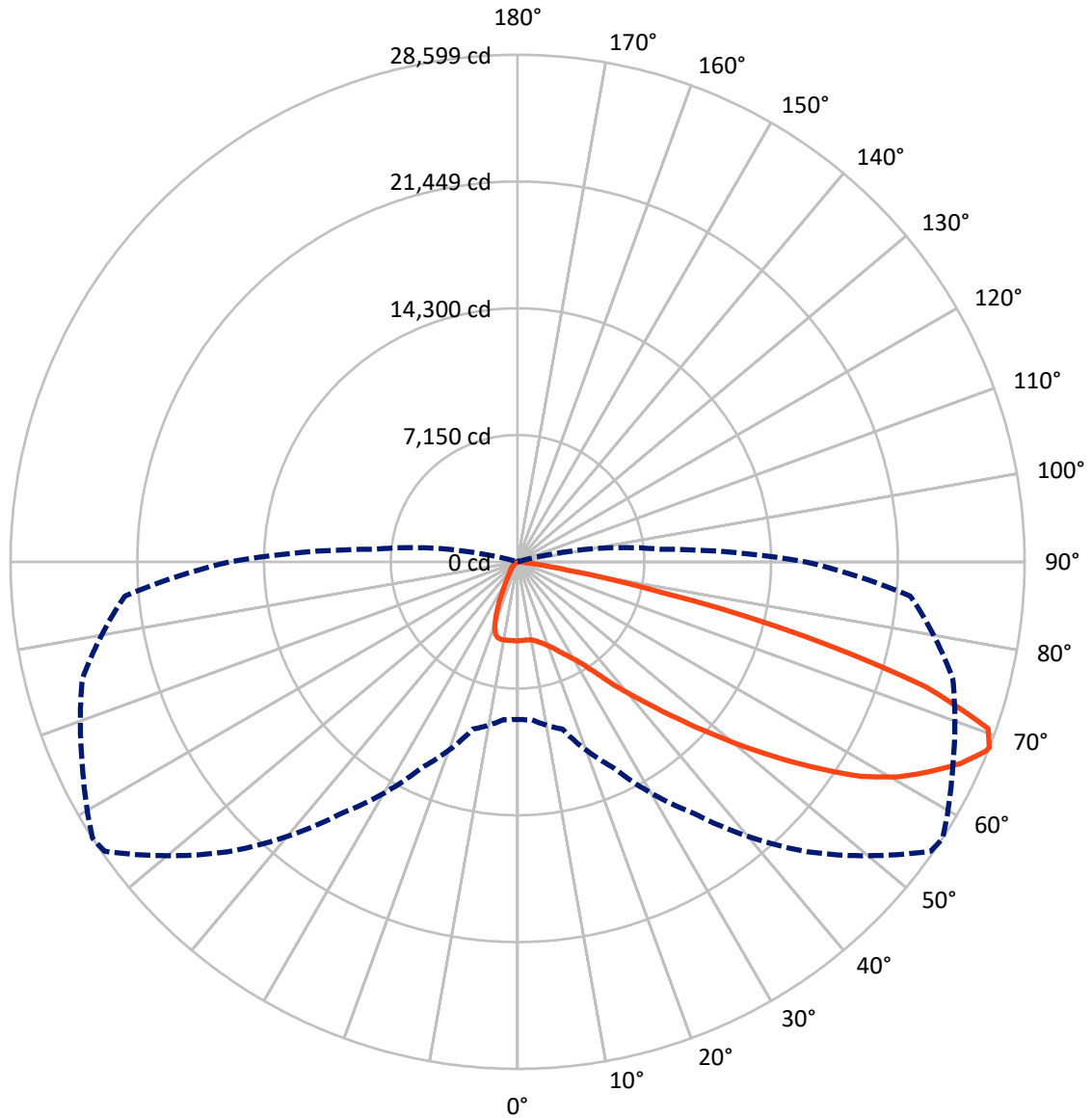
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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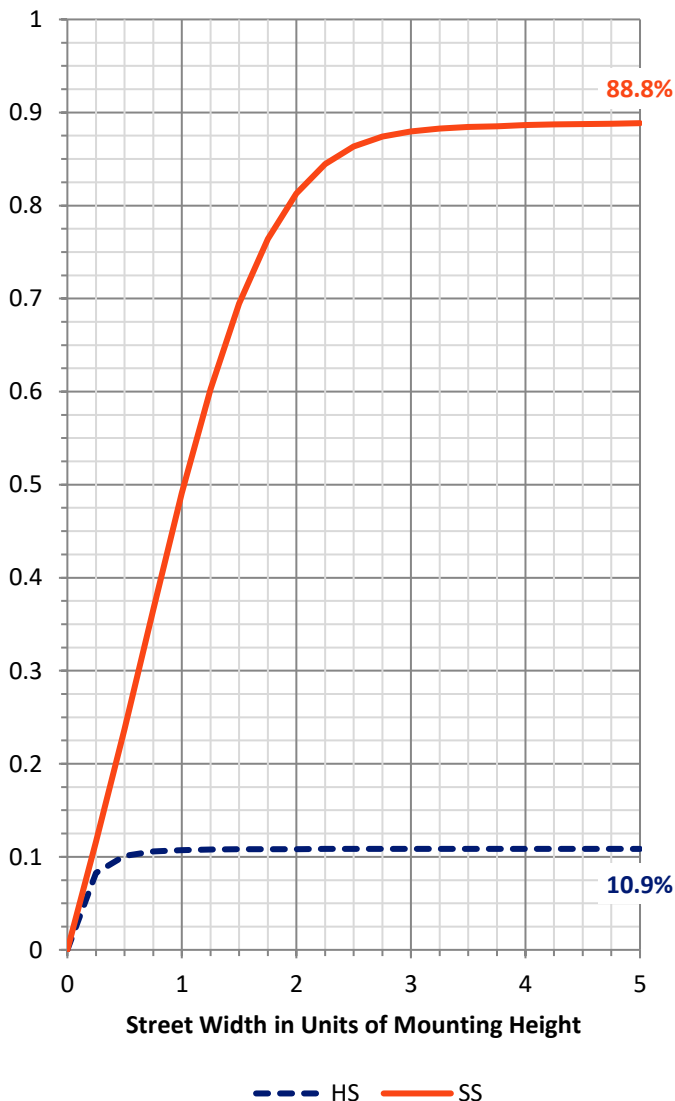
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4112.5 | 0.0 | 4112.5 |
| | % Fixture | 11.0 | 0.0 | 11.0 |
| Street Side | Lumens | 33391.5 | 0.0 | 33391.5 |
| | % Fixture | 89.0 | 0.0 | 89.0 |
| Total | Lumens | 37504.0 | 0.0 | 37504.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 417.1 | 1.1 |
| 10°-20° | 1155.7 | 3.1 |
| 20°-30° | 1993.7 | 5.3 |
| 30°-40° | 3441.0 | 9.2 |
| 40°-50° | 5885.9 | 15.7 |
| 50°-60° | 9417.0 | 25.1 |
| 60°-70° | 10880.3 | 29.0 |
| 70°-80° | 4157.5 | 11.1 |
| 80°-90° | 155.9 | 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° | 37504.0 | 100.0 |
| 0°-180° | 37504.0 | 100.0 |

Coefficient of Utilization



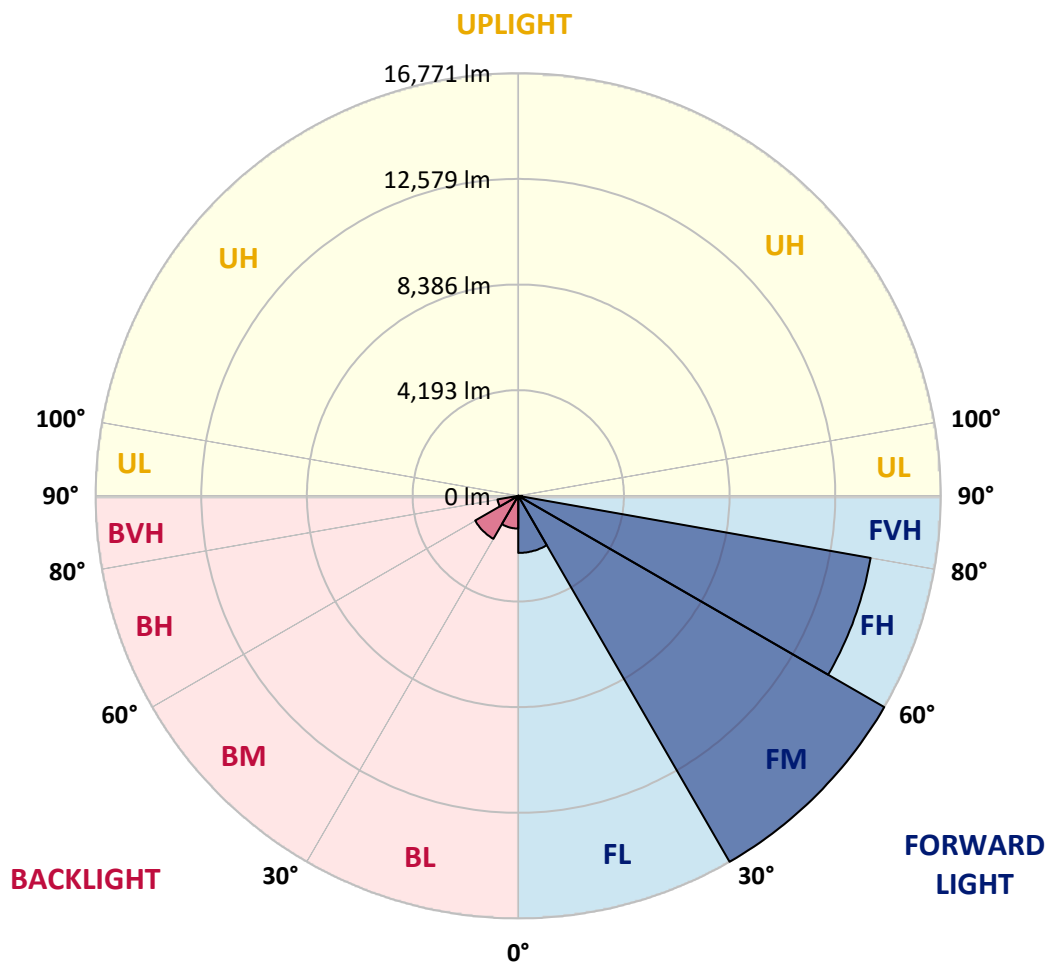
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2266.8 | 6.0 | | | |
| FM (30°-60°) | 16771.5 | 44.7 | | | |
| FH (60°-80°) | 14200.2 | 37.9 | | | G5 |
| FVH (80°-90°) | 153.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1299.7 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 1972.5 | 5.3 | B2/2500 | | |
| BH (60°-80°) | 837.5 | 2.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 |
| 2.5° | 4351.8 | 4371.3 | 4385.5 | 4394.4 | 4405.0 | 4428.1 | 4435.2 | 4445.8 | 4451.1 | 4451.1 | 4463.6 |
| 5° | 4179.8 | 4201.1 | 4231.2 | 4256.1 | 4305.7 | 4369.6 | 4415.7 | 4433.4 | 4465.3 | 4493.7 | 4509.7 |
