

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: P944154

Luminaire Tested: **GALN-SB9A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24647 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

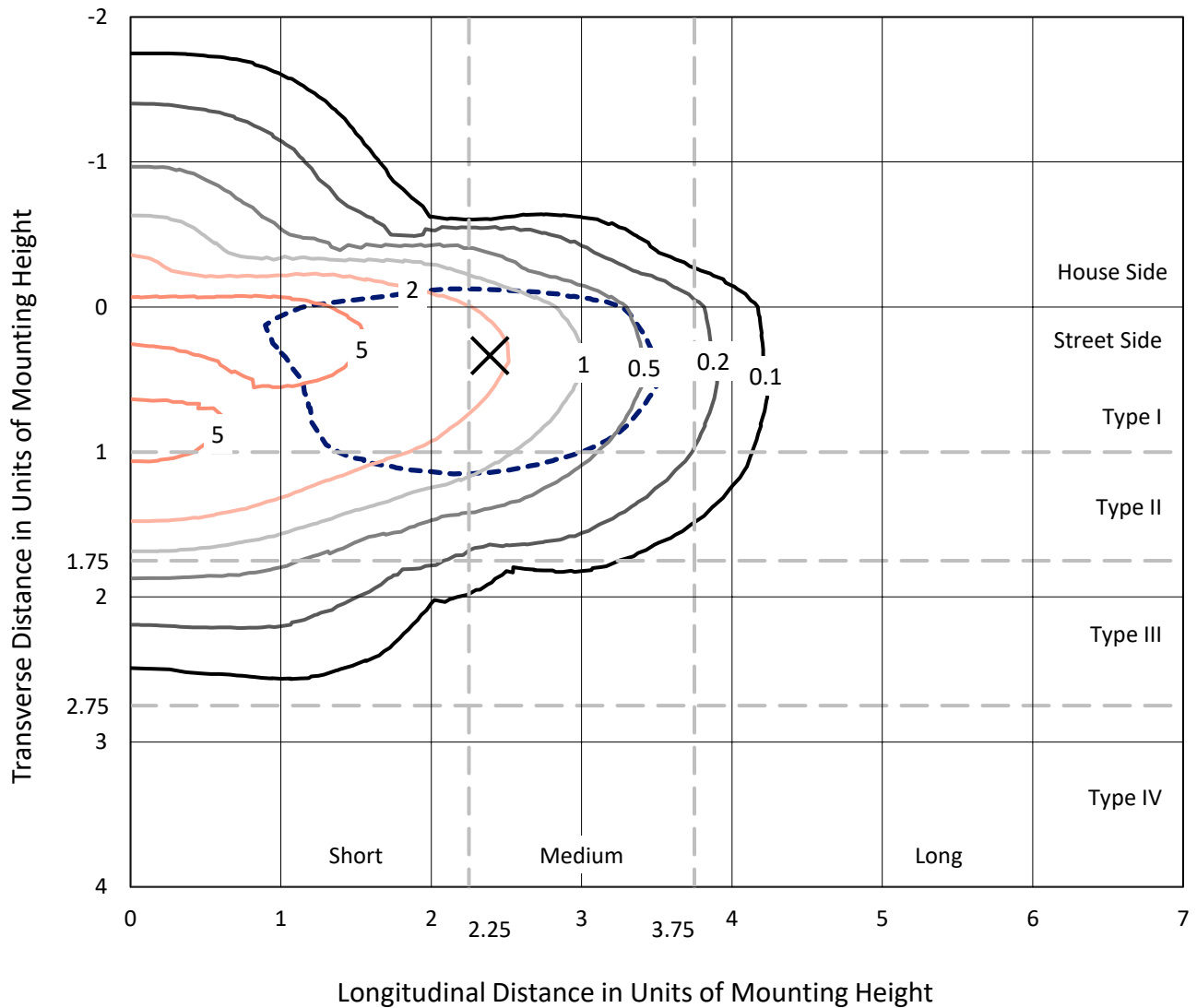
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

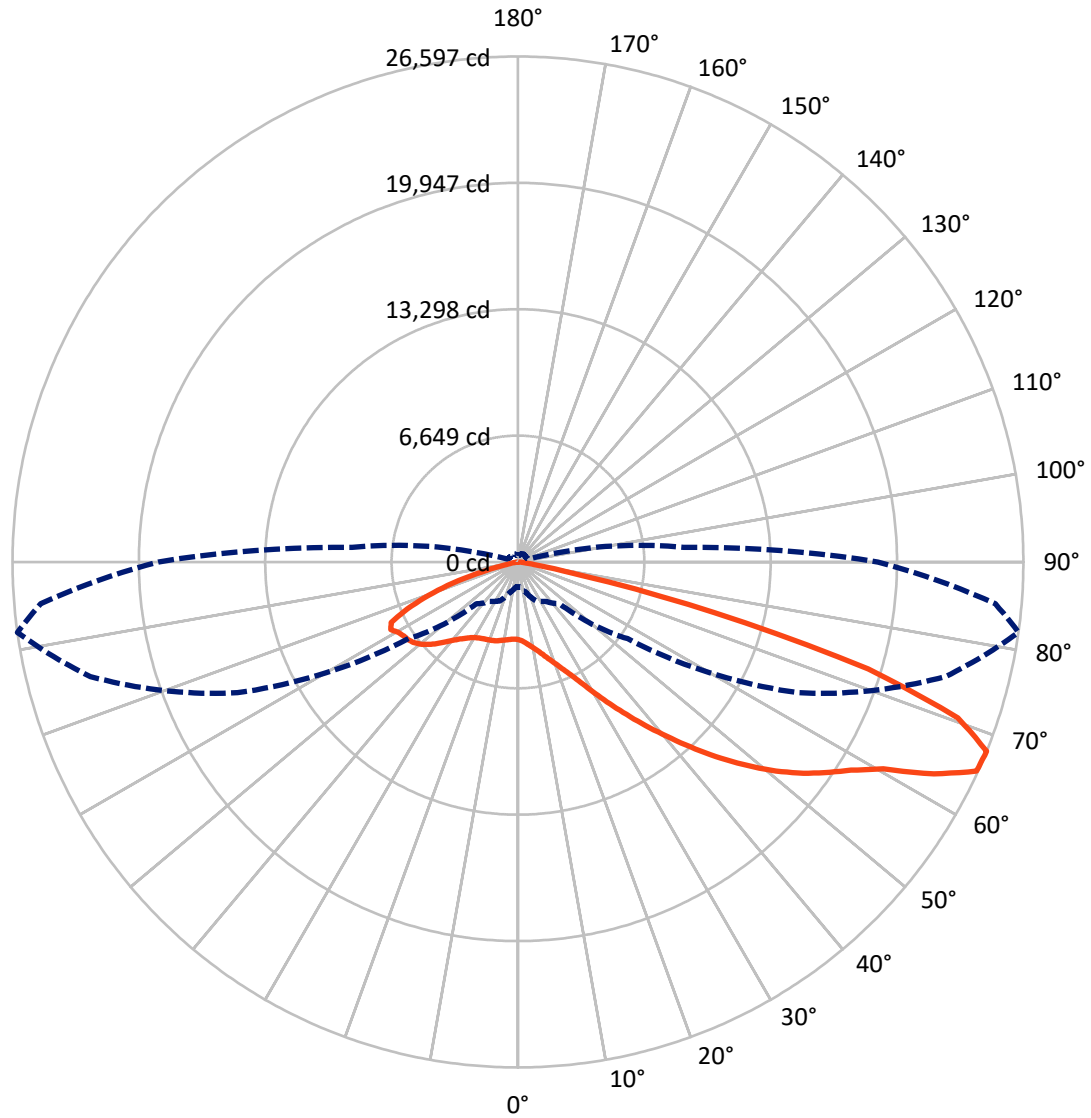
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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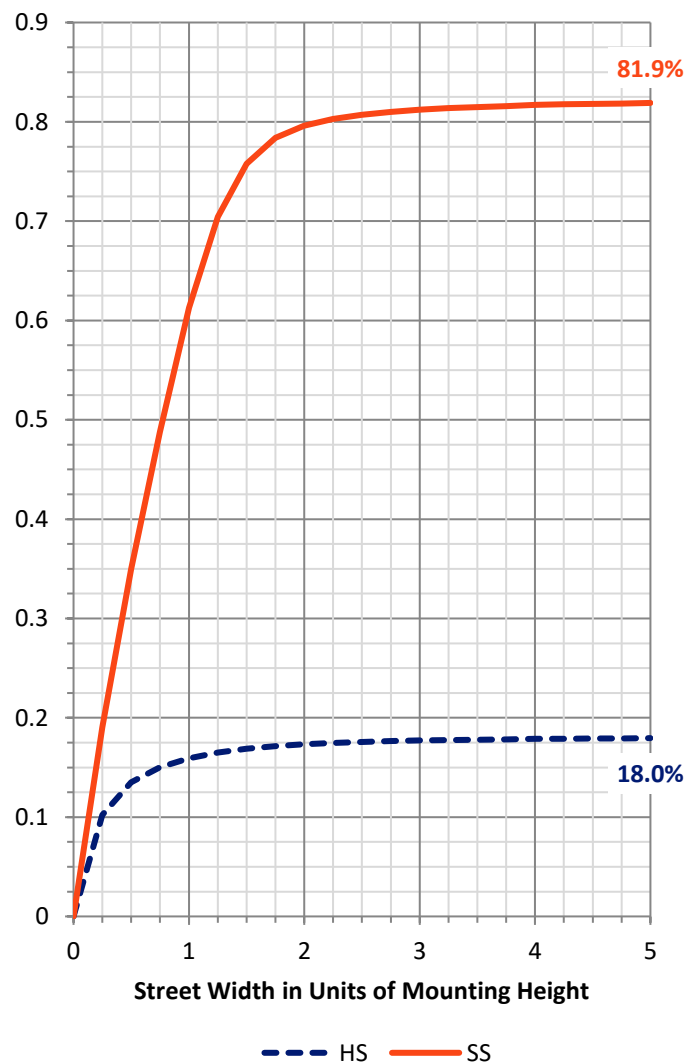
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4464.6 | 0.0 | 4464.6 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 20182.4 | 0.0 | 20182.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 24647.0 | 0.0 | 24647.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 363.8 | 1.5 |
| 10°-20° | 945.3 | 3.8 |
| 20°-30° | 1514.1 | 6.1 |
| 30°-40° | 2677.4 | 10.9 |
| 40°-50° | 4691.1 | 19.0 |
| 50°-60° | 6256.5 | 25.4 |
| 60°-70° | 5824.5 | 23.6 |
| 70°-80° | 2235.4 | 9.1 |
| 80°-90° | 138.8 | 0.6 |
| 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° | 24647.0 | 100.0 |
| 0°-180° | 24647.0 | 100.0 |

Coefficient of Utilization



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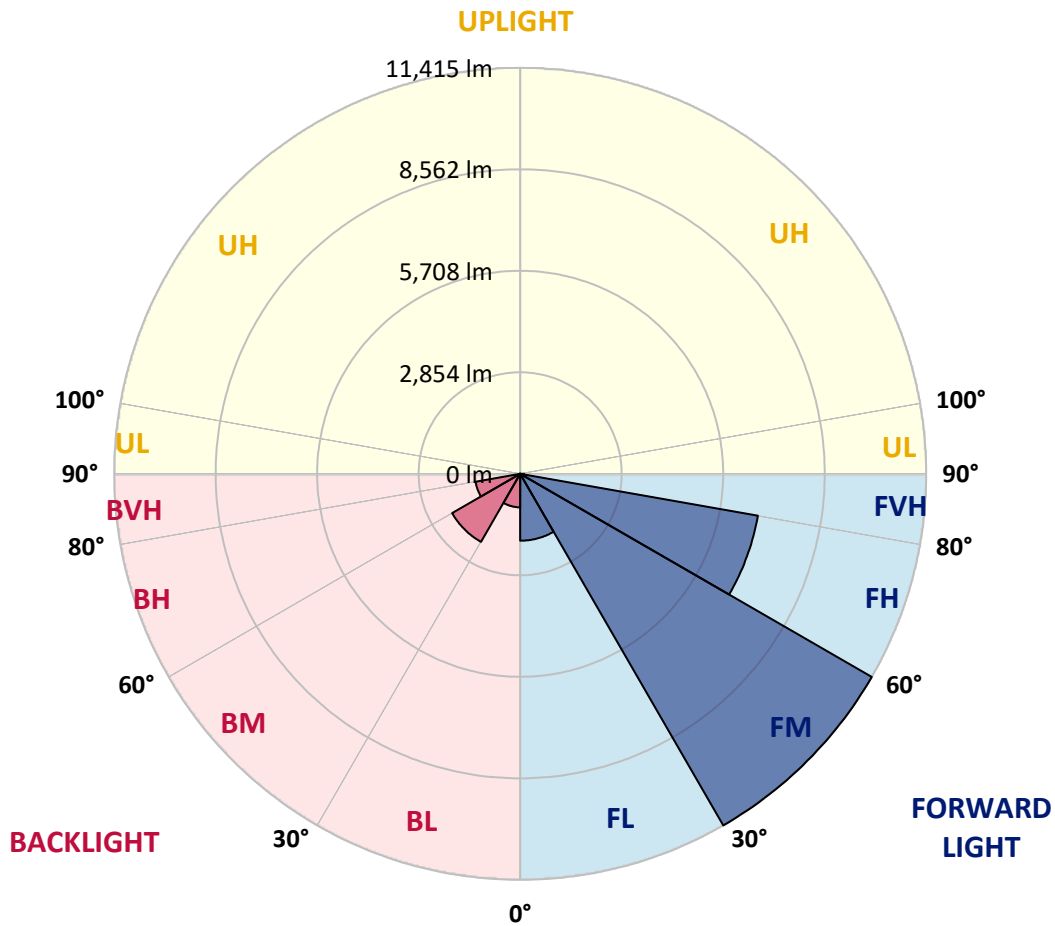
CATALOG NUMBER: GALN-SB9A-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1880.3 | 7.6 | | | |
