

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: P955577

Luminaire Tested: **GALN-SB8C-727-U-T2U**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-727-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 56923 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
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

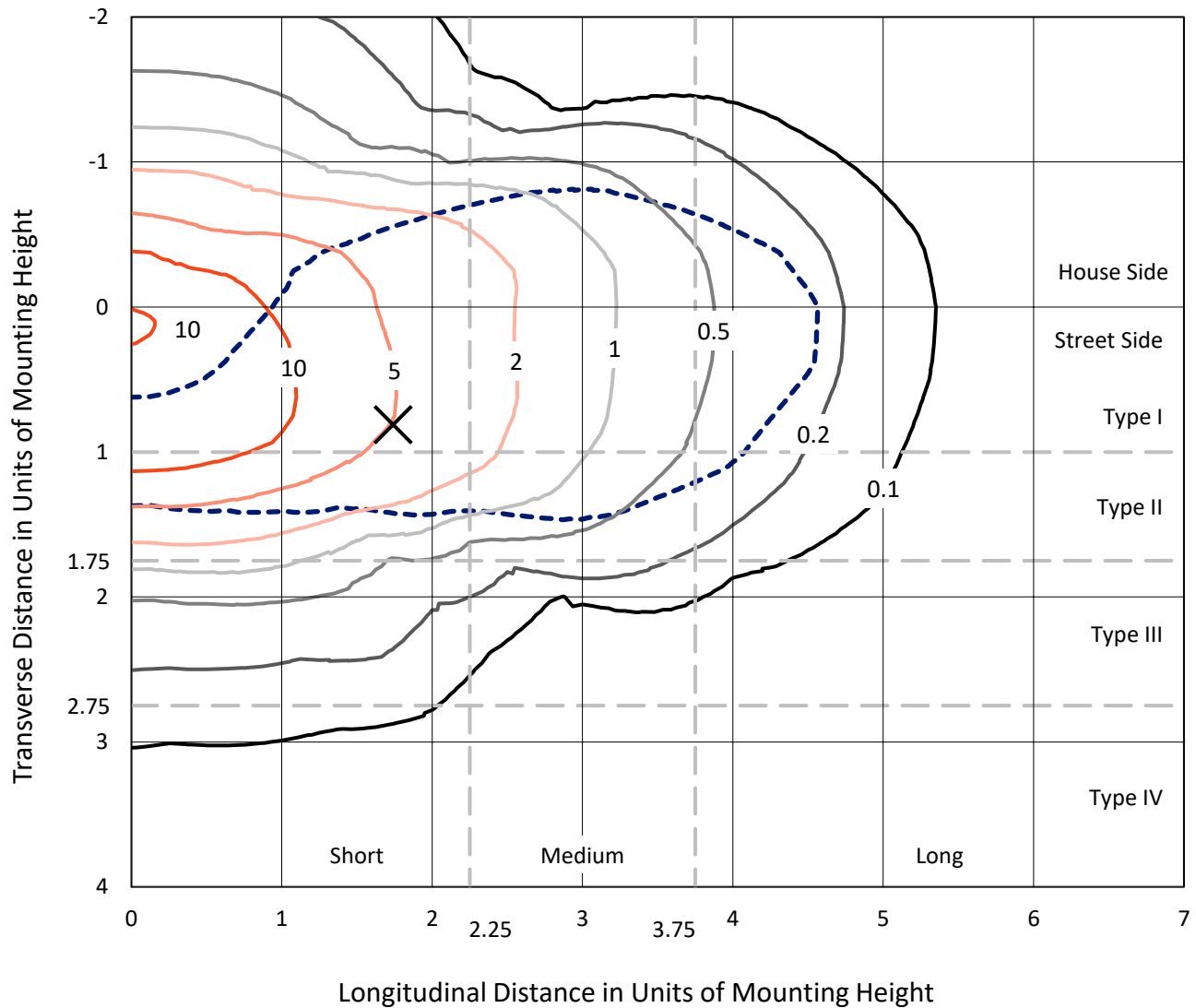


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

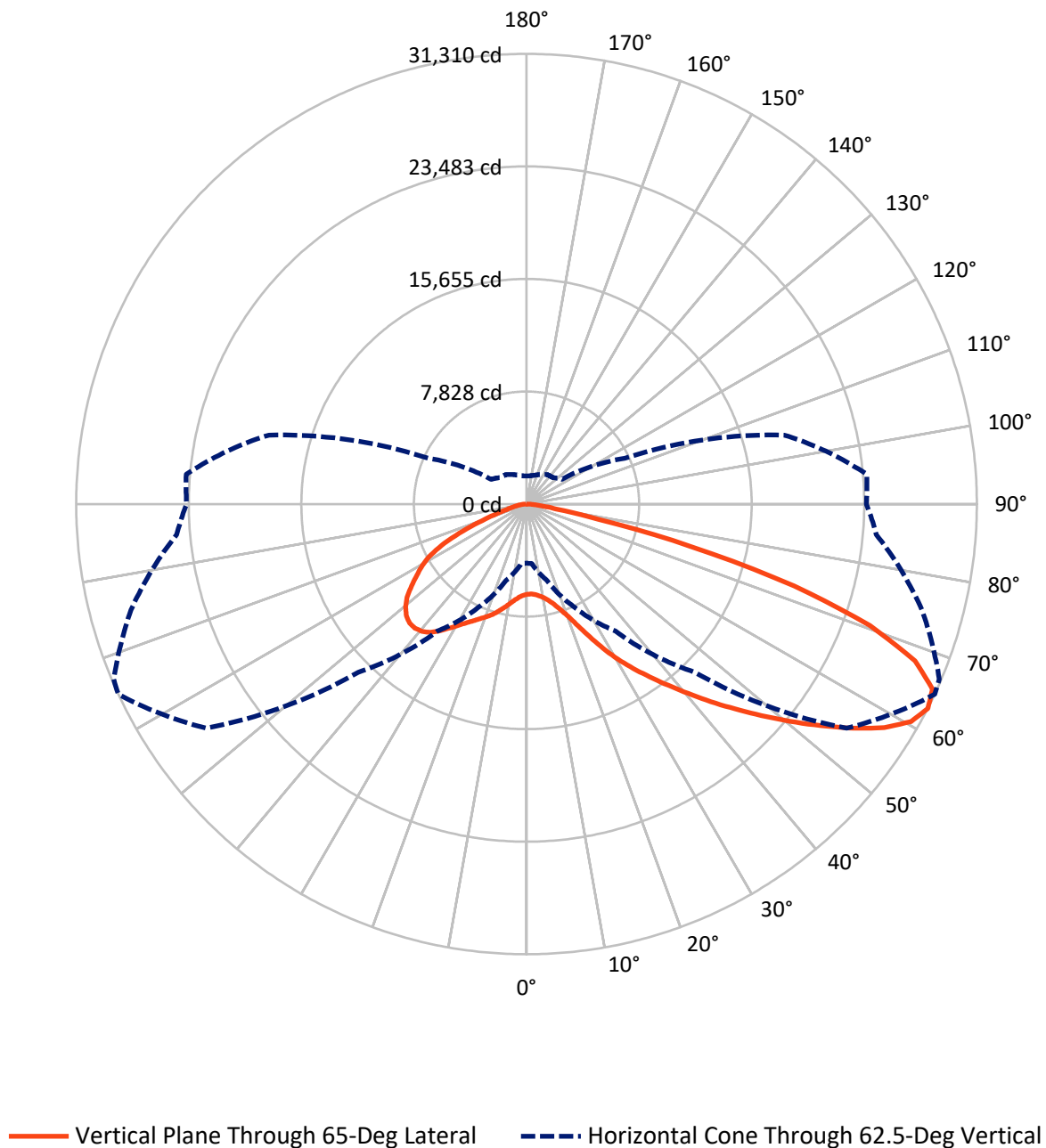


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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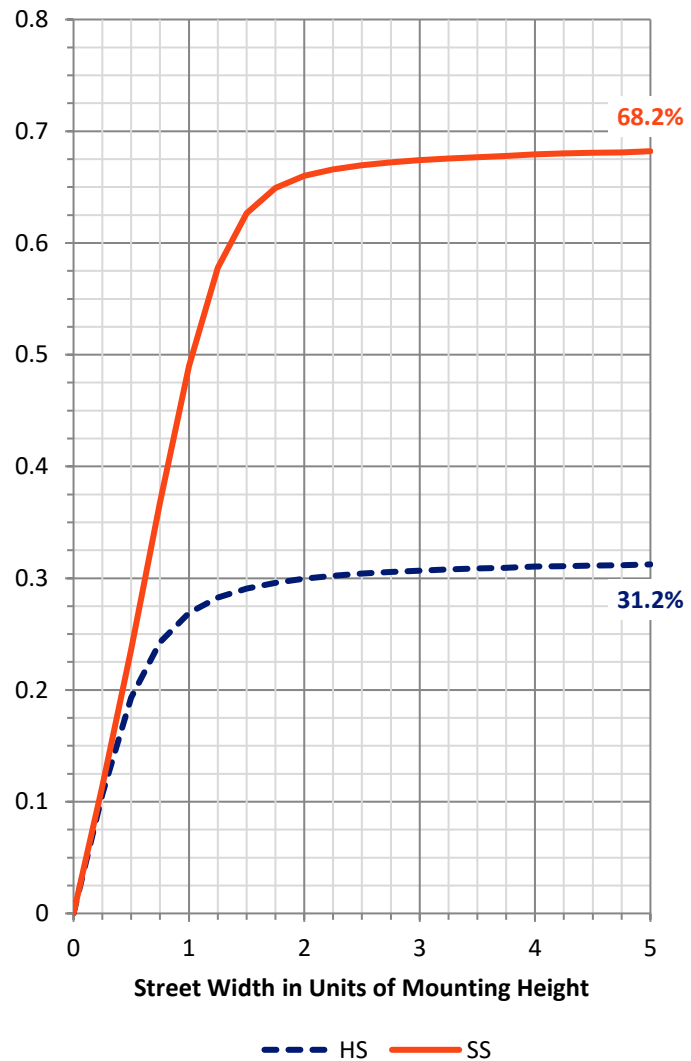
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17962.4  | 0.0    | 17962.4 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 38960.6  | 0.0    | 38960.6 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 56923.0  | 0.0    | 56923.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 625.4   | 1.1       |
| 10°-20°   | 2120.7  | 3.7       |
| 20°-30°   | 4300.0  | 7.6       |
| 30°-40°   | 7441.0  | 13.1      |
| 40°-50°   | 11260.6 | 19.8      |
| 50°-60°   | 13202.3 | 23.2      |
| 60°-70°   | 11068.5 | 19.4      |
| 70°-80°   | 6110.7  | 10.7      |
| 80°-90°   | 793.8   | 1.4       |
| 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°    | 56923.0 | 100.0     |
| 0°-180°   | 56923.0 | 100.0     |

**Coefficient of Utilization**



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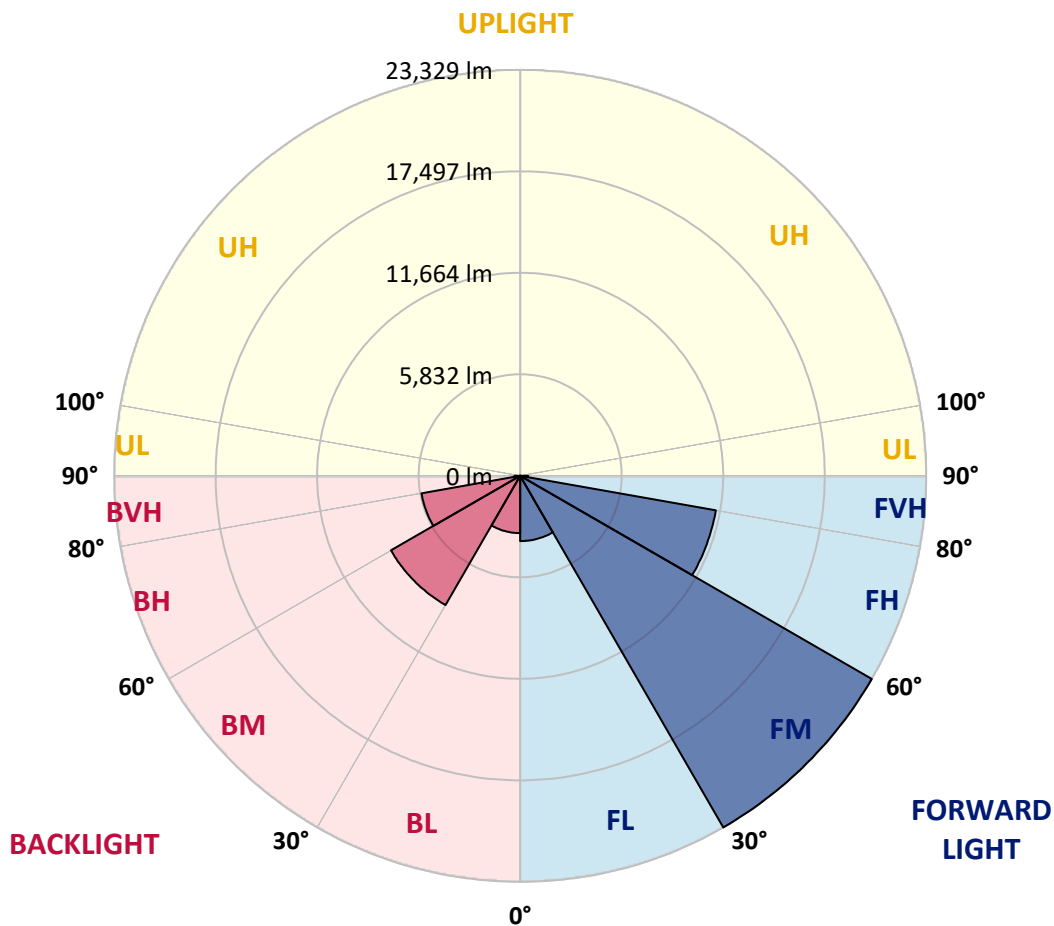