| 7.5° | 4020.2 | 4045.0 | 4080.5 | 4139.0 | 4224.2 | 4327.0 | 4422.8 | 4447.6 | 4509.7 | 4570.0 | 4600.1 |
| 10° | 3917.4 | 3936.9 | 3983.0 | 4066.3 | 4178.0 | 4321.7 | 4456.5 | 4486.6 | 4593.0 | 4694.1 | 4750.8 |
| 12.5° | 3881.9 | 3899.6 | 3947.5 | 4041.5 | 4179.8 | 4348.3 | 4534.5 | 4578.8 | 4734.9 | 4882.1 | 4961.9 |
| 15° | 3933.3 | 3936.9 | 3988.3 | 4077.0 | 4213.5 | 4413.9 | 4663.9 | 4717.1 | 4914.0 | 5105.5 | 5204.8 |
| 17.5° | 4131.9 | 4116.0 | 4142.6 | 4181.6 | 4289.8 | 4500.8 | 4800.5 | 4880.3 | 5142.8 | 5368.0 | 5462.0 |
| 20° | 4628.5 | 4628.5 | 4568.2 | 4461.8 | 4463.6 | 4635.6 | 4984.9 | 5075.4 | 5396.3 | 5657.0 | 5742.2 |
| 22.5° | 5477.9 | 5462.0 | 5341.4 | 5080.7 | 4841.3 | 4867.9 | 5210.1 | 5327.2 | 5701.4 | 5979.8 | 6008.2 |
| 25° | 6499.4 | 6479.9 | 6293.7 | 5926.6 | 5511.6 | 5243.8 | 5515.2 | 5649.9 | 6064.9 | 6311.4 | 6252.9 |
| 27.5° | 7581.1 | 7565.2 | 7380.7 | 6925.0 | 6334.5 | 5843.2 | 5878.7 | 6006.4 | 6435.5 | 6678.5 | 6492.3 |
| 30° | 8629.2 | 8634.5 | 8451.9 | 7983.7 | 7315.1 | 6607.6 | 6339.8 | 6414.3 | 6795.5 | 7042.0 | 6776.0 |
| 32.5° | 9625.8 | 9632.9 | 9475.1 | 8951.9 | 8327.7 | 7496.0 | 6978.2 | 6958.7 | 7214.0 | 7457.0 | 7152.0 |
| 35° | 10514.3 | 10532.0 | 10423.8 | 10017.7 | 9356.3 | 8485.5 | 7806.3 | 7760.2 | 7808.1 | 8083.0 | 7728.3 |
| 37.5° | 11370.8 | 11381.5 | 11299.9 | 10957.6 | 10404.3 | 9572.6 | 8852.6 | 8787.0 | 8684.2 | 8895.2 | 8489.1 |
