

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: P458171

Luminaire Tested: **GALN-SA9C-750-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458171
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-SA9C-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA 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: 52162 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

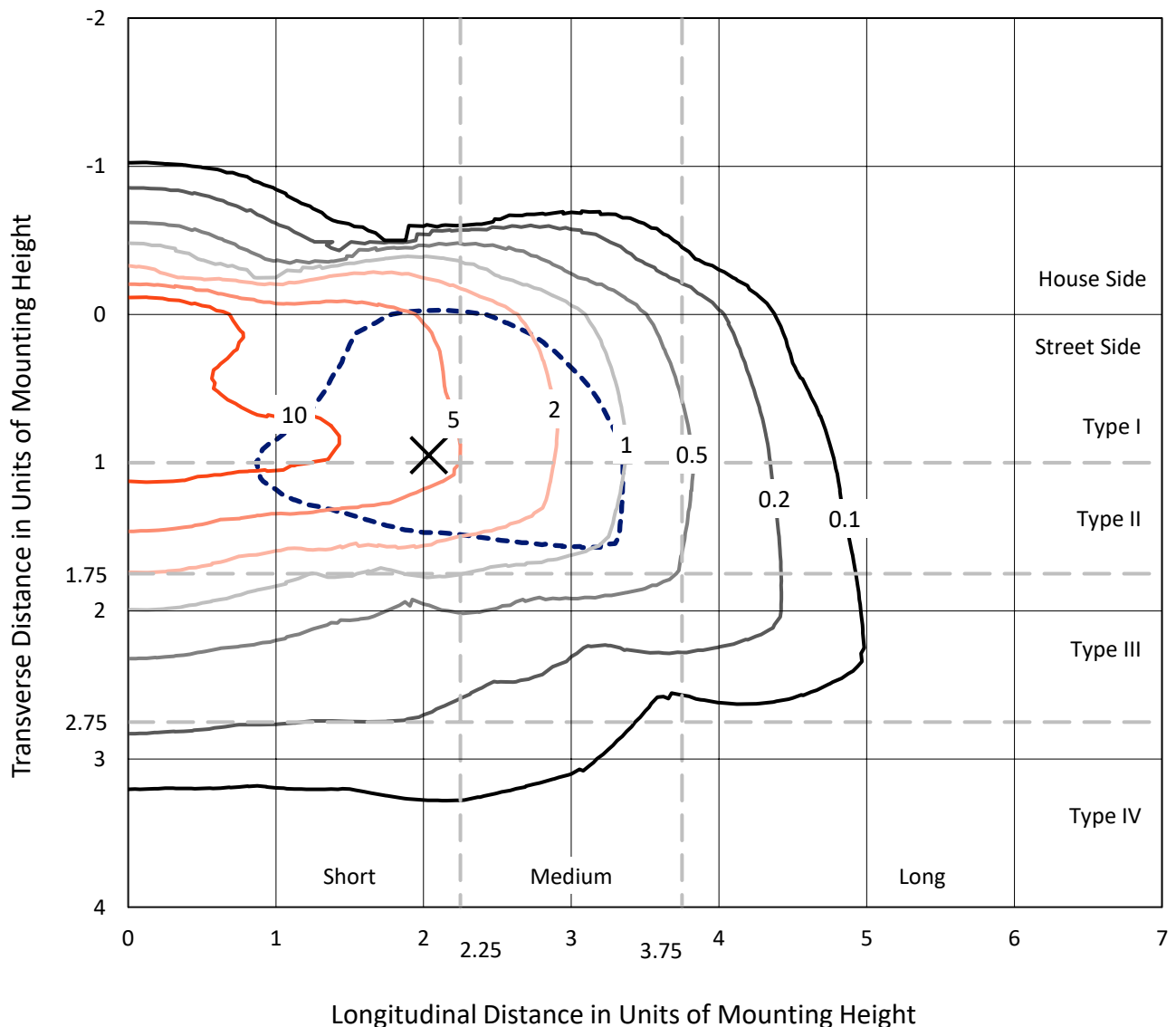
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

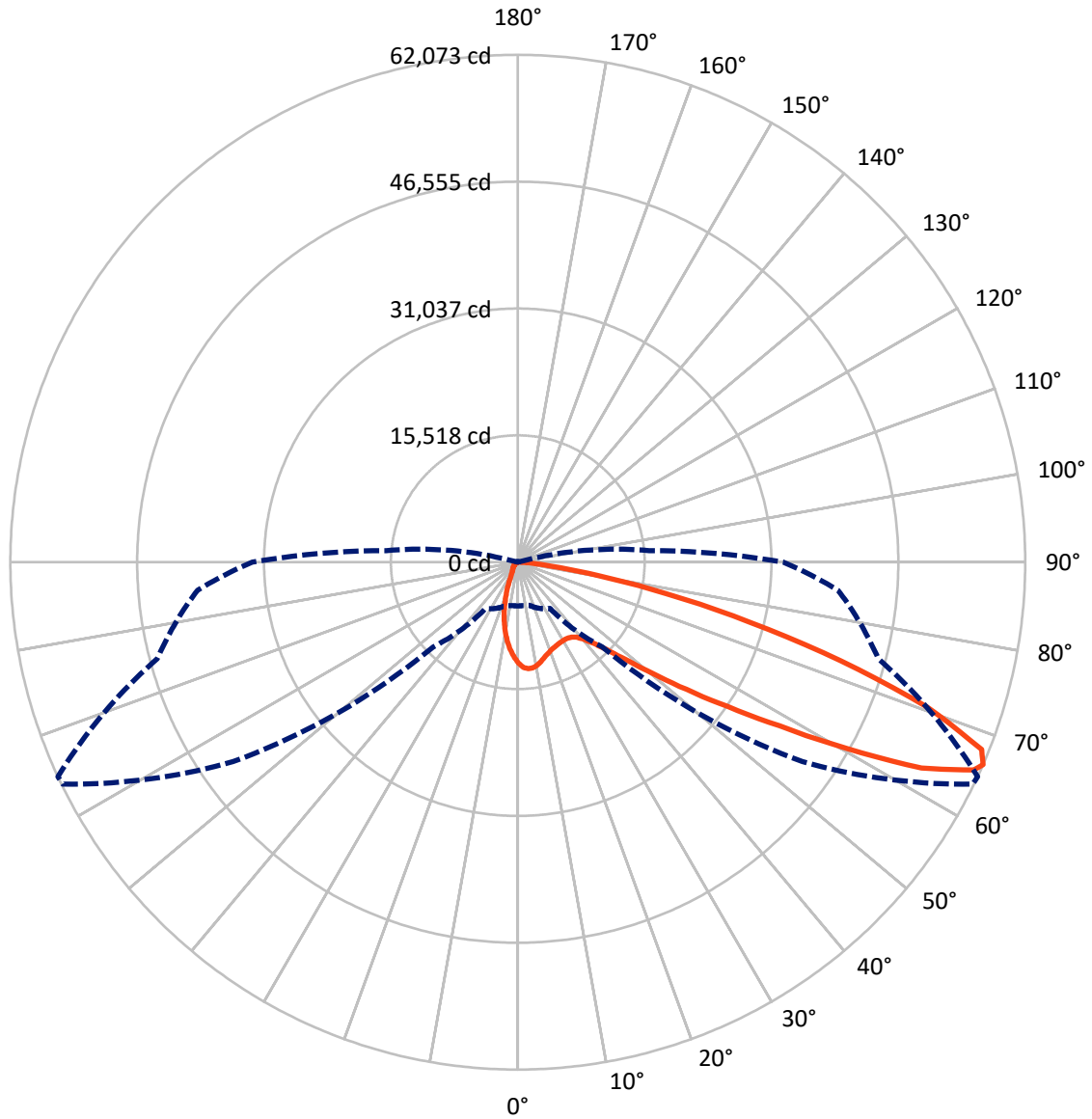
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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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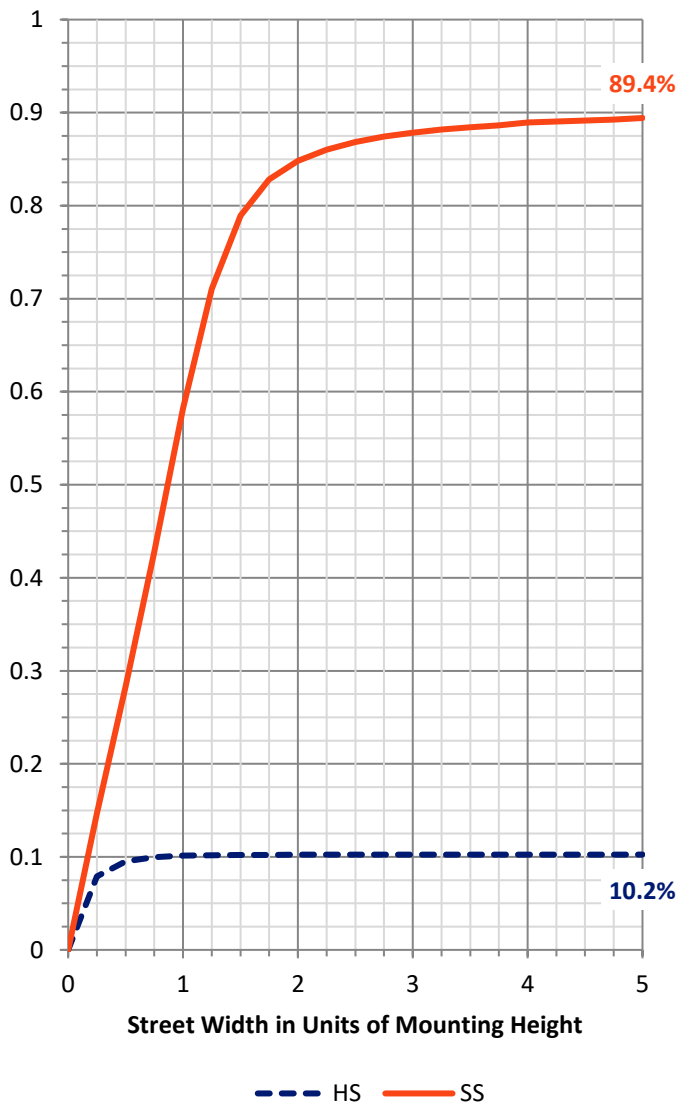
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5394.3 | 0.0 | 5394.3 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 46767.7 | 0.0 | 46767.7 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 52162.0 | 0.0 | 52162.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1011.6 | 1.9 |
| 10°-20° | 2204.2 | 4.2 |
| 20°-30° | 3157.5 | 6.1 |
| 30°-40° | 4611.9 | 8.8 |
| 40°-50° | 7733.3 | 14.8 |
| 50°-60° | 12905.6 | 24.7 |
| 60°-70° | 13698.9 | 26.3 |
| 70°-80° | 6204.2 | 11.9 |
| 80°-90° | 634.8 | 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° | 52162.0 | 100.0 |
| 0°-180° | 52162.0 | 100.0 |

Coefficient of Utilization

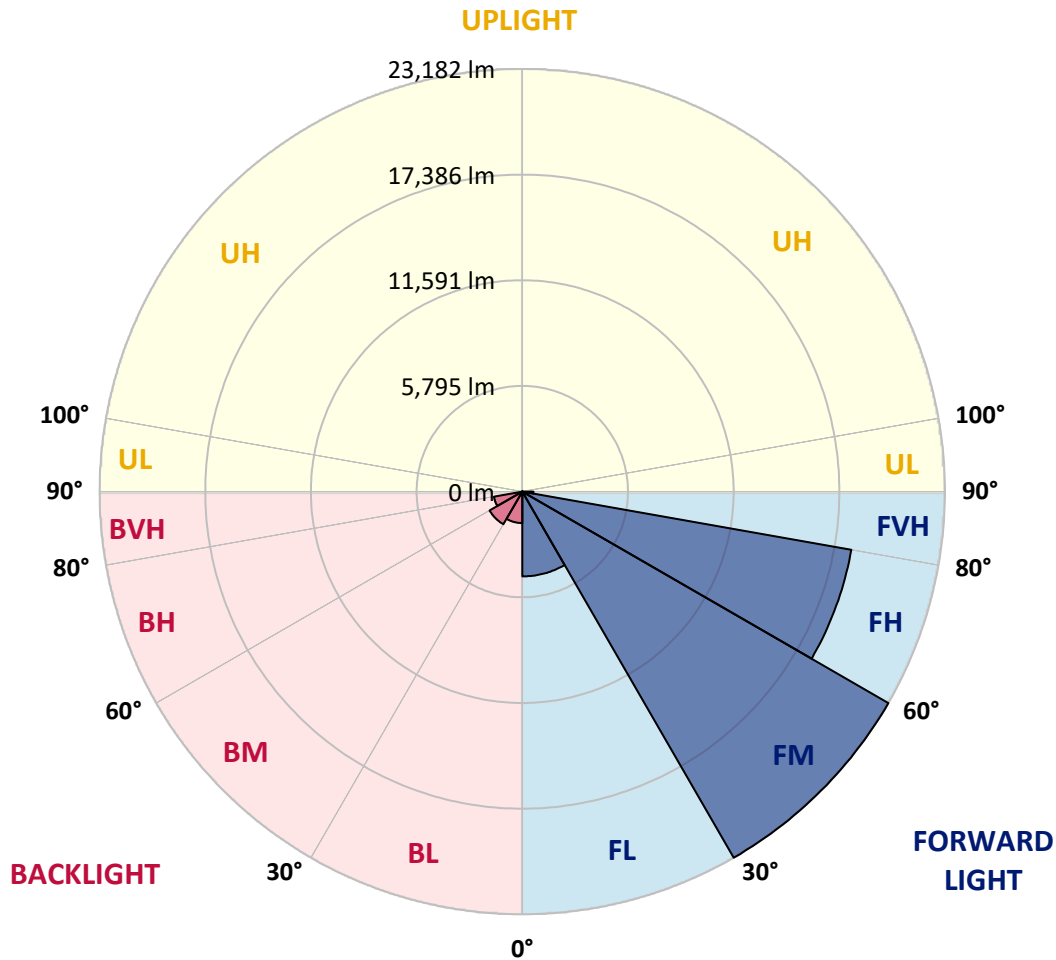


