

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: P456432

Luminaire Tested: **GALN-SA7D-722-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-722-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39538 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

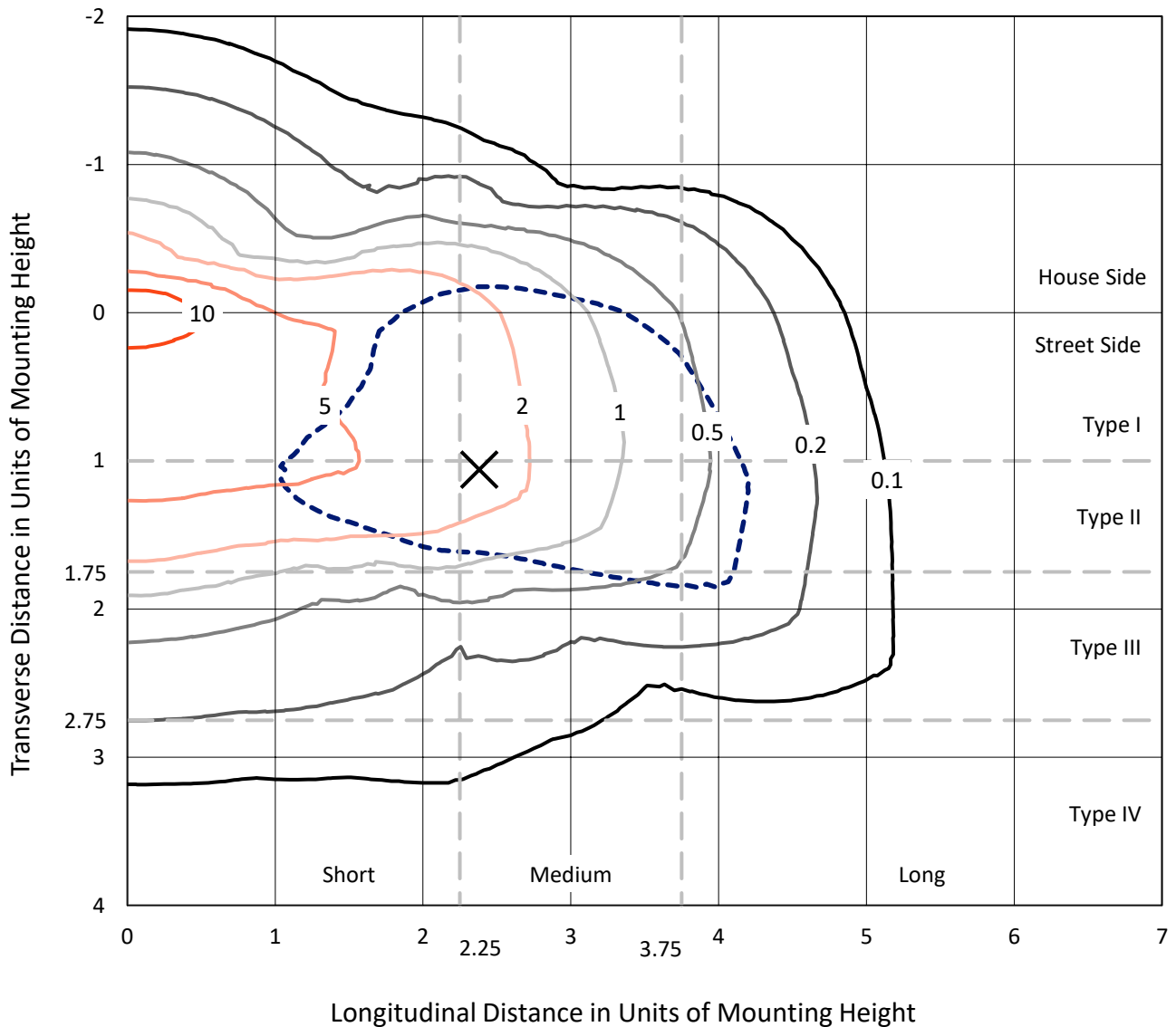
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

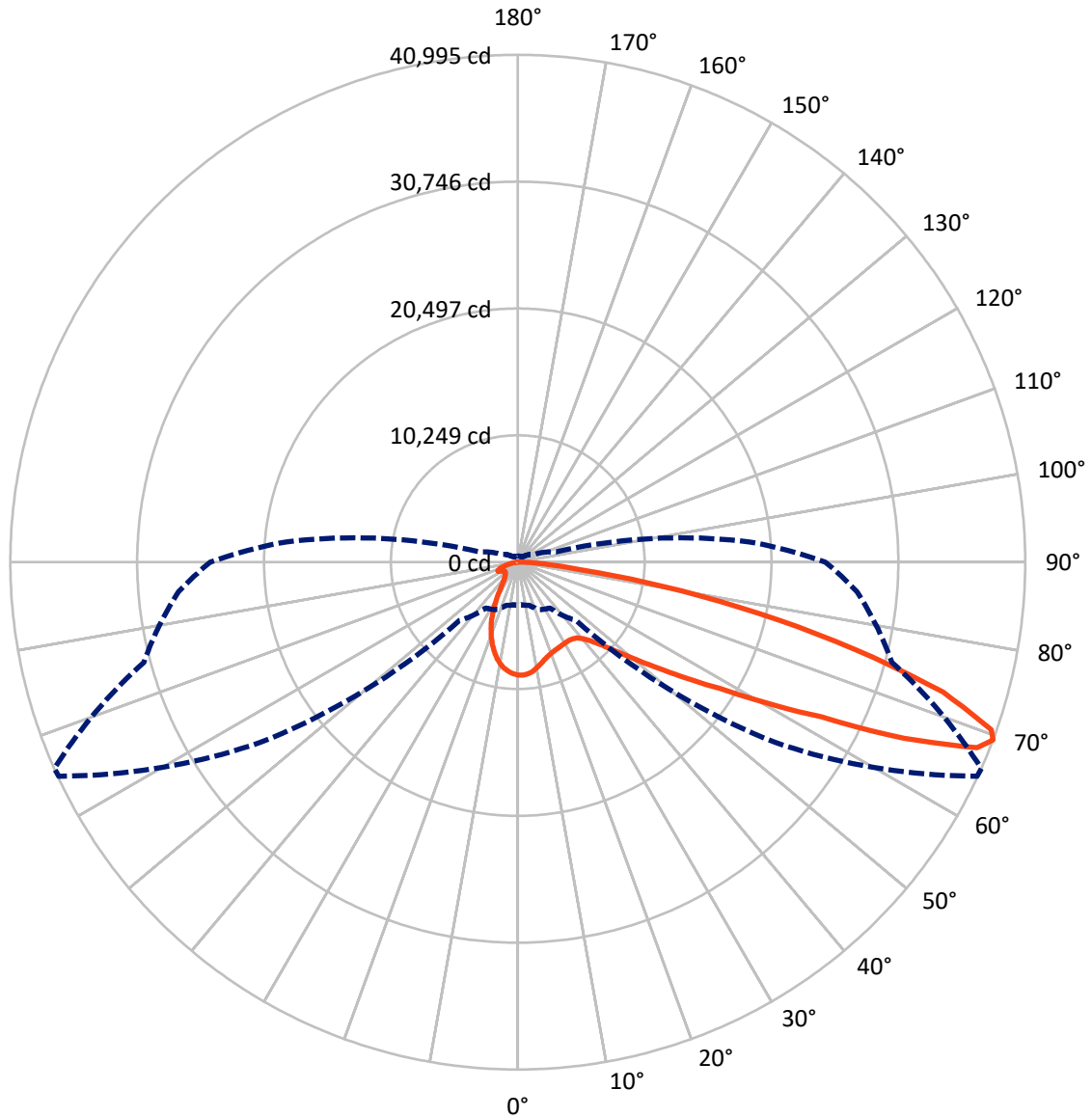
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7435.6 | 0.0 | 7435.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 32102.4 | 0.0 | 32102.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 39538.0 | 0.0 | 39538.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 792.9 | 2.0 |
| 10°-20° | 1880.6 | 4.8 |
| 20°-30° | 2560.2 | 6.5 |
| 30°-40° | 3440.4 | 8.7 |
| 40°-50° | 5137.1 | 13.0 |
| 50°-60° | 8171.4 | 20.7 |
| 60°-70° | 10050.4 | 25.4 |
| 70°-80° | 6539.2 | 16.5 |
| 80°-90° | 965.6 | 2.4 |
| 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° | 39538.0 | 100.0 |
| 0°-180° | 39538.0 | 100.0 |

Coefficient of Utilization



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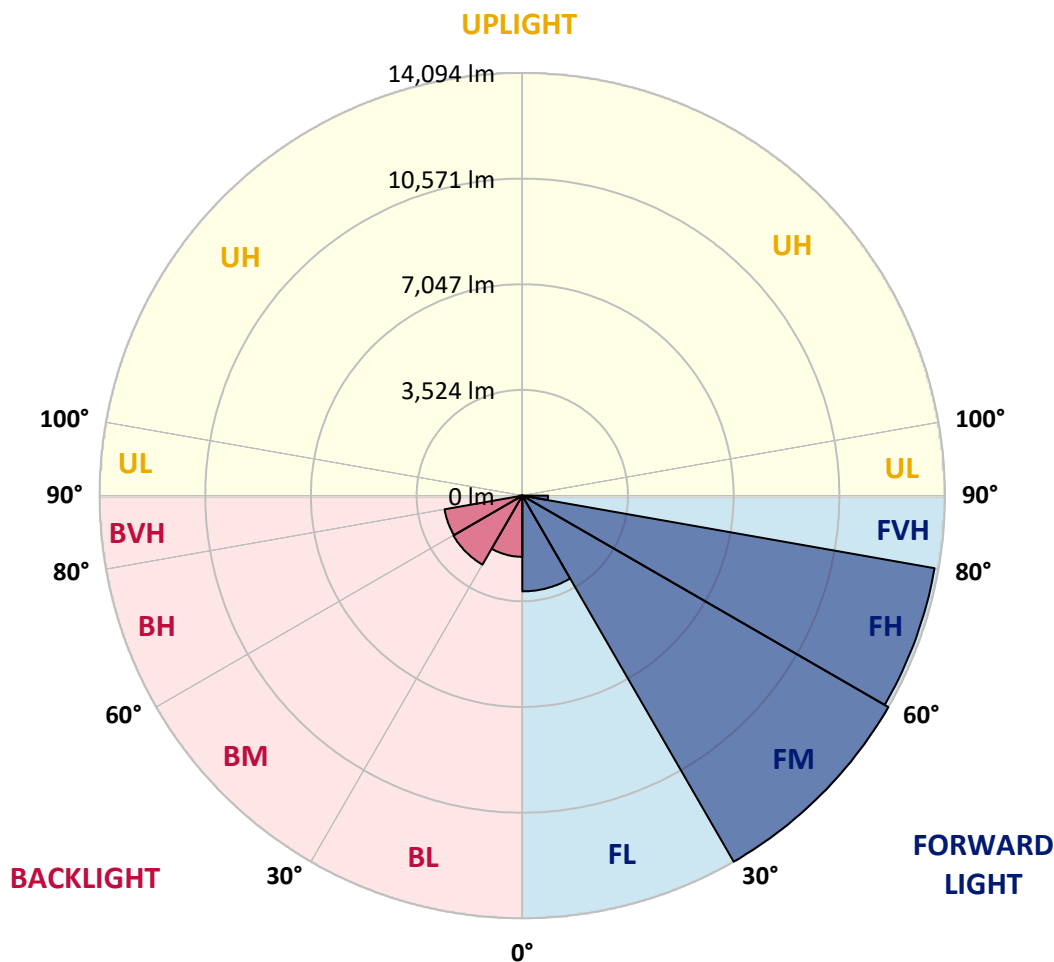
CATALOG NUMBER: GALN-SA7D-722-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3192.6 | 8.1 | | | |
| FM | (30°-60°) | 14094.1 | 35.6 | | | |
| FH | (60°-80°) | 13957.1 | 35.3 | | | G5 |
