

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: P638221

Luminaire Tested: GWS-SA4E-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18638.5 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

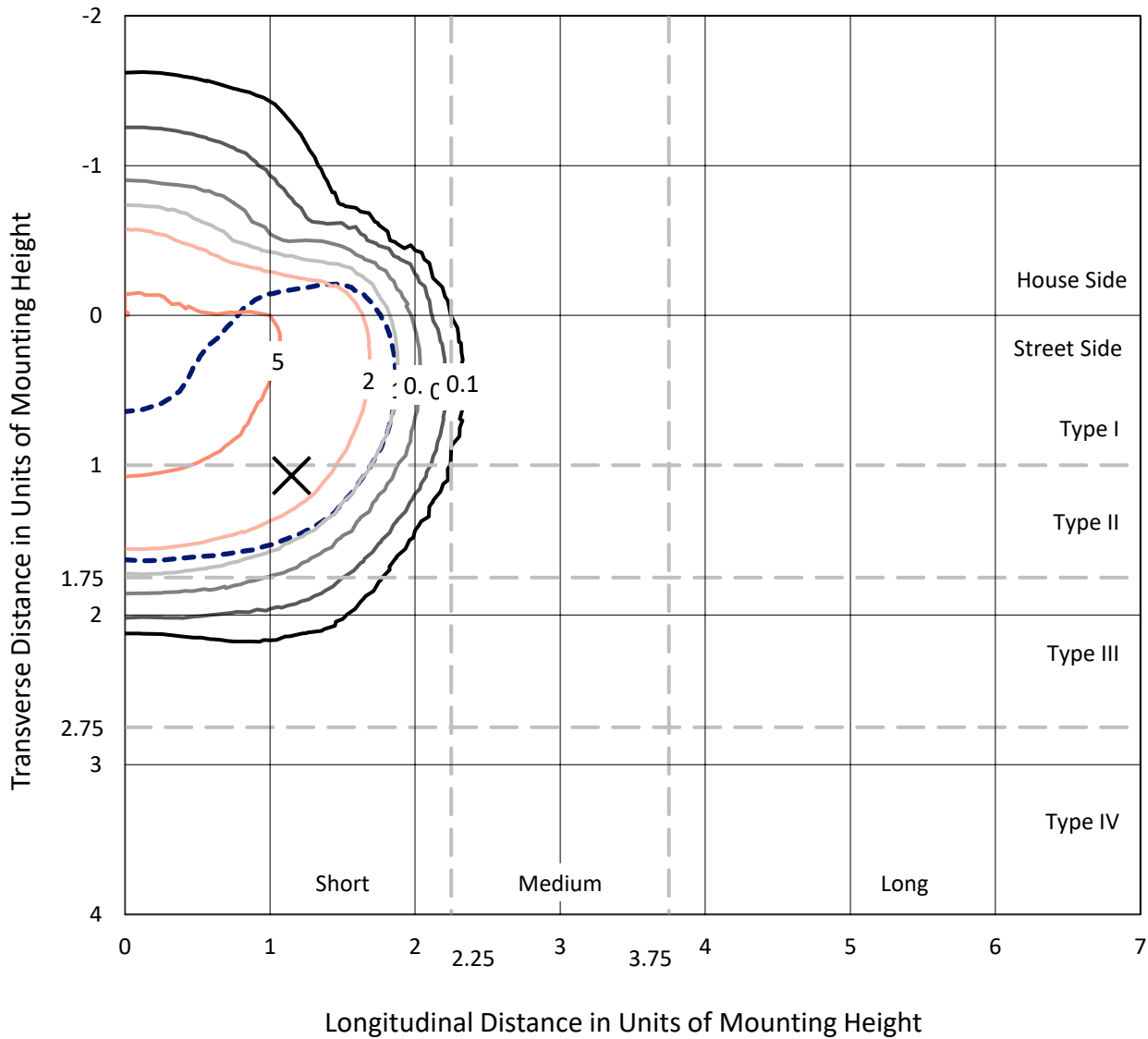
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

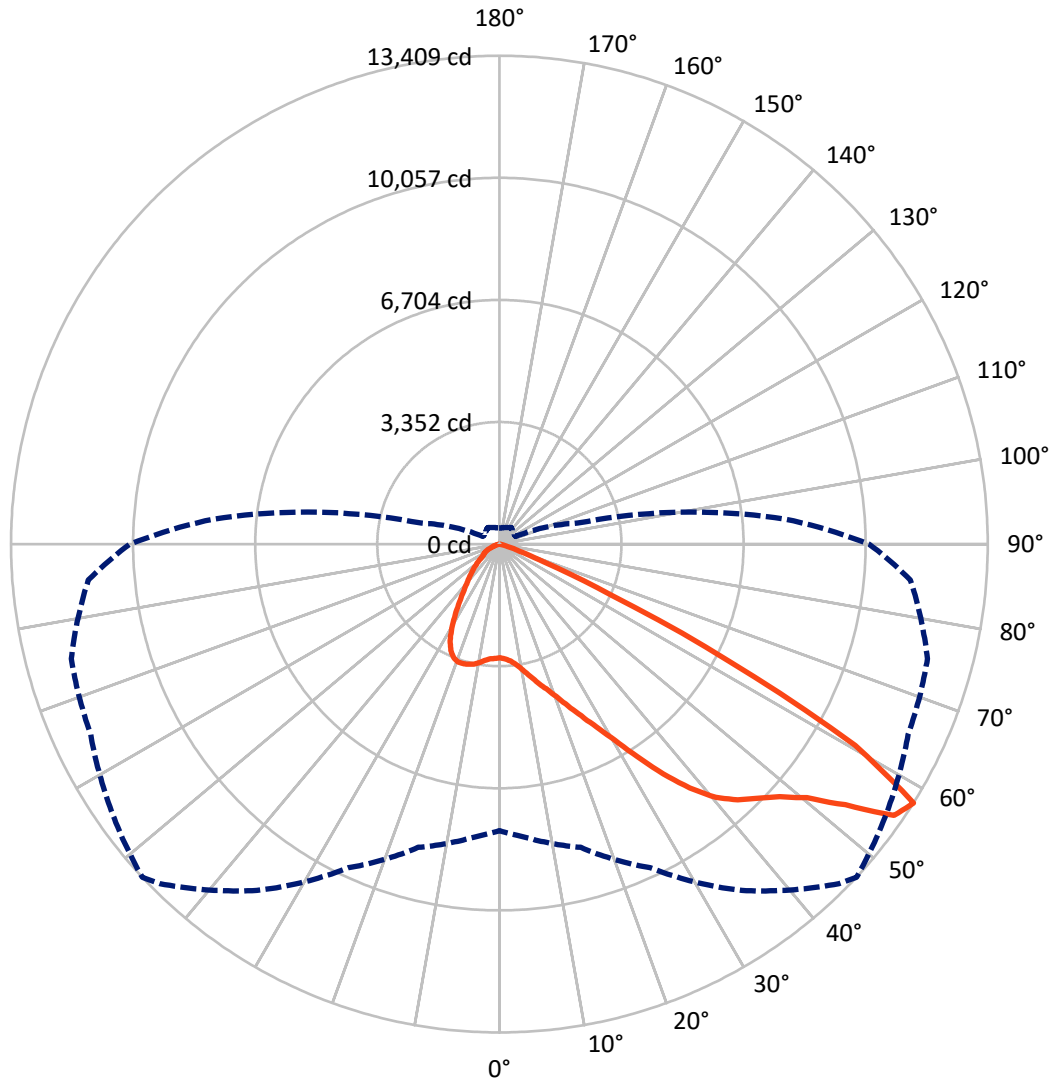
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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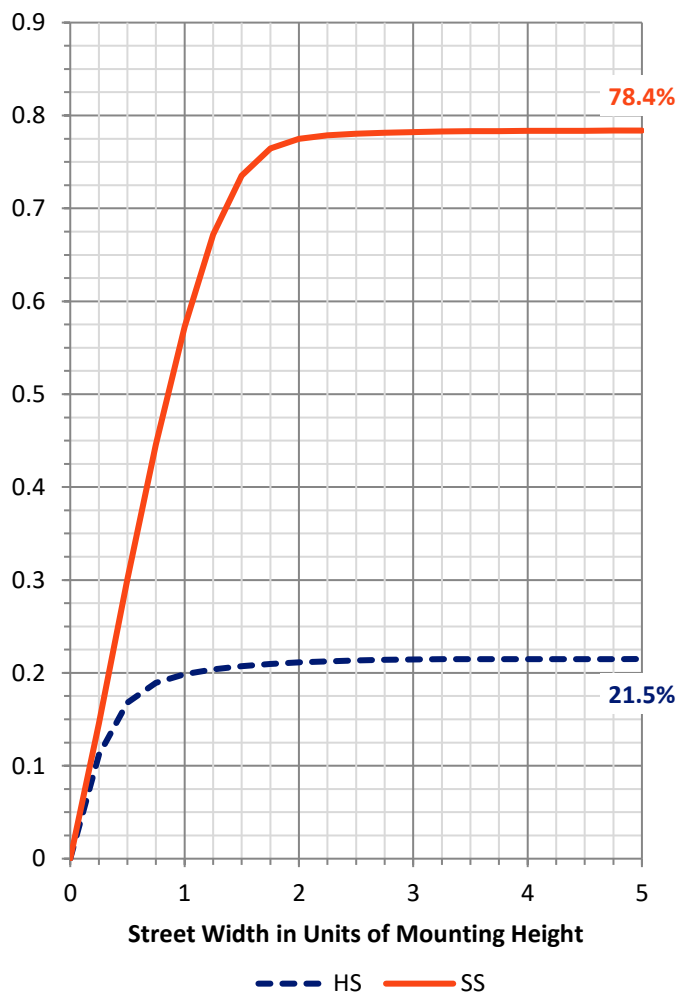
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4043.6 | 0.0 | 4043.6 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 14594.9 | 0.0 | 14594.9 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 18638.5 | 0.0 | 18638.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 310.4 | 1.7 |
| 10°-20° | 1047.4 | 5.6 |
| 20°-30° | 1944.8 | 10.4 |
| 30°-40° | 3113.3 | 16.7 |
| 40°-50° | 4550.8 | 24.4 |
| 50°-60° | 5616.6 | 30.1 |
| 60°-70° | 1876.7 | 10.1 |
| 70°-80° | 174.9 | 0.9 |
| 80°-90° | 3.6 | 0.0 |
| 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° | 18638.5 | 100.0 |
| 0°-180° | 18638.5 | 100.0 |

Coefficient of Utilization



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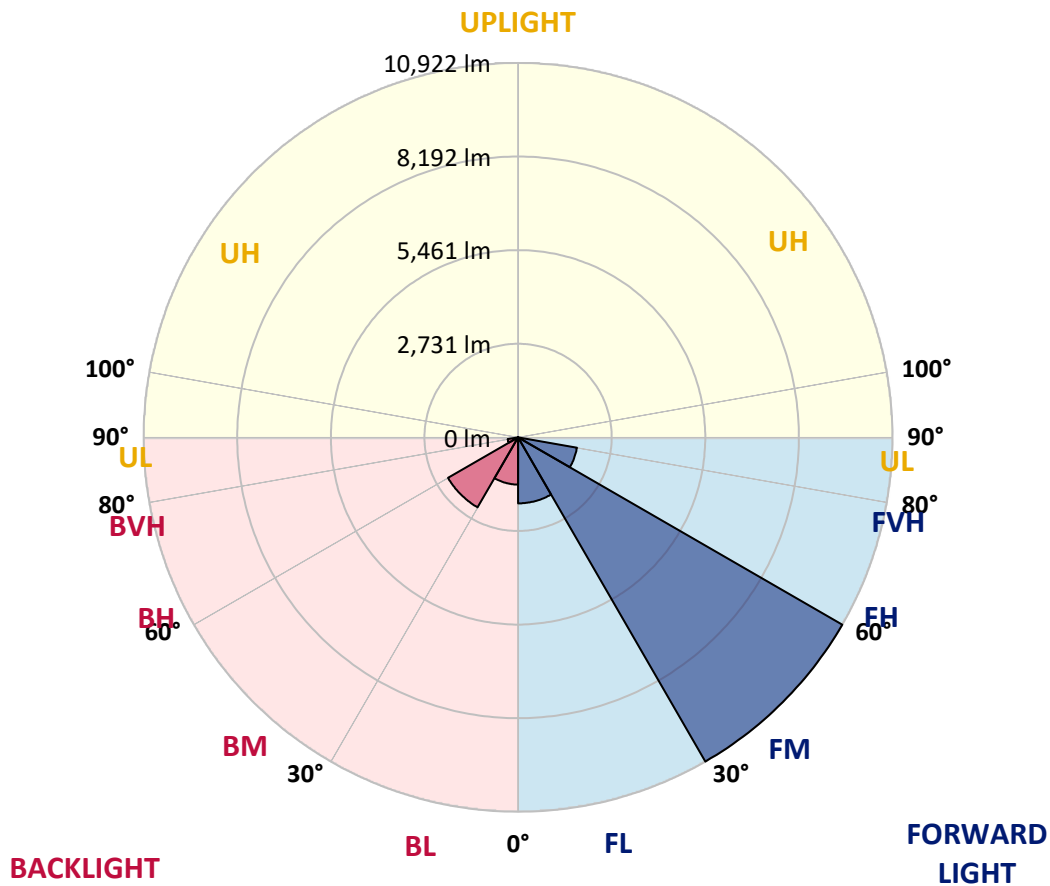