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3752.0  | 6.6       |                         |      |          |
| FM   | (30°-60°)   | 23328.9 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 11417.1 | 20.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 462.6   | 0.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 3294.1  | 5.8       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 8575.0  | 15.1      | B5                      |      |          |
| BH   | (60°-80°)   | 5762.2  | 10.1      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 331.1   | 0.6       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7  |
| 2.5°  | 6231.3  | 6213.6  | 6228.4  | 6228.4  | 6234.3  | 6231.3  | 6252.0  | 6257.9  | 6266.8  | 6284.5  | 6284.5  |
| 5°    | 6169.3  | 6166.4  | 6192.9  | 6216.6  | 6240.2  | 6260.9  | 6287.4  | 6325.8  | 6331.7  | 6352.4  | 6379.0  |
| 7.5°  | 6148.6  | 6130.9  | 6172.3  | 6201.8  | 6257.9  | 6308.1  | 6379.0  | 6444.0  | 6470.5  | 6479.4  | 6529.6  |
| 10°   | 6308.1  | 6278.6  | 6317.0  | 6334.7  | 6381.9  | 6432.1  | 6514.8  | 6618.2  | 6647.7  | 6683.2  | 6739.3  |
| 12.5° | 6579.8  | 6547.3  | 6603.4  | 6630.0  | 6674.3  | 6718.6  | 6774.7  | 6875.1  | 6889.9  | 6954.9  | 7008.0  |
| 15°   | 6951.9  | 6913.5  | 6949.0  | 6981.4  | 7055.3  | 7096.6  | 7152.7  | 7250.2  | 7250.2  | 7300.4  | 7338.8  |
| 17.5° | 7456.9  | 7406.7  | 7433.3  | 7445.1  | 7492.4  | 7554.4  | 7648.9  | 7734.5  | 7778.8  | 7761.1  | 7707.9  |
