

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: P532145

Luminaire Tested: **GALN-SA7C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24906 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

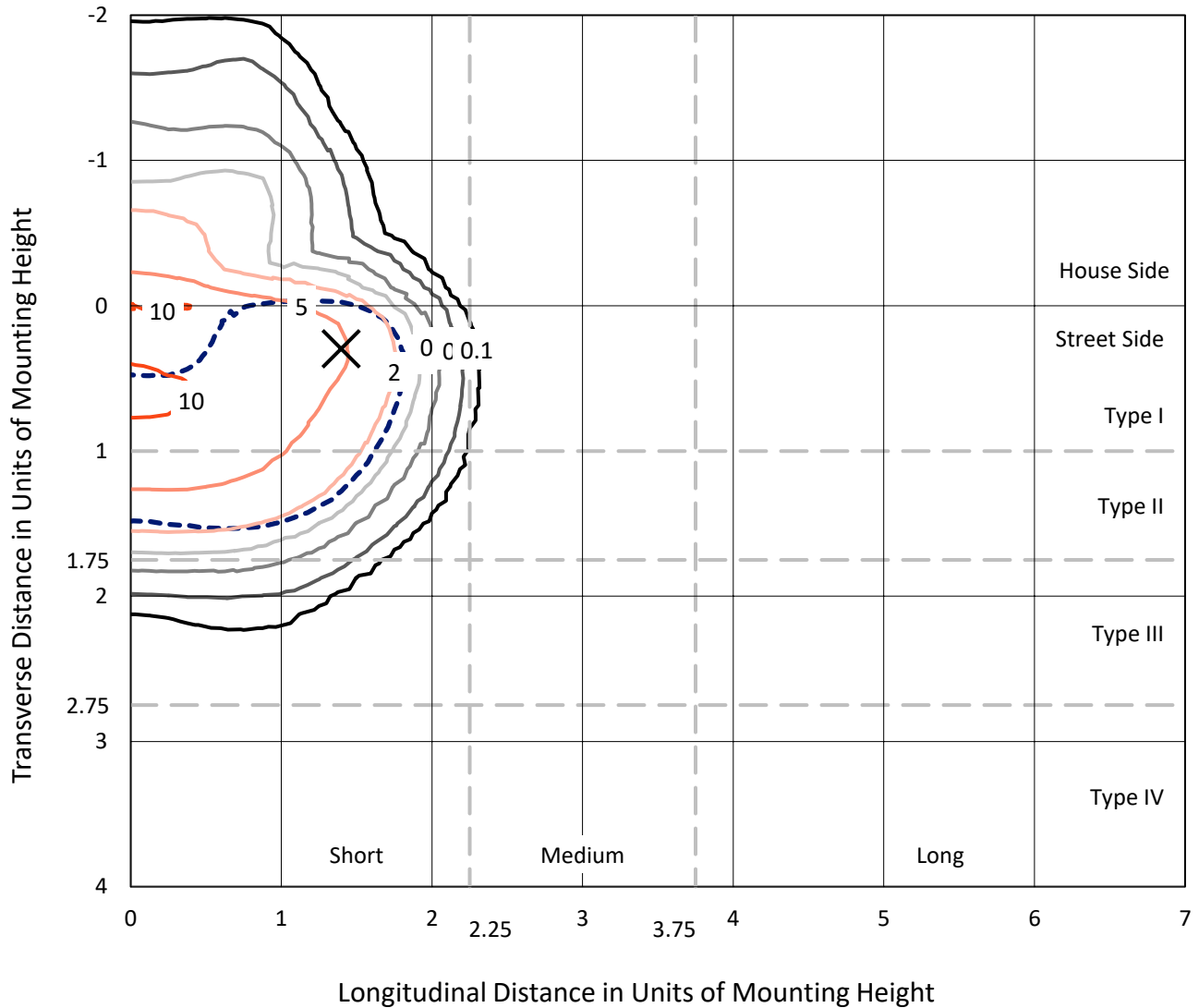
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

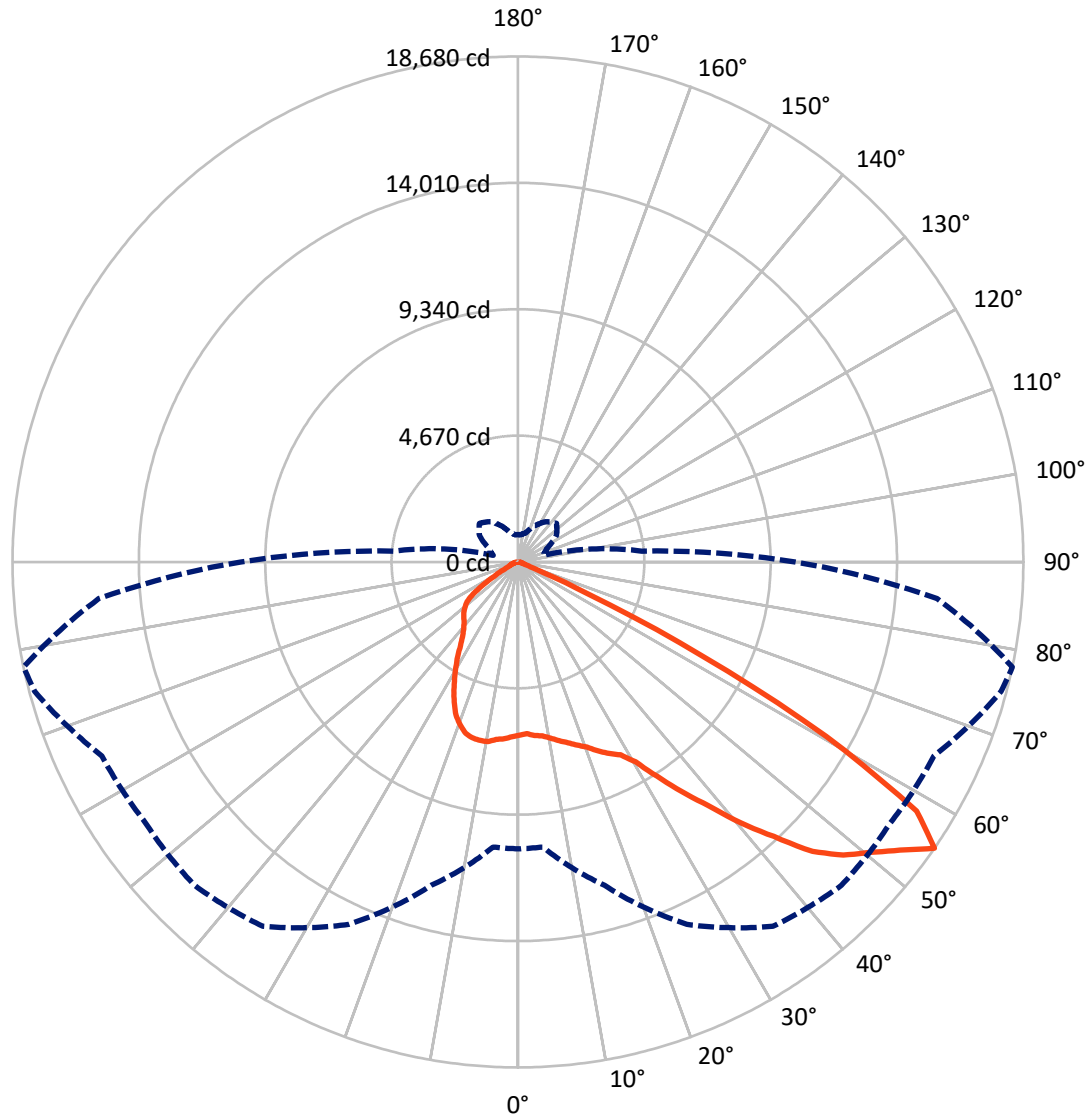
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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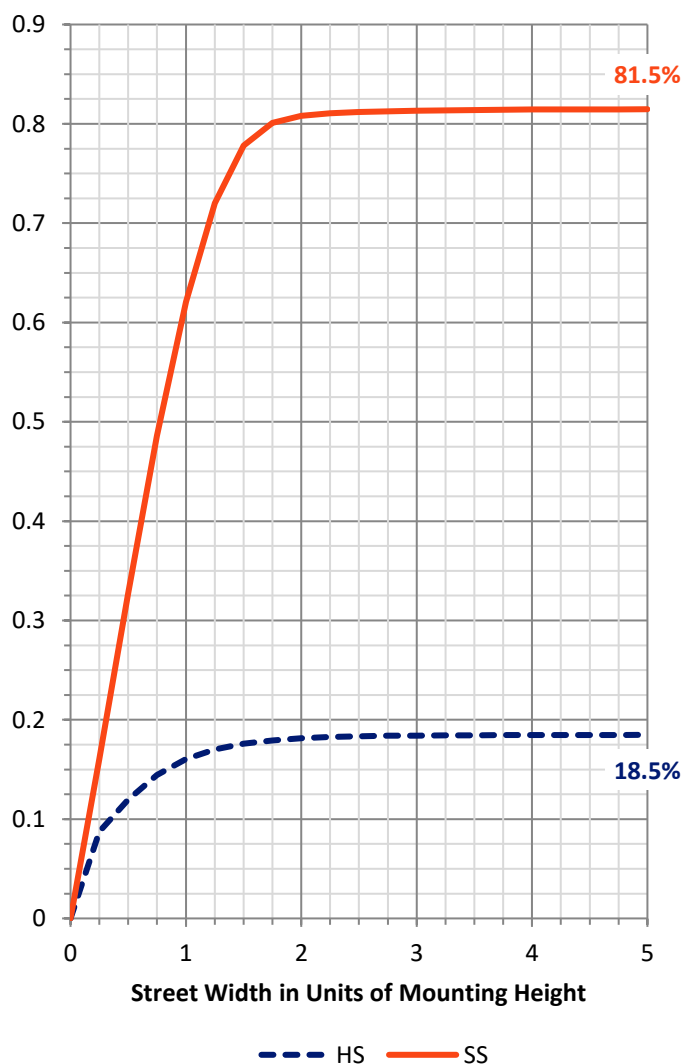
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4626.0 | 0.0 | 4626.0 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 20280.0 | 0.0 | 20280.0 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 24906.0 | 0.0 | 24906.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 571.0 | 2.3 |
| 10°-20° | 1511.1 | 6.1 |
| 20°-30° | 2648.7 | 10.6 |
| 30°-40° | 4367.3 | 17.5 |
| 40°-50° | 6355.0 | 25.5 |
| 50°-60° | 7200.9 | 28.9 |
| 60°-70° | 2058.9 | 8.3 |
| 70°-80° | 159.9 | 0.6 |
| 80°-90° | 33.3 | 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° | 24906.0 | 100.0 |
| 0°-180° | 24906.0 | 100.0 |

Coefficient of Utilization



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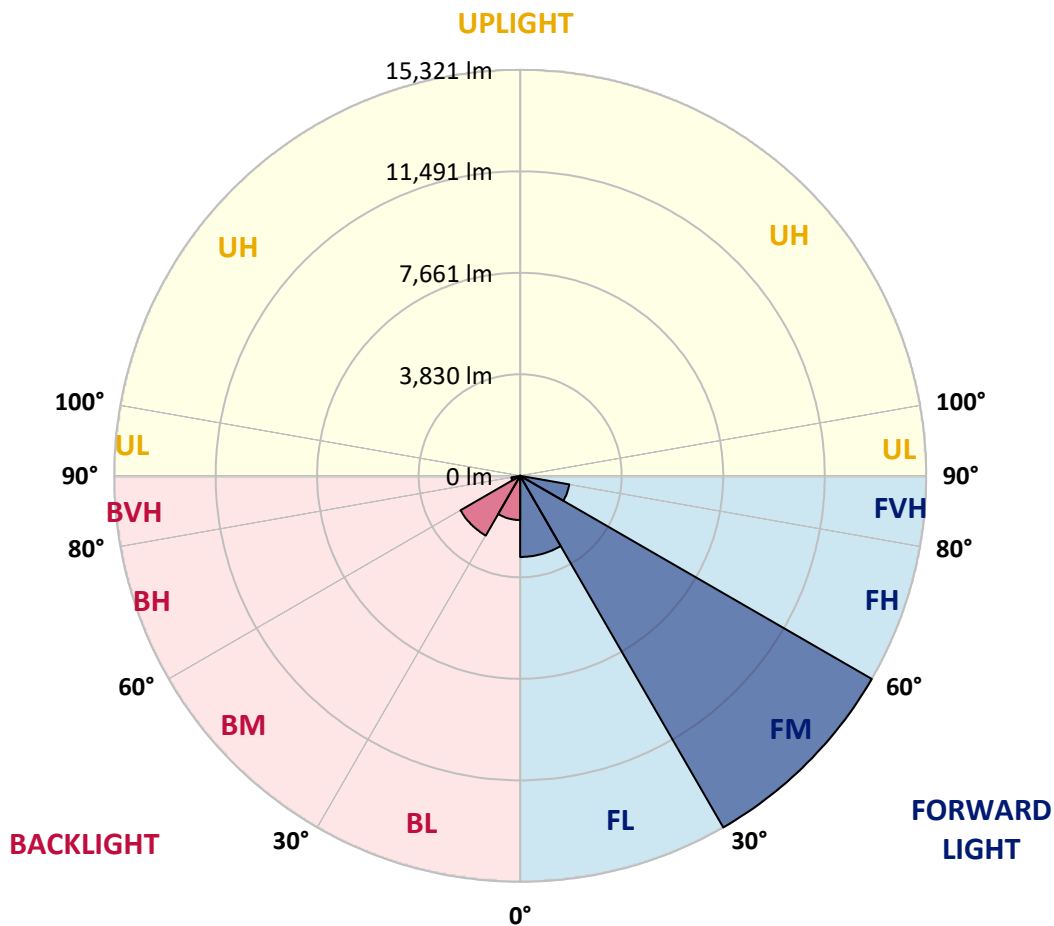
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3061.7 | 12.3 | | | |