CATALOG NUMBER: GWS-SA4E-735-U-T3-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1926.2 | 10.3 | | | |
| FM (30°-60°) | 10922.0 | 58.6 | | | |
| FH (60°-80°) | 1744.2 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 2.5 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1376.4 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2358.6 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 307.4 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 |
| 2.5° | 3152.6 | 3150.4 | 3148.2 | 3161.2 | 3156.9 | 3154.7 | 3159.1 | 3159.1 | 3159.1 | 3146.1 | 3120.1 |
| 5° | 3228.3 | 3228.3 | 3226.1 | 3239.1 | 3228.3 | 3221.8 | 3224.0 | 3224.0 | 3215.3 | 3191.5 | 3159.1 |
| 7.5° | 3347.3 | 3343.0 | 3338.6 | 3351.6 | 3340.8 | 3338.6 | 3343.0 | 3330.0 | 3314.8 | 3275.9 | 3230.5 |
| 10° | 3518.2 | 3518.2 | 3511.7 | 3524.7 | 3516.1 | 3511.7 | 3511.7 | 3503.1 | 3475.0 | 3414.4 | 3347.3 |
| 12.5° | 3754.1 | 3743.3 | 3728.1 | 3717.3 | 3713.0 | 3710.8 | 3713.0 | 3700.0 | 3669.7 | 3591.8 | 3498.8 |
| 15° | 4011.6 | 4002.9 | 3979.1 | 3961.8 | 3938.0 | 3933.7 | 3946.7 | 3935.8 | 3905.5 | 3799.5 | 3667.5 |
| 17.5° | 4336.1 | 4346.9 | 4286.4 | 4249.6 | 4180.3 | 4176.0 | 4180.3 | 4197.6 | 4176.0 | 4039.7 | 3847.1 |
| 20° | 4613.1 | 4621.7 | 4576.3 | 4550.3 | 4487.6 | 4459.5 | 4468.1 | 4496.2 | 4472.4 | 4312.3 | 4044.0 |