| 20°   | 8210.0  | 8148.0  | 8148.0  | 8088.9  | 8071.2  | 8121.4  | 8245.4  | 8363.6  | 8410.8  | 8319.3  | 8189.3  |
| 22.5° | 9341.1  | 9252.5  | 9202.3  | 9001.5  | 8921.7  | 8927.6  | 9051.7  | 9196.4  | 9234.8  | 9072.3  | 8780.0  |
| 25°   | 10779.3 | 10640.5 | 10572.6 | 10277.3 | 10097.1 | 9940.6  | 10038.0 | 10224.1 | 10277.3 | 10076.4 | 9603.9  |
| 27.5° | 12217.5 | 12226.4 | 12161.4 | 11807.0 | 11508.8 | 11222.3 | 11172.1 | 11367.0 | 11423.1 | 11195.7 | 10611.0 |
| 30°   | 14234.6 | 14024.9 | 13900.9 | 13475.6 | 13050.3 | 12648.7 | 12442.0 | 12521.7 | 12536.5 | 12264.8 | 11585.5 |
| 32.5° | 15974.0 | 15920.9 | 15655.1 | 15283.0 | 14736.6 | 14107.6 | 13762.1 | 13635.1 | 13611.5 | 13224.6 | 12418.3 |
| 35°   | 17955.7 | 17926.1 | 17645.6 | 17202.6 | 16611.9 | 15737.8 | 15114.6 | 14751.4 | 14721.9 | 14178.5 | 13242.3 |
| 37.5° | 19969.8 | 19969.8 | 19695.1 | 19210.8 | 18599.5 | 17506.8 | 16558.8 | 15982.9 | 15888.4 | 15179.6 | 14081.0 |
| 40°   | 21576.3 | 21478.9 | 21529.1 | 21325.3 | 20625.4 | 19464.8 | 18162.4 | 17326.6 | 17199.6 | 16349.1 | 14972.9 |
| 42.5° | 22488.9 | 22456.4 | 22757.6 | 22985.0 | 22698.6 | 21771.2 | 19928.4 | 18782.6 | 18605.4 | 17636.7 | 16000.6 |
| 45°   | 22692.6 | 22657.2 | 23194.7 | 24027.5 | 24429.1 | 24048.2 | 21848.0 | 20315.3 | 20099.7 | 18983.4 | 17102.2 |
| 47.5° | 22223.1 | 22152.2 | 22940.7 | 24254.9 | 25542.5 | 26212.9 | 23927.1 | 21978.0 | 21664.9 | 20294.6 | 18233.3 |
| 50°   | 20811.4 | 20743.5 | 21936.6 | 23682.0 | 25917.6 | 27683.6 | 26183.4 | 23741.0 | 23262.6 | 21700.4 | 19376.2 |
