

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: P383543

Luminaire Tested: **GLEON-SA8B-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42673.3 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

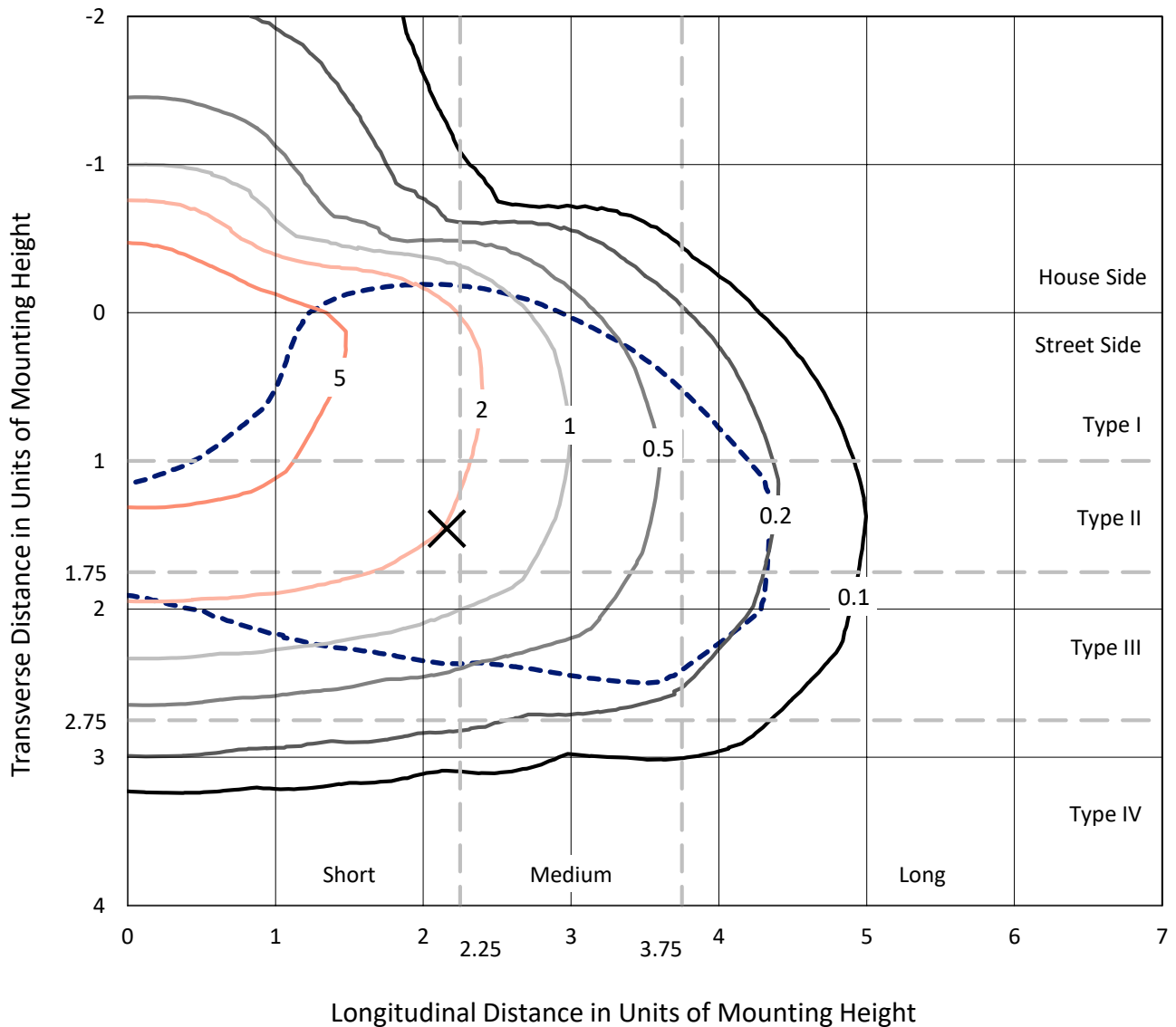
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

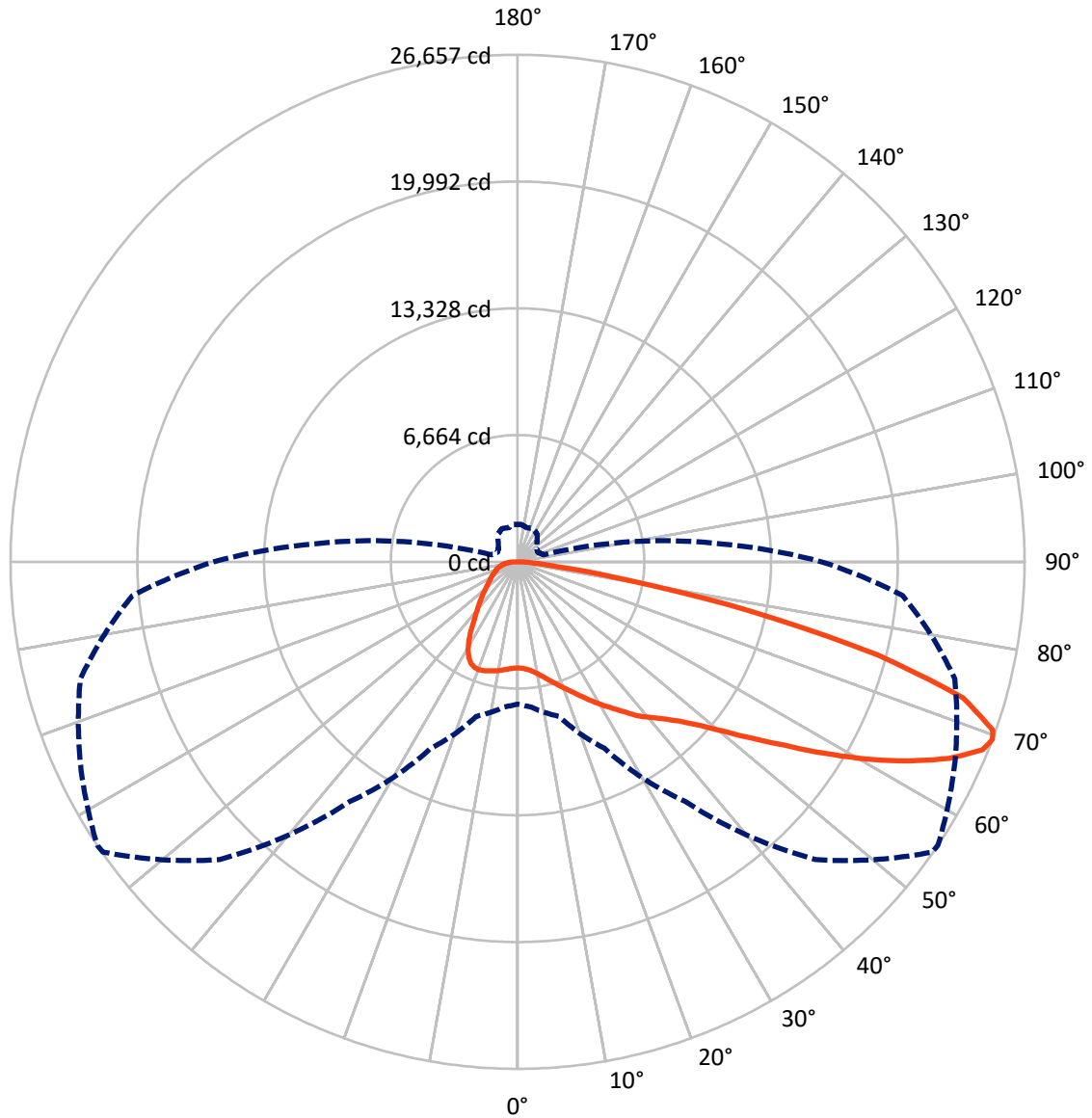
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9503.3 | 0.0 | 9503.3 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 33170.0 | 0.0 | 33170.0 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 42673.3 | 0.0 | 42673.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 547.9 | 1.3 |
| 10°-20° | 1761.9 | 4.1 |
| 20°-30° | 3075.7 | 7.2 |
| 30°-40° | 4418.1 | 10.4 |
| 40°-50° | 6114.4 | 14.3 |
| 50°-60° | 8958.5 | 21.0 |
| 60°-70° | 10922.0 | 25.6 |
| 70°-80° | 6038.4 | 14.2 |
| 80°-90° | 836.3 | 2.0 |
| 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° | 42673.3 | 100.0 |
| 0°-180° | 42673.3 | 100.0 |



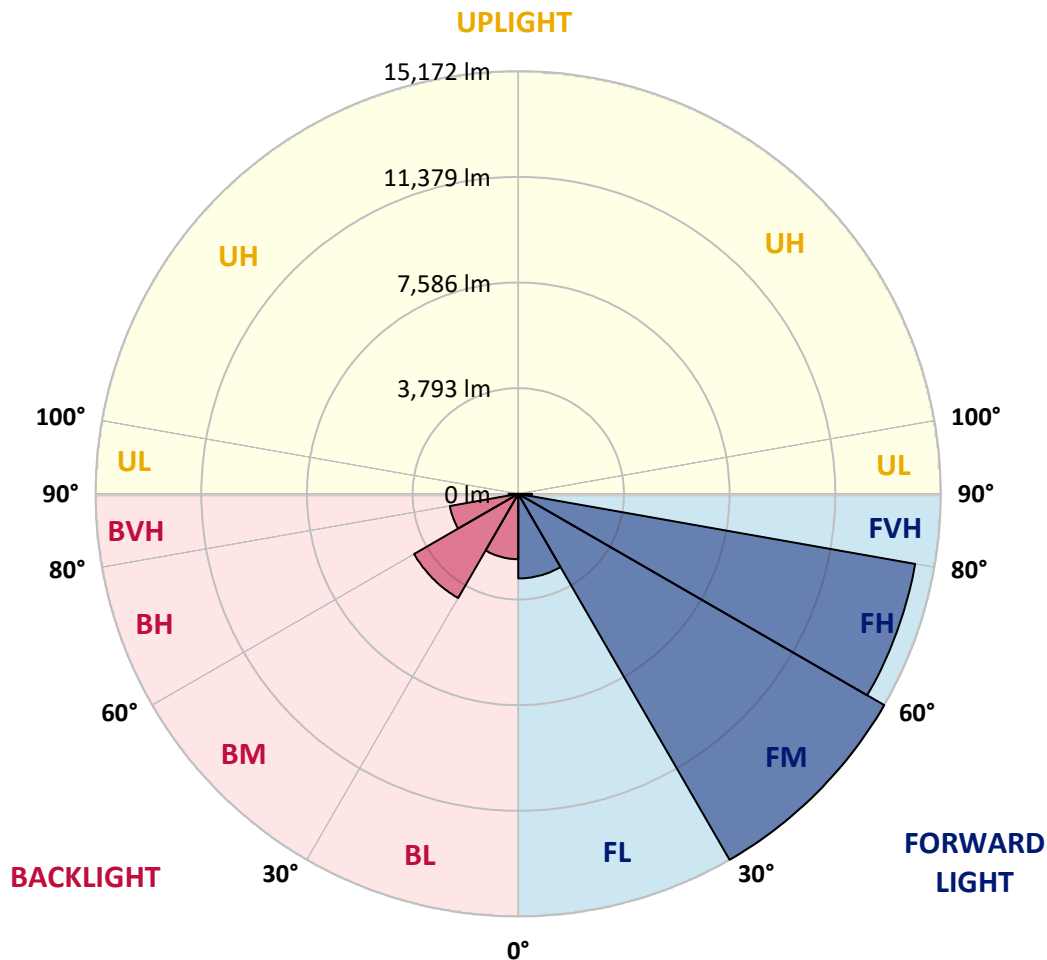
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3037.1 | 7.1 | | | |
| FM (30°-60°) | 15171.9 | 35.6 | | | |
| FH (60°-80°) | 14468.4 | 33.9 | | | G5 |
| FVH (80°-90°) | 492.6 | 1.2 | | | G3/500 |
| BL (0°-30°) | 2348.5 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 4319.0 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 2492.1 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 343.7 | 0.8 | | | G3/500 |