| FM (30°-60°) | 15321.1 | 61.5 | | | |
| FH (60°-80°) | 1881.1 | 7.6 | | | G2/5000 |
| FVH (80°-90°) | 16.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1669.1 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 2602.2 | 10.4 | B3/5000 | | |
| BH (60°-80°) | 337.7 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.1 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 |
| 2.5° | 6020.4 | 6078.3 | 6087.2 | 6158.4 | 6154.0 | 6274.2 | 6309.8 | 6314.3 | 6394.4 | 6354.4 | 6456.8 |
| 5° | 5851.2 | 5820.0 | 5806.7 | 5931.3 | 5967.0 | 6073.8 | 6162.9 | 6216.3 | 6381.1 | 6439.0 | 6545.8 |
| 7.5° | 5699.8 | 5699.8 | 5708.7 | 5820.0 | 5806.7 | 5944.7 | 6038.2 | 6203.0 | 6443.4 | 6492.4 | 6621.5 |
| 10° | 5552.8 | 5499.4 | 5566.2 | 5682.0 | 5779.9 | 5842.3 | 6038.2 | 6194.1 | 6474.6 | 6617.1 | 6795.2 |
| 12.5° | 5477.1 | 5503.9 | 5512.8 | 5597.4 | 5704.2 | 5891.3 | 5998.1 | 6256.4 | 6697.2 | 6781.8 | 6973.3 |
| 15° | 5953.6 | 5900.2 | 5771.0 | 5695.3 | 5784.4 | 5873.4 | 6140.6 | 6403.3 | 6813.0 | 6933.2 | 7147.0 |
| 17.5° | 6505.8 | 6461.2 | 6354.4 | 6149.5 | 5949.1 | 6113.9 | 6323.2 | 6563.7 | 6937.7 | 7115.8 | 7432.0 |
| 20° | 7227.1 | 7155.9 | 7049.0 | 6648.3 | 6474.6 | 6296.5 | 6519.1 | 6804.1 | 7142.5 | 7302.8 | 7627.9 |
| 22.5° | 8086.6 | 8086.6 | 7846.1 | 7360.7 | 7000.0 | 6830.8 | 6924.3 | 7089.1 | 7369.6 | 7587.8 | 7908.4 |
