

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: P533817

Luminaire Tested: **GALN-SA9B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35847 lumens
Efficiency: N/A
Efficacy: 98.5 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

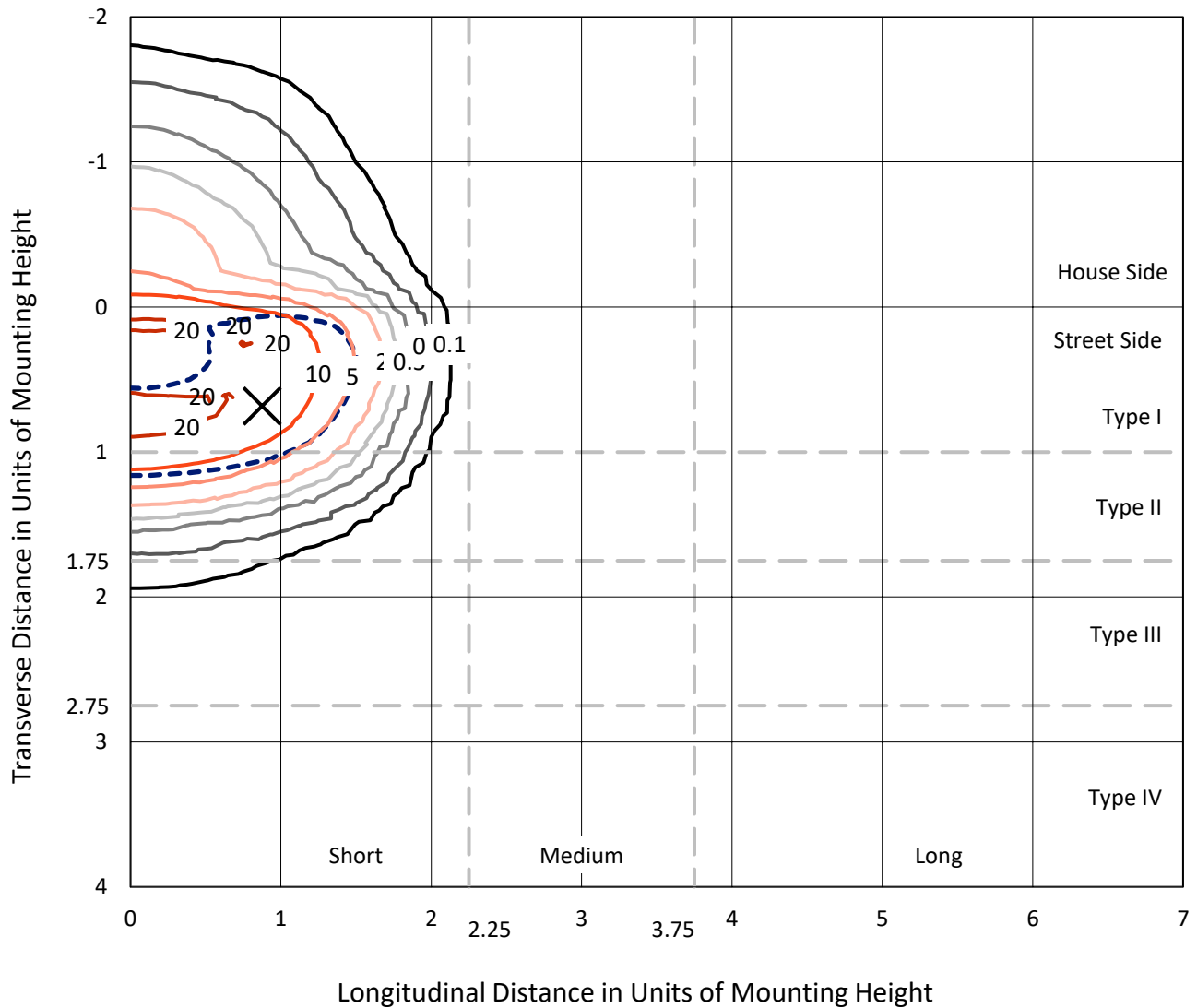
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

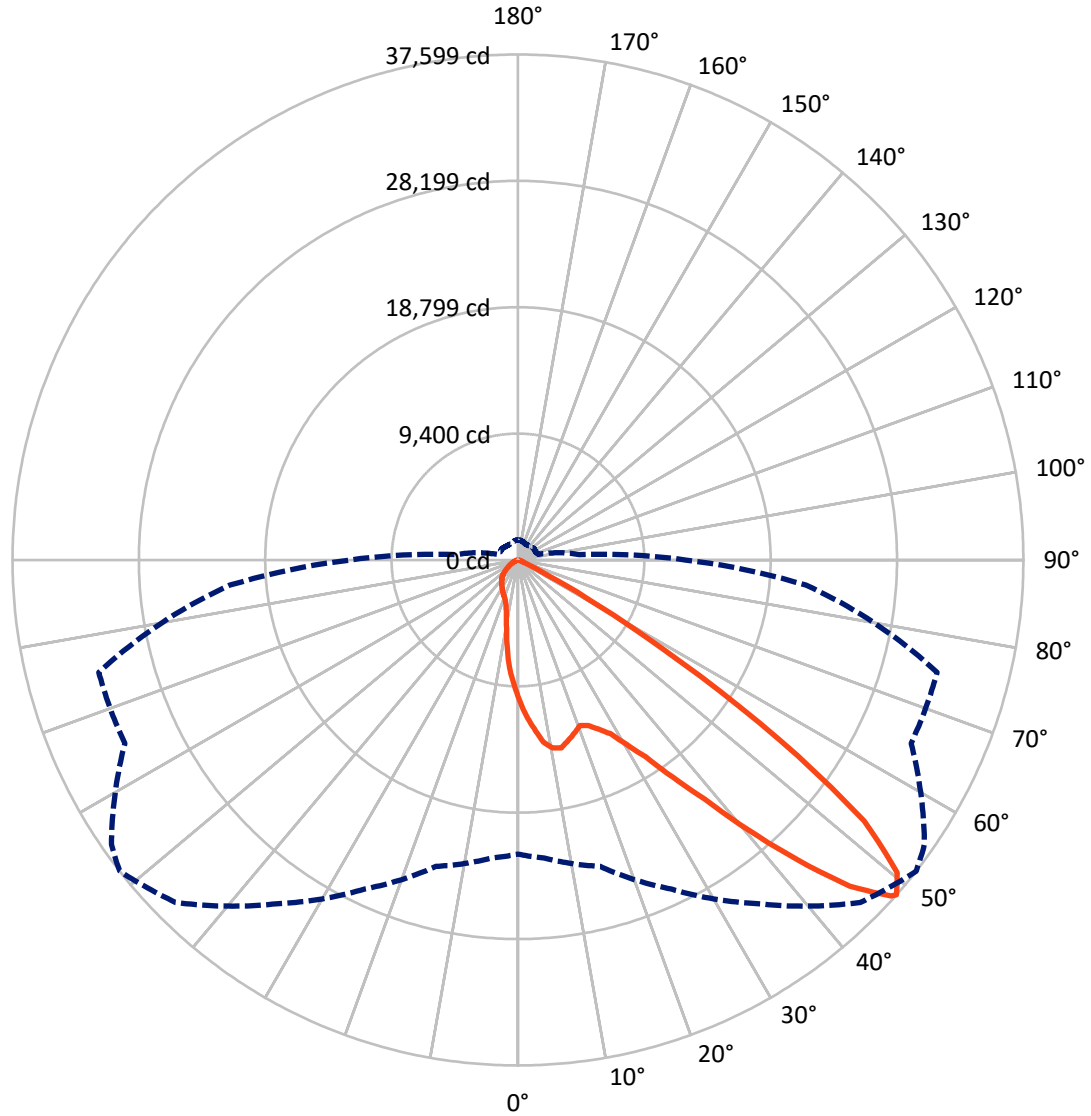
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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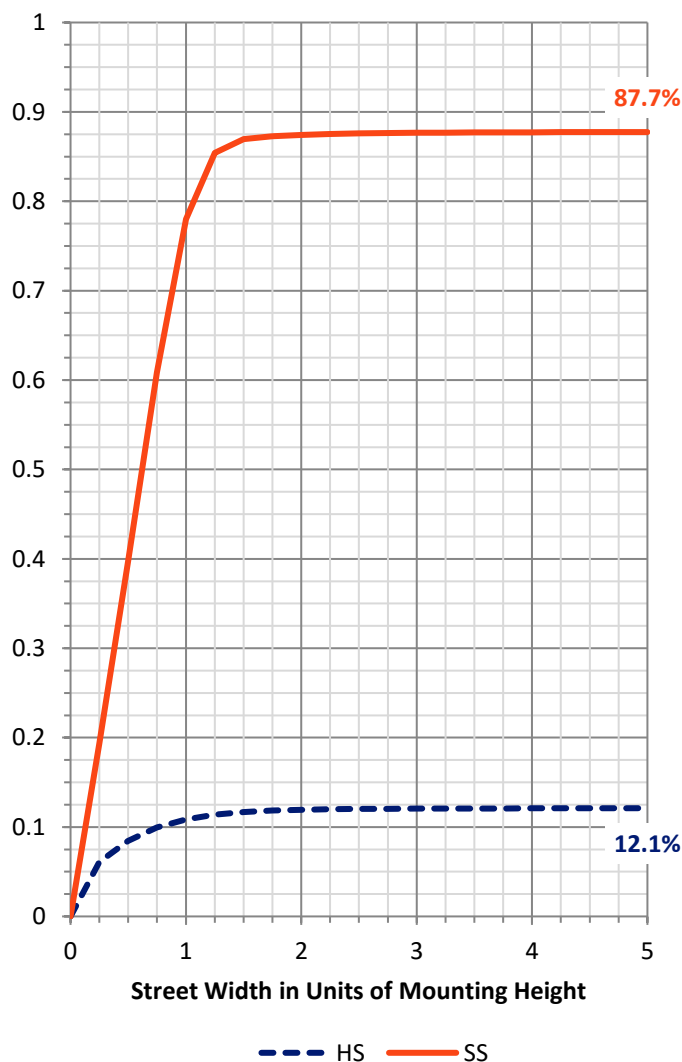
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4364.7 | 0.0 | 4364.7 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 31482.4 | 0.0 | 31482.4 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 35847.0 | 0.0 | 35847.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 947.5 | 2.6 |
| 10°-20° | 2476.2 | 6.9 |
| 20°-30° | 4227.8 | 11.8 |
| 30°-40° | 7785.6 | 21.7 |
| 40°-50° | 12091.0 | 33.7 |
| 50°-60° | 7276.7 | 20.3 |
| 60°-70° | 841.6 | 2.3 |
| 70°-80° | 162.9 | 0.5 |
| 80°-90° | 37.7 | 0.1 |
| 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° | 35847.0 | 100.0 |
| 0°-180° | 35847.0 | 100.0 |

Coefficient of Utilization



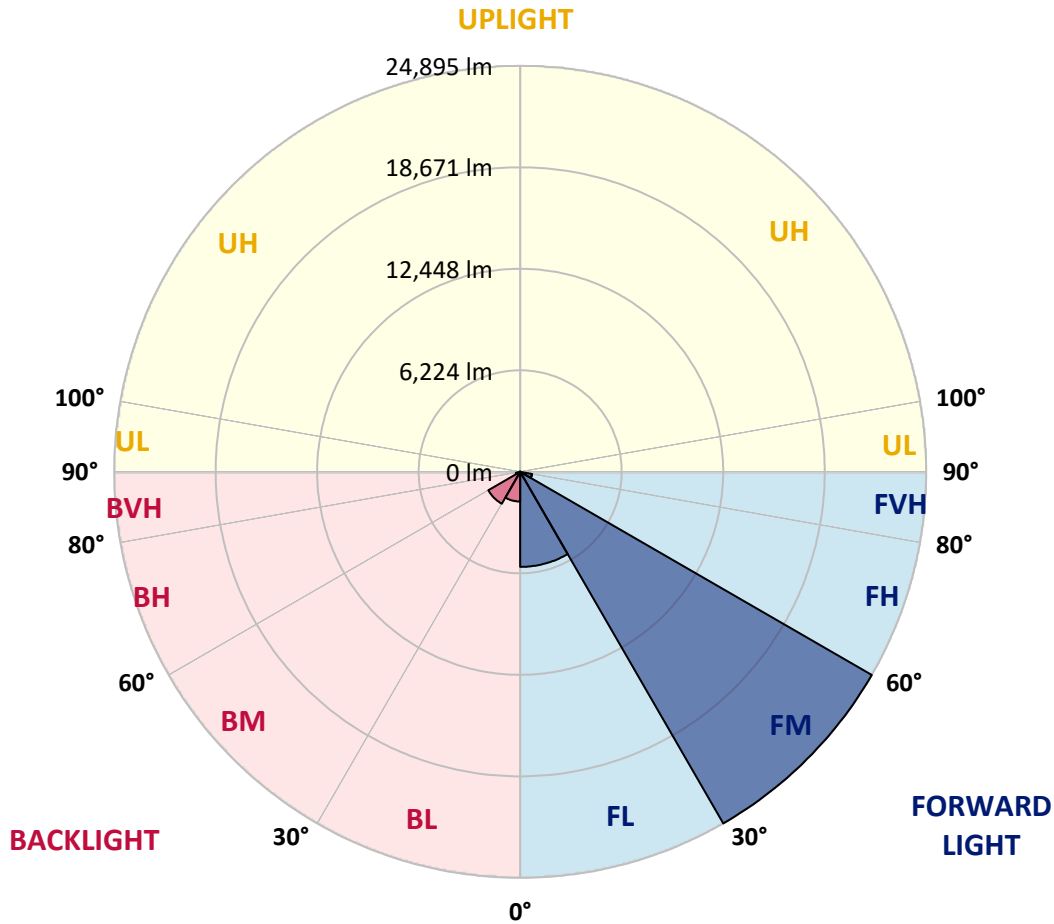
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5828.3 | 16.3 | | | |
| FM (30°-60°) | 24895.0 | 69.4 | | | |
