

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: P531950

Luminaire Tested: **GALN-SA7B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31293 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

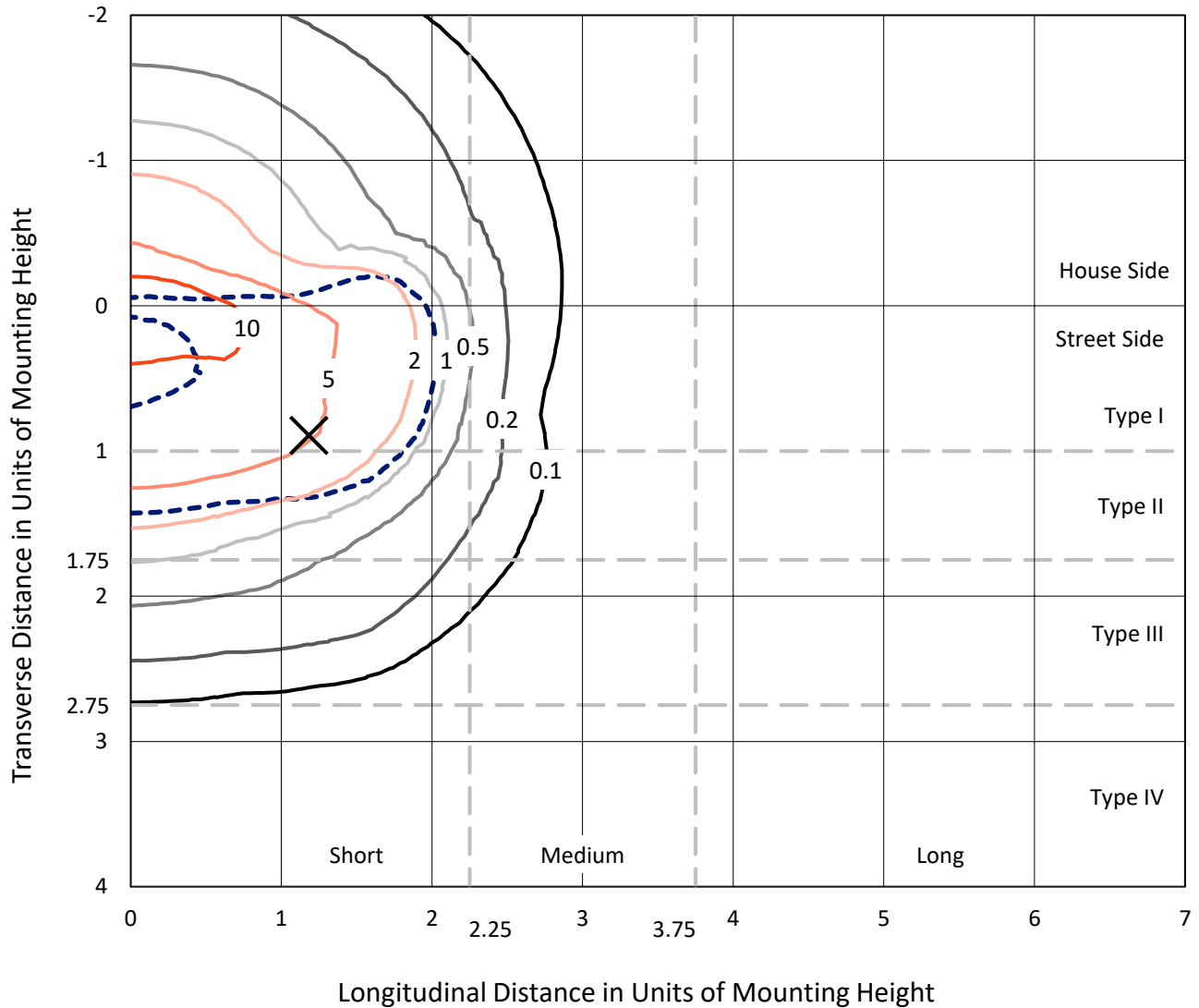
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

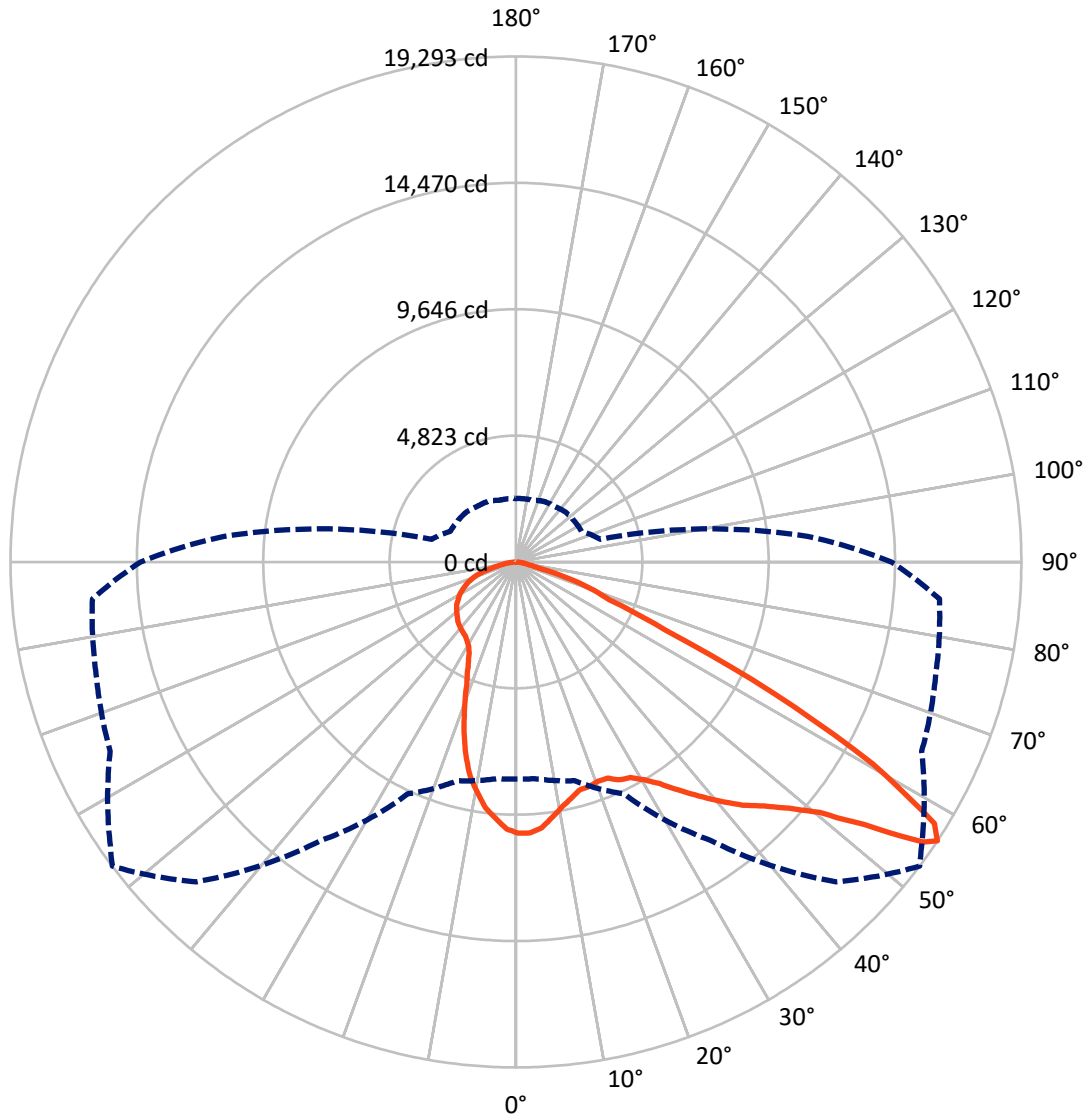
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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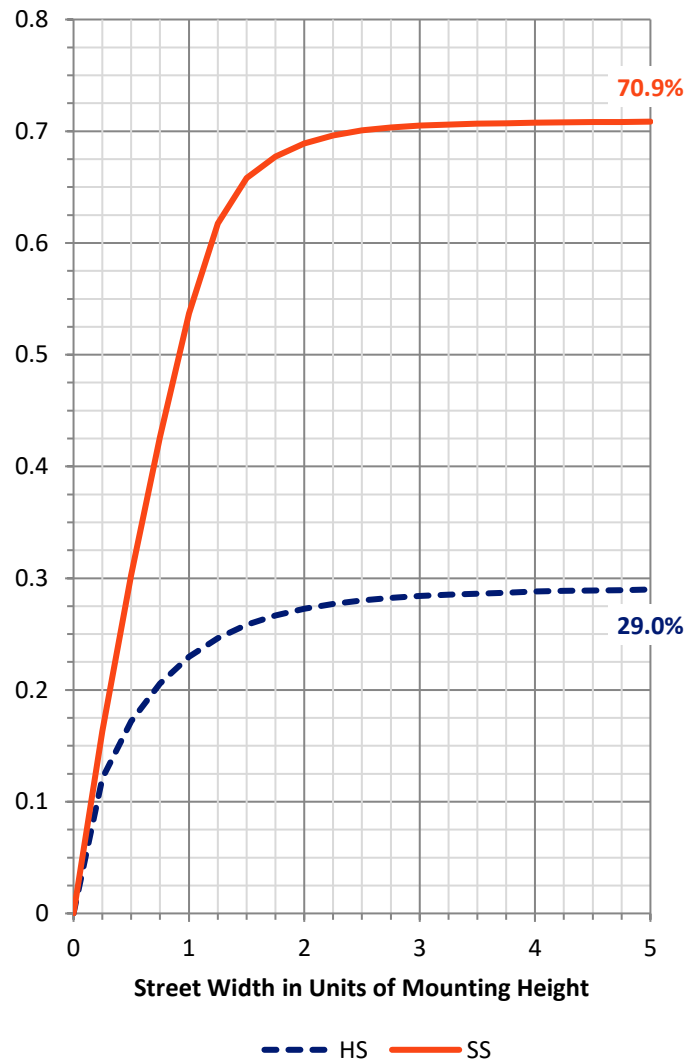
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9132.0 | 0.0 | 9132.0 |
| | % Fixture | 29.2 | 0.0 | 29.2 |
| Street Side | Lumens | 22161.0 | 0.0 | 22161.0 |
| | % Fixture | 70.8 | 0.0 | 70.8 |
| Total | Lumens | 31293.0 | 0.0 | 31293.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 916.5 | 2.9 |
| 10°-20° | 2289.1 | 7.3 |
| 20°-30° | 3375.5 | 10.8 |
| 30°-40° | 4822.9 | 15.4 |
| 40°-50° | 6638.1 | 21.2 |
| 50°-60° | 7844.4 | 25.1 |
| 60°-70° | 4180.6 | 13.4 |
| 70°-80° | 1060.6 | 3.4 |
| 80°-90° | 165.4 | 0.5 |
| 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° | 31293.0 | 100.0 |
| 0°-180° | 31293.0 | 100.0 |

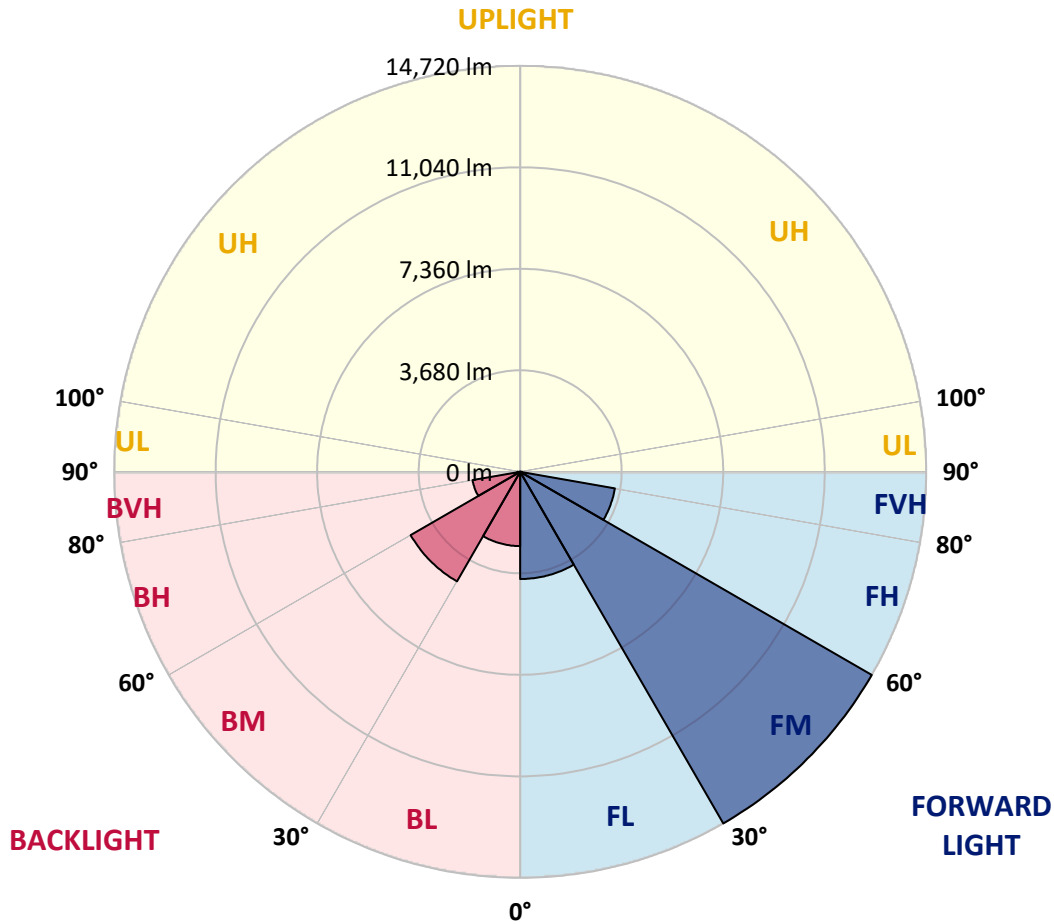


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3887.7 | 12.4 | | | |
| FM (30°-60°) | 14719.6 | 47.0 | | | |
| FH (60°-80°) | 3487.2 | 11.1 | | | G2/5000 |
