

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: P954157

Luminaire Tested: **GALN-SB7C-730-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 54167 lumens  
Efficiency: N/A  
Efficacy: 154.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 350.5  
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

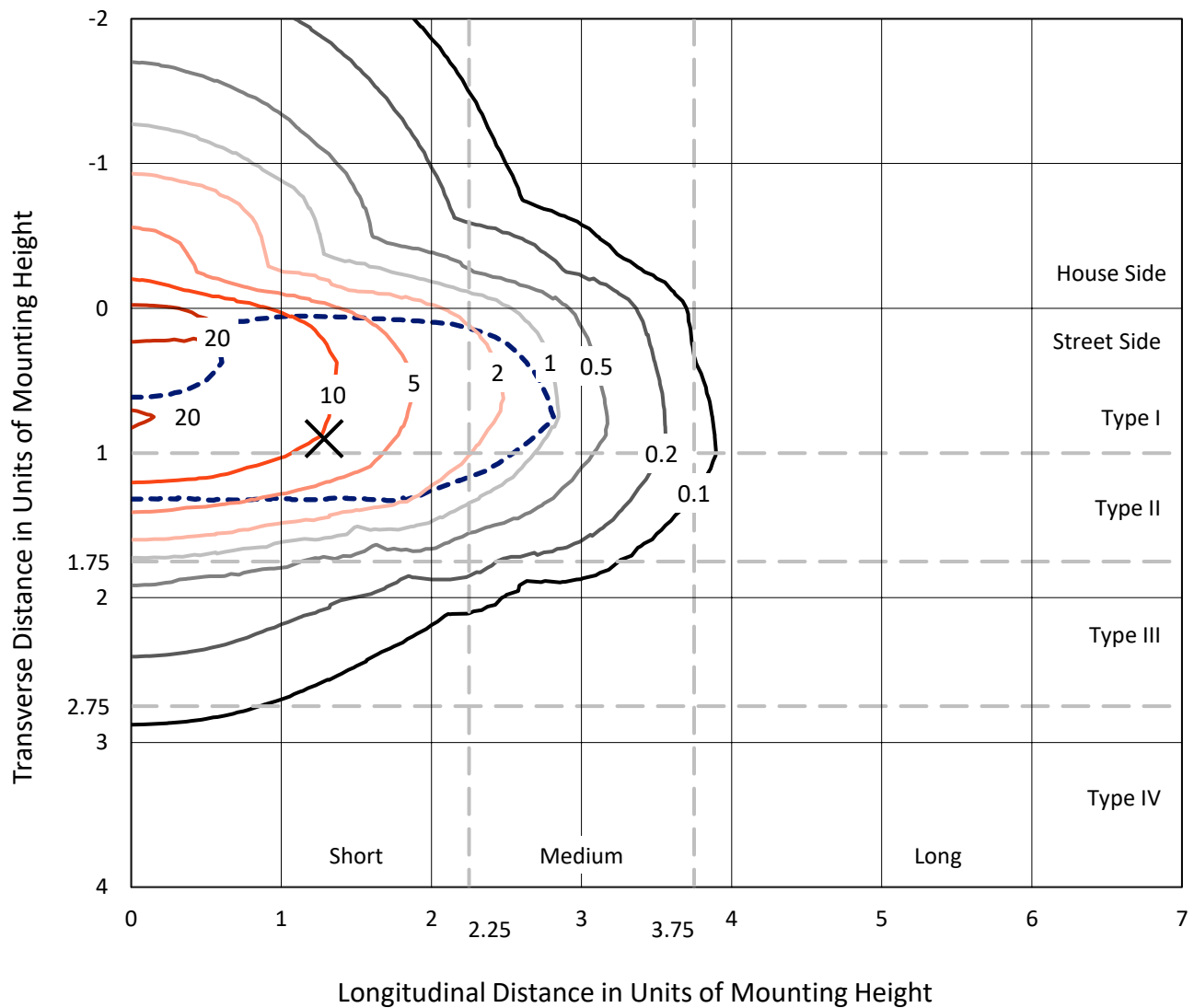


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

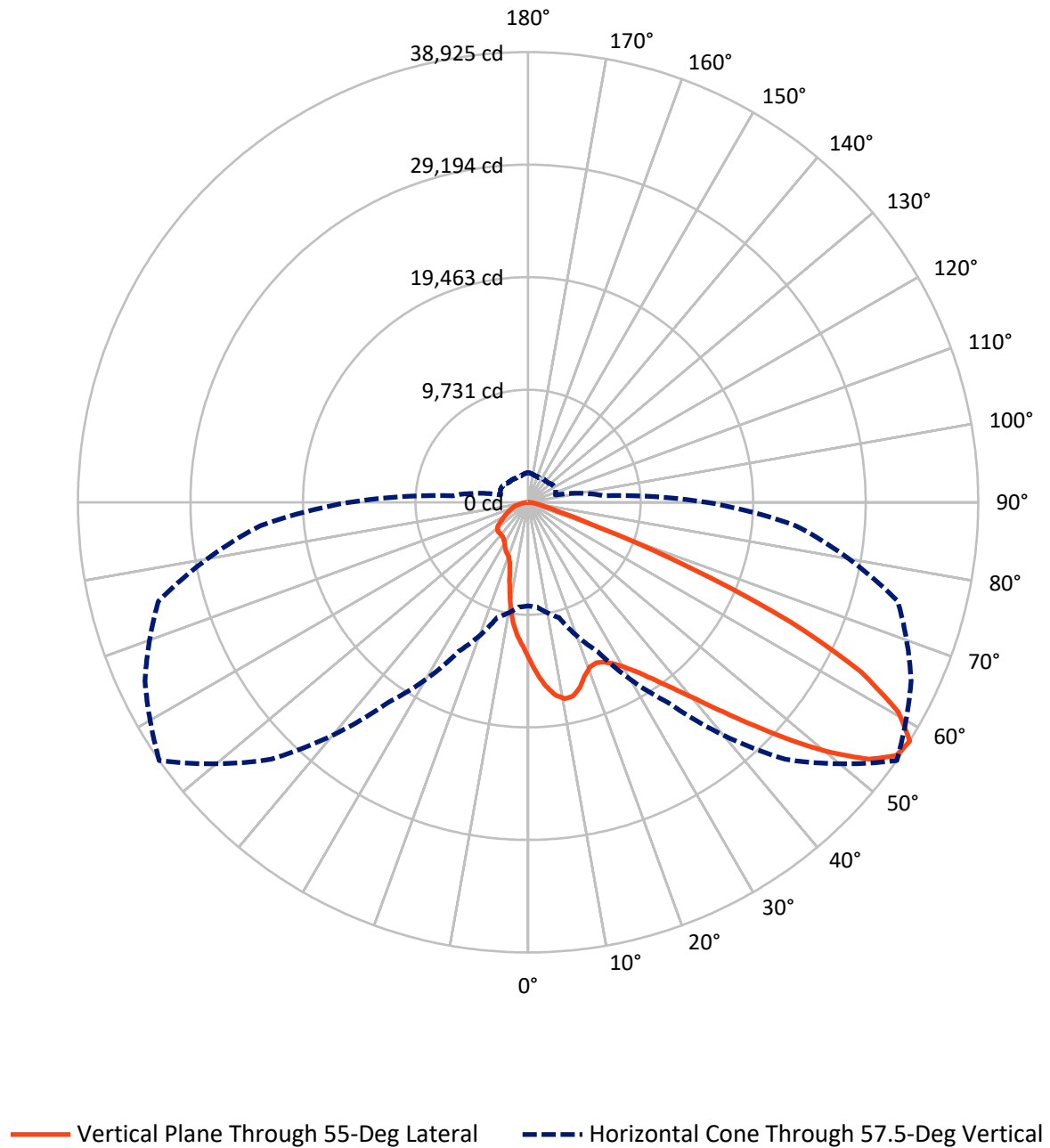


Based on 25 foot mounting height. Maximum calculated value = 26.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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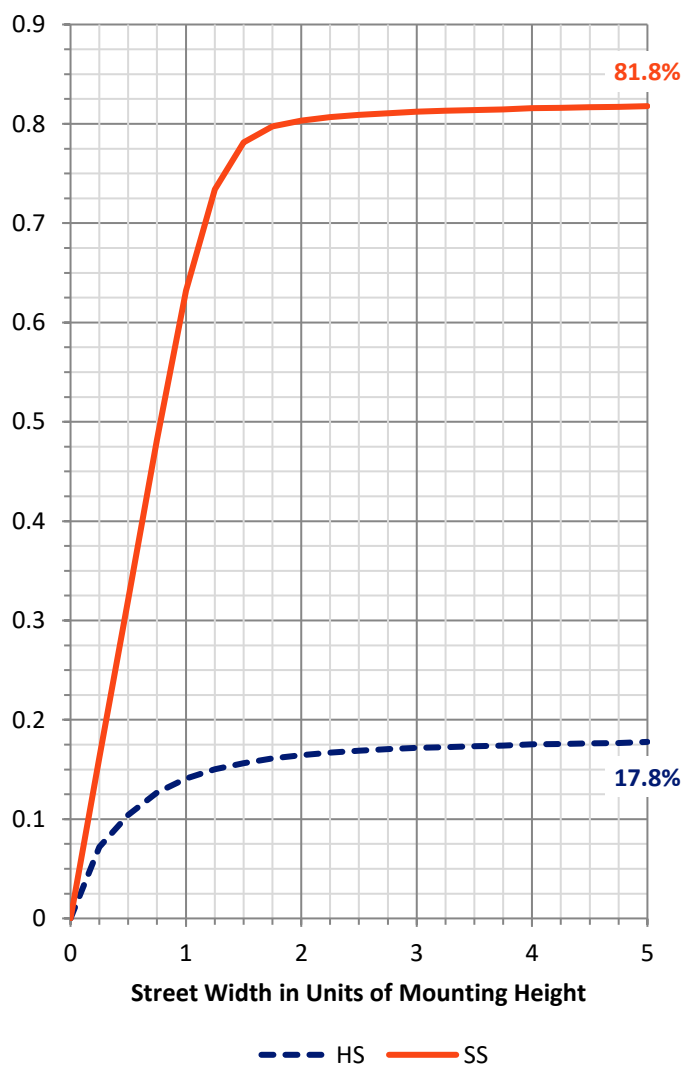
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9801.2   | 0.0    | 9801.2  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 44365.7  | 0.0    | 44365.7 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 54167.0  | 0.0    | 54167.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1259.4  | 2.3       |
| 10°-20°   | 3178.9  | 5.9       |
| 20°-30°   | 5072.6  | 9.4       |
| 30°-40°   | 8031.2  | 14.8      |
| 40°-50°   | 12292.6 | 22.7      |
| 50°-60°   | 13166.5 | 24.3      |
| 60°-70°   | 8283.1  | 15.3      |
| 70°-80°   | 2449.5  | 4.5       |
| 80°-90°   | 433.1   | 0.8       |
| 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°    | 54167.0 | 100.0     |
| 0°-180°   | 54167.0 | 100.0     |

**Coefficient of Utilization**



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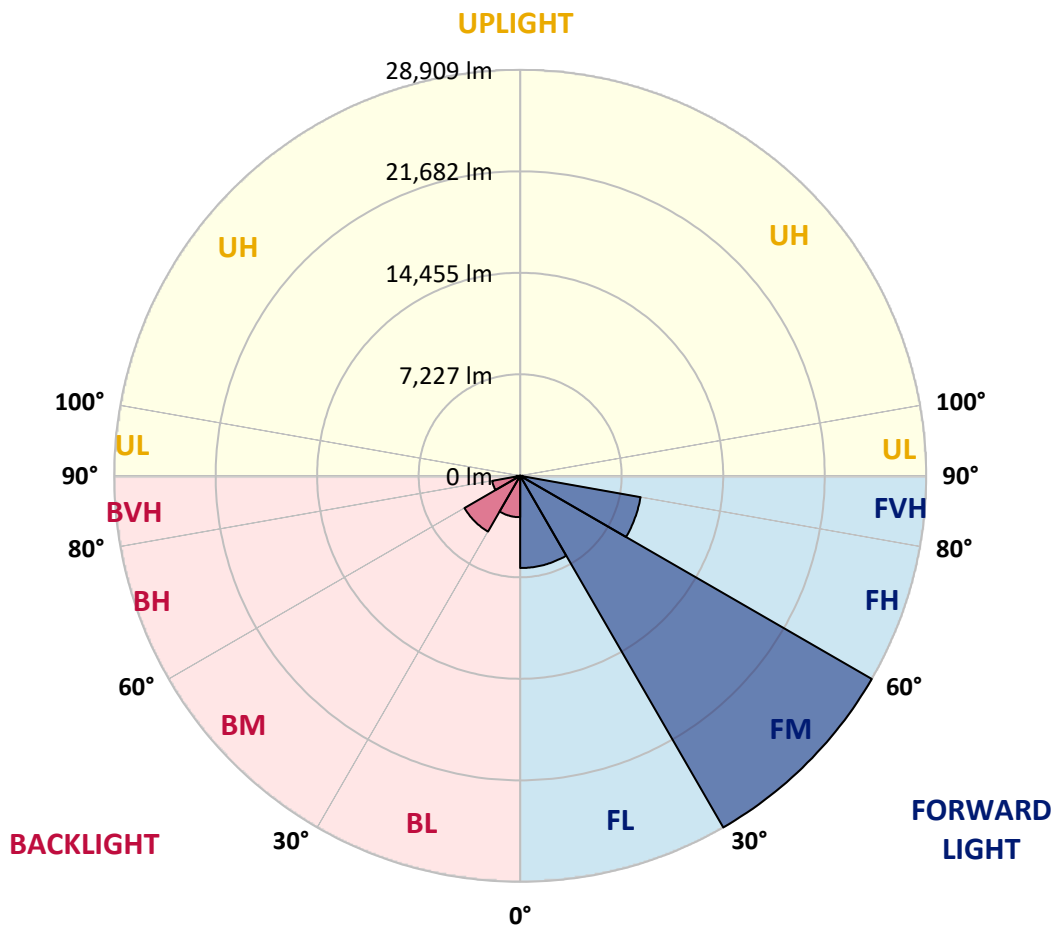