| 22.5° | 4909.5 | 4920.3 | 4872.7 | 4818.6 | 4790.5 | 4790.5 | 4823.0 | 4861.9 | 4829.5 | 4619.6 | 4269.0 |
| 25° | 5264.4 | 5273.0 | 5234.1 | 5162.7 | 5112.9 | 5175.7 | 5223.3 | 5327.1 | 5273.0 | 4987.4 | 4535.2 |
| 27.5° | 5671.1 | 5673.3 | 5617.1 | 5543.5 | 5517.5 | 5634.4 | 5682.0 | 5842.1 | 5820.4 | 5400.7 | 4816.5 |
| 30° | 6106.1 | 6108.2 | 6095.2 | 6045.5 | 6021.7 | 6175.3 | 6240.2 | 6471.7 | 6456.6 | 5913.5 | 5199.5 |
| 32.5° | 6558.3 | 6558.3 | 6582.1 | 6577.8 | 6605.9 | 6856.9 | 6960.7 | 7224.7 | 7209.6 | 6541.0 | 5675.5 |
| 35° | 7012.7 | 7014.8 | 7055.9 | 7159.8 | 7276.6 | 7609.9 | 7746.2 | 8066.4 | 8031.8 | 7291.8 | 6283.5 |
| 37.5° | 7529.8 | 7508.2 | 7564.4 | 7720.2 | 7979.9 | 8365.0 | 8494.8 | 8799.9 | 8761.0 | 8059.9 | 7077.6 |
| 40° | 8153.0 | 8114.0 | 8114.0 | 8295.8 | 8590.0 | 9033.6 | 9143.9 | 9295.4 | 9163.4 | 8680.9 | 7856.5 |
| 42.5° | 8841.0 | 8804.2 | 8756.6 | 8916.7 | 9163.4 | 9509.6 | 9600.5 | 9559.4 | 9451.2 | 9267.3 | 8743.7 |
| 45° | 9537.7 | 9481.5 | 9513.9 | 9611.3 | 9754.1 | 9918.6 | 9953.2 | 9762.8 | 9713.0 | 9764.9 | 9477.2 |
| 47.5° | 10067.9 | 10028.9 | 10109.0 | 10245.3 | 10362.1 | 10385.9 | 10362.1 | 10098.1 | 10093.8 | 10277.7 | 9985.6 |