| 40° | 12308.9 | 12282.3 | 12188.3 | 11878.0 | 11402.7 | 10773.2 | 9976.9 | 9863.5 | 9684.3 | 9872.3 | 9489.3 |
| 42.5° | 13181.4 | 13151.3 | 13167.2 | 12816.1 | 12415.3 | 12007.4 | 11287.5 | 11092.4 | 10987.8 | 11204.1 | 10716.4 |
| 45° | 14272.0 | 14256.1 | 14309.3 | 14004.3 | 13679.7 | 13383.6 | 12789.5 | 12576.7 | 12530.6 | 12784.2 | 12200.7 |
| 47.5° | 15348.5 | 15387.5 | 15552.4 | 15422.9 | 15291.7 | 15031.0 | 14380.2 | 14284.4 | 14312.8 | 14619.6 | 13766.6 |
| 50° | 16245.8 | 16291.9 | 16744.1 | 16893.1 | 17082.8 | 16930.3 | 16277.7 | 16219.2 | 16330.9 | 16607.6 | 15451.3 |
| 52.5° | 16894.8 | 16988.8 | 17551.0 | 18237.3 | 18928.9 | 19031.7 | 18380.9 | 18327.7 | 18478.5 | 18521.0 | 16753.0 |
| 55° | 17345.3 | 17428.6 | 18065.3 | 19320.8 | 20728.9 | 21172.2 | 20767.9 | 20562.2 | 20533.8 | 20113.5 | 18122.0 |
| 57.5° | 17425.1 | 17416.2 | 18331.3 | 20021.3 | 22140.5 | 23284.3 | 23028.9 | 22826.7 | 22245.1 | 21585.4 | 19691.4 |
| 60° | 16974.6 | 17026.1 | 18088.3 | 20264.2 | 23027.1 | 24882.1 | 24901.6 | 24639.1 | 23732.9 | 23016.5 | 21213.0 |
| 62.5° | 15587.9 | 15797.1 | 16870.0 | 19627.6 | 23016.5 | 25525.8 | 26274.2 | 26073.8 | 24990.2 | 24188.7 | 22755.8 |
| 65° | 13339.2 | 13413.7 | 14437.0 | 17446.4 | 21461.3 | 25256.3 | 27510.2 | 27435.7 | 26123.4 | 25327.2 | 23548.5 |
| 67.5° | 9741.1 | 9579.7 | 10654.4 | 13738.3 | 18169.9 | 23685.1 | 28396.9 | 28490.9 | 26997.7 | 25561.3 | 22704.4 |
| 68° | 8889.9 | 8937.8 | 9774.8 | 12821.4 | 17308.0 | 23130.0 | 28455.4 | 28599.0 | 27084.6 | 25408.8 | 22243.3 |