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 6565.0  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 28909.3 | 53.4      |                         |      |          |
| FH   | (60°-80°)   | 8708.4  | 16.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 183.0   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2945.9  | 5.4       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 4581.0  | 8.5       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2024.2  | 3.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 250.1   | 0.5       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 |
| 2.5°  | 15571.8 | 15560.6 | 15622.2 | 15412.2 | 15269.4 | 15076.2 | 14821.4 | 14496.6 | 14146.5 | 13776.9 | 13617.3 |
| 5°    | 16974.7 | 16876.7 | 16941.1 | 16784.3 | 16627.5 | 16336.3 | 15958.2 | 15429.0 | 14782.2 | 14045.7 | 13653.7 |
| 7.5°  | 16753.5 | 16686.3 | 16851.5 | 16991.5 | 17109.1 | 17072.7 | 16795.5 | 16241.1 | 15406.6 | 14336.9 | 13768.5 |
| 10°   | 14969.8 | 14894.2 | 15126.6 | 15611.0 | 16322.3 | 16941.1 | 17277.1 | 16932.7 | 16045.1 | 14656.2 | 13880.5 |
| 12.5° | 13396.1 | 13359.7 | 13513.7 | 13905.7 | 14695.4 | 15882.6 | 17215.5 | 17537.6 | 16708.7 | 15034.2 | 14031.7 |
| 15°   | 12724.0 | 12679.2 | 12777.2 | 12976.1 | 13480.1 | 14586.2 | 16655.5 | 17952.0 | 17361.1 | 15471.0 | 14272.5 |
| 17.5° | 12575.6 | 12525.2 | 12567.2 | 12670.8 | 12995.7 | 13838.5 | 15809.8 | 18156.4 | 18041.6 | 15958.2 | 14474.2 |