| FVH (80°-90°) | 66.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2693.4 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 4585.8 | 14.7 | B3/5000 | | |
| BH (60°-80°) | 1753.9 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 98.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 |
| 2.5° | 10224.5 | 10136.2 | 10188.4 | 10168.3 | 10332.9 | 10381.1 | 10357.0 | 10377.0 | 10469.4 | 10425.2 | 10332.9 |
| 5° | 9554.1 | 9678.6 | 9702.6 | 9762.9 | 9859.2 | 10047.9 | 10196.4 | 10236.5 | 10280.7 | 10485.4 | 10465.4 |
| 7.5° | 8943.9 | 9028.2 | 8984.1 | 9160.7 | 9369.4 | 9674.5 | 9855.2 | 9887.3 | 10292.7 | 10405.1 | 10489.4 |
| 10° | 8558.6 | 8474.3 | 8675.0 | 8723.1 | 8960.0 | 9309.2 | 9526.0 | 9658.5 | 10027.8 | 10473.4 | 10525.6 |
| 12.5° | 8201.3 | 8173.2 | 8293.6 | 8430.1 | 8695.0 | 9056.3 | 9277.1 | 9329.3 | 9899.3 | 10369.0 | 10613.9 |
| 15° | 7936.3 | 7904.2 | 8024.6 | 8125.0 | 8434.1 | 8755.3 | 9036.3 | 9184.8 | 9758.8 | 10308.8 | 10537.6 |
| 17.5° | 7727.6 | 7723.6 | 7791.8 | 7972.5 | 8289.6 | 8558.6 | 9012.2 | 9020.2 | 9686.6 | 10401.1 | 10601.8 |
| 20° | 7715.5 | 7711.5 | 7723.6 | 7924.3 | 8213.3 | 8542.5 | 8935.9 | 9008.2 | 9686.6 | 10336.9 | 10605.9 |
| 22.5° | 7815.9 | 7751.7 | 7823.9 | 7952.4 | 8161.1 | 8570.6 | 8964.0 | 9124.6 | 9919.4 | 10654.0 | 10786.5 |
| 25° | 7976.5 | 7992.5 | 8032.7 | 8076.8 | 8197.3 | 8634.8 | 9212.9 | 9345.4 | 10192.4 | 10927.0 | 11035.4 |
