

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641214

Luminaire Tested: GWS-SA5F-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35001.6 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

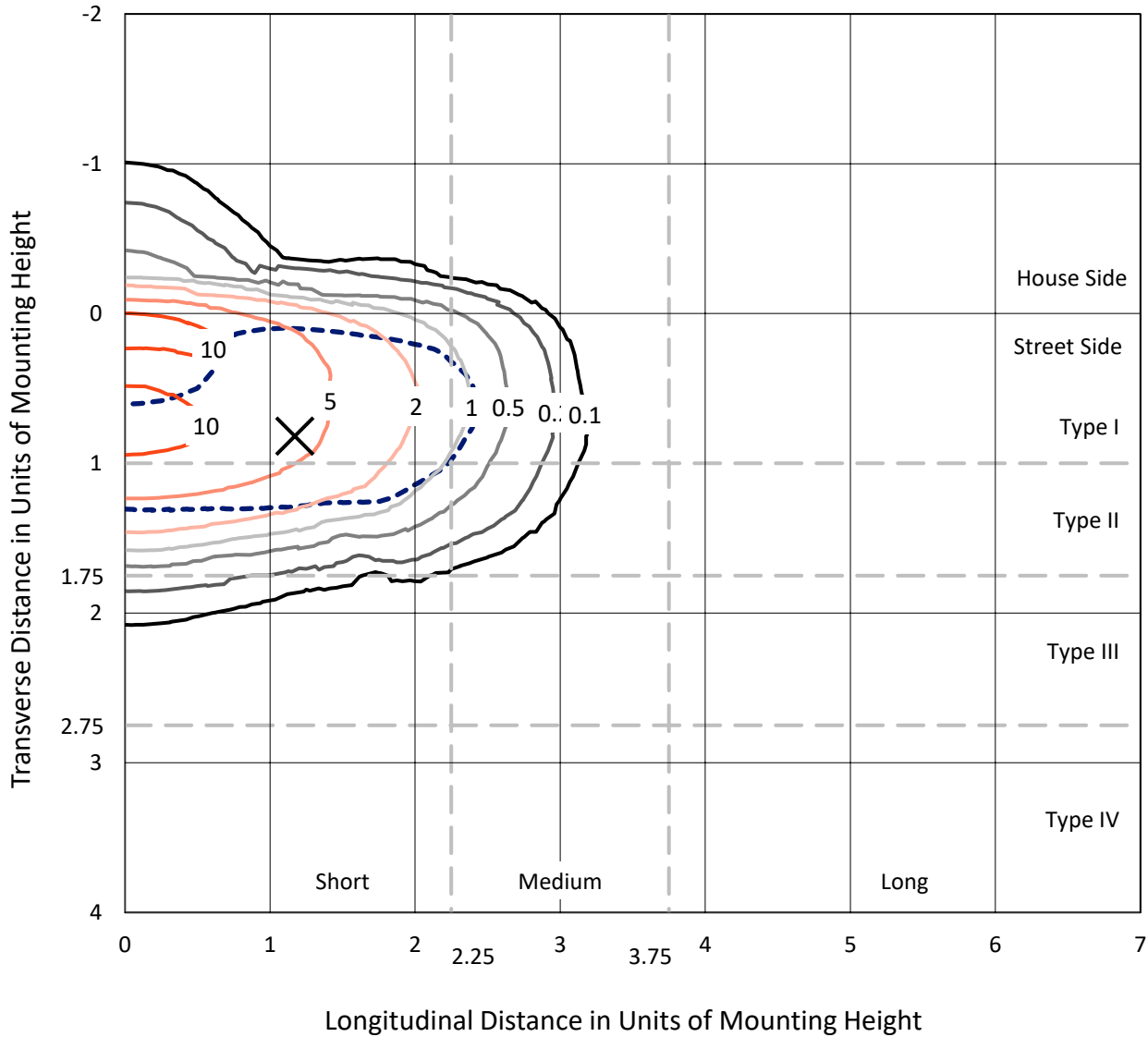
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

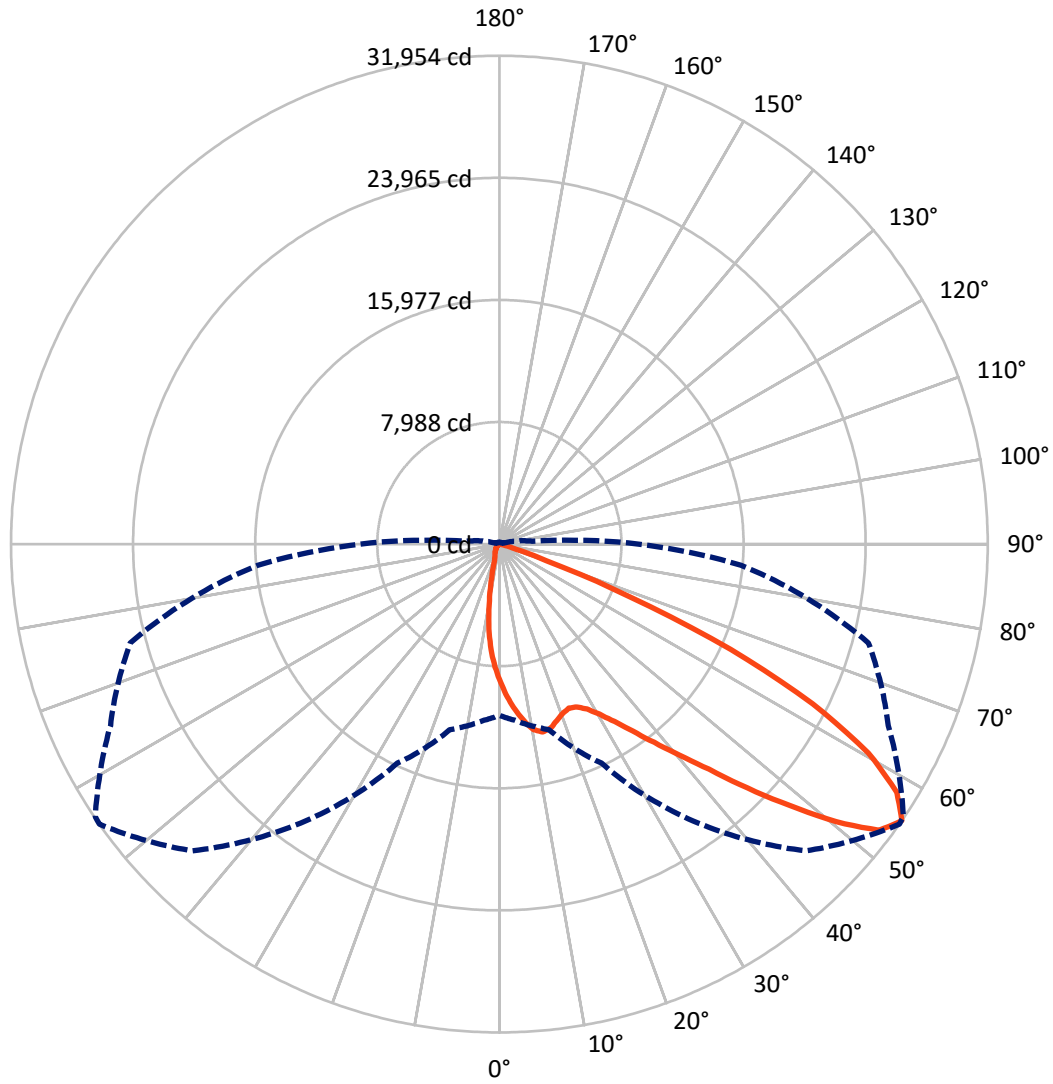
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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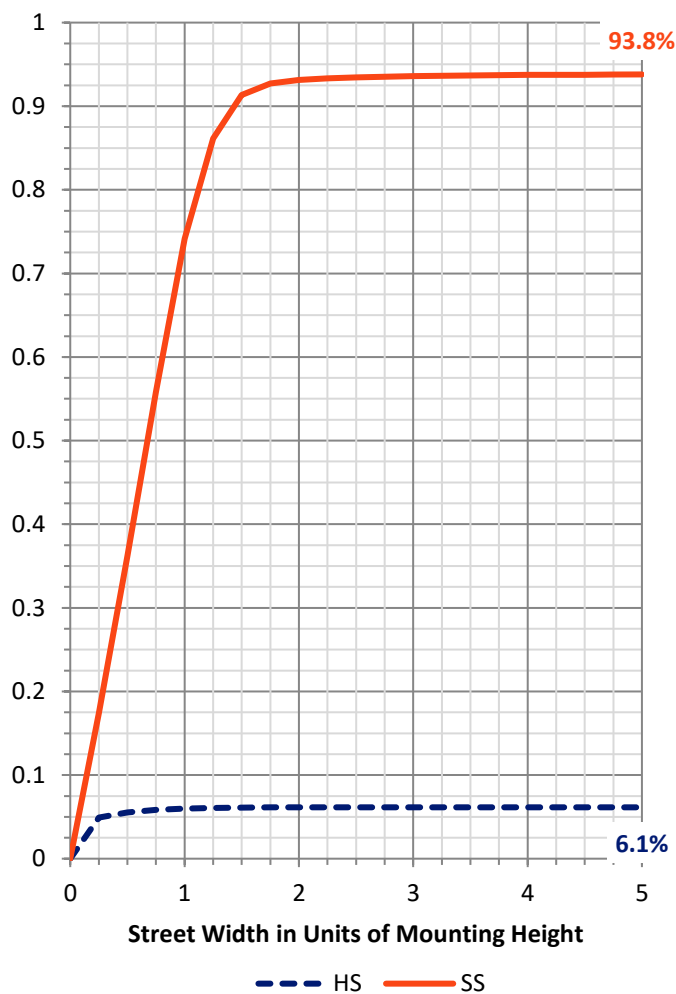
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2159.8 | 0.0 | 2159.8 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 32841.9 | 0.0 | 32841.9 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 35001.6 | 0.0 | 35001.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 799.1 | 2.3 |
| 10°-20° | 1926.6 | 5.5 |
| 20°-30° | 3208.6 | 9.2 |
| 30°-40° | 5467.6 | 15.6 |
| 40°-50° | 8925.0 | 25.5 |
| 50°-60° | 9344.0 | 26.7 |
| 60°-70° | 4712.9 | 13.5 |
| 70°-80° | 595.3 | 1.7 |
| 80°-90° | 22.6 | 0.1 |
| 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° | 35001.6 | 100.0 |
| 0°-180° | 35001.6 | 100.0 |

Coefficient of Utilization



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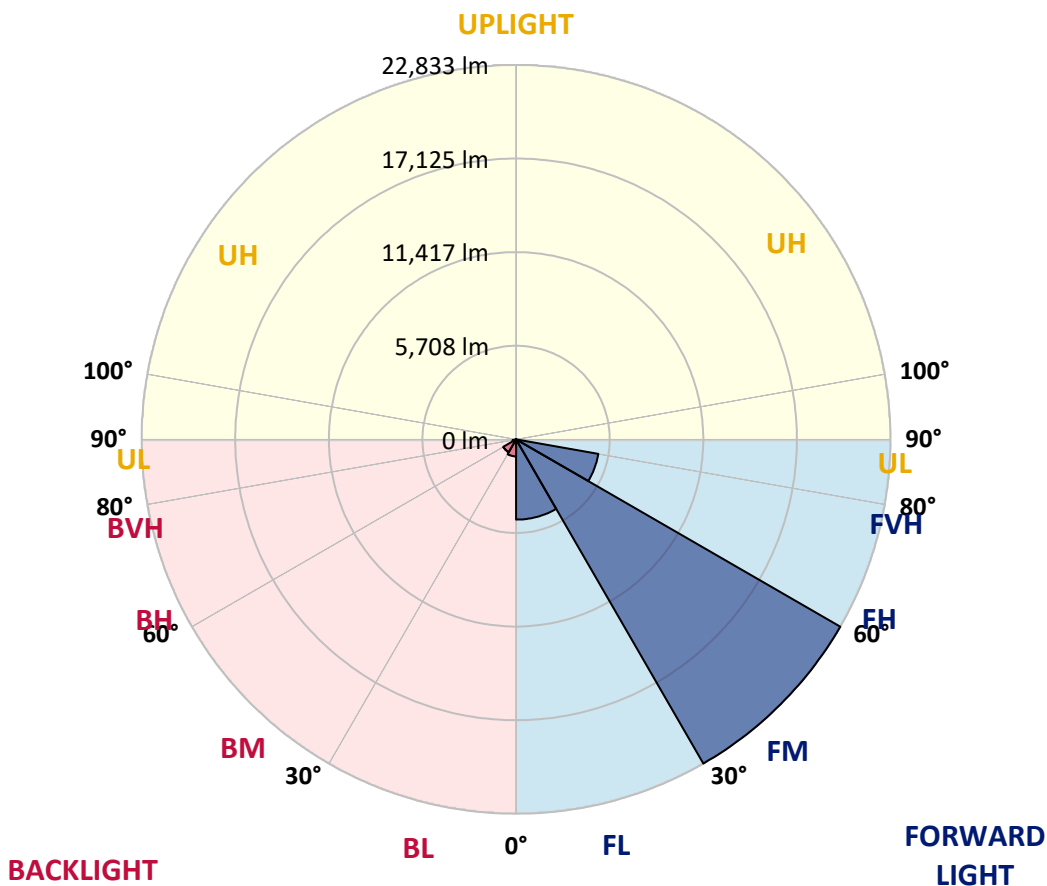
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4896.2 | 14.0 | | | |
