

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: P942986

Luminaire Tested: **GALN-SB7B-730-U-T3-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31407 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 256.7  
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

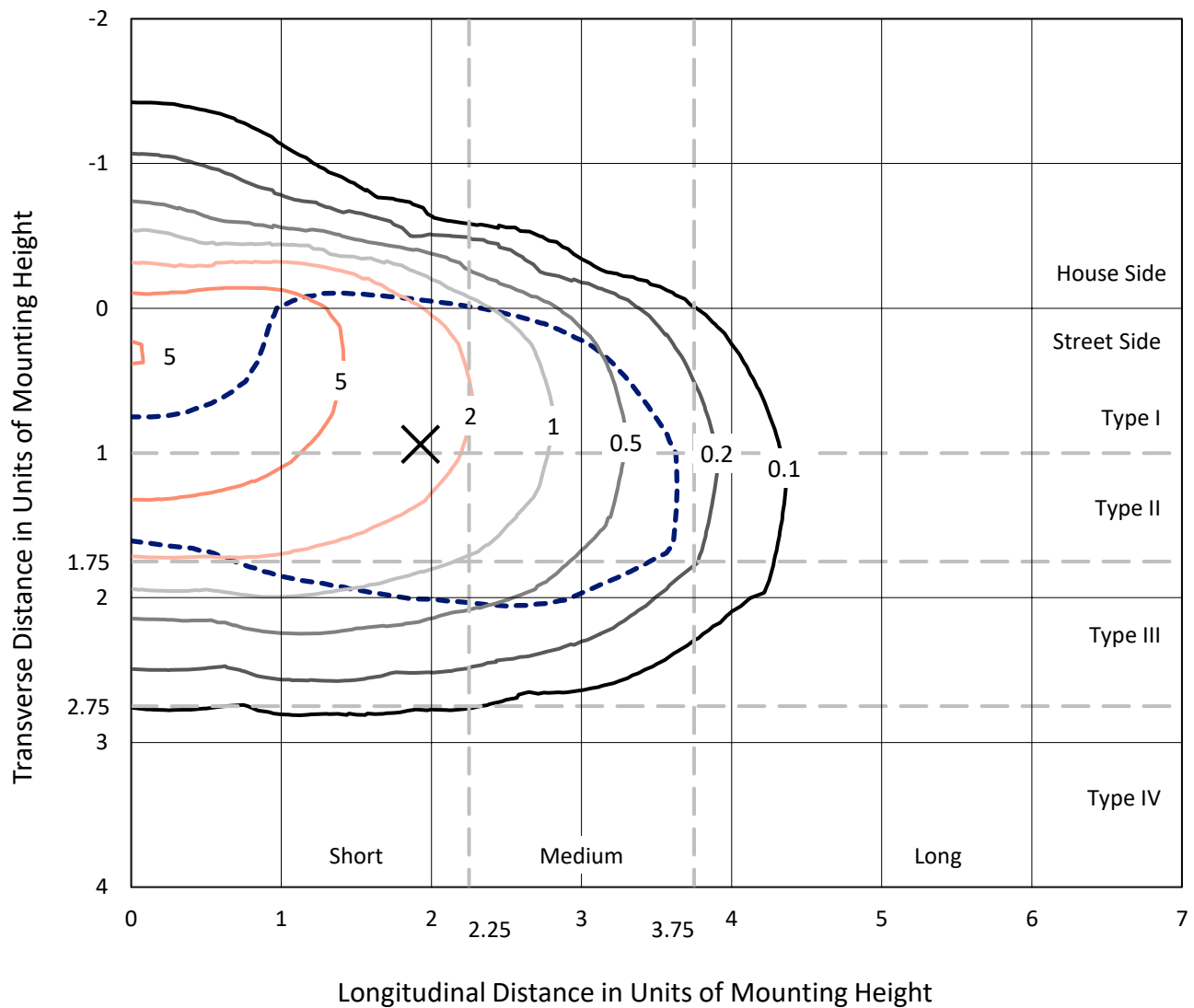


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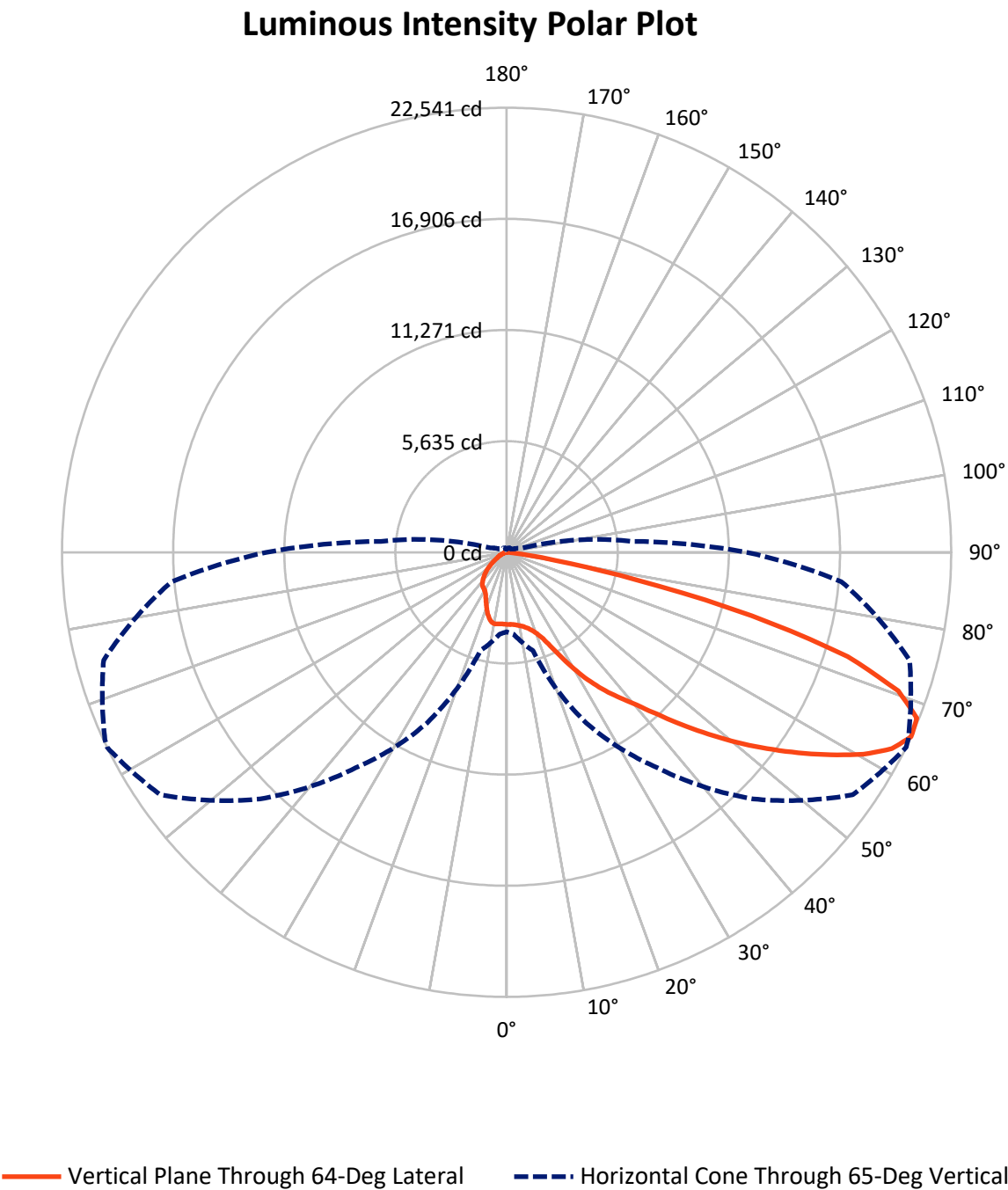
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
Type III - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4200.1   | 0.0    | 4200.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 27206.9  | 0.0    | 27206.9 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 31407.0  | 0.0    | 31407.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 337.0   | 1.1       |
| 10°-20°   | 914.1   | 2.9       |
| 20°-30°   | 1732.1  | 5.5       |
| 30°-40°   | 3505.0  | 11.2      |
| 40°-50°   | 5970.9  | 19.0      |
| 50°-60°   | 8119.9  | 25.9      |
| 60°-70°   | 7625.0  | 24.3      |
| 70°-80°   | 3054.9  | 9.7       |
| 80°-90°   | 148.0   | 0.5       |
| 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°    | 31407.0 | 100.0     |
| 0°-180°   | 31407.0 | 100.0     |

**Coefficient of Utilization**



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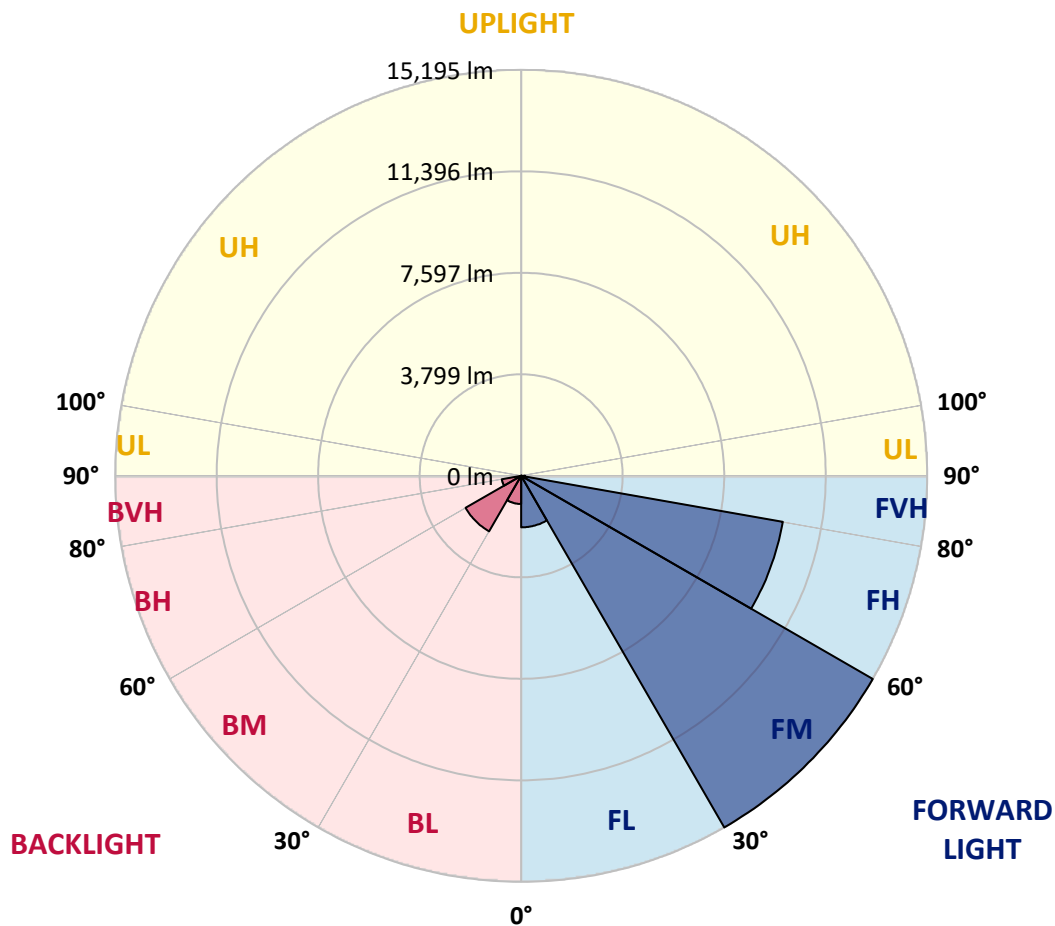
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1928.8  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 15194.7 | 48.4      |                         |      |          |