| FM (30°-60°) | 11415.5 | 46.3 | | | |
| FH (60°-80°) | 6785.7 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 100.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 942.9 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 2209.5 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 1274.3 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 37.9 | 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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 |
| 2.5° | 4315.6 | 4340.5 | 4326.3 | 4319.2 | 4306.8 | 4289.0 | 4274.8 | 4230.5 | 4184.3 | 4154.2 | 4143.5 |
| 5° | 4402.6 | 4427.4 | 4425.7 | 4432.8 | 4441.6 | 4447.0 | 4443.4 | 4393.7 | 4328.1 | 4276.6 | 4246.4 |
| 7.5° | 4328.1 | 4356.5 | 4379.5 | 4415.0 | 4477.1 | 4542.8 | 4574.7 | 4564.1 | 4496.6 | 4425.7 | 4388.4 |
| 10° | 4116.9 | 4147.1 | 4202.1 | 4285.5 | 4416.8 | 4558.7 | 4677.6 | 4732.6 | 4690.1 | 4612.0 | 4560.5 |
| 12.5° | 3730.0 | 3760.2 | 3868.5 | 4049.5 | 4269.5 | 4516.2 | 4743.3 | 4890.6 | 4901.2 | 4823.1 | 4762.8 |
| 15° | 3295.3 | 3325.5 | 3440.8 | 3667.9 | 4003.3 | 4399.0 | 4778.8 | 5057.4 | 5151.4 | 5084.0 | 5011.2 |
| 17.5° | 3025.6 | 3052.2 | 3139.1 | 3321.9 | 3671.5 | 4164.8 | 4766.4 | 5234.8 | 5449.6 | 5396.3 | 5309.4 |
| 20° | 2943.9 | 2967.0 | 3007.8 | 3135.6 | 3426.6 | 3921.7 | 4684.7 | 5401.6 | 5770.7 | 5740.6 | 5643.0 |