| 27.5° | 8269.5 | 8261.5 | 8277.5 | 8301.6 | 8406.0 | 8695.0 | 9313.2 | 9654.5 | 10762.4 | 11412.7 | 11304.4 |
| 30° | 8699.1 | 8671.0 | 8735.2 | 8819.5 | 8723.1 | 8887.7 | 9646.4 | 9903.4 | 11292.3 | 11902.5 | 11605.4 |
| 32.5° | 9088.4 | 9192.8 | 9313.2 | 9349.4 | 9233.0 | 9265.1 | 10088.0 | 10348.9 | 11733.9 | 12504.6 | 11974.7 |
| 35° | 9574.2 | 9658.5 | 9819.1 | 9931.5 | 9911.4 | 9815.0 | 10690.2 | 11035.4 | 12372.2 | 12946.2 | 12364.1 |
| 37.5° | 10047.9 | 10148.2 | 10413.2 | 10746.4 | 10561.7 | 10517.5 | 11332.5 | 11617.5 | 12568.9 | 13183.1 | 12649.2 |
| 40° | 10810.6 | 10806.6 | 11264.2 | 11436.8 | 11601.4 | 11525.1 | 11998.8 | 12095.2 | 12673.2 | 13130.9 | 12657.2 |
| 42.5° | 11705.8 | 11649.6 | 12115.2 | 12384.2 | 12597.0 | 12605.0 | 12693.3 | 12661.2 | 12721.4 | 12865.9 | 12572.9 |
| 45° | 12556.8 | 12677.3 | 13146.9 | 13628.7 | 13841.4 | 13865.5 | 13279.4 | 13219.2 | 12805.7 | 12789.7 | 12412.3 |
| 47.5° | 13596.5 | 13624.6 | 14010.0 | 14644.3 | 15138.0 | 14969.4 | 14038.1 | 13905.6 | 13175.0 | 13299.5 | 12681.3 |
| 50° | 13656.8 | 13865.5 | 14210.7 | 14957.4 | 16474.8 | 16430.7 | 15021.6 | 14772.7 | 13769.2 | 14022.1 | 13431.9 |
| 52.5° | 12396.3 | 12348.1 | 12757.5 | 13977.9 | 16374.5 | 17883.8 | 16651.4 | 16057.3 | 15045.7 | 14853.0 | 14648.3 |
| 55° | 9445.7 | 9558.1 | 9919.4 | 11151.8 | 14218.8 | 17903.9 | 18871.4 | 18385.6 | 16410.6 | 16081.4 | 15844.6 |