| FM (30°-60°) | 22833.5 | 65.2 | | | |
| FH (60°-80°) | 5091.6 | 14.5 | | | G3/7500 |
| FVH (80°-90°) | 20.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1038.1 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 903.0 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 216.6 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.0 | 0.0 | | | G0/10 |
| 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 |
| 2.5° | 10541.4 | 10490.6 | 10568.4 | 10478.6 | 10326.0 | 10197.3 | 10029.8 | 9969.9 | 9700.6 | 9446.3 | 9200.9 |
| 5° | 11822.1 | 11837.1 | 11813.1 | 11687.4 | 11472.0 | 11232.6 | 10894.5 | 10819.7 | 10349.9 | 9865.2 | 9341.6 |
| 7.5° | 12139.3 | 12130.3 | 12181.2 | 12229.0 | 12193.1 | 12073.4 | 11705.4 | 11630.6 | 11047.1 | 10320.0 | 9557.0 |
| 10° | 11160.8 | 11166.8 | 11271.5 | 11594.7 | 11995.6 | 12411.6 | 12354.7 | 12312.8 | 11741.3 | 10834.7 | 9796.4 |
| 12.5° | 9778.4 | 9832.3 | 9943.0 | 10403.8 | 11083.0 | 12028.6 | 12615.0 | 12656.9 | 12378.6 | 11400.2 | 10077.7 |
| 15° | 9180.0 | 9192.0 | 9281.7 | 9560.0 | 10065.7 | 11232.6 | 12504.3 | 12621.0 | 12911.3 | 11968.7 | 10382.9 |
| 17.5° | 9165.0 | 9180.0 | 9218.9 | 9341.6 | 9670.7 | 10607.3 | 12148.2 | 12351.7 | 13312.2 | 12579.1 | 10747.9 |
| 20° | 9727.6 | 9718.6 | 9691.7 | 9625.8 | 9769.5 | 10400.8 | 11819.1 | 12043.5 | 13530.6 | 13174.6 | 11115.9 |