| FH (60°-80°) | 741.1 | 2.1 | | | G1/1800 |
| FVH (80°-90°) | 17.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1823.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2258.2 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 263.4 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.8 | 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° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 |
| 2.5° | 12546.8 | 12259.4 | 12285.5 | 12097.4 | 11987.6 | 11810.0 | 11569.6 | 11522.6 | 11261.3 | 10905.9 | 10545.4 |
| 5° | 13675.5 | 13607.6 | 13696.4 | 13424.7 | 13435.2 | 13142.5 | 12578.1 | 12588.6 | 11987.6 | 11407.6 | 10848.5 |
| 7.5° | 13748.7 | 13591.9 | 13680.8 | 13921.1 | 14062.2 | 14010.0 | 13691.2 | 13414.3 | 12844.7 | 11992.9 | 11177.7 |
| 10° | 12311.6 | 12609.5 | 12703.6 | 13100.7 | 13665.1 | 14260.8 | 14224.2 | 14239.9 | 13764.4 | 12651.3 | 11459.9 |
| 12.5° | 11449.4 | 11250.8 | 11569.6 | 11810.0 | 12661.8 | 13816.6 | 14344.4 | 14459.4 | 14496.0 | 13288.8 | 11742.0 |
| 15° | 11057.5 | 11057.5 | 11109.7 | 11177.7 | 11794.3 | 12860.3 | 13936.8 | 14271.3 | 15060.3 | 14124.9 | 12186.2 |
| 17.5° | 11303.1 | 11292.6 | 11365.8 | 11224.7 | 11454.6 | 12275.1 | 13560.6 | 13942.0 | 15692.6 | 14945.4 | 12536.3 |
| 20° | 12050.4 | 12086.9 | 12039.9 | 11632.3 | 11648.0 | 12264.6 | 13142.5 | 13743.5 | 16121.1 | 15656.1 | 13001.4 |
