

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: P531957

Luminaire Tested: **GALN-SA7B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21779 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

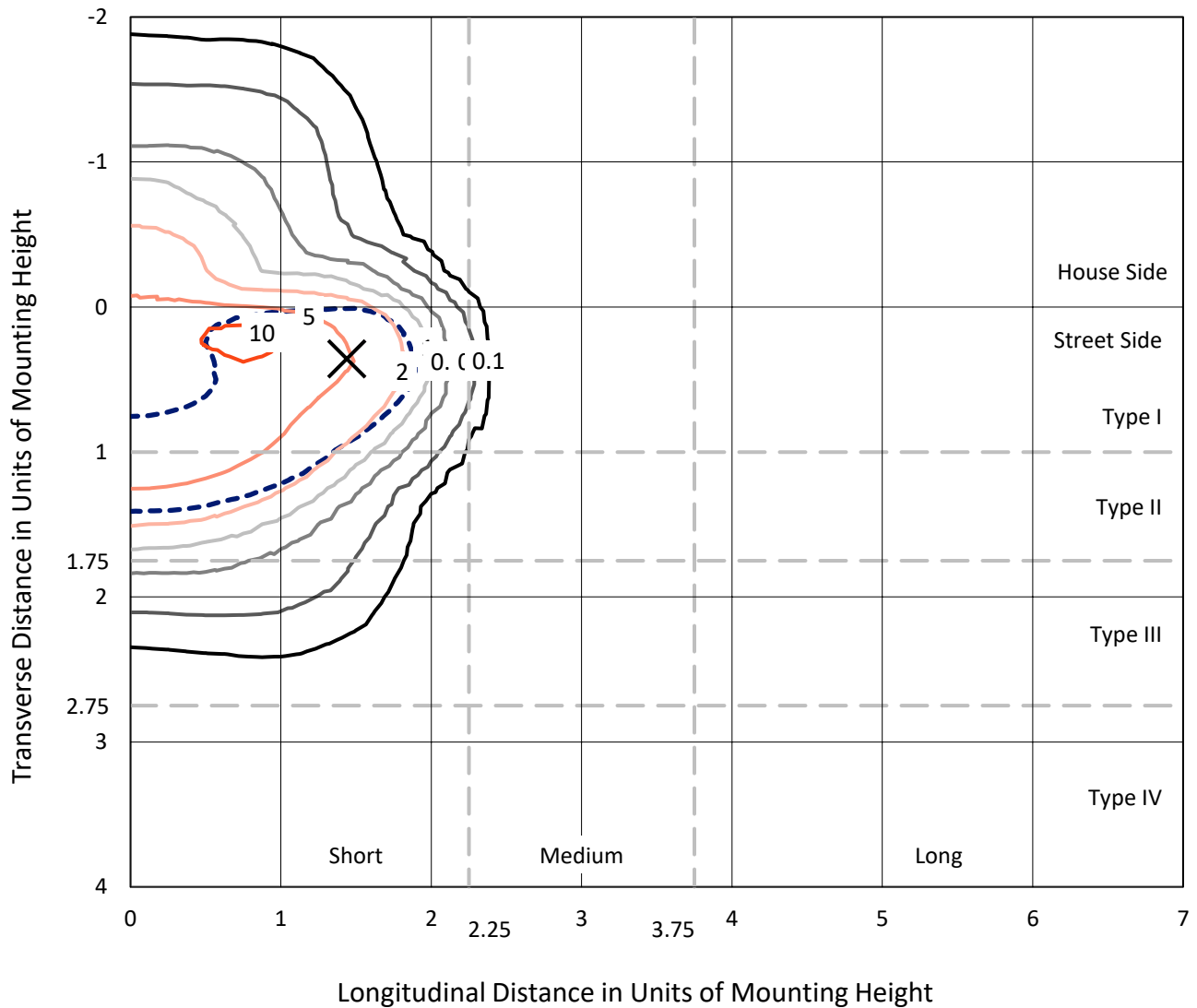
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

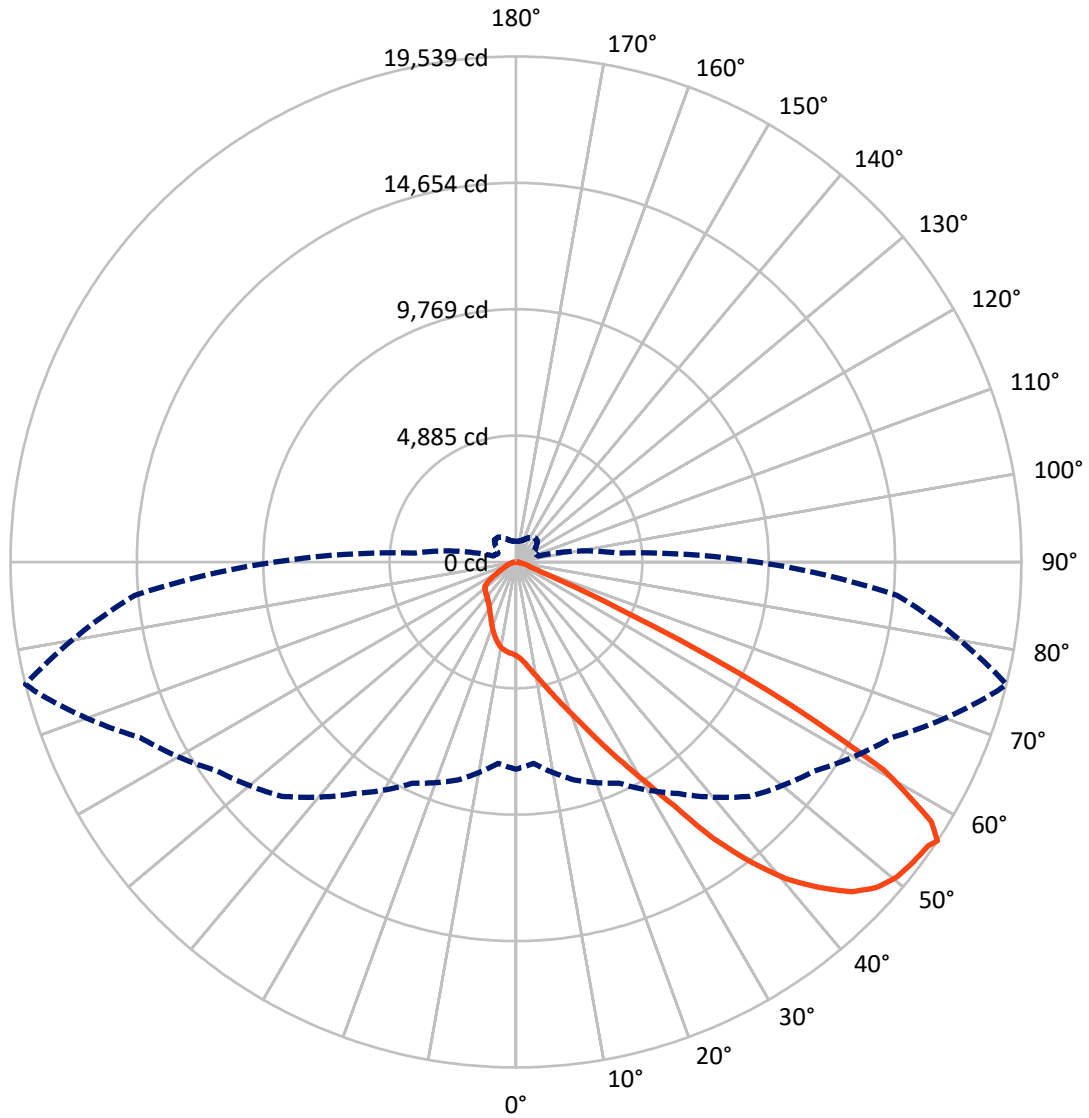
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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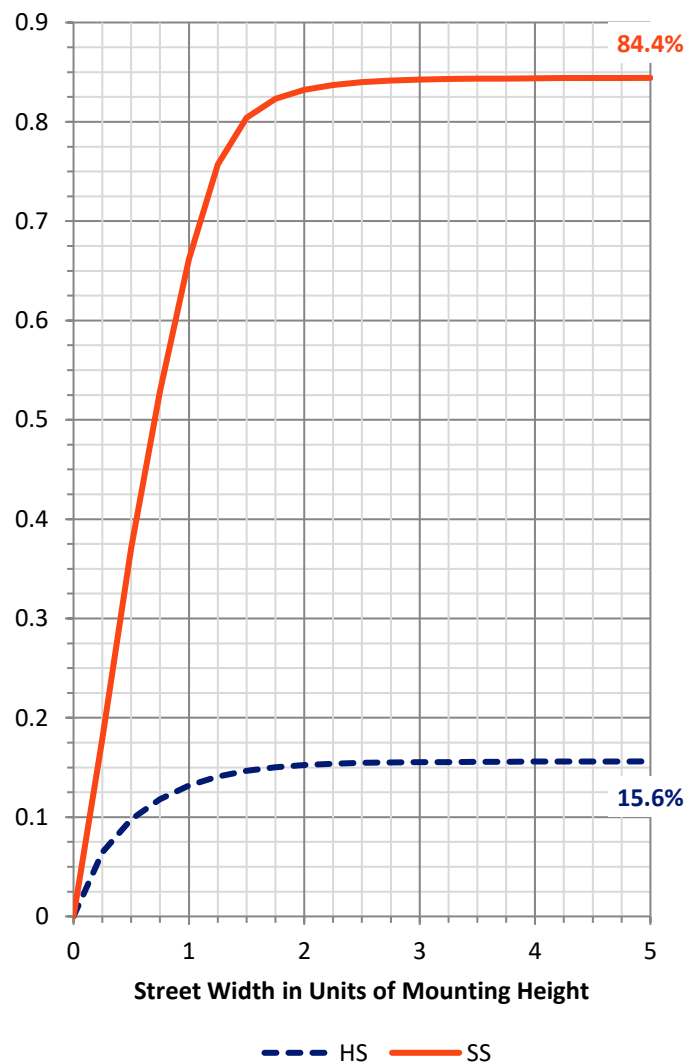
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3421.4 | 0.0 | 3421.4 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 18357.6 | 0.0 | 18357.6 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 21779.0 | 0.0 | 21779.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 365.2 | 1.7 |
| 10°-20° | 1173.2 | 5.4 |
| 20°-30° | 2127.3 | 9.8 |
| 30°-40° | 3668.7 | 16.8 |
| 40°-50° | 5959.9 | 27.4 |
| 50°-60° | 6281.9 | 28.8 |
| 60°-70° | 1919.4 | 8.8 |
| 70°-80° | 246.1 | 1.1 |
| 80°-90° | 37.4 | 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° | 21779.0 | 100.0 |
| 0°-180° | 21779.0 | 100.0 |

Coefficient of Utilization

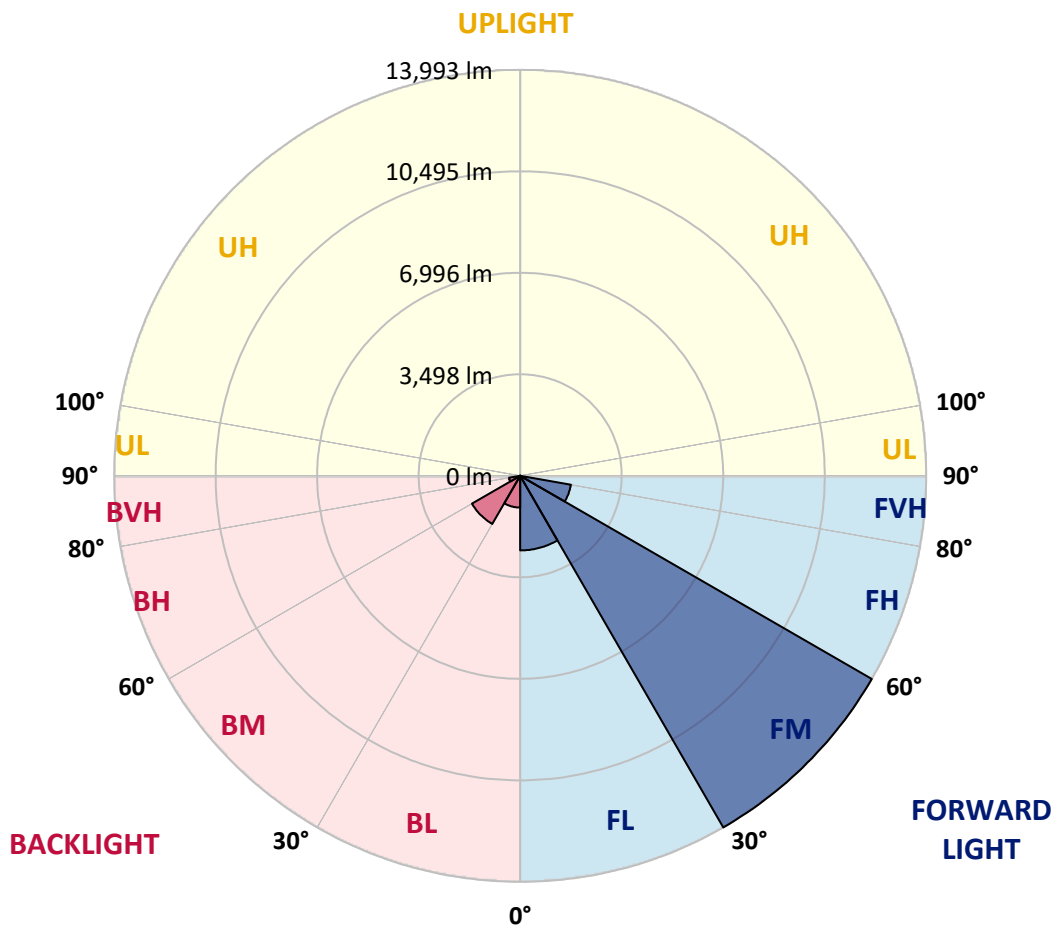


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2571.2 | 11.8 | | | |
| FM (30°-60°) | 13993.0 | 64.2 | | | |