| 50° | 10245.3 | 10249.6 | 10470.3 | 10768.9 | 10957.2 | 10976.6 | 10944.2 | 10641.2 | 10600.1 | 10654.2 | 10260.4 |
| 52.5° | 10262.6 | 10279.9 | 10602.3 | 11171.4 | 11684.2 | 11917.8 | 11891.9 | 11565.2 | 11162.7 | 11104.3 | 10675.9 |
| 55° | 9845.0 | 9946.7 | 10396.7 | 11227.6 | 12318.1 | 13064.6 | 13151.2 | 12525.9 | 11928.7 | 11878.9 | 11569.5 |
| 57.5° | 7869.5 | 8077.2 | 8620.3 | 9803.9 | 11610.6 | 13183.6 | 13408.7 | 12958.6 | 12380.9 | 12168.8 | 11329.3 |
| 60° | 4704.0 | 4961.4 | 5482.9 | 6934.8 | 8836.7 | 10836.0 | 11223.3 | 11286.0 | 11019.9 | 10407.6 | 8691.7 |
| 62.5° | 2018.8 | 1997.1 | 2639.8 | 3751.9 | 5255.7 | 6887.2 | 7062.4 | 7335.1 | 7566.6 | 6926.1 | 5275.2 |
| 65° | 692.4 | 753.0 | 1047.2 | 1692.0 | 2631.1 | 3198.0 | 3353.8 | 3598.3 | 3927.2 | 3241.3 | 1932.2 |
| 67.5° | 428.4 | 454.4 | 603.7 | 999.6 | 1419.4 | 1397.8 | 1328.5 | 1289.6 | 1255.0 | 859.0 | 530.1 |
| 70° | 311.6 | 333.2 | 424.1 | 688.1 | 954.2 | 670.8 | 582.0 | 471.7 | 523.6 | 482.5 | 376.5 |
| 72.5° | 209.9 | 227.2 | 292.1 | 417.6 | 489.0 | 326.7 | 302.9 | 344.0 | 415.4 | 396.0 | 307.3 |
| 75° | 125.5 | 136.3 | 166.6 | 203.4 | 199.1 | 168.8 | 170.9 | 242.3 | 318.1 | 296.4 | 218.5 |
| 77.5° | 86.5 | 90.9 | 110.4 | 132.0 | 97.4 | 51.9 | 47.6 | 67.1 | 108.2 | 108.2 | 73.6 |
