

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: P639764

Luminaire Tested: GWS-SA5C-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23828.7 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

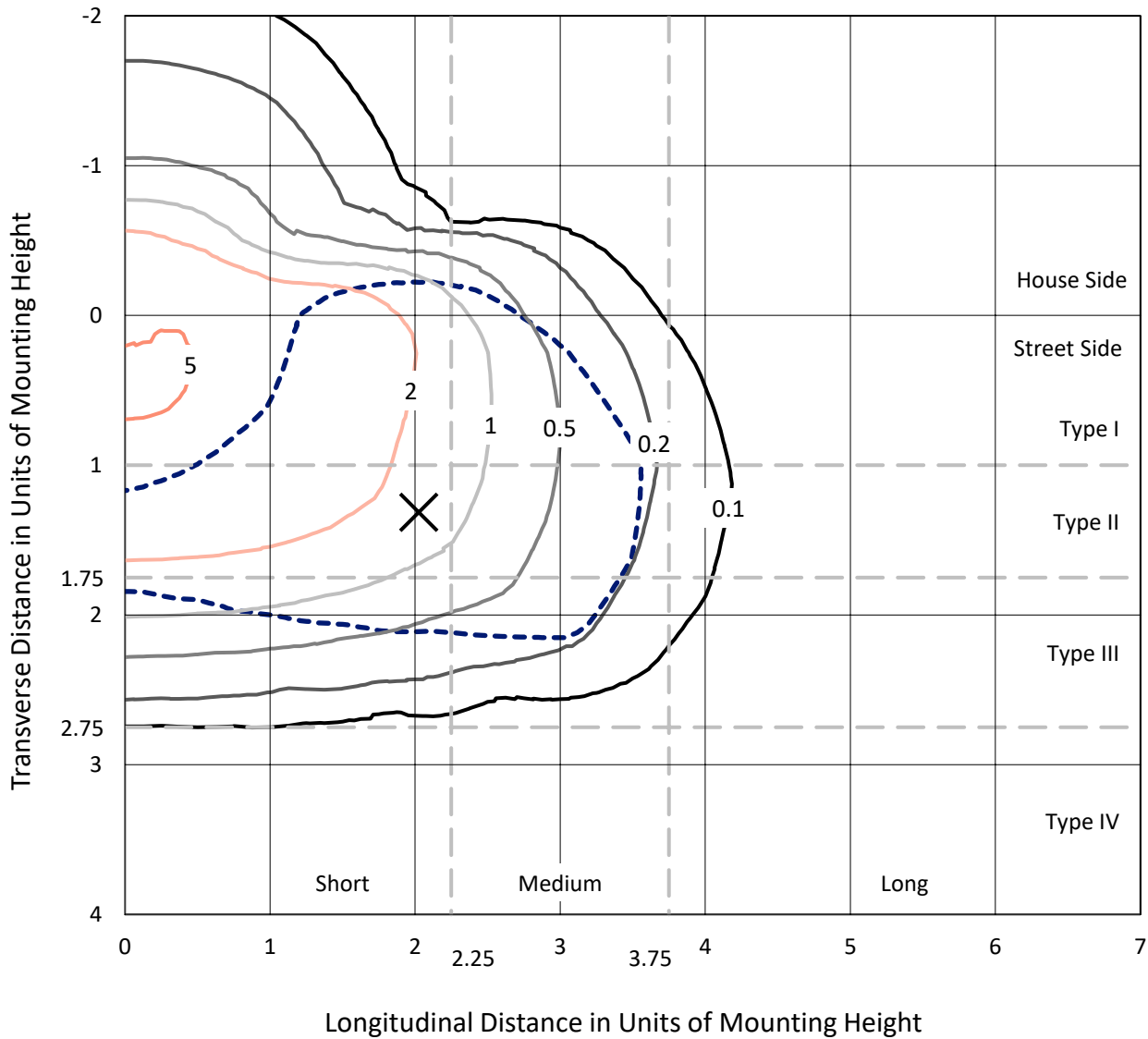
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

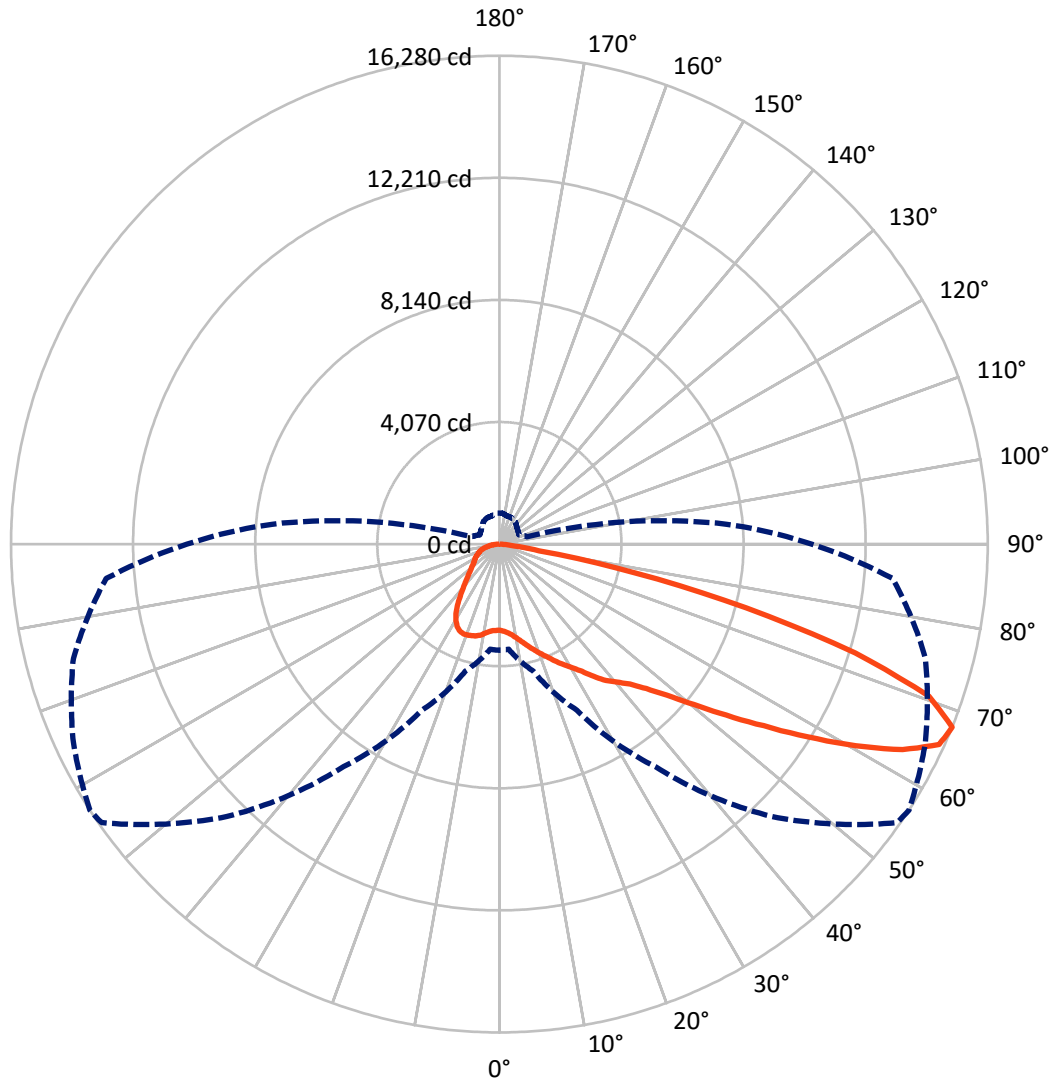
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWS-SA5C-740-U-T3-W

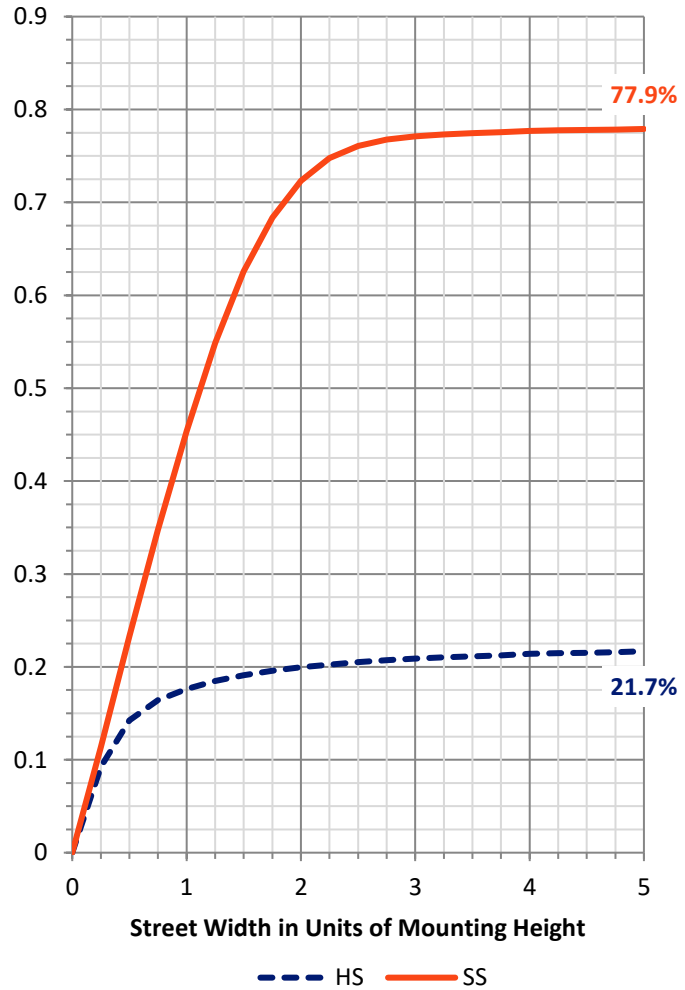
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5239.0 | 0.0 | 5239.0 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 18589.7 | 0.0 | 18589.7 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 23828.7 | 0.0 | 23828.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.8 | 1.2 |
| 10°-20° | 942.7 | 4.0 |
| 20°-30° | 1680.7 | 7.1 |
| 30°-40° | 2443.5 | 10.3 |
| 40°-50° | 3536.5 | 14.8 |
| 50°-60° | 5534.6 | 23.2 |
| 60°-70° | 6456.4 | 27.1 |
| 70°-80° | 2695.2 | 11.3 |
| 80°-90° | 254.3 | 1.1 |
| 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° | 23828.7 | 100.0 |
| 0°-180° | 23828.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P639764

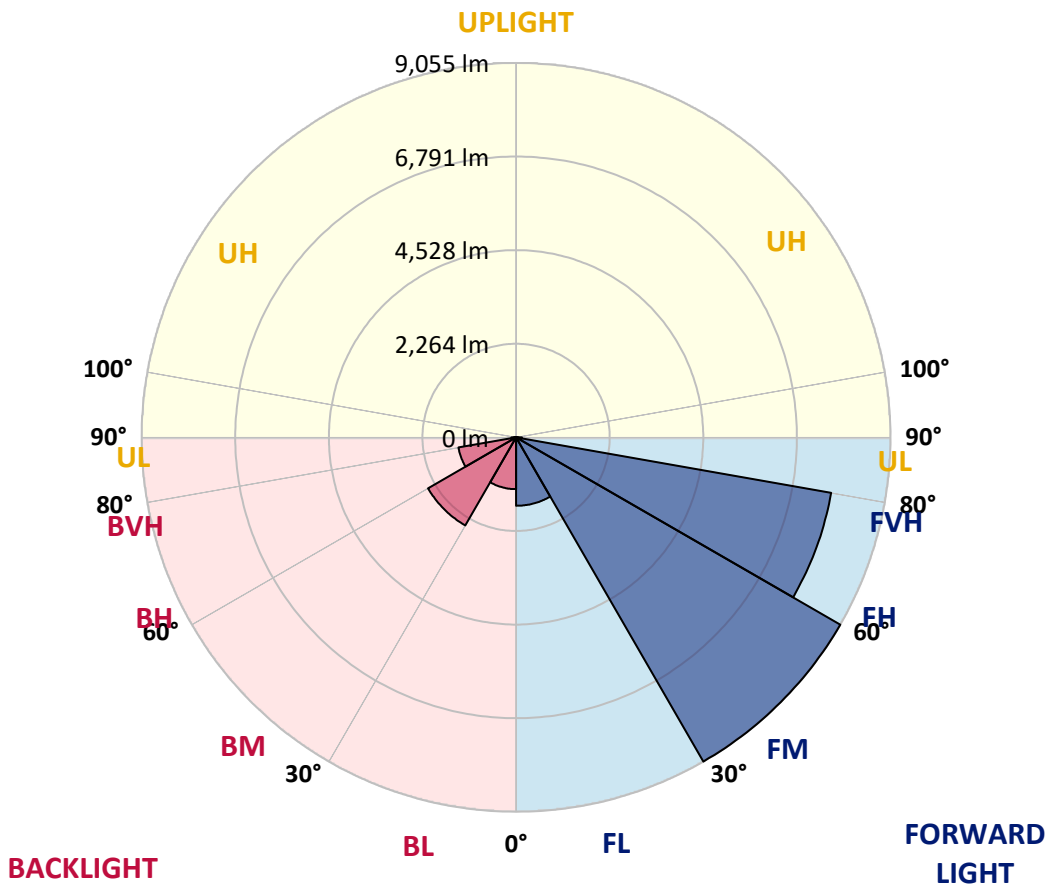
CATALOG NUMBER: GWS-SA5C-740-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1655.1 | 6.9 | | | |
| FM (30°-60°) | 9055.2 | 38.0 | | | |
