

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: P642733

Luminaire Tested: GWS-SA6D-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-740-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26298.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

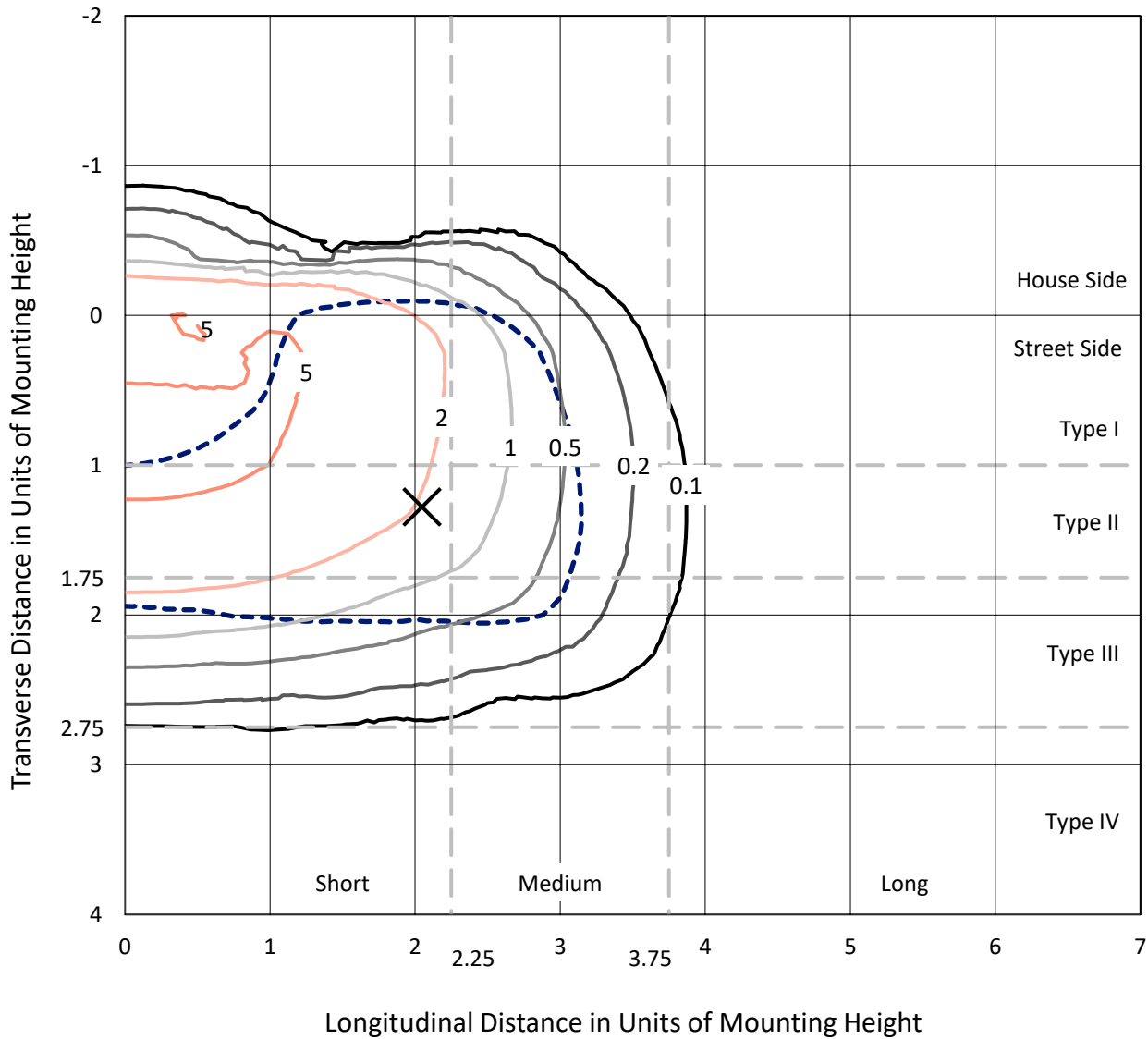
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

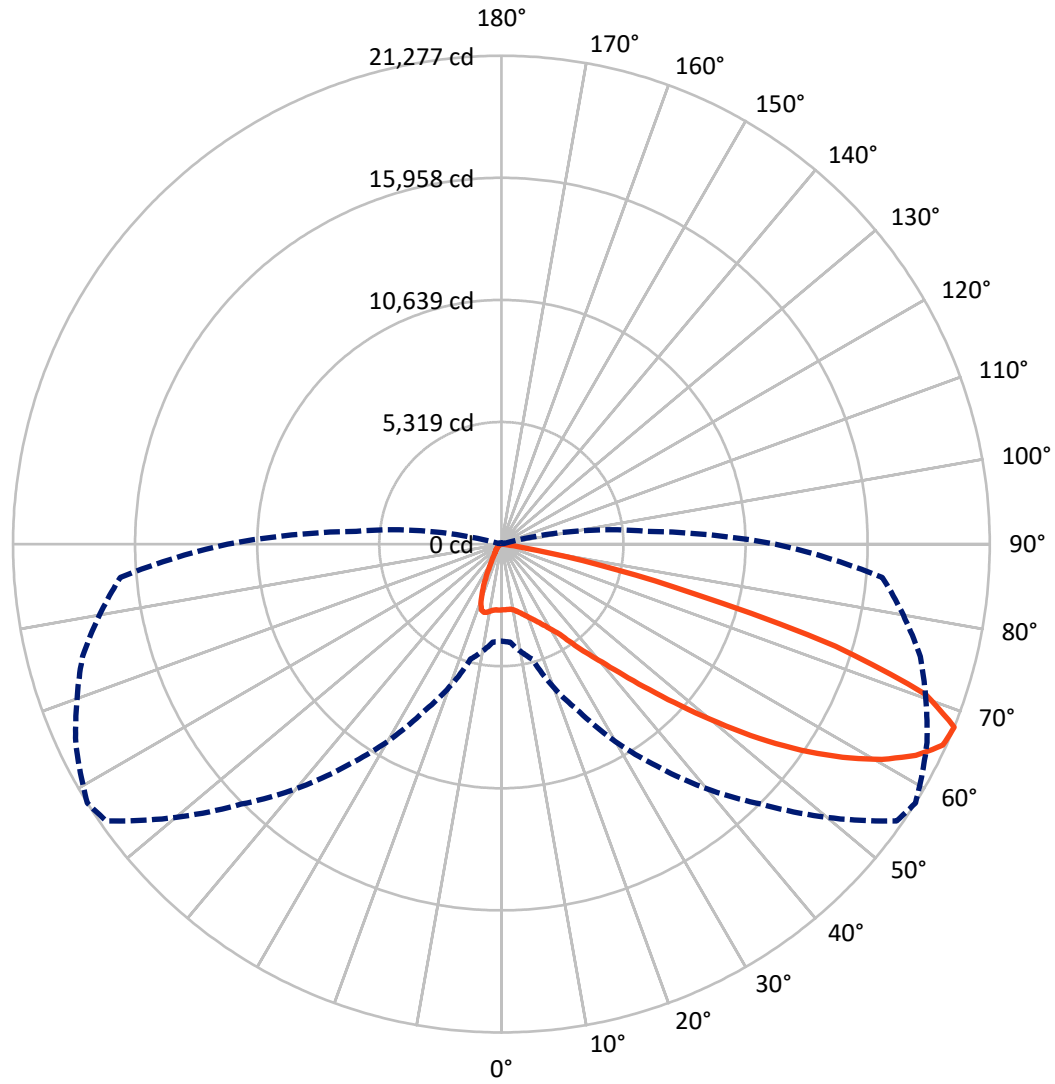
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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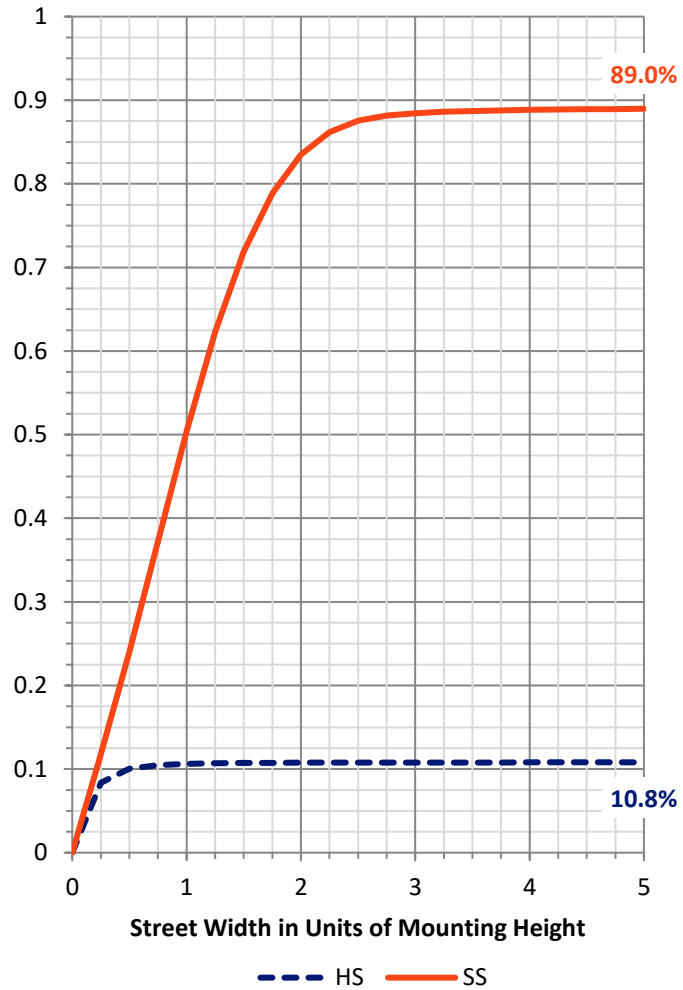
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2869.1 | 0.0 | 2869.1 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 23429.3 | 0.0 | 23429.3 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 26298.4 | 0.0 | 26298.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.2 | 1.0 |
| 10°-20° | 755.8 | 2.9 |
| 20°-30° | 1319.3 | 5.0 |
| 30°-40° | 2356.2 | 9.0 |
| 40°-50° | 4306.6 | 16.4 |
| 50°-60° | 7162.4 | 27.2 |
| 60°-70° | 7779.6 | 29.6 |
| 70°-80° | 2284.2 | 8.7 |
| 80°-90° | 65.0 | 0.2 |
| 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° | 26298.4 | 100.0 |
| 0°-180° | 26298.4 | 100.0 |

Coefficient of Utilization



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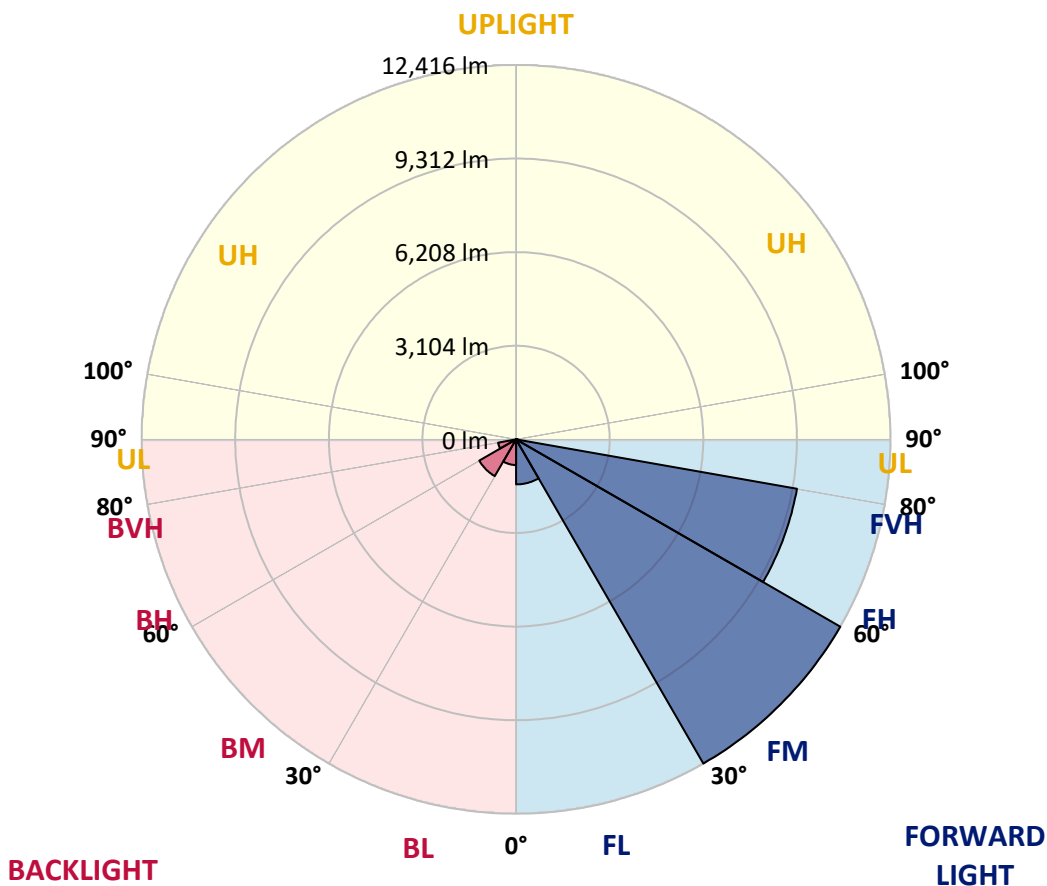