| 25° | 8981.6 | 8954.9 | 8736.7 | 8233.5 | 7623.5 | 7423.1 | 7529.9 | 7645.7 | 7721.4 | 7841.7 | 8055.4 |
| 27.5° | 10005.8 | 9849.9 | 9573.9 | 9017.2 | 8478.4 | 8091.0 | 8206.8 | 8104.4 | 8010.9 | 8073.2 | 8380.5 |
| 30° | 10700.4 | 10798.4 | 10446.6 | 9912.3 | 9404.6 | 8972.7 | 8995.0 | 8905.9 | 8478.4 | 8567.5 | 8750.1 |
| 32.5° | 11421.8 | 11484.2 | 11288.2 | 10994.3 | 10486.7 | 9983.5 | 9801.0 | 9725.3 | 9404.6 | 9444.7 | 9266.6 |
| 35° | 12023.0 | 12143.2 | 11969.5 | 11840.4 | 11693.5 | 11288.2 | 10785.1 | 11030.0 | 10513.4 | 10415.5 | 9952.4 |
| 37.5° | 12575.1 | 12539.5 | 12744.4 | 12610.8 | 12579.6 | 12294.6 | 11742.4 | 11791.4 | 11444.1 | 11421.8 | 10887.5 |
| 40° | 13069.4 | 13078.3 | 13358.9 | 13421.2 | 13296.5 | 12788.9 | 11987.4 | 12374.8 | 12655.3 | 12682.0 | 11996.3 |
| 42.5° | 13479.1 | 13599.3 | 13839.8 | 14343.0 | 14155.9 | 13309.9 | 12241.2 | 12664.2 | 13706.2 | 13871.0 | 13047.2 |
| 45° | 13835.3 | 14080.2 | 14378.6 | 14828.3 | 14721.5 | 14049.1 | 12873.5 | 13260.9 | 14828.3 | 15260.3 | 14035.7 |
| 47.5° | 13857.6 | 14178.2 | 14503.3 | 15171.2 | 15304.8 | 14445.4 | 13528.1 | 14204.9 | 15718.9 | 16186.5 | 14757.1 |
| 50° | 13768.5 | 13937.7 | 14587.9 | 15313.7 | 15616.5 | 15091.1 | 14445.4 | 14997.5 | 16582.8 | 16876.7 | 15122.2 |
