

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: P383139

Luminaire Tested: **GLEON-SA4D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383139
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29159.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

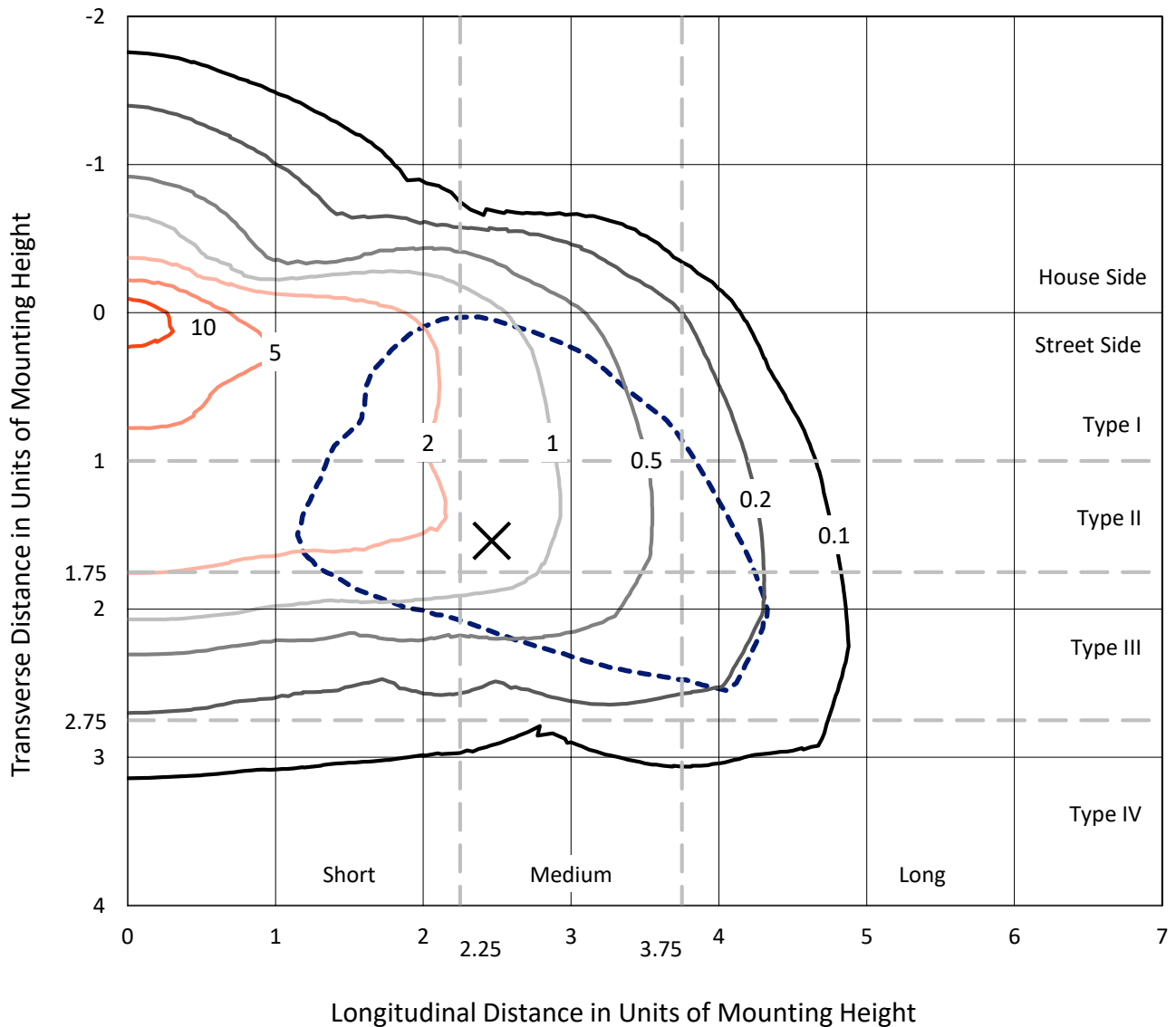
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

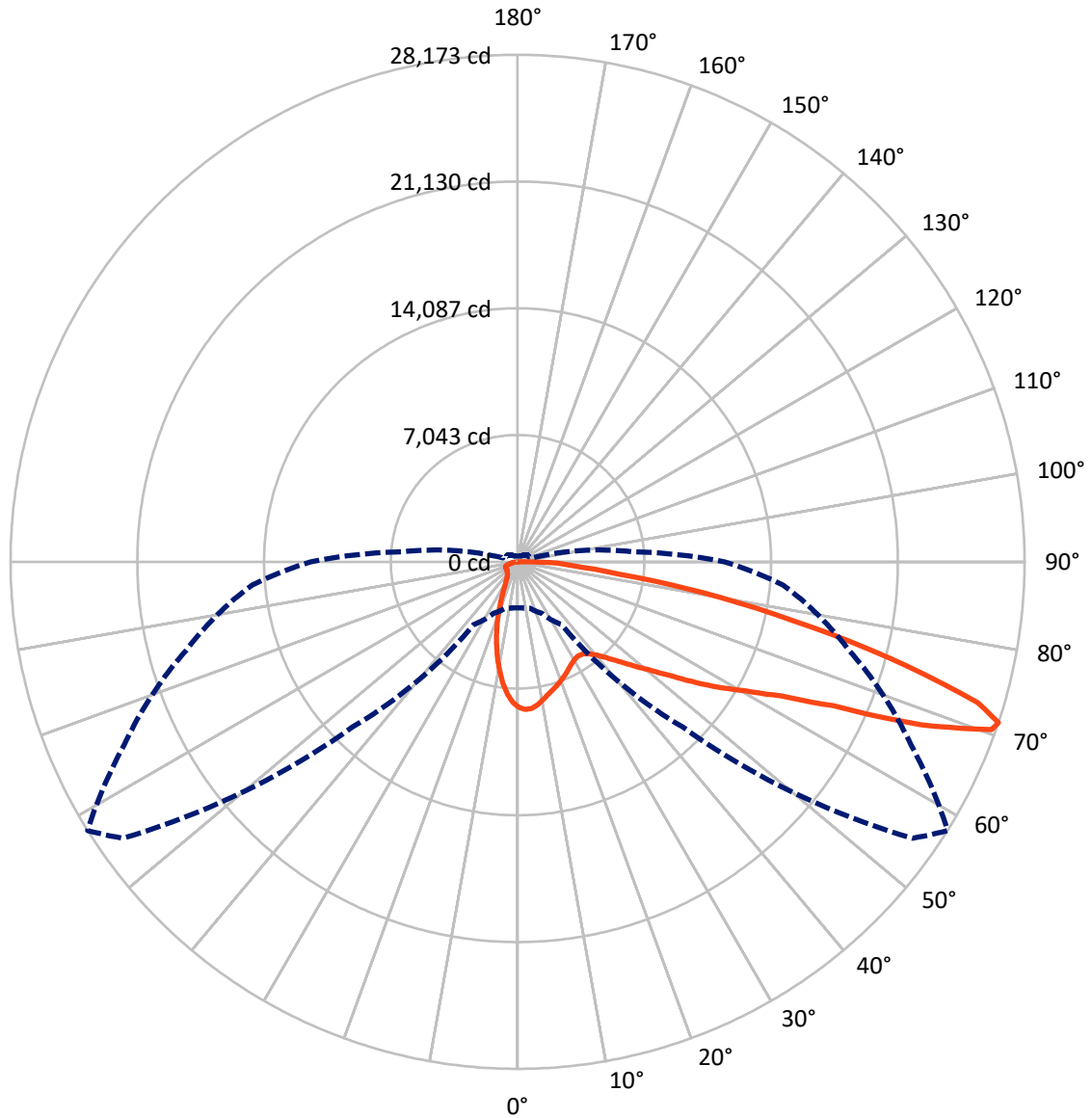
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4359.5 | 0.0 | 4359.5 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 24799.8 | 0.0 | 24799.8 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 29159.3 | 0.0 | 29159.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 697.0 | 2.4 |
| 10°-20° | 1549.8 | 5.3 |
| 20°-30° | 1969.7 | 6.8 |
| 30°-40° | 2509.0 | 8.6 |
| 40°-50° | 3557.8 | 12.2 |
| 50°-60° | 5505.9 | 18.9 |
| 60°-70° | 7495.5 | 25.7 |
| 70°-80° | 5000.4 | 17.1 |
| 80°-90° | 874.3 | 3.0 |
| 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° | 29159.3 | 100.0 |
| 0°-180° | 29159.3 | 100.0 |

Coefficient of Utilization

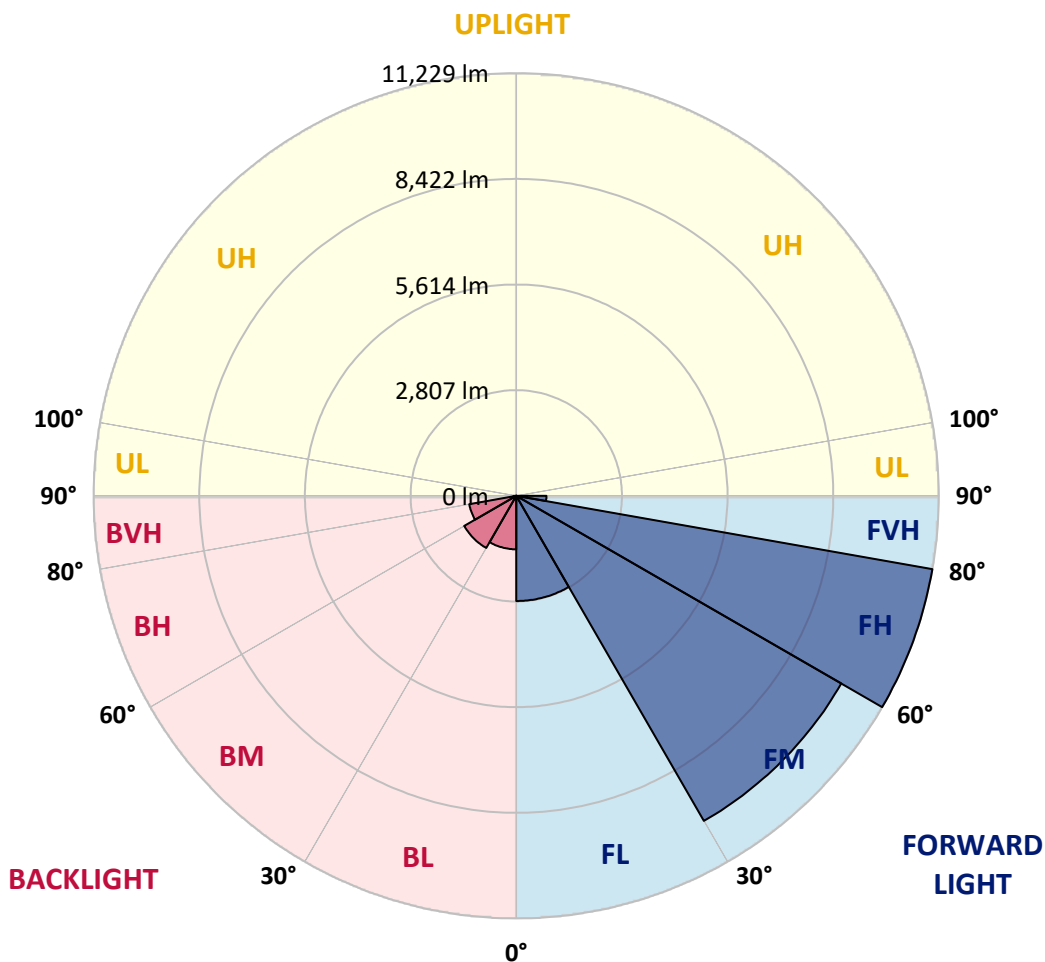


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2795.4 | 9.6 | | | |
| FM (30°-60°) | 9973.9 | 34.2 | | | |
| FH (60°-80°) | 11228.9 | 38.5 | | | G4/12000 |
| FVH (80°-90°) | 801.6 | 2.7 | | | G5 |