CATALOG NUMBER: GWS-SA6D-740-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1493.3 | 5.7 | | | |
| FM (30°-60°) | 12416.0 | 47.2 | | | |
| FH (60°-80°) | 9458.1 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 61.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 851.0 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1409.2 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 605.6 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 |
| 2.5° | 2811.8 | 2806.7 | 2806.7 | 2827.2 | 2829.8 | 2840.1 | 2863.2 | 2865.7 | 2878.6 | 2873.4 | 2855.5 |
| 5° | 2665.4 | 2668.0 | 2683.4 | 2719.4 | 2750.2 | 2788.7 | 2845.2 | 2858.0 | 2886.3 | 2901.7 | 2891.4 |
| 7.5° | 2529.3 | 2531.9 | 2555.0 | 2611.5 | 2670.6 | 2747.6 | 2840.1 | 2865.7 | 2922.2 | 2963.3 | 2965.9 |
| 10° | 2478.0 | 2475.4 | 2498.5 | 2562.7 | 2639.8 | 2747.6 | 2881.1 | 2914.5 | 2999.3 | 3071.2 | 3084.0 |
| 12.5° | 2493.4 | 2490.8 | 2513.9 | 2573.0 | 2657.7 | 2793.8 | 2953.0 | 2999.3 | 3107.1 | 3217.5 | 3240.6 |
| 15° | 2555.0 | 2552.5 | 2567.9 | 2616.7 | 2709.1 | 2850.3 | 3045.5 | 3114.8 | 3250.9 | 3384.4 | 3420.4 |
| 17.5° | 2739.9 | 2727.1 | 2711.7 | 2716.8 | 2770.7 | 2917.1 | 3163.6 | 3248.4 | 3417.8 | 3577.0 | 3607.9 |
| 20° | 3068.6 | 3035.2 | 2994.1 | 2940.2 | 2914.5 | 3014.7 | 3299.7 | 3397.3 | 3602.7 | 3785.0 | 3790.2 |