| 22.5° | 3030.9 | 3052.2 | 3064.6 | 3121.4 | 3304.2 | 3762.0 | 4581.8 | 5572.0 | 6143.4 | 6146.9 | 6028.0 |
| 25° | 3231.4 | 3252.7 | 3238.5 | 3274.0 | 3353.8 | 3712.3 | 4542.8 | 5772.5 | 6611.9 | 6650.9 | 6516.0 |
| 27.5° | 3561.5 | 3563.2 | 3529.5 | 3527.7 | 3540.2 | 3786.8 | 4583.6 | 5987.2 | 7202.8 | 7275.5 | 7108.7 |
| 30° | 4223.4 | 4196.7 | 4067.2 | 3927.0 | 3863.1 | 4010.4 | 4697.2 | 6241.0 | 7900.2 | 8029.7 | 7820.3 |
| 32.5° | 5243.7 | 5204.7 | 4966.9 | 4631.5 | 4294.3 | 4370.6 | 4901.2 | 6530.2 | 8659.7 | 8893.9 | 8638.4 |
| 35° | 6351.0 | 6340.4 | 6091.9 | 5593.3 | 5004.2 | 4883.5 | 5233.1 | 6910.0 | 9488.4 | 9861.0 | 9557.6 |
| 37.5° | 7380.2 | 7374.9 | 7232.9 | 6645.6 | 5928.7 | 5598.6 | 5765.4 | 7406.9 | 10375.6 | 10915.1 | 10556.6 |
| 40° | 8320.7 | 8336.7 | 8194.7 | 7669.5 | 6947.3 | 6516.0 | 6489.4 | 8020.8 | 11362.3 | 12063.2 | 11637.3 |
| 42.5° | 9133.5 | 9151.2 | 9007.5 | 8618.9 | 7953.4 | 7531.1 | 7378.5 | 8773.2 | 12325.8 | 13296.5 | 12792.5 |
| 45° | 9685.3 | 9795.4 | 9774.1 | 9463.5 | 8986.2 | 8547.9 | 8446.7 | 9717.3 | 13424.3 | 14604.3 | 14013.4 |
| 47.5° | 9841.5 | 9942.6 | 10102.4 | 10144.9 | 9853.9 | 9422.7 | 9543.4 | 10854.7 | 14535.1 | 15913.9 | 15241.4 |
| 50° | 9456.4 | 9550.5 | 9882.3 | 10324.2 | 10526.5 | 10393.4 | 10609.9 | 12073.8 | 15672.6 | 17220.0 | 16446.3 |