| BL (0°-30°) | 1421.1 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 1598.8 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 1267.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 72.6 | 0.2 | | | G1/100 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 |
| 2.5° | 8293.4 | 8282.2 | 8286.3 | 8278.2 | 8258.8 | 8239.5 | 8211.1 | 8216.2 | 8176.6 | 8117.7 | 8044.6 |
| 5° | 8137.0 | 8132.9 | 8163.3 | 8180.7 | 8194.8 | 8183.7 | 8175.5 | 8185.7 | 8127.8 | 8046.6 | 7919.6 |
| 7.5° | 7808.9 | 7764.2 | 7802.8 | 7860.7 | 7915.5 | 7957.2 | 8012.1 | 8019.1 | 7982.6 | 7897.3 | 7730.7 |
| 10° | 7342.6 | 7300.0 | 7356.9 | 7447.3 | 7557.0 | 7656.6 | 7767.2 | 7787.6 | 7794.6 | 7717.5 | 7515.4 |
| 12.5° | 6859.2 | 6826.7 | 6883.6 | 7010.5 | 7192.4 | 7345.7 | 7522.4 | 7552.9 | 7615.9 | 7564.1 | 7316.3 |
| 15° | 6426.5 | 6414.3 | 6483.4 | 6608.3 | 6817.5 | 7052.2 | 7307.2 | 7363.0 | 7469.6 | 7452.4 | 7160.9 |
| 17.5° | 6052.7 | 6049.7 | 6102.5 | 6233.5 | 6465.1 | 6761.6 | 7092.8 | 7187.3 | 7345.7 | 7366.0 | 7032.9 |
| 20° | 5774.4 | 5768.3 | 5804.8 | 5901.4 | 6140.0 | 6476.3 | 6861.2 | 6991.3 | 7219.8 | 7290.9 | 6900.8 |
| 22.5° | 5625.1 | 5624.0 | 5625.1 | 5670.8 | 5865.8 | 6178.7 | 6635.7 | 6794.1 | 7096.9 | 7231.0 | 6754.6 |
| 25° | 5599.7 | 5596.6 | 5574.3 | 5569.3 | 5679.9 | 5929.8 | 6412.3 | 6587.0 | 6980.1 | 7189.3 | 6615.4 |