| 22.5° | 3564.2 | 3551.4 | 3456.3 | 3299.7 | 3189.3 | 3191.9 | 3458.9 | 3571.9 | 3823.6 | 4023.8 | 3995.6 |
| 25° | 4255.0 | 4247.3 | 4100.9 | 3844.1 | 3556.5 | 3458.9 | 3661.8 | 3777.3 | 4085.5 | 4298.6 | 4208.7 |
| 27.5° | 5112.6 | 5058.7 | 4886.7 | 4540.0 | 4111.2 | 3805.6 | 3918.6 | 4021.3 | 4362.8 | 4563.1 | 4393.6 |
| 30° | 5859.9 | 5862.4 | 5700.7 | 5338.6 | 4855.8 | 4326.9 | 4231.8 | 4321.7 | 4617.0 | 4827.6 | 4622.2 |
| 32.5° | 6578.9 | 6602.0 | 6424.8 | 6098.7 | 5569.7 | 5007.3 | 4681.2 | 4696.6 | 4943.1 | 5171.7 | 4922.6 |
| 35° | 7246.5 | 7264.5 | 7141.2 | 6863.9 | 6370.9 | 5718.6 | 5307.8 | 5300.1 | 5433.6 | 5667.3 | 5341.2 |
| 37.5° | 7993.8 | 8011.7 | 7891.1 | 7642.0 | 7179.8 | 6532.7 | 6019.1 | 6008.8 | 6062.7 | 6252.8 | 5880.4 |
| 40° | 8789.8 | 8823.2 | 8689.7 | 8479.1 | 8037.4 | 7490.5 | 6845.9 | 6753.5 | 6699.6 | 6923.0 | 6578.9 |
| 42.5° | 9596.1 | 9647.5 | 9601.3 | 9390.7 | 9013.2 | 8561.3 | 7919.3 | 7775.5 | 7659.9 | 7939.8 | 7575.2 |
| 45° | 10597.6 | 10659.2 | 10638.7 | 10476.9 | 10184.2 | 9817.0 | 9210.9 | 9044.0 | 8990.1 | 9249.5 | 8815.5 |
| 47.5° | 11560.5 | 11627.3 | 11701.8 | 11665.8 | 11457.8 | 11288.3 | 10615.6 | 10520.6 | 10505.1 | 10782.5 | 10109.7 |
| 50° | 12277.0 | 12338.6 | 12623.6 | 12829.1 | 12970.3 | 12934.3 | 12351.4 | 12210.2 | 12187.1 | 12364.3 | 11475.8 |
