

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: P457823

Luminaire Tested: **GALN-SA9B-722-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-722-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31035 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

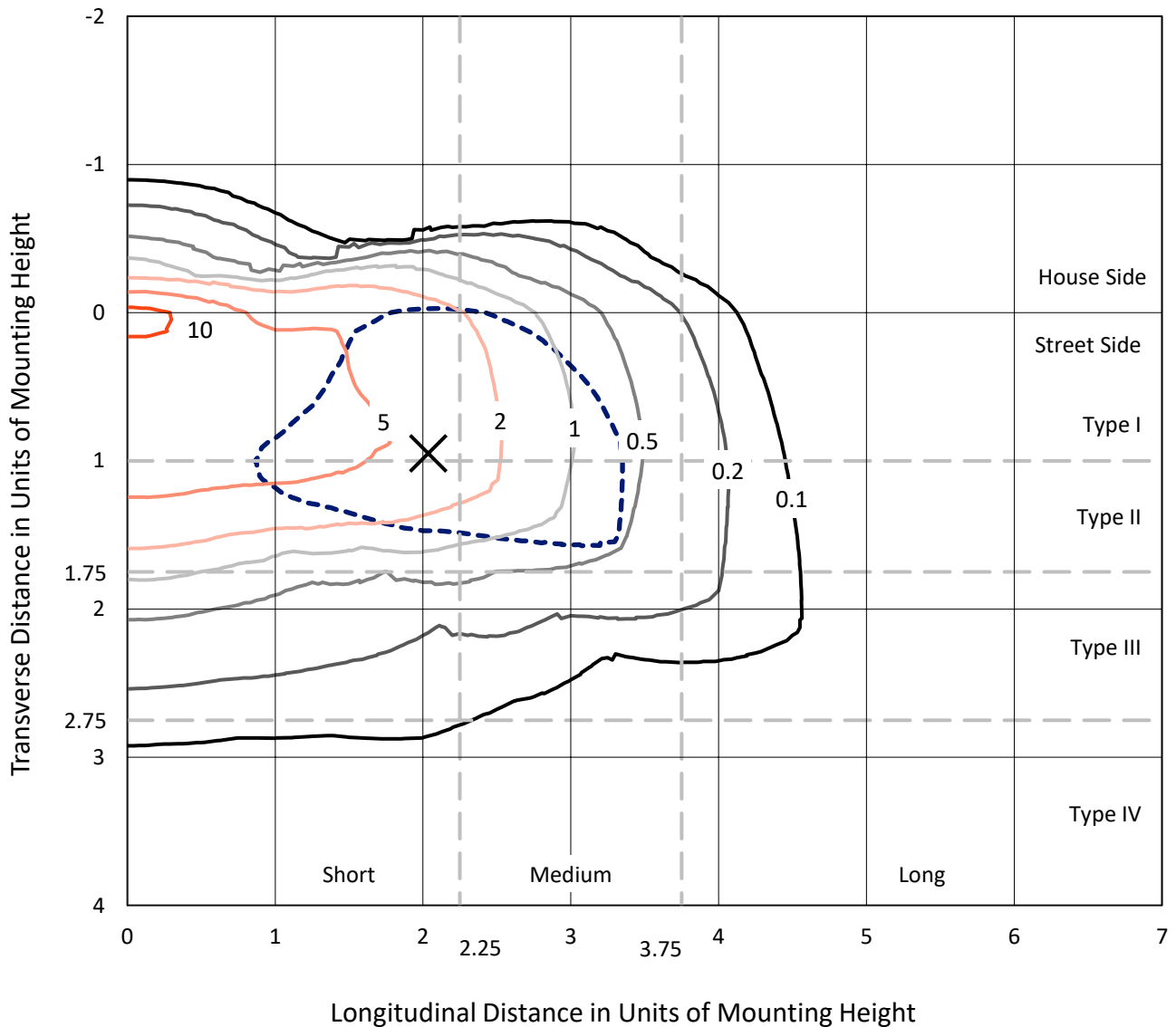
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

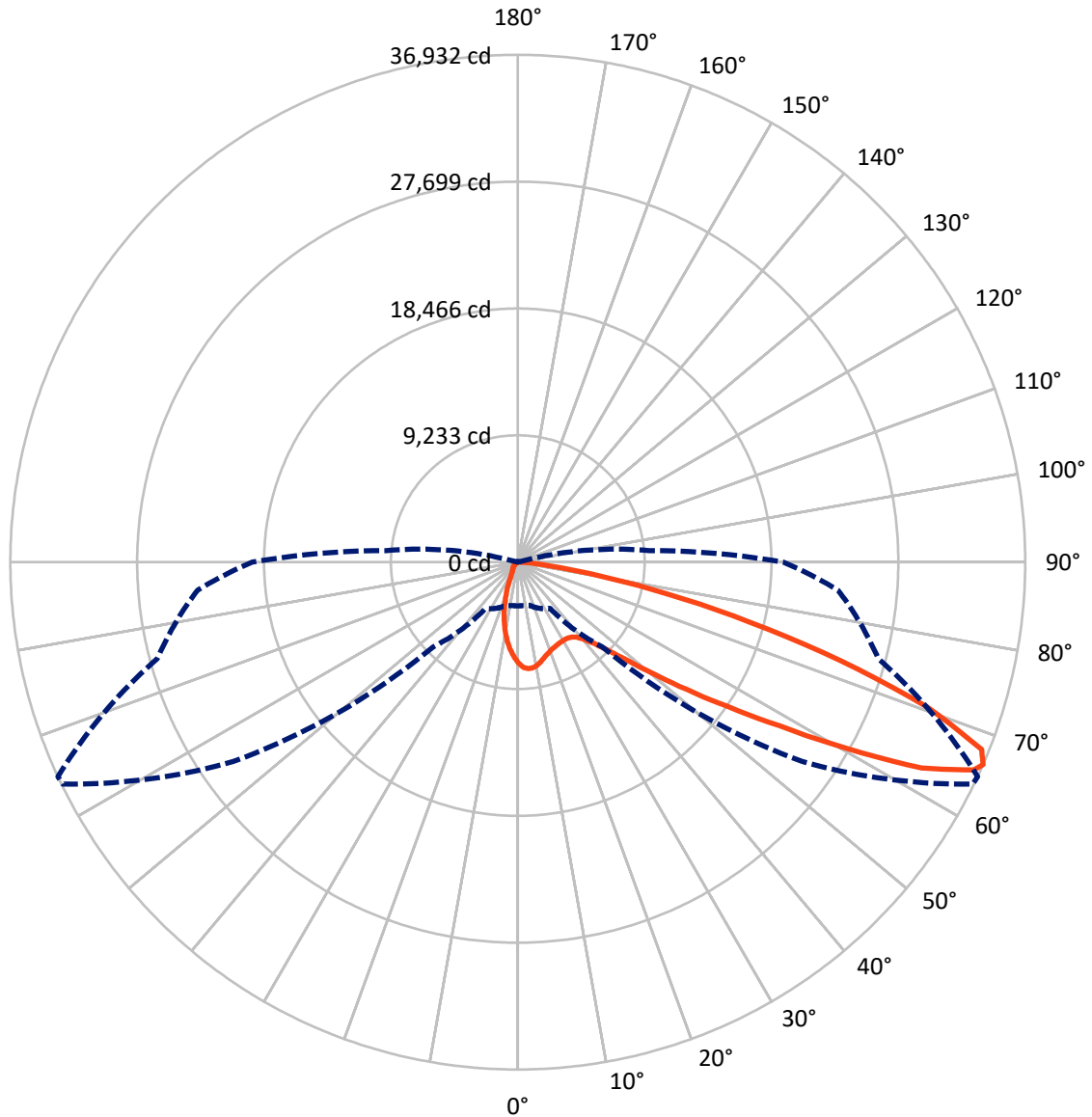
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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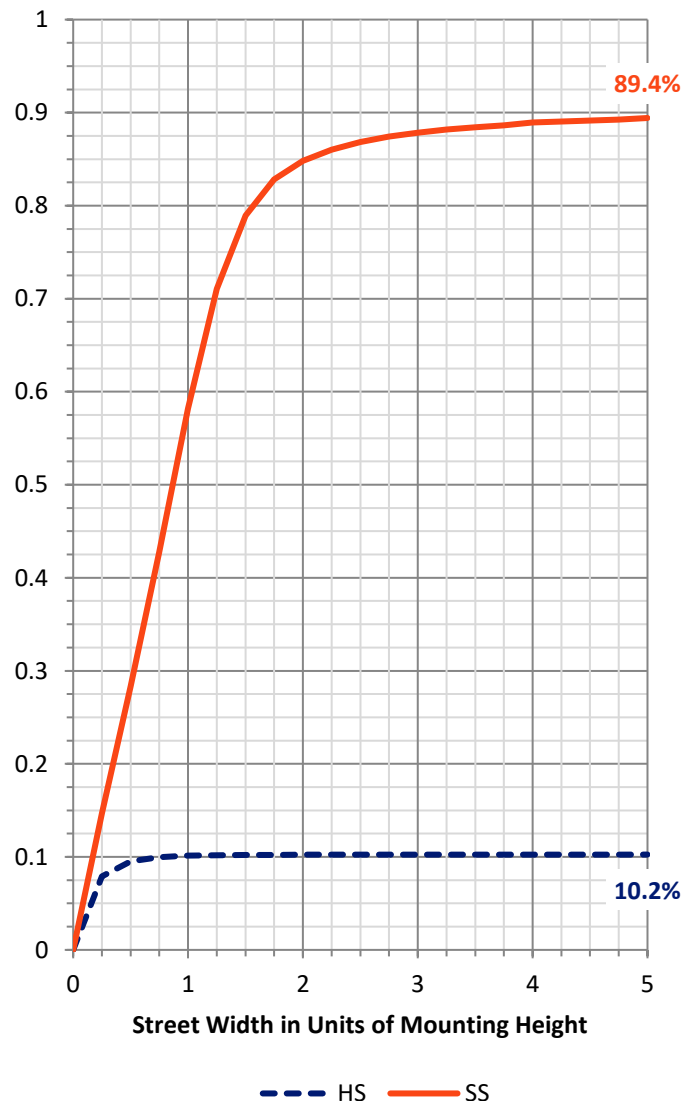
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3209.5 | 0.0 | 3209.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 27825.5 | 0.0 | 27825.5 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 31035.0 | 0.0 | 31035.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 601.9 | 1.9 |
| 10°-20° | 1311.4 | 4.2 |
| 20°-30° | 1878.7 | 6.1 |
| 30°-40° | 2743.9 | 8.8 |
| 40°-50° | 4601.1 | 14.8 |
| 50°-60° | 7678.5 | 24.7 |
| 60°-70° | 8150.5 | 26.3 |
| 70°-80° | 3691.3 | 11.9 |
| 80°-90° | 377.7 | 1.2 |
| 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° | 31035.0 | 100.0 |
| 0°-180° | 31035.0 | 100.0 |



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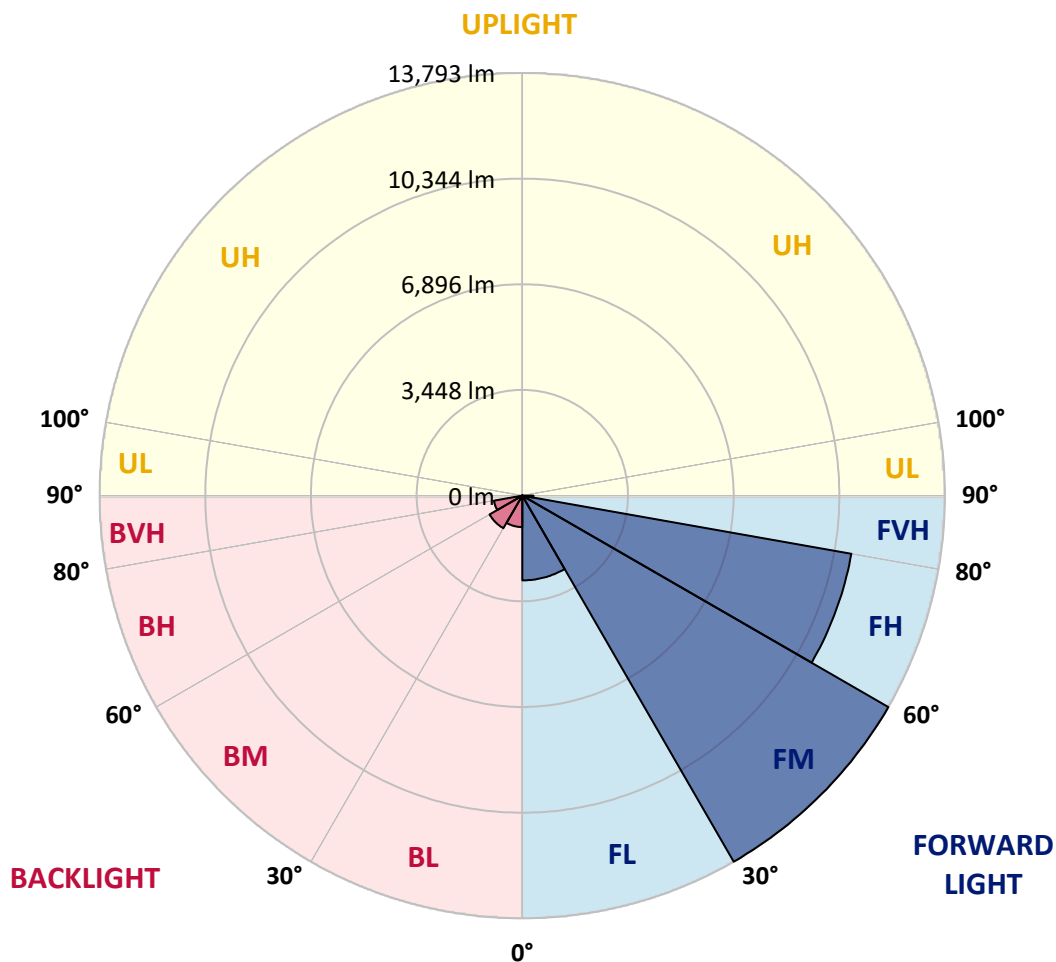
CATALOG NUMBER: GALN-SA9B-722-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2765.3 | 8.9 | | | |