| FH   | (60°-80°)   | 9942.7  | 31.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 140.8   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1054.5  | 3.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2401.1  | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 737.2   | 2.3       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 7.2     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  | 3653.0  |
| 2.5°  | 3640.3  | 3665.6  | 3659.3  | 3653.0  | 3650.9  | 3655.1  | 3657.2  | 3655.1  | 3655.1  | 3655.1  | 3657.2  |
| 5°    | 3570.8  | 3591.9  | 3591.9  | 3606.6  | 3627.7  | 3653.0  | 3671.9  | 3676.1  | 3680.3  | 3686.6  | 3684.5  |
| 7.5°  | 3438.2  | 3455.0  | 3467.7  | 3516.1  | 3568.7  | 3636.1  | 3693.0  | 3722.4  | 3726.7  | 3749.8  | 3758.2  |
| 10°   | 3347.7  | 3368.7  | 3389.8  | 3440.3  | 3516.1  | 3617.2  | 3714.0  | 3785.6  | 3796.1  | 3850.9  | 3876.1  |
| 12.5° | 3343.5  | 3364.5  | 3391.9  | 3446.6  | 3535.1  | 3642.4  | 3760.3  | 3863.5  | 3882.5  | 3962.5  | 4015.1  |
| 15°   | 3387.7  | 3412.9  | 3438.2  | 3505.6  | 3600.3  | 3730.9  | 3857.2  | 3985.6  | 4004.6  | 4118.3  | 4175.1  |
| 17.5° | 3478.2  | 3511.9  | 3530.8  | 3598.2  | 3699.3  | 3844.6  | 4010.9  | 4158.3  | 4175.1  | 4307.8  | 4379.3  |
| 20°   | 3657.2  | 3697.2  | 3703.5  | 3758.2  | 3857.2  | 4013.0  | 4210.9  | 4394.1  | 4415.1  | 4566.7  | 4646.7  |
| 22.5° | 4027.7  | 4084.6  | 4034.0  | 4061.4  | 4149.8  | 4305.7  | 4520.4  | 4752.0  | 4781.5  | 4954.1  | 5025.7  |
| 25°   | 4680.4  | 4760.4  | 4629.9  | 4583.6  | 4621.5  | 4783.6  | 5053.1  | 5345.7  | 5379.4  | 5518.4  | 5554.2  |
| 27.5° | 5962.6  | 5859.5  | 5661.6  | 5467.9  | 5354.2  | 5446.8  | 5750.0  | 6112.1  | 6154.2  | 6289.0  | 6246.9  |