| 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° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 |
| 2.5° | 5614.2 | 5620.0 | 5615.6 | 5627.4 | 5614.2 | 5623.0 | 5615.6 | 5615.6 | 5611.3 | 5598.0 | 5583.3 |
| 5° | 5702.4 | 5714.1 | 5706.8 | 5718.6 | 5702.4 | 5705.4 | 5692.0 | 5692.0 | 5678.8 | 5651.0 | 5621.5 |
| 7.5° | 5840.5 | 5853.8 | 5847.9 | 5859.7 | 5837.6 | 5837.6 | 5819.9 | 5818.5 | 5792.1 | 5746.4 | 5712.6 |
| 10° | 6005.2 | 6022.8 | 6017.0 | 6034.6 | 6017.0 | 6022.8 | 6005.2 | 6005.2 | 5969.9 | 5905.3 | 5862.6 |
| 12.5° | 6244.8 | 6266.9 | 6250.7 | 6249.2 | 6241.9 | 6253.7 | 6238.9 | 6236.0 | 6203.6 | 6115.4 | 6056.6 |
| 15° | 6565.3 | 6588.8 | 6555.0 | 6552.0 | 6510.9 | 6506.5 | 6506.5 | 6502.1 | 6481.5 | 6375.7 | 6278.6 |
| 17.5° | 6934.3 | 6941.6 | 6912.3 | 6865.2 | 6812.3 | 6778.5 | 6774.0 | 6785.8 | 6785.8 | 6662.3 | 6508.0 |
| 20° | 7295.9 | 7309.1 | 7285.6 | 7232.7 | 7165.1 | 7115.1 | 7079.9 | 7103.3 | 7101.8 | 6954.8 | 6735.8 |
| 22.5° | 7689.9 | 7720.8 | 7685.5 | 7617.8 | 7538.5 | 7482.7 | 7420.9 | 7441.5 | 7443.0 | 7262.1 | 6959.3 |
| 25° | 8200.0 | 8172.1 | 8150.0 | 8054.4 | 7941.3 | 7884.0 | 7826.6 | 7847.2 | 7841.3 | 7592.9 | 7190.1 |
| 27.5° | 8651.3 | 8657.2 | 8627.8 | 8526.4 | 8395.6 | 8269.1 | 8266.2 | 8279.4 | 8257.3 | 7936.9 | 7407.7 |
