

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: P646788

Luminaire Tested: **GALN-SA2C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6120 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

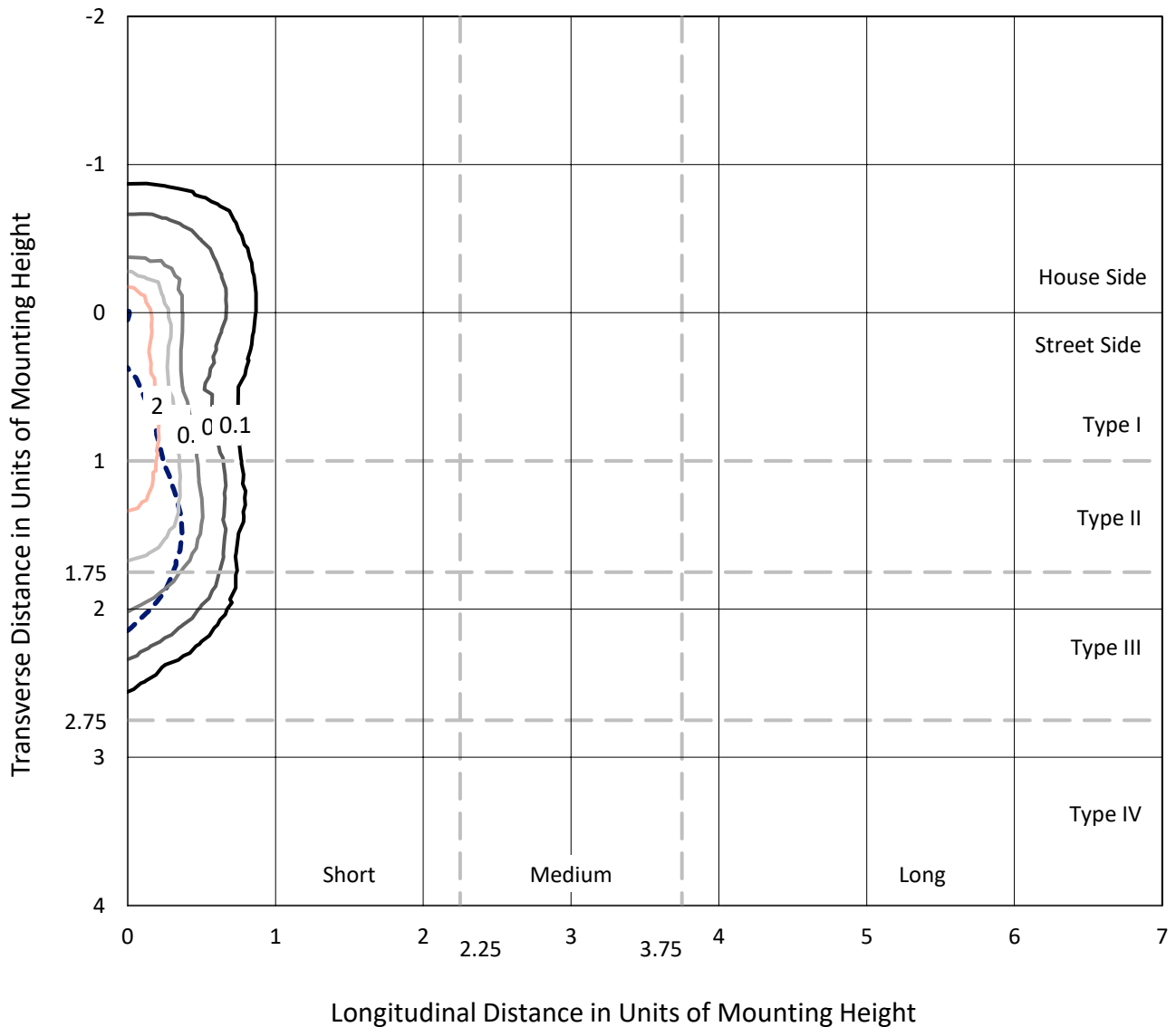
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

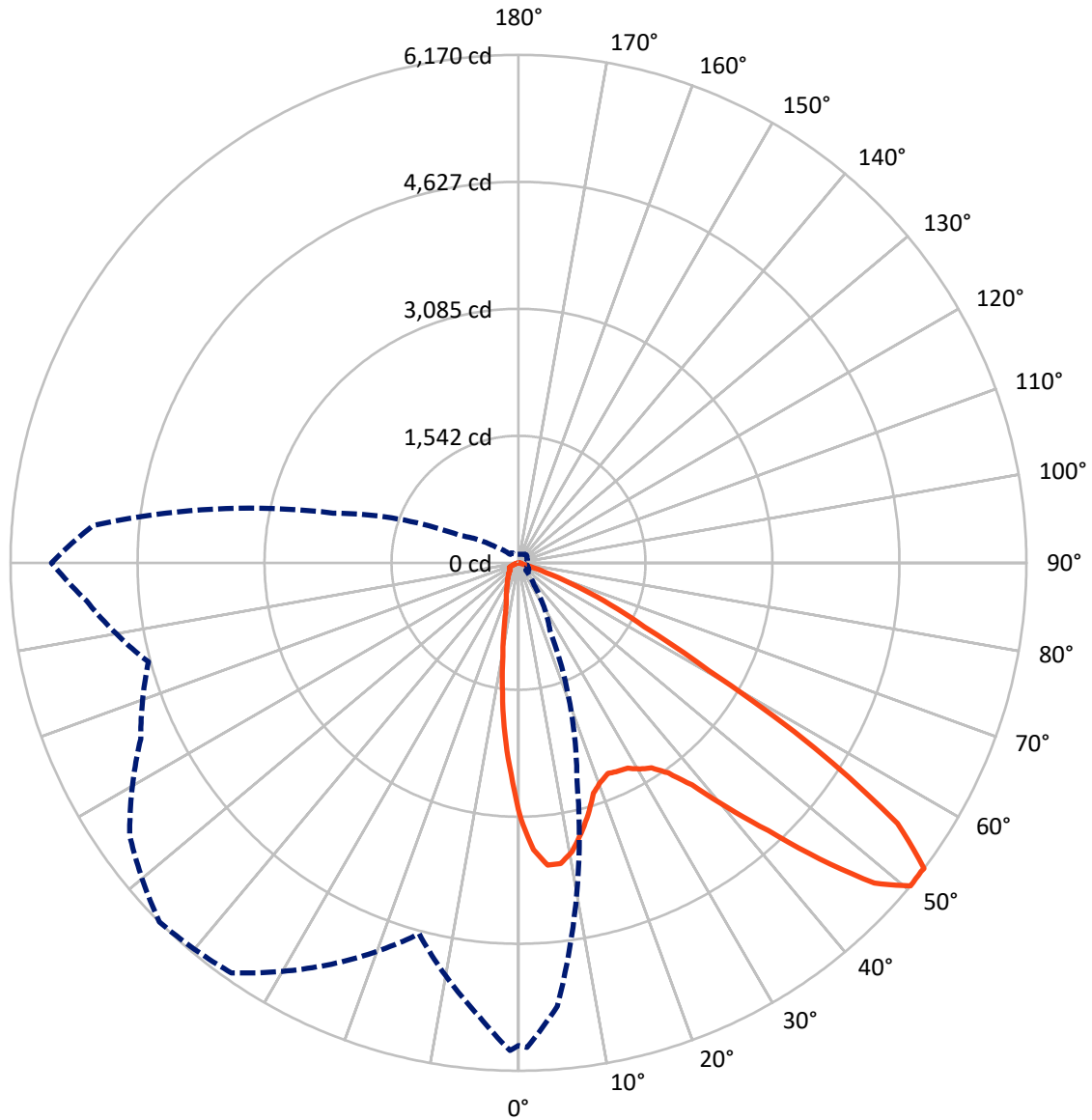
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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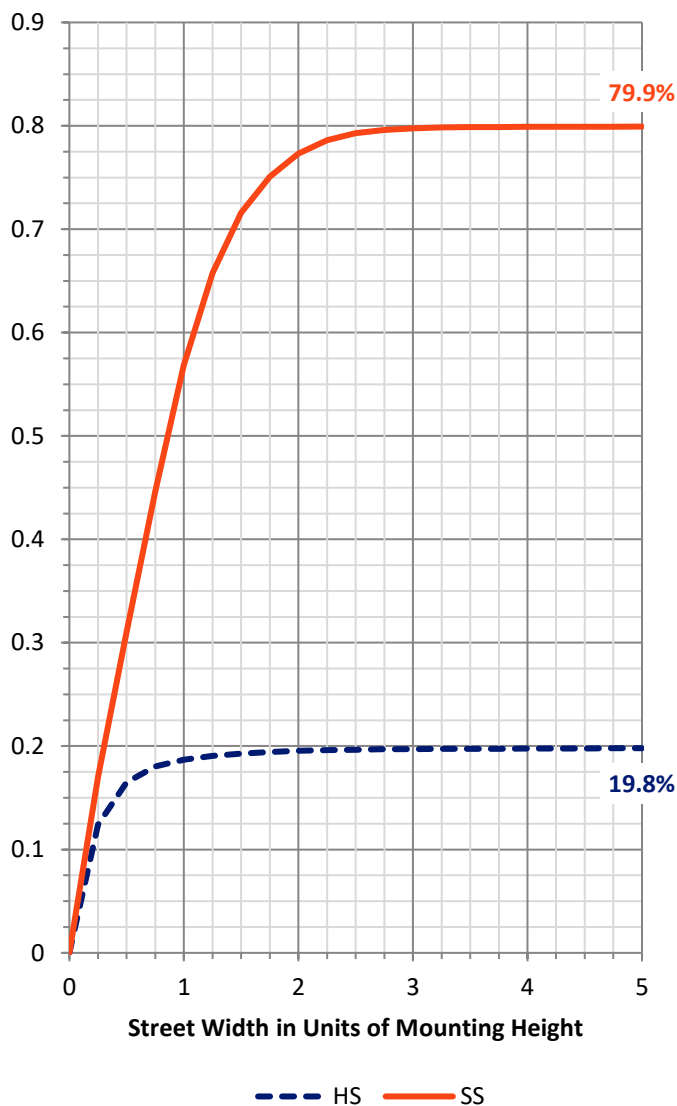
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1225.8 | 0.0 | 1225.8 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 4894.1 | 0.0 | 4894.1 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 6120.0 | 0.0 | 6120.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 226.2 | 3.7 |
| 10°-20° | 449.6 | 7.3 |
| 20°-30° | 675.4 | 11.0 |
| 30°-40° | 1013.8 | 16.6 |
| 40°-50° | 1424.8 | 23.3 |
| 50°-60° | 1536.9 | 25.1 |
| 60°-70° | 713.6 | 11.7 |
| 70°-80° | 67.1 | 1.1 |
| 80°-90° | 12.4 | 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° | 6120.0 | 100.0 |
| 0°-180° | 6120.0 | 100.0 |

Coefficient of Utilization



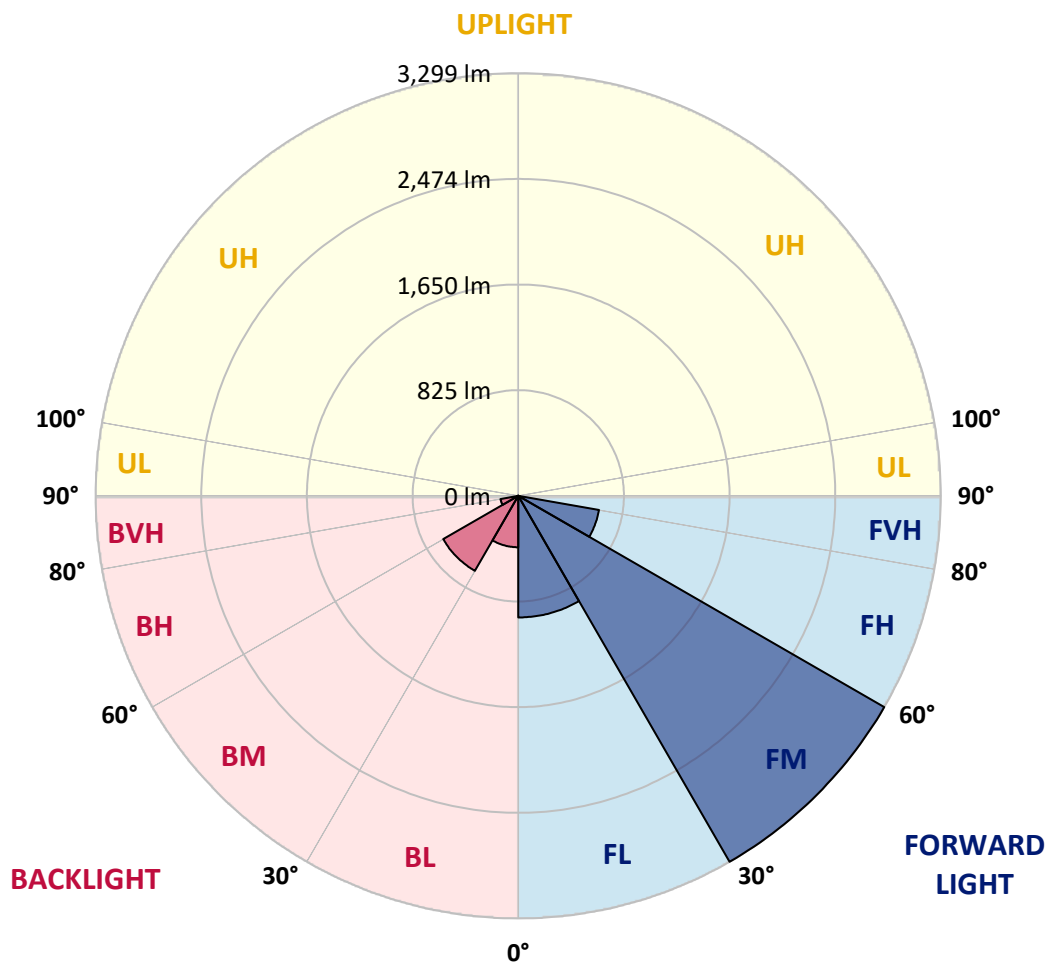
REPORT NUMBER: P646788
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 949.5 | 15.5 | | | |
| FM (30°-60°) | 3299.1 | 53.9 | | | |
| FH (60°-80°) | 640.0 | 10.5 | | | G0/660 |
| FVH (80°-90°) | 5.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 401.8 | 6.6 | B1/500 | | |
| BM (30°-60°) | 676.5 | 11.1 | B1/1000 | | |
| BH (60°-80°) | 140.8 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 |
| 2.5° | 3226.2 | 3176.4 | 3113.3 | 3061.1 | 2983.4 | 2826.7 | 2784.3 | 2733.2 | 2690.7 | 2633.7 | 2553.5 |
| 5° | 2933.6 | 2917.8 | 2888.6 | 2692.0 | 2549.9 | 2360.4 | 2205.0 | 2139.5 | 2053.3 | 1982.9 | 1931.8 |
| 7.5° | 2710.2 | 2647.0 | 2554.8 | 2356.8 | 2129.8 | 1927.0 | 1754.5 | 1653.8 | 1539.6 | 1500.8 | 1431.6 |