| FH (60°-80°) | 1775.1 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 18.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1094.5 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 1917.5 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 390.3 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.1 | 0.1 | | | G1/100 |
| 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° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 |
| 2.5° | 4175.1 | 4078.8 | 4082.8 | 4074.8 | 4062.7 | 4018.6 | 3886.1 | 3866.0 | 3777.7 | 3753.6 | 3673.3 |
| 5° | 4677.0 | 4592.7 | 4640.8 | 4568.6 | 4500.3 | 4460.2 | 4243.4 | 4143.0 | 4002.5 | 3950.3 | 3837.9 |
| 7.5° | 4990.1 | 4950.0 | 4933.9 | 4937.9 | 4873.7 | 4773.3 | 4677.0 | 4456.2 | 4267.5 | 4227.3 | 3990.5 |
| 10° | 5142.7 | 5118.6 | 5142.7 | 5130.6 | 5158.7 | 5170.8 | 5002.1 | 4869.7 | 4592.7 | 4524.4 | 4155.1 |
| 12.5° | 5178.8 | 5227.0 | 5247.0 | 5299.2 | 5367.5 | 5483.9 | 5471.8 | 5291.2 | 4921.9 | 4877.7 | 4408.0 |
| 15° | 5267.1 | 5307.2 | 5287.2 | 5371.5 | 5499.9 | 5696.7 | 5801.0 | 5772.9 | 5375.5 | 5295.2 | 4701.0 |
| 17.5° | 5347.4 | 5275.1 | 5343.4 | 5512.0 | 5640.5 | 5941.5 | 6194.5 | 6310.9 | 5869.3 | 5777.0 | 4970.0 |
| 20° | 5455.8 | 5435.7 | 5423.7 | 5508.0 | 5736.8 | 6138.3 | 6640.1 | 6852.9 | 6423.3 | 6326.9 | 5355.4 |
| 22.5° | 5785.0 | 5789.0 | 5781.0 | 5656.5 | 5821.1 | 6274.8 | 7029.5 | 7555.4 | 7085.7 | 7005.4 | 5793.0 |