| 30° | 9176.1 | 9179.1 | 9137.9 | 9046.7 | 8904.2 | 8741.0 | 8702.8 | 8724.8 | 8677.7 | 8263.2 | 7637.0 |
| 32.5° | 9698.0 | 9712.7 | 9667.1 | 9556.8 | 9442.2 | 9243.7 | 9167.3 | 9182.0 | 9064.4 | 8596.9 | 7873.6 |
| 35° | 10155.2 | 10175.8 | 10161.0 | 10087.5 | 9962.6 | 9792.1 | 9701.0 | 9692.1 | 9546.6 | 9005.6 | 8186.8 |
| 37.5° | 10621.2 | 10640.3 | 10624.1 | 10562.4 | 10512.4 | 10331.6 | 10283.1 | 10283.1 | 10030.3 | 9423.1 | 8585.1 |
| 40° | 11100.4 | 11129.9 | 11110.8 | 11025.4 | 10982.9 | 10900.5 | 10784.3 | 10756.5 | 10483.0 | 9924.4 | 9234.9 |
| 42.5° | 11545.9 | 11584.1 | 11660.6 | 11610.5 | 11523.8 | 11535.5 | 11301.8 | 11287.1 | 11087.2 | 10665.3 | 10050.8 |
| 45° | 12178.0 | 12233.8 | 12363.2 | 12325.0 | 12307.3 | 12242.7 | 11964.8 | 11951.6 | 11875.2 | 11662.0 | 11063.7 |
| 47.5° | 12867.5 | 12943.9 | 13177.7 | 13185.0 | 13374.6 | 13252.6 | 12874.8 | 12829.3 | 12846.9 | 12855.7 | 12300.0 |
| 50° | 13502.5 | 13586.3 | 13970.0 | 14150.9 | 14597.7 | 14624.2 | 14020.0 | 13978.8 | 14047.9 | 14250.8 | 13740.7 |
| 52.5° | 14009.7 | 14115.6 | 14594.7 | 15153.4 | 15919.3 | 16136.9 | 15429.8 | 15398.9 | 15450.4 | 15800.3 | 15369.5 |
| 55° | 14381.6 | 14496.3 | 15018.1 | 16035.5 | 17258.5 | 17642.2 | 17052.7 | 17023.3 | 17055.7 | 17501.1 | 17140.9 |
| 57.5° | 14468.3 | 14496.3 | 15253.3 | 16629.3 | 18389.0 | 19310.7 | 19038.8 | 18980.0 | 18821.2 | 19209.3 | 19096.1 |