| 10° | 2471.0 | 2485.6 | 2349.5 | 2071.5 | 1797.1 | 1633.1 | 1526.3 | 1429.1 | 1325.9 | 1258.0 | 1159.6 |
| 12.5° | 2394.5 | 2347.1 | 2242.7 | 1899.1 | 1664.7 | 1511.7 | 1381.8 | 1261.6 | 1152.3 | 1043.0 | 948.3 |
| 15° | 2444.2 | 2371.4 | 2225.7 | 1862.6 | 1562.7 | 1372.1 | 1209.3 | 1046.6 | 945.9 | 806.3 | 707.9 |
| 17.5° | 2622.7 | 2564.5 | 2369.0 | 1901.5 | 1510.5 | 1238.5 | 996.9 | 829.4 | 675.1 | 548.8 | 499.1 |
| 20° | 2920.2 | 2837.7 | 2592.4 | 1951.2 | 1432.8 | 1077.0 | 808.7 | 602.3 | 456.6 | 403.1 | 375.2 |
| 22.5° | 3211.6 | 3166.7 | 2857.1 | 2047.2 | 1363.6 | 933.7 | 607.1 | 405.5 | 341.2 | 331.5 | 313.3 |
| 25° | 3766.5 | 3631.8 | 3261.4 | 2220.8 | 1310.2 | 799.0 | 457.7 | 326.6 | 289.0 | 281.7 | 284.2 |
| 27.5° | 4096.8 | 3983.9 | 3635.4 | 2336.2 | 1250.7 | 695.8 | 387.4 | 299.9 | 274.4 | 258.6 | 252.6 |
| 30° | 4413.7 | 4282.6 | 3821.2 | 2404.2 | 1123.1 | 586.5 | 343.7 | 287.8 | 281.7 | 258.6 | 251.3 |
| 32.5° | 4657.8 | 4529.1 | 4089.5 | 2506.1 | 1071.0 | 516.1 | 282.9 | 224.6 | 208.8 | 206.4 | 228.2 |
| 35° | 5031.8 | 4894.5 | 4319.0 | 2562.1 | 1030.9 | 479.6 | 245.2 | 200.4 | 182.1 | 174.8 | 176.1 |
| 37.5° | 5380.2 | 5286.7 | 4531.5 | 2583.9 | 988.4 | 468.7 | 219.8 | 179.7 | 164.0 | 159.0 | 157.9 |
| 40° | 5671.7 | 5462.8 | 4733.1 | 2606.9 | 970.1 | 448.0 | 204.0 | 164.0 | 153.0 | 145.7 | 145.7 |
| 42.5° | 5805.2 | 5592.7 | 4958.9 | 2593.6 | 965.3 | 415.3 | 204.0 | 150.6 | 142.0 | 134.8 | 133.6 |
| 45° | 5776.1 | 5689.9 | 5059.7 | 2587.5 | 965.3 | 382.5 | 185.8 | 146.9 | 134.8 | 125.0 | 122.6 |
| 47.5° | 5851.4 | 5738.5 | 5186.0 | 2613.0 | 945.9 | 359.4 | 156.6 | 154.2 | 127.5 | 115.3 | 112.9 |
| 50° | 5864.7 | 5886.6 | 5405.8 | 2745.4 | 903.4 | 330.3 | 122.6 | 151.7 | 122.6 | 104.5 | 102.0 |
| 52° | 5952.1 | 5816.2 | 5472.5 | 2815.8 | 858.5 | 308.4 | 103.2 | 129.9 | 117.8 | 97.2 | 94.7 |
| 52.5° | 5831.9 | 5920.6 | 5488.4 | 2841.3 | 863.3 | 293.9 | 99.6 | 127.5 | 115.3 | 97.2 | 91.1 |