| 52.5° | 17743.0 | 17775.5 | 19644.9 | 22042.9 | 25424.4 | 28599.1 | 28126.6 | 25598.6 | 25022.7 | 23138.6 | 20448.2 |
| 55°   | 13821.1 | 13892.0 | 16189.6 | 18829.8 | 23451.6 | 28460.3 | 29452.6 | 27512.3 | 26939.4 | 24491.2 | 21555.7 |
| 57.5° | 9896.3  | 10209.3 | 12362.2 | 14975.8 | 19662.6 | 26260.2 | 29742.0 | 29331.5 | 28776.3 | 25967.8 | 22639.5 |
| 60°   | 6414.4  | 6470.5  | 8685.5  | 11319.7 | 14972.9 | 22350.1 | 29154.3 | 30710.7 | 30276.5 | 27473.9 | 23546.1 |
| 62.5° | 4110.9  | 4149.3  | 5498.9  | 7917.6  | 10776.3 | 16535.2 | 27175.7 | 31310.2 | 31177.3 | 28469.2 | 24417.3 |
| 65°   | 3021.2  | 2991.6  | 3694.5  | 5233.1  | 7259.0  | 10197.5 | 23333.5 | 31020.8 | 31283.6 | 29092.3 | 25137.9 |
| 67.5° | 2522.1  | 2480.7  | 2826.2  | 3623.6  | 5348.3  | 5791.3  | 17264.6 | 29139.6 | 30102.3 | 29021.4 | 25666.6 |
| 70°   | 2297.6  | 2262.2  | 2471.9  | 2690.4  | 4172.9  | 3877.6  | 8703.2  | 25332.8 | 26815.4 | 28215.2 | 25580.9 |
| 72.5° | 1946.2  | 1884.2  | 2170.6  | 2389.2  | 3245.6  | 2973.9  | 3597.0  | 19458.9 | 21266.2 | 25631.1 | 24376.0 |
| 75°   | 1509.1  | 1467.8  | 1712.9  | 2102.7  | 2439.4  | 2321.2  | 2274.0  | 11815.9 | 13788.6 | 19822.1 | 21325.3 |
| 77.5° | 1196.1  | 1139.9  | 1364.4  | 1639.0  | 2194.3  | 1751.3  | 1656.8  | 5088.4  | 7043.5  | 12654.6 | 15956.3 |
| 80°   | 900.7   | 850.5   | 1036.6  | 1296.5  | 1686.3  | 1320.1  | 1072.0  | 2076.1  | 2655.0  | 6411.5  | 8023.9  |