| FH (60°-80°) | 7737.6 | 32.5 | | | G4/12000 |
| FVH (80°-90°) | 141.7 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1253.0 | 5.3 | B3/2500 | | |
| BM (30°-60°) | 2459.4 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 1414.0 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 112.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 |
| 2.5° | 2912.2 | 2908.8 | 2907.0 | 2917.3 | 2913.9 | 2912.2 | 2912.2 | 2910.5 | 2907.0 | 2893.4 | 2874.6 |
| 5° | 2992.4 | 2985.6 | 2978.7 | 2987.3 | 2980.4 | 2973.6 | 2971.9 | 2968.5 | 2956.5 | 2936.1 | 2907.0 |
| 7.5° | 3076.0 | 3069.2 | 3070.9 | 3076.0 | 3070.9 | 3067.5 | 3062.4 | 3059.0 | 3040.2 | 3007.8 | 2968.5 |
| 10° | 3193.8 | 3193.8 | 3197.2 | 3202.4 | 3204.1 | 3198.9 | 3188.7 | 3183.6 | 3161.4 | 3120.4 | 3065.8 |
| 12.5° | 3364.5 | 3361.1 | 3361.1 | 3357.7 | 3362.8 | 3357.7 | 3347.5 | 3338.9 | 3311.6 | 3258.7 | 3180.2 |
| 15° | 3589.8 | 3576.2 | 3564.2 | 3542.1 | 3535.2 | 3516.4 | 3519.9 | 3514.7 | 3489.1 | 3417.4 | 3318.4 |
| 17.5° | 3830.5 | 3828.8 | 3810.1 | 3765.7 | 3721.3 | 3690.6 | 3697.4 | 3695.7 | 3682.0 | 3584.7 | 3458.4 |
| 20° | 4042.2 | 4050.7 | 4033.7 | 3999.5 | 3939.8 | 3881.7 | 3878.3 | 3886.9 | 3869.8 | 3772.5 | 3596.7 |
| 22.5° | 4279.5 | 4272.7 | 4255.6 | 4211.2 | 4166.8 | 4105.4 | 4084.9 | 4078.1 | 4071.2 | 3960.3 | 3738.4 |