| 25° | 6218.6 | 6166.4 | 6126.2 | 6025.9 | 6005.8 | 6399.2 | 7422.9 | 8414.5 | 7880.6 | 7824.4 | 6266.7 |
| 27.5° | 6676.2 | 6676.2 | 6555.8 | 6463.4 | 6335.0 | 6708.3 | 7784.2 | 9249.5 | 8840.1 | 8763.8 | 6680.2 |
| 30° | 7174.0 | 7202.1 | 7186.1 | 6989.3 | 6909.1 | 7045.6 | 8153.6 | 10317.4 | 9940.0 | 9843.7 | 7362.7 |
| 32.5° | 7908.7 | 7848.5 | 7916.7 | 7752.1 | 7515.3 | 7635.7 | 8735.7 | 11272.9 | 11369.2 | 11232.7 | 8257.9 |
| 35° | 8880.2 | 8844.1 | 8799.9 | 8530.9 | 8249.9 | 8346.3 | 9558.7 | 12449.1 | 13163.7 | 13095.5 | 9161.2 |
| 37.5° | 9751.4 | 9731.3 | 9695.2 | 9510.5 | 9185.3 | 9301.7 | 10494.1 | 13673.6 | 14914.1 | 14689.3 | 10437.9 |
| 40° | 10666.7 | 10775.1 | 10658.7 | 10494.1 | 10197.0 | 10453.9 | 11594.0 | 14400.2 | 16387.4 | 16114.4 | 11413.4 |
| 42.5° | 11907.2 | 11822.9 | 11875.1 | 11574.0 | 11413.4 | 11694.4 | 12698.1 | 15126.9 | 17531.6 | 17206.4 | 12449.1 |
| 45° | 13228.0 | 13232.0 | 13091.5 | 12995.1 | 12577.6 | 12882.7 | 13376.5 | 15528.3 | 18442.9 | 18190.0 | 13232.0 |
| 47.5° | 14075.0 | 14071.0 | 14223.6 | 14376.1 | 13946.6 | 13645.5 | 13838.2 | 15909.7 | 18912.6 | 18796.2 | 13517.0 |
| 50° | 13942.6 | 13982.7 | 14179.4 | 14749.5 | 14974.3 | 14568.8 | 14271.8 | 15797.3 | 19125.4 | 19113.3 | 13761.9 |
| 52.5° | 12128.0 | 12260.5 | 12589.7 | 13412.6 | 14544.7 | 15046.6 | 14725.4 | 16006.0 | 19229.7 | 19249.8 | 14127.2 |