| 30°   | 7371.2  | 7280.7  | 7013.3  | 6583.8  | 6314.3  | 6299.5  | 6579.5  | 6983.8  | 7032.2  | 7160.6  | 7032.2  |
| 32.5° | 8781.8  | 8695.5  | 8405.0  | 7876.5  | 7409.1  | 7177.5  | 7371.2  | 7819.7  | 7844.9  | 7927.0  | 7737.5  |
| 35°   | 10169.3 | 10080.9 | 9790.4  | 9249.3  | 8674.5  | 8148.1  | 8110.2  | 8615.5  | 8623.9  | 8710.3  | 8428.1  |
| 37.5° | 11565.3 | 11491.6 | 11182.1 | 10651.5 | 10085.1 | 9358.7  | 9007.1  | 9369.3  | 9379.8  | 9464.0  | 9171.4  |
| 40°   | 12561.1 | 12592.7 | 12380.1 | 11969.5 | 11483.1 | 10689.4 | 10013.5 | 10171.4 | 10108.3 | 10249.3 | 10074.6 |
| 42.5° | 13415.9 | 13479.1 | 13293.8 | 13087.5 | 12805.4 | 12106.4 | 11260.0 | 11232.6 | 11131.5 | 11207.3 | 11026.3 |
| 45°   | 14155.0 | 14207.6 | 14041.3 | 13992.8 | 13986.5 | 13496.0 | 12622.2 | 12458.0 | 12316.9 | 12302.2 | 12085.3 |
| 47.5° | 14426.6 | 14527.6 | 14599.2 | 14761.3 | 15077.1 | 14870.8 | 14030.7 | 13776.0 | 13618.1 | 13502.3 | 13159.1 |
| 50°   | 14529.7 | 14637.1 | 14881.3 | 15353.0 | 16100.4 | 16188.8 | 15433.0 | 15146.6 | 14952.9 | 14742.4 | 14237.1 |
| 52.5° | 14390.8 | 14582.4 | 14910.8 | 15704.6 | 16788.9 | 17245.8 | 16778.4 | 16527.8 | 16306.7 | 15963.5 | 15214.0 |
| 55°   | 13571.7 | 13763.3 | 14435.0 | 15700.4 | 17132.1 | 17986.9 | 18050.0 | 17938.5 | 17690.0 | 17148.9 | 16003.5 |
| 57.5° | 11845.3 | 12129.5 | 13192.8 | 15165.6 | 17125.8 | 18624.8 | 19296.5 | 19376.5 | 19098.6 | 18323.8 | 16624.7 |
| 60°   | 9453.5  | 9838.8  | 11135.7 | 13980.2 | 16597.3 | 18970.1 | 20389.2 | 20789.2 | 20494.5 | 19481.8 | 17127.9 |