| 22.5° | 13090.3 | 13111.2 | 12844.7 | 12400.5 | 12269.8 | 12572.9 | 13382.9 | 13842.8 | 16466.0 | 16507.8 | 13142.5 |
| 25° | 14292.2 | 14208.5 | 14156.3 | 13529.2 | 13132.1 | 13393.3 | 13926.4 | 14192.9 | 16680.3 | 17239.4 | 13544.9 |
| 27.5° | 15959.1 | 15791.9 | 15473.2 | 14914.0 | 14621.4 | 14250.4 | 14631.8 | 15070.8 | 17291.7 | 18263.7 | 13983.8 |
| 30° | 18420.4 | 18274.1 | 17652.3 | 16931.1 | 16162.9 | 15797.1 | 15917.3 | 16157.7 | 18394.3 | 19449.9 | 14563.9 |
| 32.5° | 22125.4 | 21817.1 | 20918.3 | 19543.9 | 18498.8 | 17490.3 | 17458.9 | 17715.0 | 19381.9 | 21090.7 | 15253.7 |
| 35° | 26206.6 | 26112.6 | 24790.5 | 23374.3 | 21352.0 | 19794.8 | 19820.9 | 19956.8 | 21273.6 | 23243.7 | 16157.7 |
| 37.5° | 28918.8 | 29436.1 | 28594.8 | 27074.1 | 25375.8 | 23149.6 | 22585.3 | 22632.3 | 23870.8 | 25793.8 | 17788.1 |
| 40° | 31014.2 | 30575.3 | 30674.6 | 30319.2 | 29159.1 | 27643.7 | 26394.8 | 26149.2 | 26875.5 | 28615.7 | 19408.1 |
| 42.5° | 30099.8 | 30120.7 | 30732.1 | 31573.4 | 31860.8 | 31751.1 | 30476.0 | 30010.9 | 29446.6 | 30925.4 | 20949.6 |
| 45° | 27518.3 | 28056.5 | 28850.8 | 31077.0 | 33031.4 | 34865.6 | 34614.7 | 33841.3 | 31223.3 | 32754.4 | 21838.0 |
| 47.5° | 23400.5 | 23379.6 | 24680.8 | 27575.8 | 31918.3 | 36213.8 | 37353.0 | 36809.5 | 32482.7 | 32550.6 | 21655.1 |
| 48° | 21879.8 | 22256.1 | 23599.0 | 27006.2 | 31212.8 | 36015.2 | 37598.6 | 36914.0 | 32268.4 | 32278.9 | 21498.3 |