| 20°   | 12850.0 | 12808.0 | 12813.6 | 12808.0 | 13034.9 | 13704.1 | 15221.8 | 18078.0 | 18635.2 | 16406.3 | 14670.2 |
| 22.5° | 13513.7 | 13443.7 | 13446.5 | 13298.1 | 13421.3 | 13939.3 | 15067.8 | 17868.0 | 19164.5 | 16798.3 | 14818.6 |
| 25°   | 14594.6 | 14468.6 | 14493.8 | 14115.7 | 14082.1 | 14465.8 | 15308.6 | 17705.6 | 19690.9 | 17111.9 | 14846.6 |
| 27.5° | 16073.1 | 15930.2 | 15854.6 | 15291.8 | 15023.0 | 15213.4 | 15798.6 | 17761.6 | 20189.3 | 17383.5 | 14776.6 |
| 30°   | 17921.2 | 17747.6 | 17593.6 | 16795.5 | 16308.3 | 16238.3 | 16560.3 | 18131.2 | 20777.4 | 17669.2 | 14656.2 |
| 32.5° | 20186.5 | 19984.9 | 19704.9 | 18646.4 | 17960.4 | 17593.6 | 17546.0 | 18789.2 | 21466.2 | 18033.2 | 14594.6 |
| 35°   | 22883.1 | 22619.9 | 22222.3 | 20853.0 | 19984.9 | 19234.5 | 18845.2 | 19738.5 | 22409.9 | 18582.0 | 14664.6 |
| 37.5° | 25660.9 | 25364.1 | 25000.0 | 23370.3 | 22303.5 | 21197.4 | 20430.1 | 21026.6 | 23667.2 | 19326.9 | 14849.4 |
| 40°   | 28223.1 | 27889.8 | 27551.0 | 26100.5 | 24955.2 | 23622.4 | 22370.7 | 22656.3 | 25204.5 | 20217.3 | 15163.0 |
| 42.5° | 29735.2 | 29488.7 | 29359.9 | 28575.9 | 27691.0 | 26338.5 | 24784.4 | 24588.4 | 26932.2 | 21242.2 | 15521.4 |
| 45°   | 29667.9 | 29567.1 | 29964.8 | 30289.6 | 30079.6 | 29329.1 | 27612.6 | 26725.0 | 28665.5 | 22129.9 | 15851.8 |
| 47.5° | 28083.0 | 28150.3 | 29037.9 | 30863.6 | 31667.3 | 32059.3 | 30832.8 | 28822.3 | 30172.0 | 22793.5 | 16000.3 |