| FM | (30°-60°) | 13792.7 | 44.4 | | | |
| FH | (60°-80°) | 10901.9 | 35.1 | | | G4/12000 |
| FVH | (80°-90°) | 365.7 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1026.7 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 1230.9 | 4.0 | B2/2500 | | |
| BH | (60°-80°) | 939.9 | 3.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 12.0 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 |
| 2.5° | 7755.7 | 7764.1 | 7774.6 | 7789.3 | 7799.7 | 7768.3 | 7724.3 | 7674.0 | 7663.5 | 7556.6 | 7426.6 |
| 5° | 7340.7 | 7353.3 | 7445.5 | 7495.8 | 7609.0 | 7711.7 | 7776.7 | 7785.1 | 7780.9 | 7680.3 | 7472.7 |
| 7.5° | 6749.6 | 6785.2 | 6875.3 | 6963.4 | 7175.1 | 7370.0 | 7600.6 | 7762.0 | 7772.5 | 7745.2 | 7487.4 |
| 10° | 6269.6 | 6292.6 | 6338.7 | 6512.7 | 6688.8 | 6986.4 | 7309.2 | 7613.2 | 7638.3 | 7747.3 | 7474.8 |
| 12.5° | 5894.3 | 5927.9 | 5984.5 | 6118.6 | 6330.3 | 6611.2 | 6978.0 | 7386.8 | 7439.2 | 7707.5 | 7439.2 |
| 15° | 5632.3 | 5649.1 | 5705.7 | 5837.7 | 6043.2 | 6303.1 | 6674.1 | 7149.9 | 7196.0 | 7655.1 | 7432.9 |
| 17.5° | 5508.7 | 5527.5 | 5567.3 | 5672.2 | 5841.9 | 6083.0 | 6445.6 | 6959.2 | 7017.9 | 7621.6 | 7456.0 |
| 20° | 5542.2 | 5559.0 | 5561.1 | 5615.6 | 5730.8 | 5934.2 | 6277.9 | 6781.0 | 6856.5 | 7600.6 | 7493.7 |