| 52.5° | 12790.5 | 12849.6 | 13242.5 | 13884.5 | 14403.2 | 14685.6 | 14097.6 | 14066.8 | 13941.0 | 13879.3 | 12754.6 |
| 55° | 13188.6 | 13270.7 | 13684.2 | 14654.8 | 15699.9 | 16326.5 | 15959.3 | 15848.9 | 15525.3 | 15171.0 | 13941.0 |
| 57.5° | 13268.2 | 13301.6 | 13884.5 | 15194.1 | 16706.5 | 17720.9 | 17720.9 | 17528.3 | 16904.3 | 16413.8 | 15312.2 |
| 60° | 12554.3 | 12657.0 | 13445.4 | 15150.4 | 17137.9 | 18632.4 | 19182.0 | 19048.4 | 18206.2 | 17602.7 | 16632.1 |
| 62.5° | 10969.9 | 11085.5 | 12045.9 | 14105.3 | 16706.5 | 18819.9 | 20288.7 | 20268.2 | 19318.1 | 18586.2 | 17726.0 |
| 65° | 8412.3 | 8497.1 | 9334.2 | 11799.4 | 14883.4 | 18098.3 | 21079.6 | 21136.1 | 20196.3 | 19235.9 | 18103.5 |
| 67.5° | 4226.7 | 4285.8 | 5189.7 | 8060.5 | 11796.8 | 16020.9 | 21025.7 | 21277.3 | 20463.3 | 18891.8 | 16662.9 |
| 70° | 1476.5 | 1535.6 | 1961.9 | 3458.9 | 7179.8 | 12233.3 | 19207.6 | 19618.5 | 18894.4 | 16126.2 | 12292.4 |
| 72.5° | 505.9 | 534.1 | 814.0 | 1283.9 | 2793.8 | 7251.7 | 14606.0 | 15224.9 | 13928.1 | 10826.1 | 7064.2 |
| 75° | 287.6 | 305.6 | 436.5 | 695.9 | 1170.9 | 2385.5 | 8286.5 | 8666.6 | 8119.6 | 5901.0 | 2906.8 |
| 77.5° | 195.2 | 210.6 | 272.2 | 395.5 | 647.1 | 767.8 | 3379.3 | 4255.0 | 3710.6 | 1925.9 | 742.1 |