| 80° | 21.6 | 28.1 | 28.1 | 17.3 | 15.1 | 13.0 | 13.0 | 19.5 | 30.3 | 21.6 | 10.8 |
| 82.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 4.3 | 4.3 | 4.3 | 4.3 |
| 85° | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 4.3 | 4.3 | 4.3 |
| 87.5° | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 4.3 | 4.3 |
| 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° | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 | 3120.1 |
| 2.5° | 3135.3 | 3109.3 | 3126.6 | 3122.3 | 3135.3 | 3139.6 | 3120.1 | 3115.8 | 3117.9 | 3092.0 | 3083.3 |
| 5° | 3165.5 | 3135.3 | 3143.9 | 3135.3 | 3150.4 | 3163.4 | 3156.9 | 3165.5 | 3176.4 | 3156.9 | 3148.2 |
| 7.5° | 3230.5 | 3200.2 | 3198.0 | 3185.0 | 3206.7 | 3215.3 | 3213.1 | 3236.9 | 3258.6 | 3245.6 | 3232.6 |
| 10° | 3343.0 | 3301.9 | 3297.5 | 3286.7 | 3293.2 | 3299.7 | 3275.9 | 3280.2 | 3299.7 | 3284.5 | 3278.1 |
| 12.5° | 3481.4 | 3431.7 | 3420.9 | 3394.9 | 3394.9 | 3362.4 | 3310.5 | 3299.7 | 3314.8 | 3304.0 | 3293.2 |
| 15° | 3630.7 | 3563.7 | 3546.4 | 3500.9 | 3457.6 | 3397.1 | 3343.0 | 3330.0 | 3340.8 | 3327.8 | 3319.2 |
| 17.5° | 3797.4 | 3721.6 | 3665.4 | 3585.3 | 3490.1 | 3418.7 | 3358.1 | 3330.0 | 3312.7 | 3286.7 | 3284.5 |
| 20° | 3961.8 | 3862.3 | 3767.1 | 3639.4 | 3513.9 | 3405.7 | 3306.2 | 3232.6 | 3169.9 | 3130.9 | 3115.8 |