| 50°   | 23770.8 | 23826.8 | 25882.1 | 29819.2 | 32076.1 | 34285.5 | 34027.8 | 30869.2 | 31339.7 | 23199.5 | 15966.6 |
| 52.5° | 20357.3 | 20393.7 | 21275.8 | 26722.2 | 30726.4 | 35405.5 | 36906.4 | 32798.6 | 32193.7 | 23311.5 | 15779.0 |
| 55°   | 15333.8 | 15459.8 | 16448.3 | 20965.0 | 27215.0 | 34517.9 | 38659.3 | 34786.7 | 32734.2 | 23322.7 | 15583.0 |
| 57.5° | 8957.8  | 9095.0  | 10315.9 | 14230.5 | 21152.6 | 31423.7 | 38925.4 | 36550.8 | 33101.0 | 23233.1 | 15465.4 |
| 60°   | 4387.9  | 4446.7  | 4978.7  | 7479.3  | 13043.3 | 25462.1 | 36786.0 | 37404.9 | 33305.4 | 23185.5 | 15459.8 |
| 62.5° | 2957.0  | 2948.6  | 2971.0  | 3690.6  | 6426.4  | 16358.7 | 32328.1 | 35909.6 | 33196.2 | 23003.5 | 15403.8 |
| 65°   | 2542.6  | 2511.8  | 2427.8  | 2590.2  | 3329.4  | 7482.1  | 24977.6 | 31446.1 | 32364.5 | 22547.1 | 15020.2 |
| 67.5° | 2198.1  | 2200.9  | 2203.7  | 2153.3  | 2377.4  | 3452.6  | 15263.8 | 24770.4 | 29379.5 | 20385.3 | 13541.7 |
| 70°   | 1820.1  | 1845.3  | 1856.5  | 1856.5  | 1937.7  | 2265.3  | 6516.0  | 16977.5 | 23174.3 | 15983.5 | 10906.7 |
| 72.5° | 1657.7  | 1604.5  | 1610.1  | 1582.1  | 1582.1  | 1724.9  | 2623.8  | 9624.2  | 14600.2 | 8991.4  | 6656.0  |
| 75°   | 1352.5  | 1386.1  | 1391.7  | 1372.1  | 1307.7  | 1316.1  | 1556.9  | 4037.9  | 6247.2  | 3729.8  | 3290.2  |
| 77.5° | 1167.7  | 1167.7  | 1178.9  | 1164.9  | 1114.5  | 985.7   | 1038.9  | 1565.3  | 2125.3  | 1528.9  | 1643.7  |