| 52.5° | 12713.2 | 12842.3 | 14147.0 | 15447.3 | 16177.6 | 15821.3 | 15661.0 | 16101.9 | 17464.5 | 17682.7 | 15465.1 |
| 55° | 10598.0 | 10575.8 | 12370.3 | 14774.9 | 16435.9 | 16903.4 | 16805.4 | 16961.3 | 18484.2 | 18680.1 | 15549.7 |
| 57.5° | 7249.4 | 7654.6 | 9204.3 | 12303.5 | 14855.1 | 16649.6 | 16752.0 | 16493.7 | 17295.3 | 17371.0 | 13554.8 |
| 60° | 3909.7 | 4078.9 | 5325.7 | 8211.2 | 11310.5 | 13568.1 | 13835.3 | 13367.8 | 13305.4 | 13091.7 | 9676.3 |
| 62.5° | 1554.1 | 1638.7 | 2346.7 | 4065.5 | 6162.9 | 8246.9 | 8821.3 | 8629.8 | 8220.2 | 7659.1 | 5009.6 |
| 65° | 739.2 | 792.6 | 1166.7 | 1901.4 | 2734.1 | 3437.7 | 4012.1 | 4190.2 | 3090.3 | 2783.1 | 1652.0 |
| 67.5° | 503.2 | 543.3 | 850.5 | 1086.5 | 975.2 | 1019.7 | 1327.0 | 1233.5 | 725.8 | 619.0 | 458.7 |
| 70° | 383.0 | 409.7 | 681.3 | 739.2 | 436.4 | 307.3 | 342.9 | 320.6 | 298.3 | 302.8 | 298.3 |
| 72.5° | 271.6 | 293.9 | 498.7 | 436.4 | 191.5 | 142.5 | 182.6 | 218.2 | 218.2 | 218.2 | 213.7 |
| 75° | 164.8 | 187.0 | 289.4 | 169.2 | 75.7 | 75.7 | 115.8 | 146.9 | 155.9 | 160.3 | 151.4 |
| 77.5° | 84.6 | 106.9 | 98.0 | 49.0 | 49.0 | 57.9 | 84.6 | 102.4 | 111.3 | 111.3 | 106.9 |
| 80° | 17.8 | 17.8 | 17.8 | 26.7 | 49.0 | 62.3 | 84.6 | 93.5 | 106.9 | 106.9 | 98.0 |
| 82.5° | 0.0 | 4.5 | 13.4 | 26.7 | 44.5 | 57.9 | 80.2 | 93.5 | 106.9 | 111.3 | 102.4 |