| FVH | (80°-90°) | 858.5 | 2.2 | | | G5 |
| BL | (0°-30°) | 2041.1 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 2654.8 | 6.7 | B3/5000 | | |
| BH | (60°-80°) | 2632.5 | 6.7 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 107.1 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 |
| 2.5° | 8810.7 | 8845.8 | 8885.2 | 8929.0 | 9012.2 | 9058.2 | 9091.0 | 9128.2 | 9132.6 | 9152.3 | 9137.0 |
| 5° | 8160.5 | 8202.1 | 8261.2 | 8344.4 | 8469.2 | 8664.0 | 8865.5 | 9029.7 | 9049.4 | 9141.4 | 9167.6 |
| 7.5° | 7617.4 | 7641.5 | 7689.7 | 7823.3 | 8000.6 | 8217.4 | 8510.8 | 8843.6 | 8891.8 | 9110.7 | 9187.4 |
| 10° | 7175.2 | 7199.2 | 7256.2 | 7394.1 | 7569.3 | 7840.8 | 8162.6 | 8600.6 | 8640.0 | 9016.6 | 9191.7 |
| 12.5° | 6844.5 | 6866.4 | 6927.7 | 7063.5 | 7264.9 | 7518.9 | 7873.6 | 8337.8 | 8394.7 | 8891.8 | 9150.1 |
| 15° | 6592.7 | 6634.3 | 6684.7 | 6796.4 | 7008.7 | 7254.0 | 7597.7 | 8097.0 | 8142.9 | 8760.4 | 9121.7 |
| 17.5° | 6485.4 | 6505.2 | 6540.2 | 6643.1 | 6798.6 | 7039.4 | 7385.4 | 7908.7 | 7963.4 | 8668.4 | 9115.1 |
| 20° | 6489.8 | 6509.5 | 6516.1 | 6573.0 | 6684.7 | 6892.7 | 7234.3 | 7759.8 | 7825.5 | 8587.4 | 9126.0 |
| 22.5° | 6638.7 | 6640.9 | 6616.8 | 6597.1 | 6640.9 | 6813.9 | 7127.0 | 7648.1 | 7724.7 | 8552.4 | 9134.8 |
| 25° | 6868.6 | 6908.0 | 6873.0 | 6781.0 | 6700.0 | 6783.2 | 7085.4 | 7586.8 | 7659.0 | 8502.0 | 9123.9 |