| 62.5° | 6596.4  | 7042.7  | 8270.2  | 12123.2 | 15388.8 | 18721.7 | 21187.2 | 21926.2 | 21703.0 | 20517.6 | 17321.6 |
| 65°   | 4023.5  | 4166.7  | 5156.3  | 9539.8  | 13333.8 | 17681.6 | 21433.5 | 22541.0 | 22467.3 | 21151.4 | 17035.2 |
| 67.5° | 2680.2  | 2800.3  | 3084.5  | 6541.6  | 10350.4 | 15603.5 | 20844.0 | 22433.6 | 22454.7 | 21048.2 | 15986.7 |
| 70°   | 1614.9  | 1718.0  | 1903.3  | 3804.6  | 6708.0  | 12350.6 | 19018.6 | 21065.1 | 21187.2 | 19669.1 | 13999.2 |
| 72.5° | 665.3   | 734.8   | 903.2   | 1724.4  | 3474.0  | 7838.6  | 15144.5 | 18085.8 | 18370.1 | 16538.3 | 10744.1 |
| 75°   | 376.9   | 412.7   | 530.6   | 865.3   | 1507.5  | 3653.0  | 9173.5  | 12839.0 | 13258.0 | 11398.9 | 6463.7  |
| 77.5° | 250.5   | 267.4   | 343.2   | 560.1   | 848.5   | 1246.4  | 3920.4  | 6689.0  | 7489.1  | 6225.8  | 2798.1  |
| 80°   | 168.4   | 183.2   | 235.8   | 374.8   | 551.6   | 534.8   | 1248.5  | 2478.1  | 3048.7  | 2139.1  | 682.2   |
| 82.5° | 113.7   | 115.8   | 168.4   | 246.3   | 349.5   | 259.0   | 368.5   | 770.6   | 968.5   | 619.0   | 259.0   |
| 85°   | 65.3    | 63.2    | 124.2   | 143.2   | 155.8   | 107.4   | 111.6   | 231.6   | 303.2   | 261.1   | 147.4   |
| 87.5° | 8.4     | 12.6    | 48.4    | 37.9    | 21.1    | 23.2    | 23.2    | 40.0    | 59.0    | 63.2    | 31.6    |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3653.0  | 3653.0  | 3653.0 | 3653.0 | 3653.0 | 3653.0 | 3653.0 | 3653.0 | 3653.0 | 3653.0 | 3653.0 |
| 2.5°  | 3657.2  | 3655.1  | 3648.7 | 3642.4 | 3627.7 | 3619.3 | 3623.5 | 3619.3 | 3617.2 | 3619.3 | 3627.7 |
| 5°    | 3684.5  | 3678.2  | 3661.4 | 3640.3 | 3610.9 | 3575.1 | 3551.9 | 3518.2 | 3486.6 | 3467.7 | 3471.9 |