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4647.8 | 8.9 | | | |
| FM | (30°-60°) | 23182.0 | 44.4 | | | |
| FH | (60°-80°) | 18323.3 | 35.1 | | | G5 |
| FVH | (80°-90°) | 614.6 | 1.2 | | | G4/750 |
| BL | (0°-30°) | 1725.6 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 2068.8 | 4.0 | B2/2500 | | |
| BH | (60°-80°) | 1579.7 | 3.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 20.2 | 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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 |
| 2.5° | 13035.4 | 13049.5 | 13067.1 | 13091.8 | 13109.4 | 13056.5 | 12982.5 | 12898.0 | 12880.4 | 12700.7 | 12482.3 |
| 5° | 12337.8 | 12359.0 | 12514.0 | 12598.5 | 12788.8 | 12961.4 | 13070.6 | 13084.7 | 13077.7 | 12908.6 | 12559.8 |
| 7.5° | 11344.3 | 11404.2 | 11555.7 | 11703.7 | 12059.5 | 12387.1 | 12774.7 | 13046.0 | 13063.6 | 13017.8 | 12584.4 |
| 10° | 10537.5 | 10576.3 | 10653.8 | 10946.2 | 11242.1 | 11742.4 | 12285.0 | 12795.8 | 12838.1 | 13021.3 | 12563.3 |
| 12.5° | 9906.9 | 9963.3 | 10058.4 | 10283.9 | 10639.7 | 11111.8 | 11728.3 | 12415.3 | 12503.4 | 12954.4 | 12503.4 |
| 15° | 9466.5 | 9494.7 | 9589.8 | 9811.8 | 10157.0 | 10593.9 | 11217.5 | 12017.2 | 12094.7 | 12866.3 | 12492.8 |
| 17.5° | 9258.7 | 9290.4 | 9357.3 | 9533.5 | 9818.8 | 10224.0 | 10833.5 | 11696.6 | 11795.3 | 12809.9 | 12531.6 |
| 20° | 9315.0 | 9343.2 | 9346.7 | 9438.3 | 9632.1 | 9973.8 | 10551.6 | 11397.2 | 11524.0 | 12774.7 | 12595.0 |