| 22.5° | 4152.2 | 4005.1 | 3851.4 | 3671.9 | 3492.3 | 3327.8 | 3152.6 | 3027.1 | 2918.9 | 2882.1 | 2864.8 |
| 25° | 4355.6 | 4165.2 | 3935.8 | 3702.1 | 3418.7 | 3154.7 | 2916.7 | 2730.6 | 2587.8 | 2540.2 | 2520.8 |
| 27.5° | 4580.6 | 4318.8 | 4022.4 | 3695.7 | 3267.2 | 2908.1 | 2592.2 | 2360.6 | 2220.0 | 2176.7 | 2191.9 |
| 30° | 4866.2 | 4517.9 | 4130.6 | 3628.6 | 3040.0 | 2561.9 | 2191.9 | 1997.1 | 1891.1 | 1850.0 | 1852.2 |
| 32.5° | 5247.1 | 4803.5 | 4288.5 | 3485.8 | 2747.9 | 2168.1 | 1843.5 | 1700.7 | 1629.3 | 1575.2 | 1570.9 |
| 35° | 5792.3 | 5238.4 | 4435.7 | 3256.4 | 2393.1 | 1817.5 | 1581.7 | 1469.2 | 1369.6 | 1306.9 | 1317.7 |
| 37.5° | 6445.8 | 5785.8 | 4515.7 | 2947.0 | 1995.0 | 1544.9 | 1384.8 | 1270.1 | 1157.6 | 1064.6 | 1075.4 |
| 40° | 7220.4 | 6502.0 | 4509.2 | 2540.2 | 1631.5 | 1358.8 | 1220.3 | 1086.2 | 945.6 | 861.2 | 869.8 |
| 42.5° | 8083.7 | 7179.3 | 4368.6 | 2109.6 | 1352.3 | 1207.4 | 1062.4 | 893.6 | 757.3 | 705.4 | 707.5 |
| 45° | 8832.4 | 7728.9 | 4121.9 | 1663.9 | 1138.1 | 1060.2 | 897.9 | 724.9 | 664.3 | 627.5 | 625.3 |
| 47.5° | 9386.3 | 8131.3 | 3769.2 | 1309.1 | 965.0 | 926.1 | 737.8 | 649.1 | 601.5 | 571.2 | 566.9 |
| 50° | 9695.7 | 8272.0 | 3379.8 | 1025.6 | 815.7 | 785.4 | 659.9 | 588.5 | 556.1 | 536.6 | 532.3 |