| 22.5° | 10747.9 | 10735.9 | 10616.2 | 10344.0 | 10227.3 | 10589.3 | 11657.5 | 11861.0 | 13662.3 | 13704.2 | 11418.2 |
| 25° | 11923.8 | 12007.6 | 11783.2 | 11370.3 | 11083.0 | 11071.1 | 11801.2 | 11944.8 | 13776.0 | 14173.9 | 11624.6 |
| 27.5° | 13213.5 | 13240.4 | 13048.9 | 12585.1 | 12169.2 | 11843.0 | 12217.1 | 12324.8 | 13901.7 | 14592.9 | 11741.3 |
| 30° | 14628.8 | 14619.8 | 14401.4 | 13862.8 | 13357.1 | 12887.3 | 12917.2 | 12959.1 | 14194.9 | 15071.6 | 11870.0 |
| 32.5° | 16397.1 | 16436.0 | 16047.1 | 15314.0 | 14706.6 | 14057.3 | 13832.8 | 13838.8 | 14724.5 | 15688.0 | 12064.5 |
| 35° | 18799.9 | 18704.1 | 18189.5 | 17145.2 | 16109.9 | 15409.7 | 15026.7 | 14993.8 | 15541.4 | 16516.8 | 12402.6 |
| 37.5° | 21088.9 | 21097.9 | 20559.3 | 19410.3 | 18102.7 | 16998.6 | 16457.0 | 16367.2 | 16690.4 | 17665.8 | 12965.1 |
| 40° | 22677.7 | 22707.6 | 22483.2 | 21881.8 | 20496.4 | 18934.5 | 18138.6 | 18045.8 | 18180.5 | 19120.0 | 13701.2 |
| 42.5° | 23518.5 | 23602.3 | 23665.1 | 23805.8 | 22755.5 | 21352.2 | 20128.4 | 20119.4 | 19978.8 | 20777.7 | 14554.0 |
| 45° | 23551.4 | 23677.1 | 24060.1 | 25020.6 | 25140.3 | 24111.0 | 22779.5 | 22579.0 | 22037.4 | 22552.0 | 15317.0 |
| 47.5° | 22249.8 | 22540.1 | 23354.0 | 25257.0 | 26513.7 | 26854.8 | 25535.3 | 25412.6 | 23892.5 | 23955.4 | 15888.5 |