| 80° | 115.6 | 125.8 | 166.9 | 233.7 | 331.3 | 297.9 | 724.1 | 963.0 | 1240.3 | 575.2 | 223.4 |
| 82.5° | 53.9 | 61.6 | 107.9 | 154.1 | 166.9 | 125.8 | 213.1 | 259.4 | 349.2 | 282.5 | 92.4 |
| 85° | 0.0 | 0.0 | 36.0 | 64.2 | 61.6 | 36.0 | 59.1 | 64.2 | 95.0 | 141.2 | 36.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 5.1 | 7.7 | 15.4 | 28.2 | 15.4 |
| 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° | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 | 2865.7 |
| 2.5° | 2876.0 | 2858.0 | 2878.6 | 2868.3 | 2878.6 | 2876.0 | 2855.5 | 2842.6 | 2842.6 | 2819.5 | 2811.8 |
| 5° | 2912.0 | 2894.0 | 2899.1 | 2876.0 | 2870.9 | 2858.0 | 2832.4 | 2822.1 | 2822.1 | 2799.0 | 2791.3 |
| 7.5° | 2991.6 | 2963.3 | 2958.2 | 2912.0 | 2891.4 | 2855.5 | 2809.2 | 2791.3 | 2788.7 | 2765.6 | 2757.9 |
| 10° | 3117.4 | 3084.0 | 3060.9 | 3001.8 | 2942.8 | 2870.9 | 2773.3 | 2691.1 | 2644.9 | 2583.3 | 2578.1 |
| 12.5° | 3271.5 | 3230.4 | 3194.4 | 3104.6 | 3007.0 | 2845.2 | 2557.6 | 2257.2 | 2072.3 | 1925.9 | 1936.2 |
| 15° | 3443.5 | 3405.0 | 3348.5 | 3212.4 | 3012.1 | 2591.0 | 1990.1 | 1527.9 | 1301.9 | 1181.2 | 1176.1 |
| 17.5° | 3631.0 | 3574.5 | 3482.0 | 3297.1 | 2850.3 | 1979.8 | 1294.2 | 914.2 | 796.0 | 755.0 | 744.7 |
| 20° | 3805.6 | 3736.2 | 3620.7 | 3315.1 | 2383.0 | 1340.4 | 808.9 | 708.7 | 688.2 | 675.3 | 675.3 |