| 80°   | 938.1   | 935.3   | 982.9   | 1010.9  | 932.5   | 728.0   | 663.6   | 865.3   | 943.7   | 672.0   | 854.1   |
| 82.5° | 456.4   | 484.4   | 674.8   | 770.1   | 708.4   | 526.4   | 406.0   | 537.6   | 504.0   | 296.8   | 383.6   |
| 85°   | 266.0   | 252.0   | 302.4   | 428.4   | 406.0   | 291.2   | 196.0   | 280.0   | 263.2   | 151.2   | 154.0   |
| 87.5° | 84.0    | 78.4    | 61.6    | 145.6   | 117.6   | 81.2    | 53.2    | 81.2    | 72.8    | 33.6    | 33.6    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 | 13572.5 |
| 2.5°  | 13418.5 | 13088.1 | 12760.4 | 12460.8 | 12278.8 | 12161.2 | 12043.6 | 11912.0 | 11861.6 | 11786.0 |
| 5°    | 13284.1 | 12645.6 | 12077.2 | 11587.2 | 11141.9 | 10791.9 | 10439.1 | 10153.5 | 10024.7 | 10111.5 |
| 7.5°  | 13205.7 | 12281.6 | 11405.1 | 10506.3 | 9641.0  | 8949.4  | 8347.3  | 7924.5  | 7734.1  | 7781.7  |
| 10°   | 13135.7 | 11870.0 | 10534.3 | 9114.6  | 7871.3  | 7014.5  | 6398.4  | 6076.4  | 5956.0  | 5981.2  |
| 12.5° | 13071.3 | 11407.9 | 9484.2  | 7616.5  | 6294.8  | 5729.2  | 5552.8  | 5555.6  | 5578.0  | 5594.8  |
| 15°   | 13060.1 | 10850.7 | 8310.9  | 6306.0  | 5443.6  | 5407.2  | 5597.6  | 5718.0  | 5782.4  | 5802.0  |
| 17.5° | 13043.3 | 10184.3 | 7115.3  | 5412.8  | 5236.3  | 5482.8  | 5659.2  | 5737.6  | 5788.0  | 5790.8  |
| 20°   | 12976.1 | 9338.6  | 6012.0  | 4987.1  | 5191.5  | 5404.4  | 5513.6  | 5575.2  | 5617.2  | 5631.2  |
| 22.5° | 12768.8 | 8397.8  | 5152.3  | 4796.7  | 5012.3  | 5183.1  | 5311.9  | 5382.0  | 5407.2  | 5424.0  |