| 22.5° | 9635.6 | 9639.1 | 9596.9 | 9554.6 | 9621.5 | 9868.1 | 10379.0 | 11206.9 | 11337.3 | 12767.6 | 12669.0 |
| 25° | 10114.8 | 10125.3 | 10054.9 | 9906.9 | 9773.0 | 9899.9 | 10340.2 | 11083.6 | 11199.9 | 12750.0 | 12714.8 |
| 27.5° | 10777.1 | 10773.6 | 10752.4 | 10505.8 | 10125.3 | 10040.8 | 10371.9 | 11016.7 | 11115.3 | 12700.7 | 12732.4 |
| 30° | 11703.7 | 11675.5 | 11629.7 | 11351.4 | 10770.1 | 10382.5 | 10505.8 | 10974.4 | 11066.0 | 12630.2 | 12686.6 |
| 32.5° | 12616.1 | 12721.8 | 12714.8 | 12450.6 | 11724.8 | 10992.0 | 10784.1 | 11030.8 | 11097.7 | 12584.4 | 12619.7 |
| 35° | 13680.1 | 13676.6 | 13947.9 | 13849.2 | 13000.2 | 11770.6 | 11259.8 | 11217.5 | 11270.3 | 12616.1 | 12588.0 |
| 37.5° | 14666.6 | 14758.2 | 15181.0 | 15283.1 | 14508.0 | 12869.8 | 11932.7 | 11619.1 | 11636.7 | 12831.1 | 12665.5 |
| 40° | 15896.1 | 16072.3 | 16702.9 | 17044.7 | 16361.2 | 14501.0 | 12926.2 | 12355.4 | 12359.0 | 13359.5 | 12957.9 |
| 42.5° | 17481.5 | 17759.8 | 18348.2 | 18918.9 | 18552.5 | 16431.6 | 14416.4 | 13521.6 | 13514.5 | 14289.6 | 13627.3 |
| 45° | 19408.6 | 19602.4 | 20271.8 | 21177.2 | 20944.7 | 19126.8 | 16586.7 | 15328.9 | 15237.3 | 15815.1 | 14814.6 |
| 47.5° | 21071.5 | 21335.8 | 22015.7 | 23048.0 | 24104.9 | 22417.4 | 19179.6 | 17812.7 | 17752.8 | 18242.5 | 16850.9 |