| 50° | 16173.4 | 16105.5 | 17777.7 | 21958.2 | 27878.9 | 33841.3 | 36563.9 | 37096.9 | 32263.2 | 30904.5 | 20400.9 |
| 52.5° | 8543.9 | 8836.6 | 10054.2 | 13806.2 | 19711.2 | 27696.0 | 32252.7 | 33083.6 | 31124.0 | 28657.5 | 18822.8 |
| 55° | 3631.8 | 3281.7 | 4217.1 | 6234.2 | 11088.8 | 18504.0 | 23661.8 | 25511.6 | 26316.4 | 25360.1 | 16466.0 |
| 57.5° | 1296.0 | 1416.2 | 1630.4 | 2346.3 | 4661.3 | 10127.3 | 14109.3 | 15546.3 | 18232.3 | 18608.5 | 11219.5 |
| 60° | 830.9 | 846.6 | 914.5 | 1076.5 | 1750.6 | 3903.6 | 6694.1 | 7838.5 | 9056.1 | 9348.7 | 5236.1 |
| 62.5° | 642.8 | 648.0 | 679.3 | 705.5 | 830.9 | 1515.4 | 2513.5 | 2978.6 | 3093.6 | 2659.9 | 1374.3 |
| 65° | 538.2 | 543.5 | 553.9 | 553.9 | 590.5 | 710.7 | 877.9 | 966.7 | 940.6 | 930.2 | 778.6 |
| 67.5° | 412.8 | 423.3 | 444.2 | 444.2 | 465.1 | 433.7 | 486.0 | 517.3 | 585.3 | 710.7 | 663.7 |
| 70° | 324.0 | 329.2 | 344.9 | 355.3 | 355.3 | 313.5 | 350.1 | 381.5 | 428.5 | 527.8 | 522.6 |
| 72.5° | 250.8 | 261.3 | 271.7 | 271.7 | 256.1 | 214.3 | 250.8 | 277.0 | 308.3 | 365.8 | 355.3 |
| 75° | 193.3 | 193.3 | 198.6 | 162.0 | 125.4 | 109.7 | 151.5 | 182.9 | 229.9 | 240.4 | 198.6 |
| 77.5° | 52.3 | 57.5 | 52.3 | 47.0 | 52.3 | 78.4 | 99.3 | 115.0 | 146.3 | 146.3 | 130.6 |
| 80° | 0.0 | 5.2 | 15.7 | 31.4 | 52.3 | 73.2 | 88.8 | 99.3 | 115.0 | 125.4 | 120.2 |