| 70° | 5298.8 | 5391.0 | 6137.6 | 8827.8 | 13167.2 | 19989.4 | 27824.1 | 28152.2 | 26566.8 | 23835.8 | 19239.2 |
| 72.5° | 1353.1 | 1463.0 | 2168.8 | 3951.1 | 7520.8 | 14084.1 | 23488.2 | 24043.3 | 23066.1 | 19336.8 | 12988.1 |
| 75° | 556.8 | 585.2 | 775.0 | 1301.6 | 2801.9 | 6345.1 | 15481.5 | 16669.6 | 15990.4 | 11576.5 | 5869.8 |
| 77.5° | 384.8 | 404.3 | 498.3 | 721.8 | 1213.0 | 2151.1 | 7590.0 | 8448.3 | 7611.3 | 3951.1 | 1280.4 |
| 80° | 276.6 | 292.6 | 356.4 | 480.6 | 696.9 | 767.9 | 2473.8 | 2860.4 | 2271.7 | 867.2 | 317.4 |
| 82.5° | 164.9 | 177.3 | 266.0 | 342.3 | 423.8 | 367.1 | 615.4 | 698.7 | 657.9 | 430.9 | 141.9 |
| 85° | 81.6 | 95.8 | 179.1 | 244.7 | 228.8 | 154.3 | 188.0 | 209.3 | 258.9 | 262.5 | 76.3 |
| 87.5° | 5.3 | 10.6 | 104.6 | 147.2 | 63.8 | 35.5 | 55.0 | 67.4 | 92.2 | 129.5 | 31.9 |
| 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-SA0C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 | 4456.5 |
| 2.5° | 4468.9 | 4470.7 | 4458.2 | 4452.9 | 4456.5 | 4435.2 | 4426.3 | 4429.9 | 4429.9 | 4435.2 | 4426.3 |
| 5° | 4513.2 | 4513.2 | 4491.9 | 4463.6 | 4447.6 | 4406.8 | 4380.2 | 4373.1 | 4367.8 | 4364.2 | 4357.2 |
| 7.5° | 4609.0 | 4598.3 | 4561.1 | 4499.0 | 4445.8 | 4357.2 | 4289.8 | 4254.3 | 4236.6 | 4229.5 | 4224.2 |
| 10° | 4763.3 | 4743.7 | 4681.7 | 4566.4 | 4444.1 | 4286.2 | 4139.0 | 4034.4 | 3947.5 | 3912.0 | 3890.8 |
| 12.5° | 4970.7 | 4942.4 | 4837.7 | 4646.2 | 4431.6 | 4140.8 | 3821.6 | 3514.8 | 3229.3 | 3112.3 | 3053.7 |