| 50° | 21797.3 | 22029.8 | 22745.0 | 24193.0 | 26754.3 | 26736.7 | 23040.9 | 21437.9 | 21335.8 | 21600.0 | 20000.5 |
| 52.5° | 21001.1 | 21219.5 | 21941.7 | 23745.6 | 28001.4 | 32000.1 | 28635.6 | 25986.2 | 25862.9 | 25524.7 | 23763.2 |
| 55° | 18274.2 | 18453.9 | 19521.4 | 21593.0 | 27522.3 | 35509.1 | 36344.1 | 31605.6 | 31126.4 | 29812.3 | 28022.6 |
| 57.5° | 14550.3 | 14458.7 | 15121.1 | 17527.3 | 24710.9 | 36685.8 | 44256.9 | 38605.9 | 37749.8 | 33518.6 | 31626.7 |
| 60° | 10083.1 | 10364.9 | 10632.7 | 12218.0 | 18580.7 | 34646.0 | 49178.7 | 47406.6 | 46279.2 | 37165.0 | 35079.3 |
| 62.5° | 7412.6 | 7599.3 | 7775.4 | 8508.2 | 11682.5 | 27663.2 | 50048.9 | 56446.8 | 55446.2 | 41036.8 | 38373.4 |
| 65° | 5862.4 | 5876.5 | 5947.0 | 6669.2 | 7697.9 | 17988.8 | 45867.0 | 61544.7 | 61287.5 | 44764.3 | 39708.6 |
| 66° | 5341.0 | 5344.5 | 5453.7 | 6228.8 | 6908.8 | 14649.0 | 42516.5 | 61932.2 | 62073.1 | 45659.1 | 39317.6 |
| 67.5° | 4668.1 | 4654.0 | 4812.5 | 5598.2 | 6292.2 | 10562.2 | 36520.2 | 60360.9 | 61195.9 | 46346.1 | 37911.9 |
| 70° | 3618.2 | 3600.6 | 3794.4 | 4696.3 | 5795.5 | 7046.2 | 24274.0 | 51828.0 | 53173.8 | 44940.4 | 33543.2 |
| 72.5° | 2409.8 | 2423.9 | 2755.0 | 3706.3 | 5531.2 | 6204.1 | 14603.2 | 39426.8 | 41329.3 | 37112.1 | 26387.9 |
| 75° | 1405.7 | 1430.4 | 1807.3 | 2755.0 | 4802.0 | 5915.3 | 8265.1 | 28114.2 | 29329.6 | 25626.9 | 16438.7 |
| 77.5° | 736.3 | 746.9 | 1011.1 | 1817.9 | 3681.6 | 5492.5 | 5506.6 | 17960.7 | 18531.4 | 12454.1 | 6507.1 |