| 55° | 5697.2 | 5782.1 | 5424.0 | 2895.9 | 791.7 | 230.7 | 77.7 | 92.3 | 104.5 | 85.0 | 81.4 |
| 57.5° | 4951.6 | 5037.8 | 4713.7 | 2651.9 | 644.7 | 162.7 | 64.4 | 69.2 | 92.3 | 78.9 | 75.2 |
| 60° | 4401.6 | 4339.7 | 3956.0 | 2212.4 | 457.7 | 91.1 | 51.0 | 53.4 | 100.8 | 72.8 | 71.6 |
| 62.5° | 4022.7 | 3890.4 | 3306.4 | 1708.4 | 279.3 | 60.7 | 40.1 | 41.3 | 77.7 | 68.0 | 68.0 |
| 65° | 2976.1 | 2828.0 | 2196.5 | 1033.3 | 137.2 | 42.5 | 30.4 | 32.8 | 48.5 | 58.3 | 58.3 |
| 67.5° | 1698.7 | 1641.6 | 1061.2 | 466.3 | 57.1 | 26.7 | 23.1 | 25.5 | 37.7 | 47.4 | 44.9 |
| 70° | 780.7 | 700.6 | 407.9 | 98.3 | 26.7 | 18.2 | 18.2 | 20.7 | 30.4 | 35.2 | 32.8 |
| 72.5° | 228.2 | 216.1 | 99.6 | 15.8 | 11.0 | 11.0 | 12.1 | 15.8 | 23.1 | 26.7 | 24.3 |
| 75° | 17.0 | 11.0 | 7.3 | 4.9 | 4.9 | 7.3 | 9.7 | 15.8 | 23.1 | 25.5 | 20.7 |
| 77.5° | 1.3 | 2.4 | 1.3 | 1.3 | 3.7 | 7.3 | 11.0 | 19.4 | 30.4 | 31.6 | 23.1 |
| 80° | 1.3 | 1.3 | 0.0 | 1.3 | 3.7 | 7.3 | 12.1 | 21.8 | 34.0 | 36.4 | 19.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 1.3 | 4.9 | 9.7 | 14.6 | 23.1 | 31.6 | 38.8 | 20.7 |
| 85° | 0.0 | 0.0 | 0.0 | 1.3 | 7.3 | 13.4 | 17.0 | 6.1 | 3.7 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 |
| 2.5° | 2610.6 | 2579.0 | 2566.9 | 2577.8 | 2574.2 | 2570.5 | 2637.3 | 2622.7 | 2620.3 | 2642.2 | 2637.3 |
| 5° | 1959.8 | 1903.9 | 2056.9 | 1995.0 | 2059.4 | 2098.2 | 2105.5 | 2109.1 | 2154.0 | 2106.7 | 2168.6 |
| 7.5° | 1396.4 | 1411.0 | 1409.7 | 1451.0 | 1525.0 | 1590.7 | 1629.5 | 1599.1 | 1596.7 | 1590.7 | 1564.0 |
| 10° | 1115.9 | 1090.4 | 1085.6 | 1075.8 | 1098.9 | 1154.8 | 1202.1 | 1164.5 | 1137.7 | 1174.2 | 1163.2 |
| 12.5° | 911.9 | 876.6 | 857.2 | 818.4 | 819.6 | 857.2 | 857.2 | 857.2 | 883.9 | 904.6 | 920.4 |
| 15° | 699.4 | 670.2 | 670.2 | 631.4 | 622.9 | 624.1 | 643.5 | 646.0 | 688.5 | 700.6 | 706.7 |
| 17.5° | 489.3 | 473.6 | 491.8 | 507.5 | 497.8 | 500.3 | 507.5 | 510.0 | 516.1 | 511.2 | 523.4 |