| 27.5° | 5665.7 | 5669.8 | 5640.3 | 5592.5 | 5614.9 | 5766.3 | 6218.3 | 6405.1 | 6886.7 | 7181.2 | 6518.9 |
| 30° | 5802.8 | 5800.8 | 5775.4 | 5725.7 | 5682.0 | 5705.4 | 6080.1 | 6267.0 | 6823.7 | 7216.7 | 6452.9 |
| 32.5° | 5954.2 | 5965.4 | 5960.2 | 5932.8 | 5867.8 | 5774.4 | 6038.5 | 6221.3 | 6805.3 | 7302.0 | 6424.4 |
| 35° | 6136.0 | 6148.2 | 6184.7 | 6206.1 | 6129.9 | 5979.6 | 6127.9 | 6286.4 | 6858.1 | 7462.5 | 6470.2 |
| 37.5° | 6308.6 | 6340.1 | 6442.8 | 6533.1 | 6468.1 | 6300.5 | 6365.5 | 6478.3 | 7021.7 | 7715.4 | 6593.0 |
| 40° | 6507.8 | 6535.2 | 6702.8 | 6894.8 | 6884.6 | 6710.9 | 6748.5 | 6823.7 | 7310.1 | 8078.1 | 6815.5 |
| 42.5° | 6703.8 | 6758.7 | 7001.4 | 7273.6 | 7351.8 | 7198.4 | 7258.3 | 7298.0 | 7716.5 | 8558.5 | 7203.6 |
| 45° | 6964.8 | 7023.8 | 7361.0 | 7689.0 | 7871.9 | 7785.5 | 7881.0 | 7896.3 | 8227.3 | 9212.6 | 7767.2 |
| 47.5° | 7360.0 | 7426.9 | 7820.1 | 8164.4 | 8443.7 | 8452.9 | 8610.3 | 8604.2 | 8865.3 | 9961.2 | 8477.3 |
| 50° | 7975.4 | 8072.0 | 8394.0 | 8715.9 | 9055.2 | 9244.1 | 9454.4 | 9424.9 | 9630.1 | 10758.5 | 9294.9 |
| 52.5° | 8782.0 | 8826.7 | 9065.4 | 9303.0 | 9724.5 | 10148.1 | 10449.8 | 10423.4 | 10497.5 | 11578.2 | 10223.3 |
| 55° | 9617.9 | 9651.4 | 9749.9 | 9880.0 | 10446.7 | 11137.4 | 11775.3 | 11733.7 | 11545.8 | 12429.5 | 11140.5 |