| 80° | 391.1 | 380.5 | 542.6 | 1095.7 | 2533.1 | 4823.1 | 4467.3 | 9508.8 | 9885.8 | 3699.2 | 1645.3 |
| 82.5° | 148.0 | 162.1 | 288.9 | 718.7 | 1497.3 | 3463.2 | 3847.2 | 4203.0 | 4072.7 | 813.8 | 690.5 |
| 85° | 28.2 | 35.2 | 123.3 | 426.3 | 753.9 | 1448.0 | 2836.1 | 2061.0 | 1909.5 | 306.5 | 398.1 |
| 87.5° | 3.5 | 7.0 | 35.2 | 102.2 | 109.2 | 489.7 | 838.5 | 570.7 | 493.2 | 112.7 | 165.6 |
| 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° | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 | 12369.5 |
| 2.5° | 12376.6 | 12281.5 | 11964.4 | 11650.8 | 11330.2 | 11041.3 | 10844.0 | 10523.4 | 10442.4 | 10326.1 | 10259.2 |
| 5° | 12351.9 | 12130.0 | 11520.5 | 10854.6 | 10234.5 | 9565.2 | 9054.3 | 8561.1 | 8296.9 | 8163.0 | 8113.7 |
| 7.5° | 12281.5 | 11929.1 | 10977.9 | 9935.1 | 8941.6 | 7941.0 | 7070.8 | 6408.5 | 5982.2 | 5689.8 | 5492.5 |
| 10° | 12140.5 | 11654.3 | 10347.3 | 8913.4 | 7412.6 | 6091.4 | 4988.7 | 4150.2 | 3501.9 | 3297.6 | 3304.6 |
| 12.5° | 11996.1 | 11347.8 | 9642.7 | 7779.0 | 5918.8 | 4252.4 | 3082.7 | 2420.4 | 2110.3 | 2008.2 | 1987.0 |
| 15° | 11862.2 | 11055.4 | 8952.1 | 6679.8 | 4407.4 | 2755.0 | 1987.0 | 1754.5 | 1669.9 | 1652.3 | 1648.8 |
| 17.5° | 11791.7 | 10784.1 | 8215.8 | 5422.0 | 3075.6 | 1870.8 | 1592.4 | 1529.0 | 1504.4 | 1486.7 | 1479.7 |
| 20° | 11731.9 | 10548.1 | 7511.2 | 4245.3 | 2103.3 | 1532.5 | 1426.8 | 1367.0 | 1324.7 | 1307.1 | 1296.5 |