| 25°   | 12396.4 | 7344.9  | 4558.7  | 4614.7  | 4763.1  | 4978.7  | 5082.3  | 5096.3  | 5087.9  | 5113.1  |
| 27.5° | 11909.2 | 6216.4  | 4189.1  | 4368.3  | 4558.7  | 4743.5  | 4799.5  | 4791.1  | 4774.3  | 4802.3  |
| 30°   | 11321.1 | 5202.7  | 3953.9  | 4091.1  | 4351.5  | 4519.5  | 4569.9  | 4550.3  | 4516.7  | 4547.5  |
| 32.5° | 10699.5 | 4373.9  | 3760.6  | 3897.9  | 4180.7  | 4345.9  | 4396.3  | 4376.7  | 4351.5  | 4376.7  |
| 35°   | 10119.9 | 3794.2  | 3581.4  | 3769.0  | 4046.3  | 4208.7  | 4273.1  | 4275.9  | 4275.9  | 4306.7  |
| 37.5° | 9587.8  | 3455.4  | 3433.0  | 3687.8  | 3953.9  | 4099.5  | 4191.9  | 4197.5  | 4077.1  | 4085.5  |
| 40°   | 9095.0  | 3312.6  | 3365.8  | 3634.6  | 3864.3  | 4004.3  | 4009.9  | 3696.2  | 3475.0  | 3469.4  |
| 42.5° | 8691.8  | 3284.6  | 3385.4  | 3629.0  | 3799.8  | 3805.5  | 3410.6  | 3167.0  | 3105.4  | 3108.2  |
| 45°   | 8313.7  | 3276.2  | 3430.2  | 3629.0  | 3704.6  | 3287.4  | 3021.4  | 2957.0  | 2962.6  | 2985.0  |
| 47.5° | 7890.9  | 3242.6  | 3438.6  | 3578.6  | 3430.2  | 2923.4  | 2845.0  | 2817.0  | 2805.8  | 2811.4  |
| 50°   | 7428.9  | 3122.2  | 3332.2  | 3477.8  | 2959.8  | 2766.6  | 2668.6  | 2660.2  | 2674.2  | 2682.6  |
| 52.5° | 6941.7  | 2926.2  | 3150.2  | 3295.8  | 2744.2  | 2629.4  | 2520.2  | 2539.8  | 2601.4  | 2621.0  |
| 55°   | 6622.4  | 2696.6  | 2909.4  | 2931.8  | 2593.0  | 2500.6  | 2408.2  | 2453.0  | 2567.8  | 2604.2  |