| 20° | 376.4 | 374.0 | 378.8 | 406.8 | 427.4 | 439.6 | 431.0 | 418.9 | 411.6 | 394.6 | 394.6 |
| 22.5° | 319.3 | 324.2 | 332.7 | 355.8 | 382.5 | 389.8 | 380.1 | 352.1 | 330.3 | 327.8 | 329.1 |
| 25° | 284.2 | 289.0 | 302.3 | 316.9 | 331.5 | 343.7 | 333.9 | 313.3 | 301.1 | 290.2 | 290.2 |
| 27.5° | 262.3 | 264.7 | 272.0 | 282.9 | 295.0 | 304.7 | 301.1 | 290.2 | 276.9 | 272.0 | 261.1 |
| 30° | 245.2 | 248.9 | 257.5 | 259.9 | 270.8 | 275.6 | 269.6 | 267.2 | 258.6 | 252.6 | 248.9 |
| 32.5° | 236.8 | 235.5 | 241.6 | 244.1 | 245.2 | 248.9 | 241.6 | 245.2 | 244.1 | 234.4 | 230.7 |
| 35° | 178.5 | 188.2 | 204.0 | 217.4 | 221.0 | 225.8 | 224.6 | 219.8 | 206.4 | 195.5 | 182.1 |
| 37.5° | 160.3 | 166.4 | 174.8 | 185.8 | 200.4 | 206.4 | 204.0 | 191.8 | 176.1 | 168.8 | 166.4 |
| 40° | 148.1 | 151.7 | 159.0 | 166.4 | 181.0 | 191.8 | 183.4 | 172.4 | 160.3 | 154.2 | 150.6 |
| 42.5° | 137.2 | 138.4 | 142.0 | 149.3 | 160.3 | 177.3 | 162.7 | 148.1 | 143.3 | 139.6 | 137.2 |
| 45° | 125.0 | 125.0 | 129.9 | 133.6 | 145.7 | 161.5 | 146.9 | 133.6 | 131.2 | 128.7 | 127.5 |
| 47.5° | 115.3 | 116.6 | 119.0 | 123.9 | 133.6 | 144.5 | 134.8 | 123.9 | 117.8 | 116.6 | 114.2 |
| 50° | 103.2 | 104.5 | 109.3 | 114.2 | 126.3 | 132.3 | 126.3 | 114.2 | 108.1 | 104.5 | 104.5 |
| 52° | 93.5 | 97.2 | 102.0 | 111.7 | 120.2 | 129.9 | 122.6 | 109.3 | 102.0 | 98.3 | 95.9 |
| 52.5° | 92.3 | 94.7 | 99.6 | 110.5 | 120.2 | 128.7 | 121.4 | 108.1 | 99.6 | 97.2 | 94.7 |
| 55° | 82.6 | 86.2 | 94.7 | 108.1 | 119.0 | 128.7 | 119.0 | 106.9 | 94.7 | 88.6 | 86.2 |
| 57.5° | 78.9 | 81.4 | 92.3 | 109.3 | 117.8 | 128.7 | 119.0 | 106.9 | 94.7 | 83.8 | 81.4 |
| 60° | 75.2 | 80.1 | 92.3 | 105.6 | 116.6 | 129.9 | 120.2 | 105.6 | 92.3 | 78.9 | 78.9 |
| 62.5° | 71.6 | 75.2 | 91.1 | 103.2 | 111.7 | 125.0 | 115.3 | 103.2 | 88.6 | 75.2 | 74.1 |
| 65° | 61.9 | 68.0 | 80.1 | 86.2 | 95.9 | 108.1 | 98.3 | 89.9 | 77.7 | 66.8 | 65.5 |
| 67.5° | 47.4 | 49.8 | 59.5 | 66.8 | 72.8 | 83.8 | 78.9 | 68.0 | 59.5 | 51.0 | 51.0 |