| 15° | 5210.1 | 5169.4 | 5004.4 | 4713.6 | 4358.9 | 3812.7 | 3119.3 | 2582.0 | 2186.6 | 2037.6 | 1973.8 |
| 17.5° | 5453.1 | 5399.9 | 5149.8 | 4756.2 | 4140.8 | 3133.5 | 2188.3 | 1652.8 | 1388.5 | 1317.6 | 1292.8 |
| 20° | 5697.8 | 5619.8 | 5275.8 | 4724.2 | 3647.8 | 2259.3 | 1443.5 | 1207.7 | 1131.4 | 1110.1 | 1103.0 |
| 22.5° | 5930.1 | 5809.5 | 5389.3 | 4600.1 | 2888.8 | 1516.2 | 1142.0 | 1067.6 | 1042.7 | 1030.3 | 1026.8 |
| 25° | 6132.3 | 5963.8 | 5488.6 | 4217.1 | 2044.7 | 1145.6 | 1028.6 | 1003.7 | 971.8 | 948.7 | 950.5 |
| 27.5° | 6322.0 | 6118.1 | 5548.9 | 3585.7 | 1363.7 | 978.9 | 952.3 | 918.6 | 860.1 | 826.4 | 826.4 |
| 30° | 6550.8 | 6323.8 | 5593.2 | 2759.4 | 1003.7 | 865.4 | 844.1 | 792.7 | 712.9 | 668.6 | 668.6 |
| 32.5° | 6894.8 | 6635.9 | 5564.8 | 1936.5 | 831.7 | 760.8 | 711.1 | 640.2 | 553.3 | 510.7 | 509.0 |
| 35° | 7421.5 | 7118.3 | 5362.7 | 1269.7 | 734.2 | 661.5 | 581.7 | 494.8 | 418.5 | 383.0 | 381.3 |
| 37.5° | 8130.9 | 7763.8 | 4908.7 | 908.0 | 657.9 | 569.2 | 473.5 | 377.7 | 321.0 | 297.9 | 296.2 |
| 40° | 9051.3 | 8513.9 | 4259.6 | 735.9 | 587.0 | 480.6 | 365.3 | 292.6 | 253.6 | 235.9 | 237.6 |
| 42.5° | 10156.1 | 9317.3 | 3481.1 | 634.9 | 517.8 | 395.5 | 285.5 | 230.5 | 205.7 | 193.3 | 189.7 |
| 45° | 11383.2 | 10109.9 | 2665.4 | 565.7 | 448.7 | 319.2 | 223.4 | 182.7 | 163.1 | 156.1 | 156.1 |
| 47.5° | 12732.8 | 10881.4 | 1950.7 | 505.4 | 374.2 | 246.5 | 179.1 | 149.0 | 133.0 | 127.7 | 125.9 |