| 52.5° | 10111.1 | 8440.7 | 3100.6 | 809.2 | 683.7 | 642.6 | 608.0 | 547.4 | 525.8 | 510.6 | 504.2 |
| 55° | 10768.9 | 8767.5 | 2858.3 | 642.6 | 569.1 | 560.4 | 573.4 | 523.6 | 510.6 | 486.8 | 478.2 |
| 57.5° | 10150.1 | 7876.0 | 2220.0 | 497.7 | 480.3 | 512.8 | 553.9 | 499.8 | 467.4 | 445.7 | 437.1 |
| 60° | 7142.5 | 5236.2 | 1116.5 | 400.3 | 428.4 | 480.3 | 521.5 | 452.2 | 419.8 | 424.1 | 419.8 |
| 62.5° | 3938.0 | 2620.3 | 502.0 | 335.4 | 372.2 | 424.1 | 445.7 | 391.6 | 370.0 | 406.8 | 413.3 |
| 65° | 1287.4 | 891.5 | 289.9 | 259.6 | 294.3 | 346.2 | 385.1 | 372.2 | 367.8 | 411.1 | 424.1 |
| 67.5° | 396.0 | 294.3 | 196.9 | 186.1 | 203.4 | 255.3 | 324.6 | 402.5 | 432.7 | 445.7 | 452.2 |
| 70° | 296.4 | 231.5 | 168.8 | 158.0 | 166.6 | 194.7 | 274.8 | 335.4 | 315.9 | 318.1 | 313.7 |
| 72.5° | 238.0 | 183.9 | 145.0 | 138.5 | 138.5 | 134.2 | 145.0 | 181.8 | 205.6 | 216.4 | 216.4 |
| 75° | 166.6 | 129.8 | 110.4 | 101.7 | 80.1 | 64.9 | 58.4 | 58.4 | 51.9 | 49.8 | 47.6 |
| 77.5° | 56.3 | 47.6 | 43.3 | 34.6 | 23.8 | 19.5 | 17.3 | 15.1 | 10.8 | 6.5 | 4.3 |
| 80° | 8.7 | 6.5 | 4.3 | 4.3 | 4.3 | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.3 | 4.3 | 4.3 | 4.3 | 2.2 | 2.2 | 2.2 | 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)