| 70° | 32.8 | 35.2 | 42.5 | 46.1 | 52.2 | 58.3 | 54.7 | 46.1 | 40.1 | 35.2 | 34.0 |
| 72.5° | 23.1 | 24.3 | 26.7 | 29.1 | 31.6 | 34.0 | 32.8 | 26.7 | 23.1 | 21.8 | 20.7 |
| 75° | 18.2 | 20.7 | 21.8 | 20.7 | 19.4 | 18.2 | 18.2 | 15.8 | 13.4 | 12.1 | 12.1 |
| 77.5° | 18.2 | 19.4 | 18.2 | 15.8 | 13.4 | 12.1 | 11.0 | 9.7 | 7.3 | 6.1 | 7.3 |
| 80° | 15.8 | 15.8 | 15.8 | 13.4 | 12.1 | 11.0 | 9.7 | 8.5 | 7.3 | 6.1 | 6.1 |
| 82.5° | 17.0 | 17.0 | 15.8 | 13.4 | 13.4 | 11.0 | 11.0 | 9.7 | 8.5 | 6.1 | 6.1 |
| 85° | 0.0 | 0.0 | 0.0 | 2.4 | 6.1 | 11.0 | 11.0 | 9.7 | 8.5 | 7.3 | 7.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.4 | 4.9 | 6.1 | 7.3 | 7.3 | 7.3 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 |
| 2.5° | 2681.0 | 2727.2 | 2814.6 | 2902.0 | 2955.4 | 3018.5 | 3132.7 | 3193.5 | 3272.4 | 3311.2 | 3387.7 |
| 5° | 2160.1 | 2269.4 | 2308.3 | 2407.8 | 2514.7 | 2621.6 | 2791.6 | 2978.5 | 3134.0 | 3240.8 | 3379.2 |
| 7.5° | 1576.1 | 1601.5 | 1752.1 | 1818.9 | 1993.8 | 2188.0 | 2419.9 | 2655.5 | 2852.2 | 3027.1 | 3132.7 |
| 10° | 1181.5 | 1275.0 | 1369.6 | 1497.2 | 1638.0 | 1838.3 | 2060.5 | 2320.4 | 2575.4 | 2750.2 | 2883.8 |
| 12.5° | 949.5 | 1023.6 | 1149.9 | 1287.1 | 1460.7 | 1593.1 | 1816.5 | 2073.9 | 2404.2 | 2575.4 | 2751.5 |
| 15° | 718.8 | 813.5 | 956.8 | 1098.9 | 1282.2 | 1421.8 | 1647.7 | 1971.9 | 2396.9 | 2632.4 | 2784.3 |
| 17.5° | 533.1 | 597.4 | 726.1 | 885.2 | 1072.2 | 1268.9 | 1573.7 | 1960.9 | 2478.3 | 2758.7 | 2915.3 |
| 20° | 407.9 | 429.9 | 511.2 | 653.3 | 856.1 | 1113.4 | 1453.4 | 2008.3 | 2718.7 | 3065.9 | 3225.0 |
| 22.5° | 330.3 | 340.0 | 371.5 | 469.9 | 666.6 | 977.4 | 1396.4 | 2041.1 | 2989.4 | 3433.8 | 3646.4 |
| 25° | 287.8 | 285.3 | 306.0 | 348.5 | 520.9 | 849.9 | 1323.5 | 2165.0 | 3320.9 | 3866.1 | 4056.7 |
| 27.5° | 262.3 | 262.3 | 272.0 | 302.3 | 432.3 | 767.4 | 1277.4 | 2253.6 | 3654.8 | 4246.1 | 4349.4 |
| 30° | 248.9 | 251.3 | 279.3 | 289.0 | 359.4 | 669.1 | 1200.9 | 2343.4 | 3974.2 | 4489.0 | 4631.1 |