| 25° | 4504.8 | 4525.3 | 4503.1 | 4462.1 | 4393.9 | 4327.3 | 4310.2 | 4317.0 | 4298.3 | 4151.5 | 3890.3 |
| 27.5° | 4789.9 | 4798.4 | 4784.8 | 4728.4 | 4670.4 | 4576.5 | 4544.1 | 4544.1 | 4537.2 | 4330.7 | 4009.8 |
| 30° | 5093.7 | 5117.6 | 5093.7 | 5047.6 | 4987.9 | 4853.0 | 4783.1 | 4776.2 | 4755.7 | 4515.0 | 4149.7 |
| 32.5° | 5399.3 | 5416.4 | 5399.3 | 5354.9 | 5286.6 | 5168.8 | 5068.1 | 5052.8 | 5025.4 | 4716.5 | 4293.1 |
| 35° | 5670.7 | 5686.1 | 5682.6 | 5692.9 | 5636.6 | 5488.0 | 5426.6 | 5419.8 | 5348.1 | 4979.4 | 4487.7 |
| 37.5° | 5967.7 | 5986.5 | 5960.9 | 5981.4 | 5959.2 | 5819.2 | 5800.4 | 5766.3 | 5663.9 | 5226.9 | 4692.6 |
| 40° | 6305.7 | 6322.8 | 6281.8 | 6290.3 | 6264.7 | 6186.2 | 6090.6 | 6044.5 | 5892.6 | 5494.9 | 5015.2 |
| 42.5° | 6667.6 | 6706.9 | 6725.6 | 6710.3 | 6650.5 | 6606.1 | 6438.9 | 6380.8 | 6254.5 | 5978.0 | 5546.1 |
| 45° | 7191.6 | 7249.7 | 7277.0 | 7237.7 | 7212.1 | 7149.0 | 6944.1 | 6874.1 | 6807.6 | 6659.1 | 6286.9 |
| 47.5° | 7756.7 | 7809.6 | 7896.6 | 7913.7 | 7934.2 | 7886.4 | 7597.9 | 7529.6 | 7541.6 | 7524.5 | 7198.5 |
| 50° | 8207.3 | 8251.7 | 8448.0 | 8658.0 | 8832.1 | 8845.7 | 8477.0 | 8403.6 | 8468.5 | 8523.1 | 8296.1 |
| 52.5° | 8535.1 | 8574.3 | 8833.8 | 9267.4 | 9661.7 | 9953.6 | 9555.9 | 9472.2 | 9525.1 | 9648.0 | 9543.9 |