| 22.5° | 11689.6 | 10305.0 | 6781.9 | 3287.0 | 1610.0 | 1359.9 | 1264.8 | 1187.3 | 1127.4 | 1106.2 | 1092.2 |
| 25° | 11626.2 | 10037.3 | 6045.6 | 2402.7 | 1356.4 | 1208.4 | 1099.2 | 1007.6 | 930.1 | 891.3 | 884.3 |
| 27.5° | 11534.6 | 9734.3 | 5238.8 | 1779.2 | 1211.9 | 1074.5 | 940.7 | 827.9 | 750.4 | 708.1 | 711.7 |
| 30° | 11386.6 | 9417.2 | 4432.0 | 1412.8 | 1095.7 | 937.1 | 792.7 | 683.5 | 609.5 | 577.8 | 574.3 |
| 32.5° | 11210.4 | 9033.2 | 3692.2 | 1211.9 | 990.0 | 813.8 | 662.3 | 567.2 | 510.8 | 486.2 | 482.7 |
| 35° | 11044.9 | 8645.6 | 2938.2 | 1088.6 | 880.8 | 701.1 | 556.6 | 475.6 | 433.3 | 412.2 | 415.7 |
| 37.5° | 10953.3 | 8300.4 | 2290.0 | 990.0 | 792.7 | 602.4 | 479.1 | 408.7 | 369.9 | 352.3 | 348.8 |
| 40° | 11013.1 | 8018.5 | 1821.4 | 901.9 | 694.0 | 517.9 | 412.2 | 352.3 | 313.6 | 288.9 | 288.9 |
| 42.5° | 11295.0 | 7895.2 | 1469.1 | 817.4 | 602.4 | 447.4 | 359.4 | 303.0 | 260.7 | 236.0 | 239.6 |
| 45° | 12154.6 | 8025.6 | 1229.6 | 739.8 | 517.9 | 387.5 | 310.0 | 250.1 | 211.4 | 193.8 | 190.2 |
| 47.5° | 13581.5 | 8515.3 | 1064.0 | 658.8 | 443.9 | 331.2 | 260.7 | 207.9 | 169.1 | 155.0 | 151.5 |
| 50° | 16075.8 | 9526.4 | 940.7 | 577.8 | 377.0 | 281.8 | 214.9 | 165.6 | 133.9 | 119.8 | 119.8 |
| 52.5° | 19507.3 | 11731.9 | 852.6 | 486.2 | 317.1 | 239.6 | 176.2 | 133.9 | 105.7 | 95.1 | 91.6 |