| 55° | 9233.5 | 9305.7 | 9932.0 | 10931.6 | 12184.2 | 13902.4 | 14544.7 | 16170.6 | 19310.0 | 19346.2 | 14568.8 |
| 56° | 8009.0 | 7816.3 | 8719.6 | 9430.2 | 10927.6 | 12806.4 | 14087.1 | 16042.2 | 19261.9 | 19538.9 | 14789.6 |
| 57.5° | 6045.9 | 5917.5 | 6648.1 | 7535.3 | 8976.6 | 10959.7 | 12665.9 | 15436.0 | 18936.7 | 18932.7 | 14472.5 |
| 60° | 3677.3 | 3548.9 | 4110.9 | 4632.8 | 5439.7 | 6748.5 | 8559.0 | 12292.6 | 16010.1 | 16347.3 | 11718.5 |
| 62.5° | 2187.9 | 2268.2 | 2822.2 | 3139.4 | 3400.3 | 3536.8 | 4428.1 | 7306.5 | 10682.7 | 10923.6 | 7270.4 |
| 65° | 1457.3 | 1485.4 | 1902.9 | 2424.8 | 2541.2 | 2023.3 | 1802.5 | 2958.7 | 4632.8 | 4484.3 | 2998.9 |
| 67.5° | 899.3 | 963.5 | 1276.6 | 1822.6 | 2019.3 | 1477.4 | 855.1 | 1104.0 | 1276.6 | 1276.6 | 867.1 |
| 70° | 546.0 | 578.1 | 851.1 | 1240.5 | 1385.0 | 951.5 | 622.3 | 622.3 | 614.2 | 602.2 | 517.9 |
| 72.5° | 260.9 | 281.0 | 433.6 | 638.3 | 650.4 | 501.8 | 481.7 | 525.9 | 513.9 | 509.8 | 429.6 |
| 75° | 112.4 | 120.4 | 152.6 | 200.7 | 228.8 | 212.8 | 293.1 | 377.4 | 389.4 | 377.4 | 309.1 |
| 77.5° | 36.1 | 40.1 | 56.2 | 72.3 | 76.3 | 92.3 | 124.5 | 156.6 | 180.7 | 168.6 | 152.6 |
| 80° | 4.0 | 8.0 | 16.1 | 36.1 | 56.2 | 72.3 | 92.3 | 104.4 | 116.4 | 116.4 | 108.4 |
| 82.5° | 4.0 | 4.0 | 16.1 | 32.1 | 52.2 | 68.2 | 88.3 | 100.4 | 116.4 | 120.4 | 112.4 |