| 50° | 13958.1 | 11416.9 | 1406.3 | 441.6 | 306.8 | 195.1 | 145.4 | 124.1 | 113.5 | 106.4 | 106.4 |
| 52.5° | 14979.6 | 11585.4 | 1035.6 | 372.4 | 248.3 | 156.1 | 120.6 | 106.4 | 95.8 | 90.4 | 90.4 |
| 55° | 15878.7 | 11516.2 | 769.6 | 306.8 | 200.4 | 127.7 | 102.9 | 90.4 | 81.6 | 76.3 | 76.3 |
| 57.5° | 16740.6 | 11292.8 | 574.6 | 250.0 | 161.4 | 102.9 | 86.9 | 76.3 | 67.4 | 63.8 | 63.8 |
| 60° | 17444.6 | 10920.4 | 427.4 | 202.2 | 129.5 | 83.3 | 72.7 | 62.1 | 55.0 | 49.7 | 49.7 |
| 62.5° | 18015.6 | 10509.0 | 313.9 | 166.7 | 102.9 | 65.6 | 56.7 | 51.4 | 40.8 | 35.5 | 35.5 |
| 65° | 18019.2 | 9826.2 | 235.9 | 138.3 | 79.8 | 51.4 | 42.6 | 40.8 | 26.6 | 21.3 | 19.5 |
| 67.5° | 16715.7 | 8471.4 | 180.9 | 118.8 | 62.1 | 39.0 | 31.9 | 33.7 | 14.2 | 8.9 | 7.1 |
| 68° | 16242.2 | 8127.3 | 170.2 | 117.0 | 58.5 | 37.2 | 30.1 | 33.7 | 12.4 | 7.1 | 5.3 |
| 70° | 13693.9 | 6465.7 | 136.5 | 113.5 | 51.4 | 28.4 | 24.8 | 33.7 | 10.6 | 5.3 | 3.5 |
| 72.5° | 8758.6 | 3752.4 | 101.1 | 90.4 | 39.0 | 21.3 | 16.0 | 30.1 | 10.6 | 3.5 | 1.8 |
| 75° | 3727.6 | 1163.3 | 69.2 | 63.8 | 23.1 | 16.0 | 10.6 | 19.5 | 7.1 | 1.8 | 0.0 |
| 77.5° | 785.6 | 262.5 | 40.8 | 39.0 | 16.0 | 10.6 | 7.1 | 5.3 | 1.8 | 0.0 | 0.0 |
| 80° | 202.2 | 76.3 | 21.3 | 19.5 | 8.9 | 5.3 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 63.8 | 30.1 | 12.4 | 8.9 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 31.9 | 17.7 | 7.1 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.7 | 5.3 | 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)