| 56° | 8285.6 | 8301.6 | 8642.9 | 9766.9 | 12974.3 | 17265.6 | 19292.9 | 18899.5 | 17089.0 | 16587.2 | 16225.9 |
| 57.5° | 6868.5 | 6776.2 | 6952.8 | 7567.0 | 10951.1 | 15916.8 | 18831.2 | 19216.6 | 17883.8 | 17133.2 | 16631.4 |
| 60° | 5407.3 | 5387.2 | 5315.0 | 5427.4 | 6920.7 | 11990.8 | 15676.0 | 16543.1 | 17803.6 | 16619.3 | 15928.9 |
| 62.5° | 4415.8 | 4315.4 | 4459.9 | 4620.5 | 4809.2 | 7438.6 | 11015.3 | 11525.1 | 14134.5 | 13267.4 | 11966.7 |
| 65° | 3424.2 | 3376.1 | 3556.7 | 4078.6 | 4191.0 | 4724.9 | 6274.4 | 6667.8 | 8345.8 | 8197.3 | 7217.8 |
| 67.5° | 2356.4 | 2364.4 | 2521.0 | 3315.8 | 3885.9 | 3837.7 | 3841.7 | 4046.4 | 4355.5 | 3235.6 | 2818.1 |
| 70° | 1493.3 | 1489.3 | 1573.6 | 2135.6 | 3127.2 | 3159.3 | 2998.7 | 2938.5 | 2785.9 | 1686.0 | 1786.4 |
| 72.5° | 959.4 | 931.3 | 975.5 | 1180.2 | 1617.8 | 1870.7 | 1926.9 | 1963.0 | 1613.8 | 1324.7 | 1437.1 |
| 75° | 541.9 | 513.8 | 497.8 | 550.0 | 638.3 | 738.6 | 810.9 | 835.0 | 935.3 | 1003.6 | 1063.8 |
| 77.5° | 164.6 | 148.5 | 180.6 | 240.9 | 317.1 | 425.5 | 517.8 | 533.9 | 630.2 | 710.5 | 770.8 |
| 80° | 72.3 | 80.3 | 112.4 | 160.6 | 224.8 | 301.1 | 365.3 | 389.4 | 453.6 | 513.8 | 529.9 |
| 82.5° | 44.2 | 48.2 | 76.3 | 108.4 | 156.6 | 212.8 | 260.9 | 269.0 | 333.2 | 381.4 | 393.4 |
| 85° | 16.1 | 20.1 | 40.1 | 64.2 | 100.4 | 136.5 | 136.5 | 148.5 | 136.5 | 136.5 | 148.5 |