| 50° | 19215.8 | 19518.0 | 21017.1 | 24045.1 | 26860.8 | 29033.1 | 28560.3 | 28306.0 | 25442.5 | 24883.0 | 16163.7 |
| 52.5° | 16103.9 | 16379.2 | 17396.5 | 21160.7 | 25421.5 | 29718.3 | 31109.7 | 30807.5 | 26833.9 | 25206.1 | 16050.0 |
| 55° | 11205.7 | 11573.7 | 12567.1 | 15816.7 | 22106.2 | 28383.8 | 31953.5 | 31890.6 | 28075.6 | 25002.6 | 15873.5 |
| 57.5° | 5493.6 | 5858.7 | 6849.1 | 9751.5 | 16376.2 | 24781.2 | 30663.8 | 30996.0 | 28817.7 | 24784.2 | 15729.9 |
| 60° | 2295.0 | 2444.6 | 2785.7 | 4278.8 | 9162.1 | 18728.0 | 27752.5 | 28213.3 | 28362.9 | 24488.0 | 15714.9 |
| 62.5° | 1331.5 | 1355.5 | 1391.4 | 1774.4 | 3563.7 | 10735.9 | 23021.8 | 23677.1 | 25972.1 | 24096.0 | 15478.5 |
| 65° | 1005.4 | 1014.3 | 999.4 | 1089.2 | 1472.2 | 4072.4 | 16633.5 | 17525.2 | 21678.3 | 22564.0 | 14545.0 |
| 67.5° | 825.8 | 825.8 | 786.9 | 804.9 | 924.6 | 1526.0 | 9183.0 | 10427.7 | 16041.1 | 18545.5 | 12010.6 |
| 70° | 658.3 | 673.2 | 655.3 | 631.3 | 661.3 | 843.8 | 3267.5 | 4051.4 | 9341.6 | 10951.4 | 7004.7 |
| 72.5° | 499.7 | 499.7 | 529.6 | 511.7 | 490.7 | 529.6 | 1140.0 | 1280.7 | 3749.2 | 4566.1 | 2528.4 |
| 75° | 386.0 | 398.0 | 418.9 | 401.0 | 371.0 | 314.2 | 547.6 | 580.5 | 1131.0 | 1062.2 | 565.5 |