| 60° | 14061.2 | 14172.8 | 15059.3 | 16838.1 | 19263.7 | 20955.7 | 21114.6 | 21041.0 | 20595.6 | 20913.2 | 20822.0 |
| 62.5° | 13235.0 | 13434.9 | 14334.6 | 16520.5 | 19606.2 | 22299.4 | 23150.5 | 23062.3 | 22295.0 | 22500.8 | 22062.7 |
| 65° | 11885.4 | 11970.8 | 12916.0 | 15425.4 | 19171.1 | 23159.4 | 24966.0 | 24922.0 | 23956.1 | 23634.2 | 22292.0 |
| 67.5° | 9471.6 | 9631.8 | 10434.5 | 13136.5 | 17390.9 | 23057.9 | 26370.0 | 26365.6 | 25041.0 | 24054.6 | 21479.1 |
| 69° | 7482.7 | 7648.8 | 8413.2 | 10821.1 | 15388.6 | 22130.3 | 26605.2 | 26656.6 | 25346.9 | 23798.8 | 20317.7 |
| 70° | 5965.5 | 6158.1 | 6682.9 | 9114.4 | 13611.3 | 20907.2 | 26409.7 | 26502.2 | 25288.0 | 23376.9 | 19246.1 |
| 72.5° | 2538.8 | 2694.6 | 3068.1 | 4698.4 | 8295.5 | 15612.1 | 24147.2 | 24497.1 | 23925.3 | 21395.3 | 15906.1 |
| 75° | 1108.4 | 1157.0 | 1326.0 | 1915.4 | 3682.5 | 8496.9 | 18916.8 | 19563.6 | 20457.3 | 18084.7 | 11848.7 |
| 77.5° | 811.5 | 832.1 | 924.7 | 1124.6 | 1652.4 | 3209.2 | 12164.8 | 12541.1 | 14753.6 | 13160.0 | 7268.0 |
| 80° | 627.7 | 642.4 | 714.4 | 826.2 | 1079.0 | 1298.1 | 5548.0 | 5871.5 | 8295.5 | 6759.3 | 3026.9 |
| 82.5° | 499.8 | 510.1 | 560.1 | 608.6 | 745.3 | 786.5 | 1841.9 | 2043.3 | 3062.2 | 1867.0 | 801.2 |
| 85° | 464.6 | 476.3 | 493.9 | 444.0 | 477.8 | 461.6 | 796.8 | 833.5 | 924.7 | 733.6 | 335.2 |