| 57.5° | 6538.4  | 2453.0  | 2635.0  | 2609.8  | 2399.8  | 2388.6  | 2332.6  | 2371.8  | 2517.4  | 2570.6  |
| 60°   | 6513.2  | 2234.5  | 2366.2  | 2346.6  | 2212.1  | 2265.3  | 2251.3  | 2270.9  | 2321.4  | 2338.2  |
| 62.5° | 6317.2  | 2060.9  | 2125.3  | 2097.3  | 2044.1  | 2136.5  | 2170.1  | 2128.1  | 2167.3  | 2186.9  |
| 65°   | 5818.8  | 1920.9  | 1890.1  | 1870.5  | 1892.9  | 1976.9  | 2044.1  | 1960.1  | 1996.5  | 2052.5  |
| 67.5° | 4995.5  | 1730.5  | 1646.5  | 1668.9  | 1738.9  | 1783.7  | 1870.5  | 1775.3  | 1806.1  | 1901.3  |
| 70°   | 4040.7  | 1489.7  | 1414.1  | 1478.5  | 1545.7  | 1638.1  | 1652.1  | 1587.7  | 1660.5  | 1766.9  |
| 72.5° | 2859.0  | 1246.1  | 1192.9  | 1324.5  | 1346.9  | 1467.3  | 1436.5  | 1405.7  | 1506.5  | 1542.9  |
| 75°   | 1982.5  | 1005.3  | 974.5   | 1075.3  | 1156.5  | 1260.1  | 1237.7  | 1274.1  | 1486.9  | 1503.7  |
| 77.5° | 1254.5  | 781.3   | 761.7   | 826.1   | 938.1   | 1052.9  | 1089.3  | 1503.7  | 2539.8  | 2640.6  |
| 80°   | 728.0   | 582.4   | 560.0   | 610.4   | 708.4   | 814.9   | 1050.1  | 1845.3  | 1674.5  | 1654.9  |
| 82.5° | 406.0   | 400.4   | 372.4   | 386.4   | 473.2   | 588.0   | 1484.1  | 1299.3  | 1055.7  | 1089.3  |
| 85°   | 190.4   | 235.2   | 201.6   | 193.2   | 266.0   | 688.8   | 991.3   | 742.0   | 492.8   | 481.6   |
| 87.5° | 50.4    | 44.8    | 44.8    | 50.4    | 112.0   | 593.6   | 394.8   | 316.4   | 187.6   | 182.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)