| 77.5° | 197.5 | 200.5 | 266.3 | 293.2 | 275.3 | 191.5 | 239.4 | 263.3 | 368.0 | 329.1 | 209.5 |
| 80° | 119.7 | 125.7 | 149.6 | 230.4 | 182.5 | 101.7 | 98.7 | 104.7 | 173.5 | 149.6 | 86.8 |
| 82.5° | 50.9 | 53.9 | 83.8 | 83.8 | 74.8 | 38.9 | 38.9 | 38.9 | 83.8 | 77.8 | 35.9 |
| 85° | 0.0 | 0.0 | 15.0 | 12.0 | 12.0 | 15.0 | 15.0 | 15.0 | 20.9 | 29.9 | 18.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 9.0 | 9.0 |
| 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° | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 | 9042.4 |
| 2.5° | 9042.4 | 8850.9 | 8593.5 | 8360.1 | 8046.0 | 7869.4 | 7624.1 | 7423.6 | 7253.0 | 7199.2 | 7175.2 |
| 5° | 9045.4 | 8716.2 | 8165.7 | 7615.1 | 6938.9 | 6406.3 | 5858.7 | 5424.8 | 5068.8 | 4955.0 | 4925.1 |
| 7.5° | 9105.2 | 8620.5 | 7728.8 | 6729.4 | 5598.4 | 4664.8 | 3830.0 | 3081.9 | 2734.9 | 2618.2 | 2594.2 |
| 10° | 9186.0 | 8539.7 | 7223.1 | 5667.2 | 4042.4 | 2842.6 | 2013.7 | 1535.0 | 1307.6 | 1181.9 | 1199.9 |
| 12.5° | 9290.7 | 8473.8 | 6663.6 | 4518.2 | 2675.0 | 1561.9 | 1107.1 | 927.6 | 879.7 | 855.8 | 843.8 |
| 15° | 9431.3 | 8396.1 | 5969.4 | 3378.2 | 1639.7 | 1005.4 | 852.8 | 804.9 | 786.9 | 775.0 | 772.0 |
| 17.5° | 9575.0 | 8306.3 | 5263.2 | 2375.8 | 1089.2 | 834.8 | 766.0 | 742.1 | 730.1 | 721.1 | 718.1 |