| 22.5° | 5732.9 | 5735.0 | 5709.9 | 5684.7 | 5724.6 | 5871.3 | 6175.2 | 6667.8 | 6745.4 | 7596.4 | 7537.7 |
| 25° | 6018.0 | 6024.3 | 5982.4 | 5894.3 | 5814.7 | 5890.1 | 6152.2 | 6594.5 | 6663.6 | 7585.9 | 7565.0 |
| 27.5° | 6412.1 | 6410.0 | 6397.4 | 6250.7 | 6024.3 | 5974.0 | 6171.0 | 6554.6 | 6613.3 | 7556.6 | 7575.4 |
| 30° | 6963.4 | 6946.6 | 6919.4 | 6753.8 | 6407.9 | 6177.3 | 6250.7 | 6529.5 | 6584.0 | 7514.7 | 7548.2 |
| 32.5° | 7506.3 | 7569.2 | 7565.0 | 7407.8 | 6975.9 | 6540.0 | 6416.3 | 6563.0 | 6602.8 | 7487.4 | 7508.4 |
| 35° | 8139.3 | 8137.2 | 8298.6 | 8239.9 | 7734.8 | 7003.2 | 6699.3 | 6674.1 | 6705.5 | 7506.3 | 7489.5 |
| 37.5° | 8726.2 | 8780.7 | 9032.3 | 9093.0 | 8631.9 | 7657.2 | 7099.6 | 6913.1 | 6923.5 | 7634.1 | 7535.6 |
| 40° | 9457.8 | 9562.6 | 9937.8 | 10141.1 | 9734.5 | 8627.7 | 7690.7 | 7351.2 | 7353.3 | 7948.6 | 7709.6 |
| 42.5° | 10401.0 | 10566.6 | 10916.7 | 11256.3 | 11038.3 | 9776.4 | 8577.4 | 8045.0 | 8040.8 | 8501.9 | 8107.9 |
| 45° | 11547.6 | 11662.9 | 12061.2 | 12599.9 | 12461.5 | 11379.9 | 9868.6 | 9120.3 | 9065.8 | 9409.6 | 8814.3 |
| 47.5° | 12537.0 | 12694.2 | 13098.8 | 13712.9 | 14341.8 | 13337.7 | 11411.4 | 10598.1 | 10562.4 | 10853.8 | 10025.8 |
| 50° | 12968.8 | 13107.2 | 13532.7 | 14394.2 | 15918.1 | 15907.6 | 13708.7 | 12755.0 | 12694.2 | 12851.4 | 11899.8 |