| 32.5° | 230.7 | 221.0 | 214.9 | 239.2 | 302.3 | 580.4 | 1124.4 | 2381.1 | 4232.8 | 4786.5 | 4907.9 |
| 35° | 177.3 | 172.4 | 179.7 | 197.9 | 259.9 | 505.1 | 1039.4 | 2423.6 | 4530.3 | 5131.3 | 5155.7 |
| 37.5° | 160.3 | 159.0 | 164.0 | 179.7 | 218.5 | 439.6 | 978.7 | 2412.7 | 4757.4 | 5416.7 | 5351.1 |
| 40° | 148.1 | 148.1 | 151.7 | 165.1 | 195.5 | 393.4 | 915.6 | 2402.9 | 4977.1 | 5737.3 | 5545.4 |
| 42.5° | 138.4 | 138.4 | 144.5 | 153.0 | 185.8 | 363.1 | 868.2 | 2389.6 | 5161.7 | 5934.0 | 5659.5 |
| 45° | 125.0 | 128.7 | 138.4 | 146.9 | 188.2 | 342.4 | 833.0 | 2338.6 | 5224.8 | 5931.5 | 5604.9 |
| 47.5° | 115.3 | 120.2 | 129.9 | 142.0 | 170.0 | 336.4 | 808.7 | 2293.7 | 5203.0 | 5785.8 | 5433.7 |
| 50° | 104.5 | 110.5 | 123.9 | 144.5 | 144.5 | 324.2 | 783.2 | 2333.7 | 5187.2 | 5672.9 | 5269.7 |
| 52° | 97.2 | 102.0 | 119.0 | 140.9 | 126.3 | 298.7 | 767.4 | 2411.5 | 5251.6 | 5658.3 | 5196.9 |
| 52.5° | 95.9 | 99.6 | 115.3 | 138.4 | 120.2 | 293.9 | 756.5 | 2429.6 | 5272.2 | 5621.9 | 5246.7 |
| 55° | 85.0 | 89.9 | 105.6 | 108.1 | 98.3 | 241.6 | 721.2 | 2471.0 | 5170.2 | 5550.2 | 5199.4 |
| 57.5° | 80.1 | 82.6 | 93.5 | 88.6 | 85.0 | 182.1 | 620.4 | 2406.6 | 4592.2 | 4929.8 | 4837.5 |
| 60° | 74.1 | 76.5 | 87.5 | 69.2 | 71.6 | 127.5 | 466.3 | 2089.7 | 3687.6 | 4107.8 | 4274.1 |
| 62.5° | 71.6 | 70.4 | 82.6 | 55.8 | 60.7 | 92.3 | 329.1 | 1698.7 | 2841.3 | 3381.6 | 3669.4 |
| 65° | 63.1 | 61.9 | 59.5 | 47.4 | 52.2 | 71.6 | 196.7 | 1108.6 | 2002.3 | 2558.4 | 2716.2 |
| 67.5° | 48.5 | 51.0 | 43.7 | 37.7 | 43.7 | 55.8 | 109.3 | 496.7 | 1050.3 | 1534.8 | 1662.3 |
| 70° | 34.0 | 36.4 | 35.2 | 32.8 | 38.8 | 46.1 | 63.1 | 170.0 | 434.7 | 806.3 | 888.8 |
| 72.5° | 20.7 | 25.5 | 26.7 | 28.0 | 34.0 | 40.1 | 44.9 | 54.7 | 115.3 | 285.3 | 354.5 |
| 75° | 12.1 | 17.0 | 20.7 | 24.3 | 28.0 | 34.0 | 37.7 | 38.8 | 40.1 | 53.4 | 86.2 |
| 77.5° | 8.5 | 12.1 | 18.2 | 23.1 | 28.0 | 34.0 | 40.1 | 42.5 | 40.1 | 37.7 | 40.1 |