| 20° | 9727.6 | 8153.7 | 4434.4 | 1636.7 | 858.8 | 751.0 | 706.2 | 679.2 | 664.3 | 649.3 | 646.3 |
| 22.5° | 9793.4 | 7908.3 | 3641.5 | 1146.0 | 763.0 | 691.2 | 634.3 | 601.4 | 583.5 | 571.5 | 571.5 |
| 25° | 9730.6 | 7510.4 | 2821.6 | 870.7 | 694.2 | 625.4 | 568.5 | 532.6 | 517.6 | 505.7 | 505.7 |
| 27.5° | 9563.0 | 6998.7 | 2058.6 | 721.1 | 619.4 | 556.5 | 502.7 | 469.8 | 457.8 | 451.8 | 451.8 |
| 30° | 9377.5 | 6352.4 | 1451.2 | 619.4 | 535.6 | 484.7 | 439.9 | 418.9 | 415.9 | 409.9 | 409.9 |
| 32.5° | 9218.9 | 5748.0 | 999.4 | 544.6 | 472.8 | 421.9 | 392.0 | 383.0 | 386.0 | 380.0 | 383.0 |
| 35° | 9132.1 | 5155.5 | 742.1 | 484.7 | 421.9 | 374.0 | 359.1 | 359.1 | 359.1 | 356.1 | 356.1 |
| 37.5° | 9168.0 | 4572.0 | 604.4 | 442.8 | 377.0 | 341.1 | 326.1 | 332.1 | 338.1 | 338.1 | 338.1 |
| 40° | 9347.6 | 4054.4 | 535.6 | 403.9 | 338.1 | 311.2 | 299.2 | 308.2 | 317.2 | 323.2 | 323.2 |
| 42.5° | 9575.0 | 3635.5 | 484.7 | 371.0 | 311.2 | 281.3 | 275.3 | 284.3 | 293.2 | 299.2 | 299.2 |
| 45° | 9718.6 | 3213.6 | 433.9 | 329.1 | 284.3 | 248.4 | 248.4 | 260.3 | 257.3 | 260.3 | 260.3 |
| 47.5° | 9784.4 | 2878.5 | 383.0 | 284.3 | 242.4 | 215.4 | 218.4 | 224.4 | 218.4 | 224.4 | 224.4 |
| 50° | 9622.8 | 2540.4 | 338.1 | 236.4 | 200.5 | 188.5 | 194.5 | 191.5 | 191.5 | 203.5 | 203.5 |
| 52.5° | 9326.6 | 2289.0 | 299.2 | 200.5 | 170.6 | 167.6 | 173.5 | 161.6 | 164.6 | 164.6 | 161.6 |