| 87.5° | 210.3 | 248.4 | 489.5 | 345.5 | 254.3 | 202.9 | 326.3 | 341.0 | 383.7 | 385.2 | 148.5 |
| 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-SA8B-735-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 | 5578.9 |
| 2.5° | 5592.1 | 5587.7 | 5595.1 | 5577.5 | 5599.4 | 5598.0 | 5590.7 | 5593.6 | 5608.3 | 5606.8 | 5608.3 |
| 5° | 5625.9 | 5623.0 | 5631.8 | 5618.5 | 5645.1 | 5653.8 | 5655.3 | 5668.6 | 5684.8 | 5689.1 | 5689.1 |
| 7.5° | 5711.2 | 5711.2 | 5715.6 | 5698.0 | 5715.6 | 5714.1 | 5706.8 | 5720.0 | 5736.2 | 5737.7 | 5736.2 |
| 10° | 5858.2 | 5859.7 | 5852.4 | 5806.7 | 5792.1 | 5752.4 | 5715.6 | 5717.1 | 5737.7 | 5753.8 | 5758.3 |
| 12.5° | 6043.4 | 6037.5 | 6005.2 | 5921.4 | 5859.7 | 5778.9 | 5740.6 | 5739.1 | 5759.7 | 5772.9 | 5777.4 |
| 15° | 6255.2 | 6238.9 | 6155.1 | 6018.4 | 5909.6 | 5830.3 | 5768.5 | 5753.8 | 5742.1 | 5727.3 | 5728.8 |
| 17.5° | 6455.1 | 6418.3 | 6278.6 | 6089.0 | 5974.3 | 5868.5 | 5749.4 | 5653.8 | 5587.7 | 5549.5 | 5537.8 |
| 20° | 6658.0 | 6585.9 | 6384.5 | 6155.1 | 6009.6 | 5817.0 | 5587.7 | 5393.7 | 5273.1 | 5217.2 | 5207.0 |
| 22.5° | 6843.1 | 6727.0 | 6483.0 | 6224.2 | 5981.7 | 5643.6 | 5283.4 | 5001.1 | 4833.5 | 4758.6 | 4764.5 |
| 25° | 7024.0 | 6862.2 | 6585.9 | 6272.8 | 5840.5 | 5337.8 | 4860.1 | 4513.1 | 4319.0 | 4235.3 | 4232.3 |
| 27.5° | 7182.7 | 6999.0 | 6697.6 | 6233.1 | 5577.5 | 4902.6 | 4358.7 | 4020.7 | 3858.9 | 3786.9 | 3775.1 |