| 55° | 8801.4 | 8856.0 | 9127.4 | 9793.1 | 10590.3 | 11051.2 | 10796.9 | 10691.0 | 10668.8 | 10820.8 | 10880.5 |
| 57.5° | 8941.3 | 8958.4 | 9339.1 | 10204.5 | 11271.4 | 12128.3 | 12239.3 | 12119.8 | 11908.1 | 11991.8 | 12302.4 |
| 60° | 8622.1 | 8651.1 | 9171.8 | 10310.4 | 11809.1 | 13196.9 | 13753.4 | 13654.4 | 13203.7 | 13249.8 | 13592.9 |
| 62.5° | 7739.6 | 7780.6 | 8407.0 | 9806.8 | 11853.5 | 13910.5 | 15151.4 | 15088.3 | 14484.0 | 14234.8 | 14337.2 |
| 65° | 6208.4 | 6222.1 | 6870.7 | 8560.7 | 10971.0 | 13999.2 | 16126.2 | 16110.8 | 15378.5 | 14794.7 | 14356.0 |
| 67.5° | 3540.3 | 3516.4 | 4383.6 | 6106.0 | 9054.0 | 12845.3 | 16189.3 | 16279.8 | 15668.7 | 14702.5 | 13161.1 |
| 70° | 1534.6 | 1538.0 | 1937.5 | 3012.9 | 5860.2 | 10382.1 | 15037.1 | 15192.4 | 14828.8 | 13167.9 | 10470.8 |
| 72.5° | 710.1 | 720.4 | 892.8 | 1304.2 | 2502.5 | 6440.6 | 12261.5 | 12401.5 | 12089.1 | 10539.1 | 7618.4 |
| 75° | 501.9 | 510.4 | 595.7 | 747.7 | 1150.5 | 2509.3 | 8202.2 | 8495.8 | 8647.7 | 7883.0 | 5020.3 |
| 77.5° | 380.7 | 392.6 | 435.3 | 518.9 | 710.1 | 889.4 | 3924.4 | 4624.3 | 5508.5 | 4904.2 | 2586.1 |
| 80° | 242.4 | 242.4 | 288.5 | 346.5 | 433.6 | 462.6 | 1133.5 | 1343.4 | 2695.4 | 2021.1 | 1015.7 |
| 82.5° | 163.9 | 169.0 | 196.3 | 220.2 | 249.2 | 262.9 | 486.5 | 518.9 | 778.4 | 687.9 | 418.2 |