| 82.5° | 640.9   | 596.6   | 723.5   | 950.9   | 1134.0  | 1184.2  | 658.6   | 1163.6  | 1308.3  | 2471.9  | 1792.6  |
| 85°   | 410.5   | 383.9   | 484.3   | 596.6   | 720.6   | 761.9   | 401.6   | 608.4   | 667.4   | 1018.9  | 747.2   |
| 87.5° | 224.4   | 183.1   | 259.9   | 277.6   | 333.7   | 304.2   | 192.0   | 221.5   | 239.2   | 369.2   | 316.0   |
| 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°    | 6272.7  | 6272.7  | 6272.7  | 6272.7  | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 | 6272.7 |
| 2.5°  | 6296.3  | 6305.2  | 6334.7  | 6343.5  | 6364.2 | 6390.8 | 6408.5 | 6426.2 | 6426.2 | 6444.0 | 6444.0 |
| 5°    | 6381.9  | 6402.6  | 6464.6  | 6497.1  | 6550.3 | 6603.4 | 6635.9 | 6674.3 | 6697.9 | 6709.7 | 6715.7 |
| 7.5°  | 6547.3  | 6579.8  | 6668.4  | 6724.5  | 6816.1 | 6889.9 | 6940.1 | 6993.3 | 7005.1 | 7037.6 | 7025.7 |
| 10°   | 6771.8  | 6810.2  | 6910.6  | 7016.9  | 7126.2 | 7217.7 | 7265.0 | 7303.3 | 7318.1 | 7324.0 | 7309.3 |
| 12.5° | 7028.7  | 7084.8  | 7214.7  | 7344.7  | 7459.9 | 7539.6 | 7551.4 | 7542.6 | 7501.2 | 7465.8 | 7465.8 |
| 15°   | 7344.7  | 7394.9  | 7539.6  | 7681.4  | 7793.6 | 7808.3 | 7734.5 | 7687.3 | 7637.1 | 7628.2 | 7628.2 |
| 17.5° | 7722.7  | 7749.3  | 7882.2  | 8021.0  | 8029.8 | 7979.6 | 7870.4 | 7826.1 | 7778.8 | 7746.3 | 7749.3 |
| 20°   | 8162.7  | 8153.9  | 8248.4  | 8307.4  | 8245.4 | 8091.9 | 7926.5 | 7852.6 | 7805.4 | 7767.0 | 7770.0 |
| 22.5° | 8688.4  | 8620.5  | 8608.7  | 8593.9  | 8428.5 | 8106.6 | 7882.2 | 7787.7 | 7713.8 | 7660.7 | 7678.4 |