| 57.5° | 10369.5 | 10437.6 | 10505.6 | 10559.5 | 11174.0 | 12171.4 | 13131.3 | 13134.4 | 12683.4 | 13347.7 | 12088.1 |
| 60° | 10486.3 | 10546.2 | 10996.3 | 11420.8 | 12418.3 | 13550.8 | 14582.7 | 14552.3 | 13860.6 | 14344.1 | 13144.5 |
| 62.5° | 9269.6 | 9404.6 | 10156.2 | 11285.7 | 13616.8 | 16073.9 | 16434.5 | 16396.8 | 15268.3 | 15572.1 | 14374.5 |
| 65° | 6642.9 | 6796.2 | 7703.2 | 9400.5 | 13035.8 | 18853.9 | 19776.2 | 19270.4 | 17188.1 | 17082.4 | 15814.9 |
| 67.5° | 3832.3 | 3868.9 | 4262.0 | 5625.1 | 9925.6 | 18999.1 | 24874.1 | 24166.1 | 20169.2 | 18796.0 | 16519.8 |
| 70° | 2833.9 | 2832.8 | 2926.3 | 3461.6 | 5371.1 | 15506.1 | 27298.6 | 27933.5 | 23307.9 | 19359.7 | 15523.3 |
| 71° | 2562.7 | 2565.8 | 2670.4 | 3150.8 | 4253.8 | 12979.0 | 26783.7 | 28173.2 | 24134.6 | 19081.4 | 14802.2 |
| 72.5° | 2191.9 | 2202.1 | 2347.3 | 2825.8 | 3578.4 | 8950.6 | 24565.3 | 26734.9 | 24526.7 | 18394.8 | 13673.7 |
| 75° | 1662.7 | 1686.1 | 1887.2 | 2381.9 | 3270.7 | 4539.2 | 18029.1 | 21348.5 | 21788.3 | 16231.3 | 10160.3 |
| 77.5° | 1186.3 | 1212.8 | 1440.3 | 2003.0 | 3109.1 | 3420.9 | 12073.9 | 15572.1 | 16034.3 | 10402.0 | 4582.9 |
| 80° | 749.6 | 781.1 | 952.8 | 1593.7 | 2921.2 | 3248.3 | 7587.5 | 10467.1 | 8743.3 | 3328.5 | 1166.0 |
| 82.5° | 439.8 | 464.2 | 591.2 | 1041.1 | 2386.0 | 3128.4 | 4464.1 | 5801.9 | 3402.7 | 1005.6 | 530.2 |