| 52.5° | 12495.1 | 12625.0 | 13054.8 | 14128.0 | 16660.1 | 19039.2 | 17037.4 | 15461.1 | 15387.8 | 15186.5 | 14138.5 |
| 55° | 10872.7 | 10979.6 | 11614.7 | 12847.2 | 16375.0 | 21127.0 | 21623.8 | 18804.5 | 18519.4 | 17737.5 | 16672.7 |
| 57.5° | 8657.1 | 8602.6 | 8996.6 | 10428.3 | 14702.3 | 21827.1 | 26331.7 | 22969.5 | 22460.1 | 19942.7 | 18817.0 |
| 60° | 5999.1 | 6166.8 | 6326.1 | 7269.4 | 11055.0 | 20613.4 | 29260.0 | 28205.6 | 27534.9 | 22112.2 | 20871.3 |
| 62.5° | 4410.3 | 4521.4 | 4626.2 | 5062.2 | 6950.8 | 16458.9 | 29777.7 | 33584.3 | 32989.0 | 24415.8 | 22831.1 |
| 65° | 3488.0 | 3496.4 | 3538.3 | 3968.0 | 4580.1 | 10702.9 | 27289.6 | 36617.4 | 36464.4 | 26633.5 | 23625.6 |
| 66° | 3177.7 | 3179.8 | 3244.8 | 3706.0 | 4110.5 | 8715.7 | 25296.2 | 36848.0 | 36931.9 | 27166.0 | 23392.9 |
| 67.5° | 2777.4 | 2769.0 | 2863.3 | 3330.8 | 3743.7 | 6284.2 | 21728.6 | 35913.1 | 36409.9 | 27574.7 | 22556.5 |
| 70° | 2152.7 | 2142.3 | 2257.5 | 2794.2 | 3448.1 | 4192.3 | 14442.4 | 30836.3 | 31637.0 | 26738.3 | 19957.3 |
| 72.5° | 1433.8 | 1442.1 | 1639.2 | 2205.1 | 3290.9 | 3691.3 | 8688.5 | 23457.9 | 24589.8 | 22080.7 | 15700.1 |
| 75° | 836.4 | 851.0 | 1075.3 | 1639.2 | 2857.0 | 3519.4 | 4917.5 | 16727.2 | 17450.4 | 15247.3 | 9780.6 |
| 77.5° | 438.1 | 444.4 | 601.6 | 1081.6 | 2190.5 | 3267.9 | 3276.3 | 10686.1 | 11025.7 | 7409.9 | 3871.6 |