| 25°   | 9453.3  | 9193.4  | 9013.3  | 8912.9  | 8540.8 | 8026.9 | 7740.4 | 7530.7 | 7391.9 | 7300.4 | 7335.8 |
| 27.5° | 10410.1 | 9973.1  | 9518.3  | 9273.2  | 8540.8 | 7864.5 | 7397.8 | 7058.2 | 6830.8 | 6736.3 | 6783.6 |
| 30°   | 11322.7 | 10864.9 | 10194.6 | 9707.3  | 8520.1 | 7598.7 | 6845.6 | 6373.1 | 6107.3 | 6012.8 | 6068.9 |
| 32.5° | 12102.4 | 11603.3 | 10912.2 | 10182.7 | 8469.9 | 7167.5 | 6160.4 | 5637.7 | 5380.8 | 5268.6 | 5324.7 |
| 35°   | 12825.9 | 12294.3 | 11632.8 | 10705.5 | 8337.0 | 6535.5 | 5407.4 | 5008.7 | 4722.2 | 4542.1 | 4601.1 |
| 37.5° | 13567.2 | 12935.2 | 12315.0 | 11178.0 | 8097.8 | 5797.2 | 4828.5 | 4488.9 | 4152.2 | 3910.1 | 3975.1 |
| 40°   | 14373.4 | 13617.4 | 13044.4 | 11458.5 | 7705.0 | 5094.3 | 4379.6 | 4069.6 | 3712.2 | 3455.3 | 3505.5 |
| 42.5° | 15315.5 | 14435.4 | 13856.6 | 11603.3 | 7167.5 | 4595.2 | 4087.3 | 3783.1 | 3446.4 | 3236.7 | 3278.1 |
| 45°   | 16298.9 | 15336.1 | 14597.8 | 11600.3 | 6568.0 | 4361.9 | 3992.8 | 3691.5 | 3319.4 | 3100.9 | 3136.3 |
| 47.5° | 17329.6 | 16278.2 | 15238.7 | 11411.3 | 6048.2 | 4394.4 | 3939.6 | 3493.7 | 3083.2 | 2870.5 | 2900.1 |
| 50°   | 18363.2 | 17308.9 | 15858.9 | 11056.9 | 5826.7 | 4323.5 | 3741.7 | 3216.1 | 2731.7 | 2539.8 | 2551.6 |
| 52.5° | 19388.0 | 18404.6 | 16393.4 | 10551.9 | 5602.3 | 4060.7 | 3487.8 | 2855.8 | 2587.0 | 2454.1 | 2454.1 |
| 55°   | 20418.7 | 19488.4 | 16975.2 | 9816.5  | 5041.2 | 3753.6 | 3062.5 | 2719.9 | 2471.9 | 2350.8 | 2339.0 |