| 82.5° | 0.0 | 5.2 | 15.7 | 31.4 | 47.0 | 57.5 | 78.4 | 83.6 | 94.1 | 109.7 | 109.7 |
| 85° | 0.0 | 5.2 | 10.5 | 20.9 | 31.4 | 36.6 | 36.6 | 31.4 | 31.4 | 26.1 | 20.9 |
| 87.5° | 0.0 | 0.0 | 5.2 | 10.5 | 10.5 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 | 10352.0 |
| 2.5° | 10404.3 | 10242.3 | 9996.7 | 9610.0 | 9239.0 | 8998.6 | 8768.6 | 8512.6 | 8371.5 | 8361.0 | 8282.7 |
| 5° | 10529.7 | 10163.9 | 9578.6 | 8915.0 | 8204.3 | 7592.9 | 6976.2 | 6573.9 | 6213.3 | 6014.7 | 5978.1 |
| 7.5° | 10597.6 | 10122.1 | 9176.2 | 8063.2 | 6850.8 | 5852.7 | 5162.9 | 4656.1 | 4457.5 | 4311.2 | 4305.9 |
| 10° | 10738.7 | 10048.9 | 8575.3 | 6934.4 | 5434.7 | 4426.1 | 3950.6 | 3720.7 | 3610.9 | 3569.1 | 3506.4 |
| 12.5° | 10843.2 | 9913.1 | 7958.7 | 5774.3 | 4295.5 | 3668.4 | 3459.4 | 3407.1 | 3412.4 | 3433.3 | 3407.1 |
| 15° | 10989.5 | 9792.9 | 7127.8 | 4739.7 | 3605.7 | 3302.6 | 3302.6 | 3313.1 | 3386.2 | 3396.7 | 3391.4 |
| 17.5° | 10979.1 | 9557.7 | 6270.8 | 3903.6 | 3187.6 | 3145.8 | 3161.5 | 3260.8 | 3307.8 | 3323.5 | 3286.9 |
| 20° | 11104.5 | 9338.2 | 5387.6 | 3334.0 | 2952.5 | 3015.2 | 3119.7 | 3145.8 | 3203.3 | 3213.8 | 3172.0 |
| 22.5° | 11067.9 | 8789.5 | 4567.2 | 2884.6 | 2774.8 | 2895.0 | 2999.5 | 3030.9 | 3015.2 | 2983.8 | 2978.6 |
| 25° | 11000.0 | 8319.2 | 3814.7 | 2586.7 | 2644.2 | 2774.8 | 2874.1 | 2816.6 | 2785.3 | 2790.5 | 2795.7 |