| 85° | 87.1 | 90.5 | 102.4 | 100.7 | 119.5 | 104.1 | 204.8 | 203.1 | 285.1 | 312.4 | 158.8 |
| 87.5° | 0.0 | 0.0 | 1.7 | 1.7 | 3.4 | 5.1 | 22.2 | 23.9 | 59.7 | 95.6 | 52.9 |
| 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° | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 | 2871.2 |
| 2.5° | 2884.9 | 2864.4 | 2874.6 | 2871.2 | 2881.4 | 2881.4 | 2862.7 | 2857.5 | 2859.2 | 2838.8 | 2831.9 |
| 5° | 2910.5 | 2886.6 | 2891.7 | 2884.9 | 2895.1 | 2903.6 | 2895.1 | 2895.1 | 2905.3 | 2890.0 | 2881.4 |
| 7.5° | 2968.5 | 2941.2 | 2941.2 | 2932.6 | 2944.6 | 2951.4 | 2944.6 | 2954.8 | 2973.6 | 2958.3 | 2949.7 |
| 10° | 3060.7 | 3028.2 | 3029.9 | 3019.7 | 3024.8 | 3021.4 | 2994.1 | 2985.6 | 2990.7 | 2977.0 | 2970.2 |
| 12.5° | 3180.2 | 3135.8 | 3135.8 | 3115.3 | 3103.3 | 3067.5 | 3011.2 | 2990.7 | 2994.1 | 2982.2 | 2977.0 |
| 15° | 3294.5 | 3253.6 | 3245.0 | 3204.1 | 3149.4 | 3082.9 | 3031.7 | 3018.0 | 3021.4 | 3009.5 | 3000.9 |
| 17.5° | 3429.4 | 3376.5 | 3345.7 | 3270.6 | 3169.9 | 3101.6 | 3050.4 | 3018.0 | 2990.7 | 2963.4 | 2956.5 |
| 20° | 3554.0 | 3487.4 | 3431.1 | 3315.0 | 3192.1 | 3098.2 | 3002.6 | 2922.4 | 2855.8 | 2820.0 | 2811.5 |
| 22.5° | 3682.0 | 3596.7 | 3497.7 | 3345.7 | 3190.4 | 3036.8 | 2861.0 | 2739.8 | 2640.7 | 2587.8 | 2598.1 |
| 25° | 3803.2 | 3695.7 | 3560.8 | 3374.8 | 3135.8 | 2900.2 | 2661.2 | 2480.3 | 2367.6 | 2326.7 | 2314.7 |