| 80° | 232.7 | 226.4 | 322.8 | 651.9 | 1507.1 | 2869.6 | 2657.9 | 5657.5 | 5881.8 | 2200.9 | 978.9 |
| 82.5° | 88.0 | 96.4 | 171.9 | 427.6 | 890.9 | 2060.5 | 2289.0 | 2500.7 | 2423.1 | 484.2 | 410.8 |
| 85° | 16.8 | 21.0 | 73.4 | 253.6 | 448.6 | 861.5 | 1687.4 | 1226.2 | 1136.1 | 182.4 | 236.9 |
| 87.5° | 2.1 | 4.2 | 21.0 | 60.8 | 65.0 | 291.4 | 498.9 | 339.6 | 293.5 | 67.1 | 98.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 | 7359.5 |
| 2.5° | 7363.7 | 7307.1 | 7118.5 | 6931.9 | 6741.2 | 6569.3 | 6451.9 | 6261.2 | 6213.0 | 6143.8 | 6104.0 |
| 5° | 7349.1 | 7217.0 | 6854.4 | 6458.2 | 6089.3 | 5691.0 | 5387.1 | 5093.6 | 4936.4 | 4856.8 | 4827.4 |
| 7.5° | 7307.1 | 7097.5 | 6531.6 | 5911.1 | 5320.0 | 4724.7 | 4207.0 | 3812.9 | 3559.2 | 3385.3 | 3267.9 |
| 10° | 7223.3 | 6934.0 | 6156.4 | 5303.2 | 4410.3 | 3624.2 | 2968.1 | 2469.3 | 2083.6 | 1962.0 | 1966.2 |
| 12.5° | 7137.4 | 6751.7 | 5737.1 | 4628.3 | 3521.5 | 2530.0 | 1834.1 | 1440.0 | 1255.6 | 1194.8 | 1182.2 |
| 15° | 7057.7 | 6577.7 | 5326.3 | 3974.3 | 2622.3 | 1639.2 | 1182.2 | 1043.9 | 993.6 | 983.1 | 981.0 |
| 17.5° | 7015.8 | 6416.3 | 4888.2 | 3226.0 | 1829.9 | 1113.0 | 947.5 | 909.7 | 895.1 | 884.6 | 880.4 |
| 20° | 6980.1 | 6275.8 | 4469.0 | 2525.8 | 1251.4 | 911.8 | 848.9 | 813.3 | 788.1 | 777.7 | 771.4 |