| 52.5° | 8696.9 | 8792.8 | 9211.5 | 9910.7 | 10735.9 | 11154.6 | 11679.9 | 13275.2 | 16774.6 | 18456.8 | 17587.3 |
| 55° | 7598.5 | 7699.6 | 8237.3 | 9028.8 | 10336.6 | 11468.7 | 12572.5 | 14474.8 | 17784.3 | 19569.4 | 18616.5 |
| 57.5° | 6104.4 | 6178.9 | 6737.9 | 7845.2 | 9332.2 | 11156.4 | 13230.8 | 15784.4 | 18735.4 | 20662.5 | 19636.9 |
| 60° | 3978.5 | 4044.1 | 4693.6 | 5928.7 | 7667.7 | 10113.0 | 13362.1 | 17244.8 | 19998.9 | 22083.9 | 21012.1 |
| 62.5° | 2645.8 | 2690.2 | 3075.2 | 3982.0 | 5399.9 | 8109.6 | 12593.8 | 18410.7 | 21851.5 | 24557.6 | 23370.4 |
| 65° | 1815.3 | 1859.7 | 2244.8 | 2876.5 | 3488.7 | 5364.4 | 10384.5 | 18256.3 | 23530.2 | 26522.0 | 25118.4 |
| 67.5° | 1295.4 | 1332.7 | 1659.2 | 2255.4 | 2525.1 | 3116.1 | 7039.5 | 16283.0 | 23288.8 | 26596.5 | 25212.4 |
| 70° | 928.1 | 949.4 | 1219.1 | 1756.8 | 2007.0 | 1872.1 | 3914.6 | 12453.6 | 20391.0 | 24559.4 | 23292.4 |
| 72.5° | 649.5 | 656.6 | 846.4 | 1338.0 | 1616.6 | 1366.4 | 1863.2 | 8303.0 | 15422.4 | 19276.6 | 18057.5 |
| 75° | 440.1 | 449.0 | 569.6 | 981.3 | 1297.2 | 1043.4 | 986.6 | 4452.3 | 9053.6 | 10670.2 | 9564.7 |
| 77.5° | 269.7 | 273.3 | 367.3 | 670.8 | 970.7 | 795.0 | 635.3 | 1886.3 | 3502.9 | 3439.0 | 2931.5 |
| 80° | 152.6 | 152.6 | 234.2 | 417.0 | 661.9 | 512.8 | 445.4 | 802.1 | 1109.1 | 974.2 | 858.9 |