| 27.5° | 3903.9 | 3770.8 | 3618.9 | 3361.1 | 3023.1 | 2703.9 | 2388.1 | 2186.7 | 2077.4 | 2031.3 | 2019.4 |
| 30° | 4016.6 | 3866.4 | 3702.5 | 3297.9 | 2845.6 | 2429.1 | 2079.1 | 1915.3 | 1836.7 | 1792.4 | 1794.1 |
| 32.5° | 4146.3 | 3989.3 | 3820.3 | 3176.8 | 2618.6 | 2132.1 | 1824.8 | 1712.1 | 1649.0 | 1604.6 | 1597.8 |
| 35° | 4320.5 | 4165.1 | 3898.8 | 2994.1 | 2330.1 | 1858.9 | 1650.7 | 1558.5 | 1480.0 | 1421.9 | 1410.0 |
| 37.5° | 4535.5 | 4429.7 | 3907.4 | 2750.0 | 2021.1 | 1671.2 | 1526.1 | 1427.1 | 1331.5 | 1254.7 | 1246.1 |
| 40° | 4904.2 | 4783.1 | 3837.4 | 2444.4 | 1758.2 | 1550.0 | 1421.9 | 1307.6 | 1196.6 | 1111.3 | 1099.3 |
| 42.5° | 5430.0 | 5180.8 | 3687.1 | 2099.6 | 1560.2 | 1454.4 | 1322.9 | 1177.8 | 1065.2 | 1005.4 | 996.9 |
| 45° | 6099.2 | 5624.6 | 3461.8 | 1775.3 | 1413.4 | 1360.5 | 1218.8 | 1066.9 | 1007.1 | 964.5 | 955.9 |
| 47.5° | 6918.5 | 6141.8 | 3202.4 | 1522.7 | 1299.0 | 1275.1 | 1113.0 | 1029.3 | 976.4 | 940.6 | 932.0 |
| 50° | 7898.3 | 6800.7 | 2989.0 | 1324.6 | 1196.6 | 1176.1 | 1078.8 | 1007.1 | 964.5 | 935.4 | 928.6 |
| 52.5° | 9016.4 | 7533.0 | 2884.9 | 1183.0 | 1107.9 | 1087.4 | 1066.9 | 1002.0 | 966.2 | 944.0 | 935.4 |
| 55° | 10177.2 | 8304.6 | 2787.6 | 1073.7 | 1032.7 | 1044.7 | 1068.6 | 1019.1 | 991.8 | 962.8 | 954.2 |