| 80° | 7.3 | 12.1 | 17.0 | 21.8 | 29.1 | 35.2 | 40.1 | 40.1 | 38.8 | 34.0 | 36.4 |
| 82.5° | 7.3 | 12.1 | 18.2 | 23.1 | 28.0 | 34.0 | 38.8 | 40.1 | 36.4 | 34.0 | 35.2 |
| 85° | 8.5 | 13.4 | 19.4 | 24.3 | 30.4 | 28.0 | 25.5 | 20.7 | 19.4 | 15.8 | 17.0 |
| 87.5° | 8.5 | 12.1 | 12.1 | 13.4 | 14.6 | 14.6 | 14.6 | 13.4 | 11.0 | 9.7 | 9.7 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 | 3103.6 |
| 2.5° | 3391.3 | 3488.5 | 3484.8 | 3487.2 | 3472.7 | 3374.3 | 3327.0 | 3206.8 | 3240.8 | 3226.2 |
| 5° | 3521.3 | 3617.2 | 3699.8 | 3690.0 | 3578.3 | 3444.8 | 3246.9 | 3059.9 | 3008.8 | 2933.6 |
| 7.5° | 3391.3 | 3622.1 | 3698.6 | 3687.6 | 3522.5 | 3351.2 | 3035.6 | 2848.6 | 2759.9 | 2710.2 |
| 10° | 3184.9 | 3452.1 | 3546.8 | 3566.2 | 3454.5 | 3194.6 | 2904.5 | 2604.5 | 2557.2 | 2471.0 |
| 12.5° | 3067.2 | 3261.4 | 3319.7 | 3371.9 | 3333.1 | 3138.8 | 2804.9 | 2517.1 | 2451.5 | 2394.5 |
| 15° | 2971.3 | 3086.6 | 3110.9 | 3170.4 | 3193.5 | 3089.0 | 2857.1 | 2611.8 | 2450.3 | 2444.2 |
| 17.5° | 3059.9 | 3012.5 | 2923.9 | 2942.0 | 3014.9 | 3090.2 | 2991.8 | 2798.8 | 2642.2 | 2622.7 |
| 20° | 3206.8 | 2998.0 | 2797.6 | 2842.5 | 2903.2 | 3134.0 | 3195.9 | 3059.9 | 2970.0 | 2920.2 |
| 22.5° | 3375.6 | 3023.4 | 2757.5 | 2779.3 | 2894.8 | 3232.3 | 3526.2 | 3450.8 | 3283.3 | 3211.6 |
| 25° | 3687.6 | 3093.9 | 2789.1 | 2803.7 | 2961.5 | 3369.5 | 3824.8 | 3880.7 | 3781.1 | 3766.5 |
| 27.5° | 3992.4 | 3276.0 | 2858.3 | 2825.5 | 2995.5 | 3503.1 | 4005.7 | 4305.6 | 4130.8 | 4096.8 |
| 30° | 4147.8 | 3424.1 | 2961.5 | 2905.6 | 3136.4 | 3584.4 | 4115.1 | 4582.5 | 4429.5 | 4413.7 |
| 32.5° | 4385.8 | 3558.9 | 3041.6 | 2970.0 | 3215.3 | 3685.2 | 4319.0 | 4884.8 | 4736.7 | 4657.8 |
| 35° | 4485.3 | 3705.9 | 3217.7 | 3134.0 | 3441.1 | 3826.1 | 4423.5 | 5154.4 | 5108.3 | 5031.8 |
| 37.5° | 4677.3 | 3863.7 | 3425.3 | 3420.5 | 3714.3 | 4009.4 | 4611.6 | 5521.1 | 5512.6 | 5380.2 |