| 82.5° | 85.2 | 87.0 | 170.4 | 259.1 | 438.3 | 303.4 | 244.9 | 370.9 | 479.1 | 424.1 | 369.1 |
| 85° | 35.5 | 39.0 | 104.7 | 122.4 | 209.4 | 150.8 | 99.4 | 156.2 | 177.5 | 157.9 | 115.3 |
| 87.5° | 3.5 | 5.3 | 31.9 | 23.1 | 24.8 | 30.2 | 14.2 | 30.2 | 24.8 | 24.8 | 17.7 |
| 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° | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 | 4083.2 |
| 2.5° | 4109.8 | 4083.2 | 4015.7 | 3937.7 | 3834.7 | 3785.1 | 3717.6 | 3671.5 | 3632.4 | 3636.0 | 3600.5 |
| 5° | 4189.6 | 4122.2 | 3971.4 | 3783.3 | 3549.0 | 3382.2 | 3204.8 | 3082.3 | 2983.0 | 2961.7 | 2913.8 |
| 7.5° | 4299.7 | 4193.2 | 3928.8 | 3589.9 | 3194.1 | 2894.2 | 2626.3 | 2454.2 | 2331.7 | 2292.7 | 2253.6 |
| 10° | 4441.6 | 4287.2 | 3873.8 | 3346.7 | 2777.1 | 2395.6 | 2108.1 | 1973.3 | 1889.9 | 1861.5 | 1840.2 |
| 12.5° | 4606.7 | 4395.5 | 3801.0 | 3050.4 | 2347.7 | 1980.4 | 1797.6 | 1730.2 | 1703.5 | 1694.7 | 1689.3 |
| 15° | 4814.3 | 4530.4 | 3691.0 | 2699.0 | 1983.9 | 1726.6 | 1648.5 | 1639.7 | 1643.2 | 1639.7 | 1637.9 |
| 17.5° | 5060.9 | 4677.6 | 3511.8 | 2337.0 | 1739.0 | 1597.1 | 1568.7 | 1575.8 | 1584.6 | 1582.9 | 1579.3 |
| 20° | 5330.7 | 4823.1 | 3282.9 | 2015.9 | 1572.2 | 1504.8 | 1488.8 | 1495.9 | 1503.0 | 1499.5 | 1497.7 |
| 22.5° | 5637.7 | 4979.3 | 3029.1 | 1765.6 | 1460.4 | 1419.6 | 1401.9 | 1403.6 | 1403.6 | 1396.5 | 1393.0 |