| 7.5°  | 3758.2  | 3751.9  | 3728.8 | 3669.8 | 3575.1 | 3425.6 | 3288.7 | 3168.7 | 3078.2 | 3025.5 | 3027.6 |
| 10°   | 3876.1  | 3865.6  | 3829.8 | 3699.3 | 3450.8 | 3124.5 | 2852.9 | 2627.6 | 2480.2 | 2410.7 | 2404.4 |
| 12.5° | 4015.1  | 4002.5  | 3939.3 | 3671.9 | 3215.0 | 2705.5 | 2330.7 | 2080.2 | 1943.3 | 1882.3 | 1876.0 |
| 15°   | 4179.3  | 4162.5  | 4038.3 | 3541.4 | 2871.8 | 2242.3 | 1899.1 | 1711.7 | 1623.3 | 1568.6 | 1570.7 |
| 17.5° | 4383.6  | 4354.1  | 4111.9 | 3345.6 | 2499.2 | 1888.6 | 1633.8 | 1492.8 | 1414.9 | 1362.2 | 1358.0 |
| 20°   | 4648.8  | 4600.4  | 4170.9 | 3111.9 | 2156.0 | 1665.4 | 1454.9 | 1337.0 | 1278.0 | 1231.7 | 1223.3 |
| 22.5° | 5019.4  | 4949.9  | 4242.5 | 2859.2 | 1913.9 | 1511.7 | 1322.2 | 1235.9 | 1187.5 | 1134.8 | 1126.4 |
| 25°   | 5478.4  | 5396.3  | 4330.9 | 2625.5 | 1747.5 | 1379.1 | 1225.4 | 1153.8 | 1096.9 | 1035.9 | 1029.6 |
| 27.5° | 6120.6  | 5973.2  | 4436.2 | 2433.9 | 1604.4 | 1265.4 | 1136.9 | 1056.9 | 991.7  | 941.1  | 930.6  |
| 30°   | 6836.4  | 6594.3  | 4528.8 | 2318.1 | 1473.8 | 1160.1 | 1021.1 | 941.1  | 880.1  | 844.3  | 838.0  |
| 32.5° | 7514.4  | 7185.9  | 4589.9 | 2267.6 | 1355.9 | 1040.1 | 894.8  | 808.5  | 762.2  | 751.6  | 758.0  |
| 35°   | 8154.4  | 7720.7  | 4583.6 | 2219.1 | 1250.6 | 920.1  | 770.6  | 682.2  | 646.4  | 652.7  | 652.7  |
| 37.5° | 8891.3  | 8291.3  | 4539.4 | 2143.4 | 1164.3 | 810.6  | 663.2  | 585.3  | 553.7  | 555.8  | 564.3  |
| 40°   | 9748.2  | 8950.3  | 4512.0 | 2000.2 | 1069.6 | 709.5  | 574.8  | 511.6  | 488.5  | 480.0  | 477.9  |
| 42.5° | 10662.0 | 9588.2  | 4516.2 | 1838.1 | 951.7  | 619.0  | 513.7  | 461.1  | 440.0  | 433.7  | 431.6  |