| 87.5° | 0.0 | 0.0 | 4.0 | 8.0 | 8.0 | 12.0 | 16.1 | 16.1 | 20.1 | 24.1 | 28.1 |
| 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° | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 | 10353.0 |
| 2.5° | 10381.1 | 10361.0 | 10328.9 | 10212.5 | 10200.4 | 10164.3 | 9963.6 | 9931.5 | 9963.6 | 9867.2 | 9875.3 |
| 5° | 10361.0 | 10421.2 | 10180.3 | 10063.9 | 9847.2 | 9690.6 | 9509.9 | 9417.6 | 9253.0 | 9148.7 | 9265.1 |
| 7.5° | 10449.3 | 10425.2 | 10124.1 | 9871.2 | 9546.1 | 9148.7 | 8831.5 | 8650.9 | 8361.8 | 8281.6 | 8341.8 |
| 10° | 10417.2 | 10288.7 | 9935.5 | 9602.3 | 8988.1 | 8638.8 | 8125.0 | 7627.2 | 7354.3 | 7213.8 | 7193.7 |
| 12.5° | 10373.0 | 10336.9 | 9746.8 | 9172.7 | 8526.4 | 7791.8 | 7069.2 | 6599.6 | 6154.0 | 5961.3 | 5989.4 |
| 15° | 10425.2 | 10120.1 | 9393.5 | 8666.9 | 7807.9 | 6844.4 | 6065.7 | 5459.5 | 5150.4 | 5025.9 | 5025.9 |
| 17.5° | 10401.1 | 10015.8 | 9224.9 | 8100.9 | 7013.0 | 5873.0 | 5017.9 | 4652.6 | 4524.2 | 4524.2 | 4560.3 |
| 20° | 10413.2 | 10084.0 | 8883.7 | 7534.9 | 6073.7 | 4945.7 | 4323.4 | 4191.0 | 4247.2 | 4267.2 | 4287.3 |
| 22.5° | 10481.4 | 9859.2 | 8550.5 | 6912.7 | 5202.6 | 4231.1 | 3926.0 | 3930.0 | 4030.4 | 4138.8 | 4118.7 |
| 25° | 10565.7 | 9770.9 | 8145.1 | 6294.5 | 4536.2 | 3881.9 | 3785.5 | 3773.5 | 3849.7 | 3905.9 | 3914.0 |
| 27.5° | 10493.5 | 9618.3 | 7731.6 | 5523.7 | 3990.2 | 3649.0 | 3629.0 | 3637.0 | 3661.1 | 3773.5 | 3737.3 |