| 22.5° | 3990.5 | 3903.2 | 3731.1 | 3176.5 | 1771.8 | 857.7 | 688.2 | 665.1 | 649.7 | 631.7 | 629.1 |
| 25° | 4177.9 | 4064.9 | 3831.3 | 2814.4 | 1160.7 | 675.3 | 644.5 | 618.9 | 590.6 | 562.4 | 554.7 |
| 27.5° | 4337.1 | 4190.8 | 3908.3 | 2275.1 | 744.7 | 608.6 | 588.0 | 544.4 | 505.9 | 475.1 | 469.9 |
| 30° | 4527.2 | 4339.7 | 3941.7 | 1664.0 | 585.5 | 536.7 | 505.9 | 459.6 | 413.4 | 382.6 | 372.3 |
| 32.5° | 4781.4 | 4575.9 | 3890.3 | 1083.6 | 518.7 | 472.5 | 423.7 | 369.8 | 323.6 | 290.2 | 285.0 |
| 35° | 5176.8 | 4932.9 | 3654.1 | 690.8 | 469.9 | 408.3 | 349.2 | 292.7 | 254.2 | 228.5 | 223.4 |
| 37.5° | 5659.6 | 5433.6 | 3266.3 | 518.7 | 421.1 | 354.4 | 285.0 | 231.1 | 202.9 | 184.9 | 179.8 |
| 40° | 6376.0 | 6060.2 | 2786.1 | 454.5 | 372.3 | 300.4 | 233.7 | 190.0 | 169.5 | 154.1 | 148.9 |
| 42.5° | 7305.6 | 6799.7 | 2234.0 | 413.4 | 326.1 | 251.7 | 190.0 | 156.6 | 138.7 | 128.4 | 125.8 |
| 45° | 8391.8 | 7521.3 | 1651.1 | 372.3 | 282.5 | 208.0 | 156.6 | 128.4 | 115.6 | 107.9 | 105.3 |
| 47.5° | 9503.7 | 8153.0 | 1140.1 | 328.7 | 241.4 | 172.0 | 131.0 | 110.4 | 100.1 | 89.9 | 87.3 |
| 50° | 10690.0 | 8687.1 | 778.1 | 285.0 | 205.4 | 141.2 | 113.0 | 100.1 | 87.3 | 79.6 | 77.0 |
| 52.5° | 11560.5 | 8884.8 | 541.8 | 246.5 | 174.6 | 120.7 | 100.1 | 89.9 | 79.6 | 69.3 | 66.8 |