| 30° | 7365.0 | 7171.0 | 6846.0 | 6081.6 | 5192.3 | 4399.9 | 3869.2 | 3631.1 | 3516.4 | 3444.4 | 3431.2 |
| 32.5° | 7587.0 | 7404.7 | 6968.1 | 5806.7 | 4699.8 | 3875.1 | 3487.0 | 3320.9 | 3216.5 | 3135.7 | 3121.0 |
| 35° | 7910.4 | 7713.4 | 6999.0 | 5412.8 | 4158.8 | 3460.5 | 3206.2 | 3035.6 | 2894.6 | 2790.2 | 2779.9 |
| 37.5° | 8316.1 | 8100.1 | 6928.4 | 4902.6 | 3634.0 | 3191.5 | 2972.5 | 2762.2 | 2578.5 | 2431.5 | 2408.0 |
| 40° | 8901.2 | 8574.9 | 6732.9 | 4314.6 | 3247.4 | 2984.2 | 2744.6 | 2505.0 | 2277.2 | 2105.1 | 2071.3 |
| 42.5° | 9603.9 | 9132.1 | 6433.0 | 3729.5 | 2963.6 | 2774.0 | 2518.3 | 2221.3 | 2003.7 | 1881.7 | 1864.0 |
| 45° | 10497.7 | 9711.2 | 6017.0 | 3217.9 | 2684.3 | 2563.8 | 2274.2 | 2000.8 | 1865.5 | 1775.8 | 1761.1 |
| 47.5° | 11517.9 | 10361.0 | 5580.3 | 2801.9 | 2447.6 | 2366.8 | 2078.7 | 1902.2 | 1794.9 | 1724.4 | 1711.2 |
| 50° | 12771.9 | 11094.5 | 5117.3 | 2460.9 | 2209.5 | 2130.1 | 1986.1 | 1847.9 | 1762.6 | 1708.2 | 1695.0 |
| 52.5° | 14186.1 | 11922.2 | 4783.6 | 2191.8 | 2012.5 | 1955.2 | 1937.5 | 1818.5 | 1749.4 | 1708.2 | 1695.0 |
| 55° | 15709.1 | 12764.5 | 4423.5 | 1965.5 | 1841.9 | 1858.2 | 1905.2 | 1821.4 | 1774.4 | 1724.4 | 1705.3 |
| 57.5° | 17233.5 | 13634.8 | 4022.0 | 1774.4 | 1706.8 | 1786.1 | 1883.1 | 1827.3 | 1787.6 | 1739.1 | 1721.4 |