| 55° | 9108.2 | 2145.4 | 266.3 | 173.5 | 146.6 | 149.6 | 146.6 | 125.7 | 113.7 | 101.7 | 98.7 |
| 57.5° | 9000.5 | 2088.5 | 242.4 | 155.6 | 131.7 | 131.7 | 119.7 | 86.8 | 65.8 | 50.9 | 44.9 |
| 60° | 8976.5 | 2019.7 | 218.4 | 134.6 | 116.7 | 110.7 | 86.8 | 50.9 | 32.9 | 23.9 | 20.9 |
| 62.5° | 8749.1 | 1852.2 | 197.5 | 107.7 | 101.7 | 89.8 | 53.9 | 29.9 | 18.0 | 12.0 | 9.0 |
| 65° | 8004.1 | 1523.0 | 176.5 | 83.8 | 77.8 | 65.8 | 32.9 | 18.0 | 9.0 | 3.0 | 0.0 |
| 67.5° | 6367.4 | 1080.2 | 155.6 | 62.8 | 53.9 | 41.9 | 20.9 | 12.0 | 3.0 | 0.0 | 0.0 |
| 70° | 3671.4 | 583.5 | 128.7 | 44.9 | 35.9 | 26.9 | 15.0 | 6.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1226.8 | 272.3 | 98.7 | 29.9 | 26.9 | 20.9 | 9.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| 75° | 269.3 | 161.6 | 65.8 | 20.9 | 18.0 | 15.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 101.7 | 113.7 | 32.9 | 15.0 | 12.0 | 9.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 38.9 | 74.8 | 15.0 | 9.0 | 9.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.9 | 29.9 | 9.0 | 6.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 12.0 | 15.0 | 6.0 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.0 | 3.0 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)