| 85° | 255.0 | 266.1 | 368.7 | 663.3 | 1732.9 | 2952.7 | 3279.8 | 3243.2 | 1476.9 | 491.6 | 250.9 |
| 87.5° | 118.9 | 132.0 | 218.4 | 346.3 | 961.9 | 2140.1 | 2592.1 | 2239.7 | 918.2 | 230.6 | 117.8 |
| 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-SA4D-735-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 | 8079.0 |
| 2.5° | 8009.0 | 7991.7 | 7919.6 | 7855.6 | 7788.6 | 7701.2 | 7604.7 | 7592.6 | 7533.6 | 7544.8 | 7524.5 |
| 5° | 7850.5 | 7806.8 | 7633.2 | 7475.8 | 7289.8 | 7123.3 | 6942.5 | 6859.2 | 6739.4 | 6731.2 | 6700.7 |
| 7.5° | 7624.1 | 7542.7 | 7273.6 | 6975.0 | 6676.4 | 6392.0 | 6110.6 | 5925.8 | 5736.8 | 5656.5 | 5649.5 |
| 10° | 7369.1 | 7231.0 | 6834.9 | 6392.9 | 5962.3 | 5546.9 | 5144.7 | 4847.0 | 4578.9 | 4452.0 | 4446.8 |
| 12.5° | 7127.4 | 6923.2 | 6379.8 | 5778.5 | 5189.4 | 4651.0 | 4099.5 | 3708.4 | 3372.2 | 3259.5 | 3211.7 |
| 15° | 6922.1 | 6634.8 | 5936.9 | 5168.0 | 4453.0 | 3705.3 | 3077.6 | 2666.3 | 2355.5 | 2247.8 | 2227.5 |
| 17.5° | 6723.1 | 6353.3 | 5482.9 | 4551.4 | 3687.1 | 2865.3 | 2236.6 | 1930.9 | 1765.4 | 1721.7 | 1720.7 |
| 20° | 6525.0 | 6063.9 | 5008.6 | 3920.7 | 2946.6 | 2143.2 | 1719.6 | 1582.5 | 1526.6 | 1521.6 | 1513.4 |
| 22.5° | 6300.5 | 5757.2 | 4509.8 | 3287.9 | 2299.6 | 1685.1 | 1461.6 | 1406.8 | 1399.7 | 1417.9 | 1417.9 |
| 25° | 6090.3 | 5452.4 | 4004.0 | 2668.3 | 1788.7 | 1405.8 | 1305.2 | 1294.0 | 1313.3 | 1345.8 | 1348.9 |