| 85° | 0.0 | 4.5 | 8.9 | 17.8 | 31.2 | 35.6 | 31.2 | 26.7 | 26.7 | 26.7 | 26.7 |
| 87.5° | 0.0 | 0.0 | 4.5 | 4.5 | 4.5 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| 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° | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 | 6403.3 |
| 2.5° | 6465.7 | 6479.0 | 6456.8 | 6452.3 | 6434.5 | 6488.0 | 6358.8 | 6327.6 | 6407.8 | 6332.1 | 6349.9 |
| 5° | 6550.3 | 6581.5 | 6541.4 | 6474.6 | 6376.6 | 6225.2 | 6096.1 | 5926.9 | 5846.7 | 5788.8 | 5779.9 |
| 7.5° | 6612.6 | 6634.9 | 6594.8 | 6381.1 | 6087.2 | 5704.2 | 5419.2 | 5210.0 | 5045.2 | 4996.2 | 4916.1 |
| 10° | 6866.5 | 6870.9 | 6670.5 | 6198.5 | 5624.1 | 5120.9 | 4684.5 | 4363.9 | 4199.1 | 4096.7 | 4052.2 |
| 12.5° | 7035.7 | 7026.8 | 6621.5 | 5837.8 | 5071.9 | 4404.0 | 3905.2 | 3517.8 | 3366.4 | 3317.5 | 3286.3 |
| 15° | 7249.4 | 7200.4 | 6505.8 | 5468.2 | 4359.4 | 3638.1 | 3188.3 | 2921.1 | 2907.8 | 2876.6 | 2907.8 |
| 17.5° | 7418.6 | 7280.6 | 6336.6 | 4795.8 | 3678.1 | 2996.8 | 2702.9 | 2720.8 | 2756.4 | 2787.5 | 2792.0 |
| 20° | 7694.7 | 7409.7 | 5949.1 | 4208.0 | 3045.8 | 2569.4 | 2564.9 | 2645.1 | 2734.1 | 2769.7 | 2805.4 |
| 22.5° | 7904.0 | 7463.2 | 5535.0 | 3580.2 | 2529.3 | 2395.7 | 2471.4 | 2591.6 | 2658.4 | 2694.0 | 2747.5 |