| 27.5° | 7240.8 | 7247.4 | 7218.9 | 7094.1 | 6883.9 | 6822.6 | 7067.9 | 7540.8 | 7602.1 | 8464.8 | 9069.1 |
| 30° | 7740.1 | 7720.4 | 7694.1 | 7556.1 | 7225.5 | 6973.7 | 7105.1 | 7499.2 | 7562.7 | 8410.1 | 9003.4 |
| 32.5° | 8245.8 | 8307.2 | 8283.1 | 8121.0 | 7691.9 | 7267.1 | 7225.5 | 7494.8 | 7547.4 | 8368.5 | 8931.2 |
| 35° | 8782.3 | 8810.7 | 8924.6 | 8841.4 | 8401.3 | 7742.2 | 7451.0 | 7562.7 | 7604.3 | 8370.6 | 8880.8 |
| 37.5° | 9202.7 | 9279.3 | 9546.4 | 9618.7 | 9204.9 | 8370.6 | 7816.7 | 7755.4 | 7772.9 | 8477.9 | 8900.5 |
| 40° | 9710.7 | 9842.0 | 10185.8 | 10481.4 | 10209.9 | 9187.4 | 8438.5 | 8112.3 | 8134.2 | 8736.3 | 9029.7 |
| 42.5° | 10354.4 | 10446.3 | 10908.3 | 11309.0 | 11265.2 | 10266.8 | 9191.7 | 8696.9 | 8707.8 | 9250.8 | 9391.0 |
| 45° | 11107.6 | 11239.0 | 11757.9 | 12360.0 | 12462.9 | 11488.6 | 10279.9 | 9581.5 | 9574.9 | 10050.0 | 10065.4 |
| 47.5° | 12071.0 | 12152.0 | 12666.5 | 13323.4 | 13739.4 | 13023.4 | 11600.2 | 10851.4 | 10781.3 | 11214.9 | 11090.1 |
| 50° | 12957.8 | 13084.7 | 13474.5 | 14192.7 | 15228.3 | 14821.1 | 13336.5 | 12498.0 | 12333.7 | 12738.8 | 12528.6 |
| 52.5° | 13330.0 | 13463.5 | 13792.0 | 14683.1 | 16504.8 | 17146.4 | 15541.4 | 14462.0 | 14188.3 | 14499.2 | 14422.6 |
| 55° | 12684.1 | 12857.0 | 13163.6 | 14247.4 | 17065.4 | 19828.6 | 18514.8 | 16732.5 | 16533.3 | 16399.7 | 16421.6 |