| 25° | 6005.0 | 5151.4 | 2762.9 | 1588.2 | 1375.3 | 1343.3 | 1322.0 | 1314.9 | 1304.3 | 1283.0 | 1279.4 |
| 27.5° | 6443.3 | 5334.2 | 2507.4 | 1464.0 | 1307.8 | 1277.7 | 1252.8 | 1235.1 | 1208.4 | 1173.0 | 1169.4 |
| 30° | 6936.6 | 5556.0 | 2290.9 | 1385.9 | 1254.6 | 1224.4 | 1196.0 | 1169.4 | 1130.4 | 1086.0 | 1082.5 |
| 32.5° | 7516.9 | 5793.8 | 2133.0 | 1334.4 | 1206.7 | 1174.7 | 1141.0 | 1109.1 | 1066.5 | 1022.1 | 1023.9 |
| 35° | 8208.9 | 6081.3 | 2040.7 | 1298.9 | 1169.4 | 1126.8 | 1089.6 | 1054.1 | 1022.1 | 983.1 | 979.5 |
| 37.5° | 8959.6 | 6386.5 | 2012.3 | 1281.2 | 1144.6 | 1078.9 | 1036.3 | 1011.5 | 1007.9 | 984.9 | 983.1 |
| 40° | 9781.2 | 6748.5 | 2033.6 | 1270.6 | 1117.9 | 1032.8 | 986.6 | 981.3 | 990.2 | 949.4 | 951.1 |
| 42.5° | 10650.7 | 7177.9 | 2069.1 | 1258.1 | 1080.7 | 986.6 | 942.3 | 942.3 | 935.2 | 878.4 | 878.4 |
| 45° | 11591.2 | 7673.0 | 2104.6 | 1228.0 | 1036.3 | 940.5 | 906.8 | 894.4 | 864.2 | 809.2 | 807.4 |
| 47.5° | 12538.8 | 8177.0 | 2131.2 | 1173.0 | 983.1 | 901.5 | 871.3 | 842.9 | 798.5 | 748.8 | 747.1 |
| 50° | 13438.5 | 8629.5 | 2102.8 | 1091.3 | 922.8 | 864.2 | 832.3 | 793.2 | 745.3 | 711.6 | 706.3 |
| 52.5° | 14242.3 | 9021.7 | 1982.1 | 995.5 | 858.9 | 825.2 | 796.8 | 755.9 | 716.9 | 681.4 | 677.9 |
| 55° | 14941.5 | 9339.3 | 1769.2 | 905.0 | 802.1 | 791.4 | 763.0 | 711.6 | 658.3 | 628.2 | 624.6 |