| 30° | 10730.3 | 9662.5 | 7213.8 | 4877.4 | 3689.2 | 3572.8 | 3548.7 | 3536.6 | 3572.8 | 3604.9 | 3576.8 |
| 32.5° | 11023.4 | 9505.9 | 6828.4 | 4255.2 | 3540.6 | 3516.6 | 3468.4 | 3452.3 | 3472.4 | 3440.3 | 3456.3 |
| 35° | 11151.8 | 9477.8 | 6326.6 | 3809.6 | 3424.2 | 3404.2 | 3376.1 | 3372.0 | 3376.1 | 3348.0 | 3323.9 |
| 37.5° | 11224.1 | 9610.3 | 5752.5 | 3604.9 | 3352.0 | 3372.0 | 3307.8 | 3299.8 | 3227.5 | 3243.6 | 3255.6 |
| 40° | 11348.5 | 9405.6 | 5286.9 | 3408.2 | 3307.8 | 3267.7 | 3211.5 | 3199.4 | 3151.2 | 3123.1 | 3151.2 |
| 42.5° | 11167.9 | 9345.4 | 4829.2 | 3323.9 | 3243.6 | 3199.4 | 3159.3 | 3091.0 | 3075.0 | 3050.9 | 3034.8 |
| 45° | 11023.4 | 9000.1 | 4419.8 | 3219.5 | 3167.3 | 3143.2 | 3066.9 | 2994.7 | 2934.5 | 2958.6 | 2922.4 |
| 47.5° | 11131.7 | 8879.7 | 4014.3 | 3131.2 | 3062.9 | 3034.8 | 2958.6 | 2902.4 | 2842.1 | 2814.0 | 2806.0 |
| 50° | 11565.3 | 9104.5 | 3673.1 | 3066.9 | 2974.6 | 2958.6 | 2858.2 | 2794.0 | 2737.8 | 2717.7 | 2725.7 |
| 52.5° | 12601.0 | 9718.7 | 3440.3 | 2934.5 | 2890.3 | 2818.1 | 2761.9 | 2681.6 | 2645.4 | 2581.2 | 2621.4 |
| 55° | 13913.7 | 10718.3 | 3380.1 | 2810.0 | 2785.9 | 2721.7 | 2645.4 | 2585.2 | 2517.0 | 2464.8 | 2452.8 |
| 56° | 14335.2 | 11196.0 | 3331.9 | 2761.9 | 2721.7 | 2685.6 | 2585.2 | 2549.1 | 2440.7 | 2428.7 | 2420.6 |