| 57.5° | 21452.3 | 20740.6 | 17527.4 | 9081.2  | 4335.3 | 3375.5 | 2829.2 | 2554.5 | 2356.7 | 2253.3 | 2235.6 |
| 60°   | 22527.3 | 22172.9 | 18097.4 | 8404.9  | 3638.4 | 2891.2 | 2657.9 | 2421.7 | 2220.8 | 2105.7 | 2096.8 |
| 62.5° | 23634.7 | 23749.9 | 18543.4 | 7533.7  | 2997.5 | 2595.9 | 2504.3 | 2262.2 | 2067.3 | 1958.0 | 1955.0 |
| 65°   | 24751.0 | 25270.8 | 18835.7 | 6325.8  | 2430.5 | 2315.3 | 2339.0 | 2087.9 | 1890.1 | 1795.6 | 1792.6 |
| 67.5° | 25592.7 | 26366.5 | 18753.0 | 4787.2  | 1993.4 | 2049.5 | 2132.2 | 1904.8 | 1718.8 | 1645.0 | 1647.9 |
| 70°   | 25687.2 | 26236.5 | 17937.9 | 3278.1  | 1668.6 | 1789.7 | 1901.9 | 1724.7 | 1532.7 | 1479.6 | 1482.5 |
| 72.5° | 24429.1 | 24464.6 | 15666.9 | 2141.1  | 1411.6 | 1571.1 | 1659.7 | 1541.6 | 1355.5 | 1302.4 | 1299.4 |
| 75°   | 21130.4 | 20232.6 | 11502.8 | 1411.6  | 1181.3 | 1349.6 | 1432.3 | 1349.6 | 1169.5 | 1181.3 | 1139.9 |
| 77.5° | 16009.5 | 14329.1 | 6984.4  | 1004.1  | 986.4  | 1134.0 | 1246.3 | 1187.2 | 1033.6 | 1160.6 | 1021.8 |
| 80°   | 8248.4  | 7752.2  | 3115.7  | 750.1   | 779.7  | 906.6  | 1024.8 | 948.0  | 818.0  | 779.7  | 711.7  |
| 82.5° | 1890.1  | 2197.2  | 1228.5  | 537.5   | 564.1  | 652.7  | 782.6  | 711.7  | 587.7  | 496.1  | 490.2  |
| 85°   | 661.5   | 723.5   | 543.4   | 336.7   | 330.8  | 407.5  | 531.6  | 475.5  | 398.7  | 318.9  | 336.7  |
| 87.5° | 209.7   | 274.7   | 203.8   | 135.8   | 141.8  | 183.1  | 245.1  | 224.4  | 186.1  | 121.1  | 127.0  |
| 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)