| 57.5° | 10947.7 | 11112.0 | 11525.8 | 12721.3 | 16395.3 | 21775.1 | 22760.4 | 19651.2 | 19224.2 | 18609.0 | 18714.1 |
| 60° | 8333.4 | 8436.3 | 8650.9 | 9975.6 | 14409.4 | 22280.9 | 27581.8 | 23340.6 | 23069.1 | 20809.5 | 20883.9 |
| 62.5° | 5918.4 | 6034.4 | 6183.3 | 6844.5 | 10549.3 | 20855.5 | 31356.5 | 28492.6 | 27522.6 | 23088.8 | 23016.5 |
| 65° | 4806.1 | 4727.2 | 4906.8 | 5215.5 | 6189.9 | 16163.3 | 32206.1 | 35643.7 | 34308.1 | 26090.7 | 25087.9 |
| 67.5° | 3952.1 | 3868.9 | 4046.3 | 4595.9 | 4707.5 | 9382.2 | 29145.1 | 40285.5 | 40018.4 | 29355.3 | 27192.0 |
| 69° | 3498.9 | 3455.1 | 3610.6 | 4236.8 | 4519.2 | 6662.8 | 25390.0 | 40931.4 | 40994.9 | 31279.9 | 27516.1 |
| 70° | 3153.0 | 3170.5 | 3321.5 | 4055.0 | 4433.8 | 5493.6 | 21700.6 | 40040.3 | 40578.9 | 32241.1 | 27165.7 |
| 72.5° | 2320.9 | 2358.1 | 2568.3 | 3358.8 | 4352.8 | 4661.6 | 12914.0 | 34973.7 | 35926.1 | 32298.0 | 24851.4 |
| 75° | 1622.5 | 1604.9 | 1791.1 | 2528.9 | 4112.0 | 4620.0 | 7584.6 | 27047.5 | 28127.0 | 27916.8 | 20881.7 |
| 77.5° | 1061.9 | 1090.4 | 1239.3 | 1786.7 | 3459.5 | 4584.9 | 4944.0 | 19189.2 | 19889.9 | 18670.3 | 12351.3 |
| 80° | 748.8 | 746.6 | 829.8 | 1219.6 | 2566.2 | 4405.4 | 4048.5 | 12095.1 | 11917.7 | 7337.2 | 3663.1 |
| 82.5° | 429.2 | 459.8 | 556.1 | 858.3 | 1716.6 | 3877.7 | 3724.4 | 5784.8 | 5281.2 | 2091.0 | 1237.1 |