| 57.5° | 14676.4 | 11617.5 | 3339.9 | 2669.5 | 2629.4 | 2597.3 | 2537.1 | 2448.7 | 2376.5 | 2332.3 | 2352.4 |
| 60° | 13905.6 | 10874.8 | 3187.4 | 2529.0 | 2521.0 | 2460.8 | 2376.5 | 2336.3 | 2248.0 | 2195.8 | 2183.8 |
| 62.5° | 10336.9 | 7382.4 | 2585.2 | 2348.4 | 2344.4 | 2280.1 | 2183.8 | 2139.6 | 2123.6 | 2051.3 | 2051.3 |
| 65° | 5953.3 | 4628.5 | 2236.0 | 2199.9 | 2167.7 | 2103.5 | 2007.2 | 1971.0 | 1930.9 | 1906.8 | 1886.7 |
| 67.5° | 2541.1 | 2400.6 | 2031.3 | 2027.2 | 1991.1 | 1910.8 | 1814.5 | 1758.3 | 1706.1 | 1657.9 | 1682.0 |
| 70° | 1842.6 | 1870.7 | 1834.5 | 1814.5 | 1770.3 | 1670.0 | 1585.7 | 1517.4 | 1437.1 | 1405.0 | 1429.1 |
| 72.5° | 1461.2 | 1521.4 | 1573.6 | 1577.6 | 1525.4 | 1409.0 | 1316.7 | 1224.4 | 1136.1 | 1091.9 | 1112.0 |
| 75° | 1108.0 | 1148.1 | 1200.3 | 1212.3 | 1136.1 | 1055.8 | 967.5 | 871.1 | 802.9 | 750.7 | 758.7 |
| 77.5° | 798.9 | 790.8 | 839.0 | 831.0 | 794.8 | 738.6 | 658.4 | 570.0 | 493.8 | 445.6 | 449.6 |
| 80° | 545.9 | 558.0 | 586.1 | 582.1 | 537.9 | 501.8 | 441.6 | 369.3 | 313.1 | 273.0 | 264.9 |
| 82.5° | 381.4 | 401.4 | 425.5 | 405.4 | 369.3 | 333.2 | 289.0 | 236.8 | 192.7 | 160.6 | 152.5 |
| 85° | 136.5 | 156.6 | 180.6 | 192.7 | 204.7 | 196.7 | 164.6 | 132.5 | 96.3 | 80.3 | 76.3 |
| 87.5° | 28.1 | 32.1 | 36.1 | 36.1 | 36.1 | 32.1 | 28.1 | 28.1 | 24.1 | 12.0 | 12.0 |
| 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)