| 55° | 23093.8 | 14057.1 | 806.8 | 408.7 | 264.2 | 197.3 | 140.9 | 105.7 | 81.0 | 70.5 | 66.9 |
| 57.5° | 26542.9 | 15882.0 | 753.9 | 331.2 | 211.4 | 151.5 | 109.2 | 81.0 | 56.4 | 49.3 | 45.8 |
| 60° | 29851.1 | 17358.2 | 641.2 | 264.2 | 165.6 | 109.2 | 81.0 | 56.4 | 38.8 | 31.7 | 31.7 |
| 62.5° | 32810.4 | 18217.8 | 503.8 | 211.4 | 126.8 | 77.5 | 52.8 | 42.3 | 28.2 | 21.1 | 21.1 |
| 65° | 33155.7 | 17101.0 | 380.5 | 162.1 | 91.6 | 49.3 | 31.7 | 31.7 | 21.1 | 14.1 | 14.1 |
| 66° | 32461.7 | 16153.3 | 334.7 | 148.0 | 81.0 | 42.3 | 28.2 | 24.7 | 17.6 | 10.6 | 10.6 |
| 67.5° | 30911.5 | 14536.2 | 288.9 | 126.8 | 66.9 | 31.7 | 21.1 | 21.1 | 14.1 | 7.0 | 7.0 |
| 70° | 26708.5 | 11872.8 | 229.0 | 95.1 | 49.3 | 24.7 | 14.1 | 14.1 | 10.6 | 7.0 | 7.0 |
| 72.5° | 20356.4 | 8864.1 | 186.7 | 70.5 | 35.2 | 17.6 | 10.6 | 10.6 | 10.6 | 7.0 | 7.0 |
| 75° | 12277.9 | 4773.8 | 144.4 | 52.8 | 31.7 | 14.1 | 7.0 | 10.6 | 14.1 | 10.6 | 7.0 |
| 77.5° | 4523.6 | 1624.1 | 112.7 | 42.3 | 24.7 | 14.1 | 7.0 | 7.0 | 14.1 | 10.6 | 10.6 |
| 80° | 1109.8 | 422.8 | 81.0 | 35.2 | 24.7 | 14.1 | 7.0 | 7.0 | 14.1 | 14.1 | 14.1 |
| 82.5° | 514.4 | 179.7 | 56.4 | 31.7 | 24.7 | 14.1 | 7.0 | 7.0 | 10.6 | 14.1 | 14.1 |
| 85° | 295.9 | 84.6 | 45.8 | 35.2 | 24.7 | 14.1 | 7.0 | 7.0 | 10.6 | 14.1 | 14.1 |
| 87.5° | 119.8 | 42.3 | 42.3 | 35.2 | 28.2 | 17.6 | 7.0 | 7.0 | 7.0 | 10.6 | 10.6 |
| 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)