| 57.5° | 15612.2 | 9580.6 | 1503.0 | 830.5 | 750.6 | 754.2 | 711.6 | 665.4 | 615.8 | 583.8 | 580.3 |
| 60° | 16504.8 | 9903.6 | 1233.3 | 761.3 | 695.6 | 706.3 | 660.1 | 626.4 | 564.3 | 523.5 | 518.2 |
| 62.5° | 17931.5 | 10405.8 | 979.5 | 676.1 | 631.7 | 635.3 | 615.8 | 574.9 | 500.4 | 452.5 | 449.0 |
| 65° | 19063.7 | 10221.2 | 771.9 | 583.8 | 559.0 | 564.3 | 564.3 | 519.9 | 440.1 | 385.1 | 379.7 |
| 67.5° | 18935.9 | 8751.9 | 615.8 | 493.3 | 489.8 | 493.3 | 505.7 | 468.5 | 390.4 | 346.0 | 338.9 |
| 70° | 17443.5 | 6961.4 | 493.3 | 409.9 | 425.9 | 417.0 | 452.5 | 427.7 | 351.4 | 307.0 | 301.7 |
| 72.5° | 14233.4 | 5014.8 | 376.2 | 338.9 | 326.5 | 340.7 | 408.1 | 385.1 | 292.8 | 243.1 | 237.8 |
| 75° | 8317.2 | 2676.0 | 280.4 | 268.0 | 236.0 | 283.9 | 362.0 | 328.3 | 223.6 | 179.2 | 173.9 |
| 77.5° | 2707.9 | 933.4 | 205.8 | 197.0 | 175.7 | 228.9 | 308.8 | 276.8 | 182.8 | 142.0 | 136.6 |
| 80° | 725.8 | 282.1 | 140.2 | 129.5 | 113.6 | 170.4 | 244.9 | 220.0 | 131.3 | 92.3 | 90.5 |
| 82.5° | 291.0 | 118.9 | 81.6 | 72.8 | 62.1 | 117.1 | 193.4 | 177.5 | 97.6 | 58.6 | 58.6 |
| 85° | 94.0 | 39.0 | 30.2 | 23.1 | 28.4 | 72.8 | 115.3 | 120.7 | 69.2 | 30.2 | 23.1 |
| 87.5° | 12.4 | 5.3 | 5.3 | 7.1 | 5.3 | 12.4 | 35.5 | 33.7 | 19.5 | 3.5 | 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)