| 85° | 0.0 | 4.0 | 12.0 | 28.1 | 44.2 | 44.2 | 40.1 | 40.1 | 28.1 | 28.1 | 28.1 |
| 87.5° | 0.0 | 0.0 | 4.0 | 4.0 | 4.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 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° | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 | 3625.1 |
| 2.5° | 3657.3 | 3649.2 | 3540.8 | 3472.6 | 3436.5 | 3364.2 | 3320.0 | 3287.9 | 3263.8 | 3235.7 | 3239.7 |
| 5° | 3705.4 | 3677.3 | 3496.7 | 3372.2 | 3223.7 | 3143.4 | 3075.2 | 3018.9 | 2982.8 | 2974.8 | 2958.7 |
| 7.5° | 3841.9 | 3693.4 | 3420.4 | 3195.6 | 3006.9 | 2926.6 | 2866.4 | 2830.3 | 2846.3 | 2810.2 | 2838.3 |
| 10° | 3946.3 | 3725.5 | 3328.1 | 3002.9 | 2814.2 | 2754.0 | 2721.9 | 2750.0 | 2790.1 | 2774.1 | 2754.0 |
| 12.5° | 4074.8 | 3757.6 | 3179.5 | 2818.2 | 2641.6 | 2597.4 | 2653.6 | 2705.8 | 2786.1 | 2818.2 | 2778.1 |
| 15° | 4219.3 | 3793.8 | 2990.8 | 2605.4 | 2493.0 | 2529.2 | 2625.5 | 2717.9 | 2798.1 | 2838.3 | 2862.4 |
| 17.5° | 4395.9 | 3781.7 | 2806.2 | 2436.8 | 2352.5 | 2456.9 | 2573.3 | 2657.6 | 2778.1 | 2838.3 | 2822.2 |
| 20° | 4560.5 | 3741.6 | 2601.4 | 2268.2 | 2272.2 | 2368.6 | 2464.9 | 2601.4 | 2665.7 | 2746.0 | 2717.9 |
| 22.5° | 4717.1 | 3669.3 | 2388.7 | 2151.8 | 2151.8 | 2300.3 | 2348.5 | 2436.8 | 2493.0 | 2533.2 | 2529.2 |
| 25° | 4937.9 | 3532.8 | 2212.0 | 2039.4 | 2087.6 | 2183.9 | 2224.1 | 2252.2 | 2228.1 | 2260.2 | 2264.2 |