| 55° | 12364.3 | 8879.7 | 410.9 | 208.0 | 148.9 | 105.3 | 89.9 | 79.6 | 69.3 | 61.6 | 59.1 |
| 57.5° | 13165.5 | 8810.4 | 323.6 | 177.2 | 128.4 | 95.0 | 79.6 | 69.3 | 64.2 | 53.9 | 51.4 |
| 60° | 13684.2 | 8548.4 | 251.7 | 148.9 | 110.4 | 82.2 | 69.3 | 61.6 | 53.9 | 46.2 | 43.7 |
| 62.5° | 13958.9 | 8183.8 | 192.6 | 118.1 | 89.9 | 71.9 | 61.6 | 53.9 | 46.2 | 38.5 | 36.0 |
| 65° | 13586.6 | 7536.7 | 151.5 | 92.4 | 69.3 | 61.6 | 51.4 | 43.7 | 36.0 | 28.2 | 25.7 |
| 67.5° | 11935.4 | 6355.5 | 118.1 | 74.5 | 53.9 | 46.2 | 43.7 | 36.0 | 25.7 | 20.5 | 18.0 |
| 70° | 8435.4 | 4352.5 | 92.4 | 56.5 | 41.1 | 36.0 | 33.4 | 28.2 | 20.5 | 15.4 | 12.8 |
| 72.5° | 4629.9 | 2195.5 | 66.8 | 41.1 | 30.8 | 28.2 | 25.7 | 23.1 | 18.0 | 12.8 | 12.8 |
| 75° | 1782.1 | 603.4 | 48.8 | 28.2 | 20.5 | 20.5 | 18.0 | 18.0 | 15.4 | 10.3 | 10.3 |
| 77.5° | 464.8 | 179.8 | 30.8 | 18.0 | 12.8 | 12.8 | 12.8 | 10.3 | 10.3 | 7.7 | 7.7 |
| 80° | 148.9 | 59.1 | 18.0 | 12.8 | 10.3 | 7.7 | 7.7 | 5.1 | 7.7 | 5.1 | 5.1 |
| 82.5° | 48.8 | 20.5 | 10.3 | 10.3 | 7.7 | 5.1 | 5.1 | 2.6 | 2.6 | 0.0 | 0.0 |
| 85° | 18.0 | 10.3 | 7.7 | 5.1 | 5.1 | 5.1 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.3 | 5.1 | 5.1 | 5.1 | 5.1 | 2.6 | 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)