| 85° | 238.7 | 249.6 | 330.6 | 518.9 | 1002.8 | 2920.9 | 3251.5 | 2631.8 | 2482.9 | 873.6 | 532.1 |
| 87.5° | 76.6 | 83.2 | 137.9 | 262.7 | 455.4 | 1379.4 | 1841.4 | 1215.2 | 1121.0 | 315.3 | 214.6 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 | 9130.4 |
| 2.5° | 9143.6 | 9169.8 | 9099.8 | 9031.9 | 8970.6 | 8885.2 | 8808.6 | 8745.1 | 8701.3 | 8694.7 | 8672.8 |
| 5° | 9174.2 | 9176.4 | 9042.8 | 8863.3 | 8688.1 | 8495.5 | 8296.2 | 8153.9 | 8020.3 | 7945.9 | 7908.7 |
| 7.5° | 9196.1 | 9176.4 | 8935.6 | 8644.3 | 8307.2 | 7956.8 | 7606.5 | 7326.2 | 7109.5 | 7024.1 | 7056.9 |
| 10° | 9187.4 | 9126.0 | 8773.5 | 8307.2 | 7816.7 | 7293.4 | 6789.8 | 6395.7 | 6034.4 | 5848.3 | 5852.7 |
| 12.5° | 9139.2 | 9038.5 | 8532.7 | 7928.4 | 7208.0 | 6507.3 | 5736.6 | 5204.6 | 4786.4 | 4538.9 | 4462.3 |
| 15° | 9097.6 | 8922.4 | 8250.2 | 7413.8 | 6518.3 | 5517.7 | 4578.3 | 3921.5 | 3571.2 | 3376.3 | 3374.1 |
| 17.5° | 9053.8 | 8810.7 | 7941.5 | 6868.6 | 5725.7 | 4438.2 | 3452.9 | 2951.5 | 2787.3 | 2807.0 | 2774.2 |
| 20° | 9007.8 | 8679.4 | 7619.6 | 6262.1 | 4760.1 | 3310.6 | 2585.9 | 2382.2 | 2428.2 | 2518.0 | 2531.1 |
| 22.5° | 8955.3 | 8539.2 | 7273.7 | 5594.3 | 3744.1 | 2491.7 | 2097.6 | 2066.9 | 2185.2 | 2325.3 | 2345.0 |
| 25° | 8874.2 | 8364.1 | 6838.0 | 4895.8 | 2888.0 | 2007.8 | 1837.0 | 1858.9 | 1975.0 | 2093.2 | 2106.3 |