| 27.5° | 5094.5 | 3392.3 | 2067.5 | 1939.0 | 2027.4 | 2099.6 | 2087.6 | 2071.5 | 2015.3 | 1971.1 | 1999.3 |
| 30° | 5263.1 | 3227.7 | 1943.0 | 1870.8 | 1919.0 | 1983.2 | 1935.0 | 1886.8 | 1798.5 | 1726.3 | 1730.3 |
| 32.5° | 5504.0 | 3151.4 | 1834.7 | 1790.5 | 1854.7 | 1862.8 | 1810.6 | 1738.3 | 1650.0 | 1581.7 | 1577.7 |
| 35° | 5953.6 | 3103.3 | 1742.3 | 1738.3 | 1750.3 | 1754.4 | 1702.2 | 1613.9 | 1577.7 | 1521.5 | 1541.6 |
| 37.5° | 6403.2 | 3079.2 | 1678.1 | 1662.0 | 1658.0 | 1662.0 | 1601.8 | 1517.5 | 1585.8 | 1581.7 | 1589.8 |
| 40° | 6977.3 | 3187.6 | 1585.8 | 1565.7 | 1569.7 | 1569.7 | 1493.4 | 1469.3 | 1589.8 | 1601.8 | 1605.8 |
| 42.5° | 7559.4 | 3324.1 | 1525.5 | 1461.3 | 1477.4 | 1477.4 | 1437.2 | 1409.1 | 1493.4 | 1413.1 | 1401.1 |
| 45° | 8065.3 | 3524.8 | 1461.3 | 1356.9 | 1397.1 | 1417.1 | 1405.1 | 1356.9 | 1304.7 | 1168.2 | 1168.2 |
| 47.5° | 8229.8 | 3701.4 | 1385.0 | 1256.6 | 1288.7 | 1377.0 | 1340.9 | 1240.5 | 1148.2 | 1035.8 | 1027.7 |
| 50° | 8518.9 | 3894.1 | 1324.8 | 1140.1 | 1208.4 | 1316.8 | 1280.6 | 1180.3 | 1075.9 | 995.6 | 999.6 |
| 52.5° | 8816.0 | 4114.9 | 1212.4 | 1003.6 | 1087.9 | 1268.6 | 1268.6 | 1156.2 | 995.6 | 939.4 | 931.4 |
| 55° | 9261.6 | 4106.9 | 1011.7 | 823.0 | 971.5 | 1196.3 | 1216.4 | 1035.8 | 891.2 | 847.1 | 847.1 |