| 60° | 18439.0 | 14186.1 | 3400.2 | 1614.1 | 1599.5 | 1706.8 | 1830.2 | 1783.2 | 1731.7 | 1733.2 | 1730.3 |
| 62.5° | 19002.0 | 14156.7 | 2713.7 | 1471.6 | 1492.2 | 1599.5 | 1745.0 | 1714.0 | 1671.5 | 1728.8 | 1733.2 |
| 65° | 18686.0 | 13451.1 | 2112.5 | 1342.2 | 1377.5 | 1487.7 | 1656.8 | 1680.3 | 1695.0 | 1805.2 | 1820.0 |
| 67.5° | 17359.9 | 12078.1 | 1636.2 | 1229.0 | 1273.1 | 1411.3 | 1665.6 | 1830.2 | 1849.3 | 1965.5 | 1964.0 |
| 69° | 15988.4 | 10790.3 | 1421.5 | 1170.2 | 1221.6 | 1430.4 | 1780.3 | 1925.8 | 1853.8 | 1977.2 | 1959.6 |
| 70° | 14838.8 | 9771.5 | 1306.9 | 1130.4 | 1198.1 | 1464.2 | 1856.7 | 1924.3 | 1831.7 | 1937.5 | 1908.2 |
| 72.5° | 11428.2 | 7029.8 | 1108.4 | 1056.9 | 1118.7 | 1401.0 | 1878.7 | 1881.7 | 1780.3 | 1800.9 | 1750.8 |
| 75° | 7838.4 | 4442.6 | 967.3 | 957.0 | 998.2 | 1262.8 | 1808.1 | 1797.9 | 1646.5 | 1617.1 | 1575.9 |
| 77.5° | 4322.0 | 2256.6 | 821.8 | 861.5 | 889.3 | 1118.7 | 1643.5 | 1628.8 | 1503.9 | 1442.1 | 1427.4 |
| 80° | 1667.0 | 987.9 | 693.9 | 765.9 | 783.5 | 968.8 | 1440.6 | 1427.4 | 1323.1 | 1243.7 | 1221.6 |
| 82.5° | 629.2 | 517.5 | 573.4 | 663.0 | 657.1 | 799.7 | 1220.1 | 1212.8 | 1111.3 | 995.3 | 960.0 |
| 85° | 291.1 | 310.2 | 454.2 | 546.8 | 504.2 | 592.5 | 976.1 | 989.4 | 865.9 | 727.7 | 727.7 |
| 87.5° | 123.5 | 173.5 | 321.9 | 413.0 | 339.5 | 399.8 | 715.9 | 683.6 | 627.7 | 435.1 | 408.7 |
| 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)