| 27.5° | 8760.4 | 8147.3 | 6397.9 | 4024.4 | 2169.8 | 1723.2 | 1679.4 | 1707.8 | 1764.8 | 1837.0 | 1854.5 |
| 30° | 8607.1 | 7902.1 | 5892.1 | 3271.2 | 1738.5 | 1580.9 | 1563.3 | 1578.7 | 1611.5 | 1642.2 | 1650.9 |
| 32.5° | 8453.9 | 7665.6 | 5381.9 | 2504.8 | 1550.2 | 1486.7 | 1469.2 | 1469.2 | 1469.2 | 1473.6 | 1475.8 |
| 35° | 8311.5 | 7442.3 | 4834.5 | 1950.9 | 1451.7 | 1412.3 | 1388.2 | 1361.9 | 1357.5 | 1342.2 | 1342.2 |
| 37.5° | 8232.7 | 7238.7 | 4252.1 | 1633.4 | 1379.4 | 1351.0 | 1318.1 | 1274.3 | 1250.2 | 1252.4 | 1248.0 |
| 40° | 8248.0 | 7105.1 | 3722.2 | 1453.9 | 1320.3 | 1289.6 | 1239.3 | 1188.9 | 1173.6 | 1173.6 | 1169.2 |
| 42.5° | 8421.0 | 7061.3 | 3214.3 | 1359.7 | 1263.4 | 1228.3 | 1164.8 | 1118.9 | 1110.1 | 1107.9 | 1112.3 |
| 45° | 8819.5 | 7168.6 | 2758.8 | 1298.4 | 1215.2 | 1162.7 | 1099.2 | 1057.6 | 1048.8 | 1048.8 | 1046.6 |
| 47.5° | 9596.8 | 7516.7 | 2432.6 | 1259.0 | 1180.2 | 1112.3 | 1046.6 | 1005.0 | 989.7 | 985.3 | 985.3 |
| 50° | 10805.4 | 8272.1 | 2189.5 | 1224.0 | 1136.4 | 1066.3 | 998.4 | 950.3 | 926.2 | 924.0 | 921.8 |
| 52.5° | 12484.8 | 9450.1 | 2095.4 | 1197.7 | 1088.2 | 1018.1 | 943.7 | 897.7 | 867.1 | 860.5 | 856.1 |
| 55° | 14448.8 | 11094.4 | 2224.6 | 1178.0 | 1037.8 | 963.4 | 886.8 | 838.6 | 810.1 | 797.0 | 794.8 |
| 57.5° | 16723.8 | 13069.4 | 2715.0 | 1151.7 | 991.9 | 904.3 | 829.8 | 781.7 | 751.0 | 735.7 | 731.3 |