| 25° | 7979.7 | 7316.2 | 4982.9 | 2952.3 | 2279.9 | 2315.5 | 2431.3 | 2511.5 | 2596.1 | 2636.1 | 2613.9 |
| 27.5° | 8055.4 | 7240.5 | 4323.8 | 2431.3 | 2146.3 | 2262.1 | 2360.1 | 2440.2 | 2466.9 | 2520.4 | 2556.0 |
| 30° | 8238.0 | 6977.8 | 3731.6 | 2101.8 | 2079.5 | 2226.5 | 2297.7 | 2324.4 | 2395.7 | 2426.9 | 2426.9 |
| 32.5° | 8384.9 | 6875.4 | 3103.7 | 1945.9 | 2070.6 | 2244.3 | 2253.2 | 2253.2 | 2262.1 | 2239.8 | 2230.9 |
| 35° | 8687.7 | 6523.6 | 2542.6 | 1852.4 | 2066.2 | 2248.7 | 2271.0 | 2195.3 | 1990.5 | 1910.3 | 1888.1 |
| 37.5° | 9061.8 | 6296.5 | 2128.5 | 1830.2 | 2097.3 | 2302.2 | 2337.8 | 2052.8 | 1785.6 | 1656.5 | 1634.2 |
| 40° | 9516.0 | 6136.2 | 1856.9 | 1821.3 | 2168.6 | 2426.9 | 2320.0 | 1941.5 | 1594.2 | 1407.1 | 1398.2 |
| 42.5° | 10045.9 | 5989.2 | 1674.3 | 1816.8 | 2257.6 | 2556.0 | 2302.2 | 1848.0 | 1398.2 | 1273.5 | 1291.4 |
| 45° | 10468.9 | 5909.1 | 1549.6 | 1785.6 | 2288.8 | 2631.7 | 2315.5 | 1683.2 | 1318.1 | 1237.9 | 1246.8 |
| 47.5° | 10798.4 | 5739.9 | 1447.2 | 1732.2 | 2284.4 | 2658.4 | 2195.3 | 1616.4 | 1278.0 | 1300.3 | 1322.5 |
| 50° | 10807.3 | 5512.8 | 1318.1 | 1616.4 | 2217.6 | 2609.4 | 2057.3 | 1554.1 | 1269.1 | 1362.6 | 1407.1 |
| 52.5° | 10687.1 | 5192.1 | 1180.0 | 1451.7 | 2061.7 | 2440.2 | 1932.6 | 1527.4 | 1229.0 | 1220.1 | 1273.5 |
| 55° | 10259.6 | 4591.0 | 948.5 | 1175.6 | 1741.1 | 2012.7 | 1821.3 | 1478.4 | 1108.8 | 1006.4 | 1015.3 |