| 22.5° | 6955.0 | 6131.2 | 4035.1 | 1955.7 | 957.9 | 809.1 | 752.5 | 706.4 | 670.8 | 658.2 | 649.8 |
| 25° | 6917.3 | 5971.9 | 3597.0 | 1429.6 | 807.0 | 719.0 | 654.0 | 599.5 | 553.4 | 530.3 | 526.1 |
| 27.5° | 6862.8 | 5791.6 | 3117.0 | 1058.6 | 721.1 | 639.3 | 559.7 | 492.6 | 446.5 | 421.3 | 423.4 |
| 30° | 6774.7 | 5603.0 | 2636.9 | 840.6 | 651.9 | 557.6 | 471.6 | 406.7 | 362.6 | 343.8 | 341.7 |
| 32.5° | 6669.9 | 5374.5 | 2196.8 | 721.1 | 589.0 | 484.2 | 394.1 | 337.5 | 303.9 | 289.3 | 287.2 |
| 35° | 6571.4 | 5143.9 | 1748.2 | 647.7 | 524.0 | 417.1 | 331.2 | 283.0 | 257.8 | 245.2 | 247.3 |
| 37.5° | 6516.9 | 4938.5 | 1362.5 | 589.0 | 471.6 | 358.4 | 285.1 | 243.2 | 220.1 | 209.6 | 207.5 |
| 40° | 6552.5 | 4770.8 | 1083.7 | 536.6 | 412.9 | 308.1 | 245.2 | 209.6 | 186.6 | 171.9 | 171.9 |
| 42.5° | 6720.2 | 4697.4 | 874.1 | 486.3 | 358.4 | 266.2 | 213.8 | 180.3 | 155.1 | 140.4 | 142.5 |
| 45° | 7231.7 | 4775.0 | 731.6 | 440.2 | 308.1 | 230.6 | 184.5 | 148.8 | 125.8 | 115.3 | 113.2 |
| 47.5° | 8080.6 | 5066.4 | 633.0 | 392.0 | 264.1 | 197.0 | 155.1 | 123.7 | 100.6 | 92.2 | 90.1 |
| 50° | 9564.7 | 5668.0 | 559.7 | 343.8 | 224.3 | 167.7 | 127.9 | 98.5 | 79.7 | 71.3 | 71.3 |
| 52.5° | 11606.3 | 6980.1 | 507.3 | 289.3 | 188.7 | 142.5 | 104.8 | 79.7 | 62.9 | 56.6 | 54.5 |