| 40° | 4693.0 | 4036.1 | 3753.2 | 3906.2 | 4136.9 | 4328.7 | 4776.8 | 5623.1 | 5761.5 | 5671.7 |
| 42.5° | 4717.3 | 4338.4 | 4320.2 | 4446.5 | 4644.4 | 4603.2 | 4782.9 | 5647.4 | 5858.6 | 5805.2 |
| 45° | 4728.2 | 4640.8 | 4897.0 | 5130.1 | 5212.7 | 4962.6 | 4725.8 | 5601.3 | 5909.7 | 5776.1 |
| 47.5° | 4640.8 | 4900.6 | 5363.2 | 5813.8 | 5838.0 | 5183.5 | 4701.5 | 5553.9 | 5940.0 | 5851.4 |
| 50° | 4652.9 | 5063.3 | 5766.4 | 6169.5 | 6080.9 | 5379.1 | 4663.9 | 5524.8 | 5924.3 | 5864.7 |
| 52° | 4623.8 | 5066.9 | 5823.5 | 6162.2 | 6100.3 | 5271.0 | 4599.5 | 5413.0 | 5909.7 | 5952.1 |
| 52.5° | 4656.6 | 5045.1 | 5764.0 | 6167.1 | 6087.0 | 5324.4 | 4591.0 | 5475.0 | 5918.1 | 5831.9 |
| 55° | 4543.7 | 4785.3 | 5415.5 | 5586.7 | 5574.6 | 4832.7 | 4329.9 | 5269.7 | 5695.9 | 5697.2 |
| 57.5° | 4106.5 | 4147.8 | 4247.4 | 4243.7 | 4187.9 | 3799.4 | 3703.4 | 4846.0 | 5077.9 | 4951.6 |
| 60° | 3618.4 | 3036.8 | 2768.5 | 2659.1 | 2597.2 | 2534.1 | 3276.0 | 4433.2 | 4455.0 | 4401.6 |
| 62.5° | 3126.7 | 2105.5 | 1748.5 | 1718.1 | 1732.7 | 1963.5 | 3166.7 | 4269.2 | 4138.1 | 4022.7 |
| 65° | 2523.1 | 1534.8 | 1270.1 | 1230.0 | 1372.1 | 1621.0 | 2563.2 | 3273.6 | 3072.0 | 2976.1 |
| 67.5° | 1584.6 | 1119.5 | 858.5 | 783.2 | 954.4 | 1115.9 | 1684.2 | 2056.9 | 1831.0 | 1698.7 |
| 70° | 939.8 | 625.3 | 388.5 | 348.5 | 392.2 | 595.0 | 943.4 | 1026.0 | 848.8 | 780.7 |
| 72.5° | 370.4 | 229.5 | 108.1 | 92.3 | 95.9 | 208.8 | 347.3 | 338.8 | 256.2 | 228.2 |
| 75° | 99.6 | 69.2 | 37.7 | 30.4 | 25.5 | 38.8 | 55.8 | 36.4 | 13.4 | 17.0 |
| 77.5° | 46.1 | 41.3 | 32.8 | 25.5 | 19.4 | 14.6 | 7.3 | 2.4 | 2.4 | 1.3 |
| 80° | 40.1 | 35.2 | 30.4 | 25.5 | 19.4 | 12.1 | 6.1 | 1.3 | 1.3 | 1.3 |
| 82.5° | 37.7 | 32.8 | 28.0 | 23.1 | 18.2 | 12.1 | 6.1 | 1.3 | 0.0 | 0.0 |
| 85° | 15.8 | 20.7 | 23.1 | 21.8 | 19.4 | 12.1 | 6.1 | 1.3 | 0.0 | 0.0 |
| 87.5° | 8.5 | 7.3 | 6.1 | 4.9 | 3.7 | 2.4 | 2.4 | 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 |

(END OF REPORT)