| 57.5° | 8291.4 | 3290.7 | 699.1 | 841.6 | 1233.5 | 1473.9 | 1643.1 | 1456.1 | 997.5 | 855.0 | 859.4 |
| 60° | 5134.3 | 1865.8 | 512.1 | 574.4 | 761.5 | 895.0 | 1331.4 | 1353.7 | 890.6 | 721.4 | 712.5 |
| 62.5° | 2636.1 | 921.8 | 396.3 | 405.2 | 467.6 | 525.4 | 912.9 | 1135.5 | 806.0 | 685.8 | 685.8 |
| 65° | 881.7 | 454.2 | 347.3 | 311.7 | 311.7 | 325.1 | 552.2 | 788.2 | 681.3 | 574.4 | 574.4 |
| 67.5° | 378.5 | 338.4 | 302.8 | 271.6 | 249.4 | 236.0 | 311.7 | 458.7 | 507.6 | 436.4 | 418.6 |
| 70° | 293.9 | 285.0 | 262.7 | 227.1 | 195.9 | 178.1 | 182.6 | 236.0 | 289.4 | 280.5 | 271.6 |
| 72.5° | 218.2 | 218.2 | 209.3 | 178.1 | 151.4 | 129.1 | 120.2 | 124.7 | 138.0 | 142.5 | 146.9 |
| 75° | 151.4 | 155.9 | 155.9 | 138.0 | 111.3 | 93.5 | 80.2 | 66.8 | 53.4 | 44.5 | 40.1 |
| 77.5° | 102.4 | 106.9 | 115.8 | 102.4 | 84.6 | 62.3 | 49.0 | 35.6 | 22.3 | 8.9 | 8.9 |
| 80° | 89.1 | 102.4 | 111.3 | 102.4 | 89.1 | 66.8 | 49.0 | 26.7 | 13.4 | 0.0 | 0.0 |
| 82.5° | 93.5 | 102.4 | 115.8 | 98.0 | 84.6 | 62.3 | 49.0 | 31.2 | 13.4 | 4.5 | 0.0 |
| 85° | 22.3 | 22.3 | 26.7 | 31.2 | 40.1 | 44.5 | 35.6 | 22.3 | 13.4 | 4.5 | 0.0 |
| 87.5° | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 4.5 | 4.5 | 4.5 | 4.5 | 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)