| 55° | 13740.2 | 8363.6 | 480.0 | 243.2 | 157.2 | 117.4 | 83.8 | 62.9 | 48.2 | 41.9 | 39.8 |
| 57.5° | 15792.3 | 9449.4 | 448.6 | 197.0 | 125.8 | 90.1 | 65.0 | 48.2 | 33.5 | 29.3 | 27.2 |
| 60° | 17760.6 | 10327.7 | 381.5 | 157.2 | 98.5 | 65.0 | 48.2 | 33.5 | 23.1 | 18.9 | 18.9 |
| 62.5° | 19521.3 | 10839.1 | 299.7 | 125.8 | 75.5 | 46.1 | 31.4 | 25.2 | 16.8 | 12.6 | 12.6 |
| 65° | 19726.8 | 10174.7 | 226.4 | 96.4 | 54.5 | 29.3 | 18.9 | 18.9 | 12.6 | 8.4 | 8.4 |
| 66° | 19313.8 | 9610.8 | 199.1 | 88.0 | 48.2 | 25.2 | 16.8 | 14.7 | 10.5 | 6.3 | 6.3 |
| 67.5° | 18391.5 | 8648.7 | 171.9 | 75.5 | 39.8 | 18.9 | 12.6 | 12.6 | 8.4 | 4.2 | 4.2 |
| 70° | 15890.8 | 7064.0 | 136.2 | 56.6 | 29.3 | 14.7 | 8.4 | 8.4 | 6.3 | 4.2 | 4.2 |
| 72.5° | 12111.5 | 5273.9 | 111.1 | 41.9 | 21.0 | 10.5 | 6.3 | 6.3 | 6.3 | 4.2 | 4.2 |
| 75° | 7305.0 | 2840.3 | 85.9 | 31.4 | 18.9 | 8.4 | 4.2 | 6.3 | 8.4 | 6.3 | 4.2 |
| 77.5° | 2691.4 | 966.3 | 67.1 | 25.2 | 14.7 | 8.4 | 4.2 | 4.2 | 8.4 | 6.3 | 6.3 |
| 80° | 660.3 | 251.5 | 48.2 | 21.0 | 14.7 | 8.4 | 4.2 | 4.2 | 8.4 | 8.4 | 8.4 |
| 82.5° | 306.0 | 106.9 | 33.5 | 18.9 | 14.7 | 8.4 | 4.2 | 4.2 | 6.3 | 8.4 | 8.4 |
| 85° | 176.1 | 50.3 | 27.2 | 21.0 | 14.7 | 8.4 | 4.2 | 4.2 | 6.3 | 8.4 | 8.4 |
| 87.5° | 71.3 | 25.2 | 25.2 | 21.0 | 16.8 | 10.5 | 4.2 | 4.2 | 4.2 | 6.3 | 6.3 |
| 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)