| 57.5° | 11298.7 | 9028.4 | 2548.6 | 988.4 | 978.1 | 1024.2 | 1077.1 | 1036.2 | 1003.7 | 974.7 | 964.5 |
| 60° | 12072.0 | 9424.4 | 2144.0 | 920.1 | 937.2 | 998.6 | 1054.9 | 1010.6 | 969.6 | 957.6 | 952.5 |
| 62.5° | 12280.3 | 9376.6 | 1664.3 | 850.1 | 887.6 | 942.3 | 996.9 | 967.9 | 925.2 | 944.0 | 945.7 |
| 65° | 11793.8 | 8864.5 | 1249.5 | 781.8 | 822.8 | 868.9 | 937.2 | 925.2 | 909.8 | 961.0 | 962.8 |
| 67.5° | 10416.2 | 7606.5 | 952.5 | 722.1 | 756.2 | 812.5 | 918.4 | 967.9 | 971.3 | 1036.2 | 1029.3 |
| 70° | 7881.3 | 5682.6 | 746.0 | 665.7 | 705.0 | 812.5 | 978.1 | 1000.3 | 959.3 | 1019.1 | 1005.4 |
| 72.5° | 5448.8 | 3750.3 | 635.0 | 616.2 | 641.8 | 775.0 | 976.4 | 976.4 | 932.0 | 932.0 | 906.4 |
| 75° | 3385.0 | 2205.5 | 553.1 | 553.1 | 553.1 | 677.7 | 949.1 | 899.6 | 821.1 | 785.2 | 764.7 |
| 77.5° | 1671.2 | 1072.0 | 464.3 | 481.4 | 462.6 | 566.7 | 775.0 | 735.7 | 687.9 | 650.4 | 636.7 |
| 80° | 713.5 | 536.0 | 375.5 | 394.3 | 372.1 | 426.8 | 614.5 | 606.0 | 559.9 | 510.4 | 495.0 |
| 82.5° | 327.7 | 276.5 | 300.4 | 309.0 | 271.4 | 320.9 | 448.9 | 448.9 | 423.3 | 355.1 | 329.5 |
| 85° | 140.0 | 146.8 | 208.3 | 208.3 | 170.7 | 180.9 | 240.7 | 228.7 | 204.8 | 167.3 | 153.6 |
| 87.5° | 47.8 | 71.7 | 105.8 | 92.2 | 35.8 | 15.4 | 8.5 | 3.4 | 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)