| 60° | 18766.6 | 15099.1 | 3571.2 | 1136.4 | 952.5 | 840.8 | 764.2 | 720.4 | 691.9 | 676.6 | 674.4 |
| 62.5° | 21010.9 | 17034.7 | 4593.7 | 1178.0 | 934.9 | 779.5 | 702.8 | 663.4 | 639.3 | 624.0 | 624.0 |
| 65° | 23408.5 | 18972.4 | 5270.2 | 1318.1 | 961.2 | 731.3 | 637.2 | 604.3 | 582.4 | 571.5 | 569.3 |
| 67.5° | 25024.4 | 19642.5 | 4341.9 | 1462.6 | 1026.9 | 678.8 | 573.7 | 547.4 | 534.3 | 523.3 | 523.3 |
| 69° | 24849.2 | 18795.1 | 3203.3 | 1499.8 | 1046.6 | 652.5 | 538.6 | 518.9 | 501.4 | 497.0 | 492.6 |
| 70° | 24295.2 | 17829.5 | 2684.4 | 1475.8 | 1031.3 | 628.4 | 516.7 | 492.6 | 477.3 | 472.9 | 470.8 |
| 72.5° | 21639.3 | 15462.6 | 1999.1 | 1283.1 | 878.0 | 545.2 | 457.6 | 435.7 | 422.6 | 416.0 | 416.0 |
| 75° | 17978.4 | 12638.1 | 1561.1 | 1020.3 | 687.5 | 459.8 | 391.9 | 374.4 | 363.5 | 359.1 | 356.9 |
| 77.5° | 10076.3 | 7056.9 | 1121.0 | 799.2 | 521.1 | 372.2 | 328.4 | 313.1 | 302.2 | 297.8 | 297.8 |
| 80° | 2807.0 | 2016.6 | 659.1 | 527.7 | 354.7 | 282.5 | 260.6 | 249.6 | 234.3 | 223.3 | 229.9 |
| 82.5° | 1057.6 | 873.6 | 376.6 | 317.5 | 225.5 | 188.3 | 181.7 | 173.0 | 166.4 | 151.1 | 151.1 |
| 85° | 514.5 | 424.8 | 240.9 | 168.6 | 124.8 | 98.5 | 94.2 | 89.8 | 85.4 | 74.4 | 76.6 |
| 87.5° | 177.4 | 188.3 | 105.1 | 61.3 | 37.2 | 24.1 | 19.7 | 10.9 | 10.9 | 10.9 | 10.9 |
| 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)