| 27.5° | 5894.3 | 5158.9 | 3510.4 | 2117.8 | 1433.2 | 1238.2 | 1196.5 | 1209.7 | 1244.3 | 1281.8 | 1282.8 |
| 30° | 5732.7 | 4881.6 | 3030.9 | 1668.9 | 1210.7 | 1113.2 | 1106.1 | 1132.6 | 1170.1 | 1199.6 | 1206.7 |
| 32.5° | 5607.8 | 4644.9 | 2567.7 | 1341.8 | 1065.5 | 1019.8 | 1025.9 | 1048.3 | 1071.6 | 1087.9 | 1099.0 |
| 35° | 5549.9 | 4441.8 | 2140.1 | 1131.6 | 973.1 | 947.7 | 955.8 | 968.0 | 978.1 | 990.3 | 999.5 |
| 37.5° | 5560.0 | 4284.4 | 1758.2 | 1000.5 | 911.1 | 897.9 | 897.9 | 897.9 | 897.9 | 904.0 | 905.0 |
| 40° | 5654.6 | 4193.9 | 1447.4 | 917.2 | 869.5 | 855.3 | 844.1 | 833.9 | 825.8 | 829.8 | 827.8 |
| 42.5° | 5896.3 | 4185.8 | 1219.9 | 864.4 | 836.0 | 812.6 | 790.2 | 776.0 | 765.8 | 769.9 | 772.0 |
| 45° | 6306.7 | 4287.4 | 1066.5 | 826.8 | 804.5 | 768.9 | 740.5 | 725.2 | 718.1 | 731.4 | 733.3 |
| 47.5° | 6837.8 | 4508.8 | 973.1 | 799.4 | 775.0 | 728.3 | 697.8 | 683.6 | 685.6 | 704.9 | 710.0 |
| 50° | 7522.4 | 4868.4 | 928.4 | 782.1 | 754.6 | 693.7 | 662.2 | 650.0 | 656.2 | 683.6 | 689.7 |
| 52.5° | 8274.1 | 5386.4 | 933.4 | 777.0 | 741.5 | 668.4 | 634.8 | 620.6 | 630.8 | 656.2 | 661.2 |
| 55° | 9141.6 | 6009.0 | 1017.7 | 784.2 | 722.1 | 652.1 | 612.5 | 588.1 | 596.2 | 619.6 | 623.7 |
| 57.5° | 10105.4 | 6722.0 | 1187.4 | 782.1 | 697.8 | 636.9 | 589.1 | 552.6 | 558.6 | 572.9 | 576.9 |