| 56° | 9325.8 | 3922.2 | 911.3 | 770.8 | 919.3 | 1176.3 | 1180.3 | 1003.6 | 851.1 | 802.9 | 802.9 |
| 57.5° | 8844.1 | 3540.8 | 798.9 | 706.6 | 855.1 | 1140.1 | 1144.1 | 975.5 | 819.0 | 750.7 | 742.7 |
| 60° | 6804.7 | 2396.7 | 666.4 | 630.3 | 774.8 | 1027.7 | 1047.8 | 887.2 | 718.6 | 666.4 | 662.4 |
| 62.5° | 3841.9 | 1328.8 | 586.1 | 570.1 | 666.4 | 875.2 | 935.4 | 774.8 | 610.2 | 582.1 | 590.1 |
| 65° | 1754.4 | 730.6 | 493.8 | 461.7 | 538.0 | 674.4 | 754.7 | 638.3 | 501.8 | 469.7 | 469.7 |
| 67.5° | 642.3 | 497.8 | 421.5 | 365.3 | 377.4 | 437.6 | 489.8 | 413.5 | 333.2 | 285.0 | 297.1 |
| 70° | 457.7 | 417.5 | 369.3 | 317.2 | 293.1 | 285.0 | 281.0 | 232.8 | 164.6 | 128.5 | 136.5 |
| 72.5° | 369.3 | 345.3 | 309.1 | 269.0 | 228.8 | 192.7 | 164.6 | 120.4 | 76.3 | 52.2 | 48.2 |
| 75° | 265.0 | 252.9 | 224.8 | 192.7 | 160.6 | 136.5 | 112.4 | 76.3 | 40.1 | 20.1 | 20.1 |
| 77.5° | 136.5 | 136.5 | 132.5 | 120.4 | 100.4 | 80.3 | 64.2 | 44.2 | 24.1 | 8.0 | 8.0 |
| 80° | 104.4 | 112.4 | 116.4 | 104.4 | 92.3 | 72.3 | 52.2 | 32.1 | 16.1 | 4.0 | 4.0 |
| 82.5° | 100.4 | 116.4 | 124.5 | 108.4 | 92.3 | 68.2 | 52.2 | 32.1 | 16.1 | 4.0 | 4.0 |
| 85° | 24.1 | 24.1 | 36.1 | 40.1 | 52.2 | 56.2 | 44.2 | 28.1 | 12.0 | 4.0 | 4.0 |
| 87.5° | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 4.0 | 4.0 | 4.0 | 4.0 | 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)