| 27.5° | 10879.8 | 7723.5 | 3192.9 | 2377.7 | 2466.5 | 2659.9 | 2654.6 | 2633.7 | 2665.1 | 2639.0 | 2665.1 |
| 30° | 10858.9 | 7127.8 | 2680.8 | 2189.5 | 2335.9 | 2477.0 | 2487.4 | 2524.0 | 2560.6 | 2513.5 | 2560.6 |
| 32.5° | 10890.3 | 6474.6 | 2315.0 | 2074.6 | 2257.5 | 2262.7 | 2377.7 | 2414.3 | 2388.1 | 2283.6 | 2294.1 |
| 35° | 11130.6 | 5972.9 | 2048.5 | 2011.9 | 2132.1 | 2137.3 | 2247.0 | 2200.0 | 2085.0 | 2022.3 | 2058.9 |
| 37.5° | 11637.5 | 5554.9 | 1923.0 | 1954.4 | 1964.8 | 2032.8 | 2038.0 | 1943.9 | 1954.4 | 1949.2 | 1970.1 |
| 40° | 12285.5 | 5236.1 | 1834.2 | 1902.1 | 1891.7 | 1938.7 | 1750.6 | 1802.9 | 1849.9 | 1865.6 | 1876.0 |
| 42.5° | 12729.7 | 5006.2 | 1776.7 | 1818.5 | 1797.6 | 1714.0 | 1609.5 | 1661.8 | 1698.3 | 1755.8 | 1766.3 |
| 45° | 12928.3 | 4823.3 | 1708.8 | 1672.2 | 1672.2 | 1520.7 | 1478.9 | 1489.3 | 1572.9 | 1635.6 | 1625.2 |
| 47.5° | 12604.3 | 4645.6 | 1588.6 | 1478.9 | 1515.4 | 1390.0 | 1343.0 | 1343.0 | 1431.8 | 1510.2 | 1494.5 |
| 48° | 12478.9 | 4572.4 | 1593.8 | 1437.1 | 1463.2 | 1369.1 | 1322.1 | 1311.6 | 1410.9 | 1484.1 | 1484.1 |
| 50° | 11857.0 | 4300.7 | 1458.0 | 1322.1 | 1269.8 | 1259.4 | 1228.0 | 1238.5 | 1301.2 | 1369.1 | 1369.1 |
| 52.5° | 10644.7 | 3715.4 | 1233.3 | 1134.0 | 1039.9 | 1102.6 | 1118.3 | 1097.4 | 1128.7 | 1191.4 | 1186.2 |