| 60° | 11109.0 | 7583.4 | 1450.4 | 788.2 | 686.6 | 618.5 | 557.6 | 511.9 | 509.9 | 522.0 | 524.1 |
| 62.5° | 12313.7 | 8579.8 | 1751.1 | 792.3 | 693.7 | 595.3 | 516.0 | 471.3 | 465.2 | 468.3 | 470.2 |
| 65° | 13554.9 | 9301.0 | 1638.4 | 776.0 | 716.1 | 575.9 | 479.5 | 431.7 | 420.5 | 418.5 | 419.5 |
| 67.5° | 13593.4 | 8528.0 | 1148.8 | 743.5 | 725.2 | 565.7 | 452.0 | 398.1 | 379.9 | 372.8 | 371.8 |
| 70° | 12190.7 | 6928.3 | 894.8 | 709.0 | 688.7 | 549.5 | 426.6 | 370.8 | 343.3 | 332.1 | 331.2 |
| 71° | 11506.1 | 6377.7 | 848.2 | 691.7 | 661.2 | 533.2 | 415.5 | 358.6 | 330.1 | 317.9 | 315.9 |
| 72.5° | 10432.5 | 5717.6 | 791.3 | 664.3 | 608.4 | 491.6 | 394.1 | 341.3 | 311.8 | 297.6 | 294.6 |
| 75° | 7486.9 | 3738.9 | 679.6 | 592.2 | 503.8 | 392.1 | 345.3 | 306.8 | 281.3 | 264.1 | 262.0 |
| 77.5° | 2884.6 | 1488.1 | 513.9 | 492.6 | 385.9 | 306.8 | 284.4 | 265.1 | 246.9 | 229.5 | 228.5 |
| 80° | 891.8 | 665.3 | 374.8 | 370.8 | 279.3 | 228.5 | 221.4 | 216.3 | 209.2 | 191.0 | 186.9 |
| 82.5° | 476.4 | 381.9 | 258.0 | 239.7 | 182.9 | 152.4 | 160.5 | 162.6 | 163.5 | 144.2 | 142.2 |
| 85° | 227.5 | 202.1 | 145.2 | 136.1 | 106.7 | 85.3 | 98.6 | 106.7 | 107.7 | 88.4 | 82.3 |
| 87.5° | 108.7 | 105.6 | 68.1 | 51.8 | 39.6 | 28.4 | 34.6 | 42.7 | 46.8 | 33.5 | 29.4 |
| 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)