| 55° | 8883.6 | 2853.2 | 987.6 | 940.6 | 867.5 | 935.4 | 966.7 | 940.6 | 909.3 | 956.3 | 956.3 |
| 57.5° | 5690.7 | 1536.3 | 789.1 | 799.5 | 726.4 | 794.3 | 820.4 | 757.7 | 700.2 | 736.8 | 731.6 |
| 60° | 2565.8 | 919.7 | 648.0 | 632.3 | 585.3 | 663.7 | 705.5 | 632.3 | 553.9 | 580.0 | 606.2 |
| 62.5° | 961.5 | 653.2 | 491.2 | 480.8 | 470.3 | 543.5 | 564.4 | 506.9 | 428.5 | 444.2 | 449.4 |
| 65° | 705.5 | 574.8 | 391.9 | 355.3 | 376.2 | 428.5 | 418.1 | 360.6 | 308.3 | 308.3 | 318.8 |
| 67.5° | 601.0 | 501.7 | 318.8 | 277.0 | 277.0 | 282.2 | 261.3 | 229.9 | 214.3 | 224.7 | 235.2 |
| 70° | 470.3 | 397.1 | 250.8 | 214.3 | 193.3 | 172.4 | 151.5 | 146.3 | 130.6 | 146.3 | 141.1 |
| 72.5° | 303.1 | 266.5 | 193.3 | 162.0 | 146.3 | 120.2 | 99.3 | 94.1 | 78.4 | 73.2 | 73.2 |
| 75° | 162.0 | 162.0 | 151.5 | 130.6 | 115.0 | 94.1 | 78.4 | 62.7 | 41.8 | 31.4 | 31.4 |
| 77.5° | 115.0 | 125.4 | 135.9 | 125.4 | 104.5 | 78.4 | 62.7 | 41.8 | 20.9 | 10.5 | 10.5 |
| 80° | 109.7 | 125.4 | 135.9 | 120.2 | 104.5 | 78.4 | 57.5 | 31.4 | 15.7 | 5.2 | 5.2 |
| 82.5° | 99.3 | 115.0 | 125.4 | 109.7 | 94.1 | 67.9 | 52.3 | 31.4 | 15.7 | 5.2 | 5.2 |
| 85° | 20.9 | 26.1 | 31.4 | 31.4 | 36.6 | 47.0 | 36.6 | 26.1 | 10.5 | 5.2 | 5.2 |
| 87.5° | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 10.5 | 10.5 | 5.2 | 5.2 | 5.2 |
| 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)