| 45°   | 11580.0 | 10196.7 | 4522.5 | 1669.6 | 827.4  | 549.5  | 469.5  | 425.3  | 412.7  | 404.2  | 404.2  |
| 47.5° | 12443.2 | 10714.6 | 4404.6 | 1488.6 | 705.3  | 496.9  | 433.7  | 404.2  | 393.7  | 383.2  | 383.2  |
| 50°   | 13247.5 | 11059.9 | 4120.4 | 1278.0 | 608.5  | 454.8  | 406.4  | 385.3  | 374.8  | 364.2  | 364.2  |
| 52.5° | 13872.8 | 11114.7 | 3650.9 | 1061.1 | 541.1  | 423.2  | 389.5  | 370.6  | 357.9  | 347.4  | 345.3  |
| 55°   | 14150.7 | 10771.5 | 2983.4 | 859.0  | 488.5  | 395.8  | 372.7  | 353.7  | 339.0  | 328.5  | 326.3  |
| 57.5° | 14079.2 | 10049.3 | 2326.5 | 690.6  | 437.9  | 368.5  | 351.6  | 339.0  | 322.1  | 305.3  | 303.2  |
| 60°   | 13727.6 | 9082.9  | 1753.8 | 574.8  | 391.6  | 339.0  | 328.5  | 317.9  | 294.8  | 269.5  | 265.3  |
| 62.5° | 13119.1 | 7868.1  | 1250.6 | 475.8  | 341.1  | 305.3  | 301.1  | 292.7  | 259.0  | 212.7  | 208.4  |
| 65°   | 12188.5 | 6392.2  | 842.2  | 395.8  | 292.7  | 267.4  | 269.5  | 254.8  | 210.5  | 157.9  | 153.7  |
| 67.5° | 10828.3 | 4674.1  | 539.0  | 324.2  | 244.2  | 223.2  | 225.3  | 216.9  | 179.0  | 134.7  | 128.4  |
| 70°   | 9095.6  | 3095.0  | 351.6  | 246.3  | 195.8  | 172.6  | 185.3  | 187.4  | 151.6  | 109.5  | 105.3  |
| 72.5° | 6668.0  | 1827.5  | 246.3  | 183.2  | 143.2  | 120.0  | 151.6  | 155.8  | 122.1  | 82.1   | 77.9   |
| 75°   | 3800.3  | 867.4   | 185.3  | 132.6  | 88.4   | 84.2   | 117.9  | 117.9  | 84.2   | 54.7   | 50.5   |
| 77.5° | 1595.9  | 362.1   | 130.5  | 86.3   | 50.5   | 48.4   | 80.0   | 73.7   | 42.1   | 25.3   | 25.3   |
| 80°   | 461.1   | 162.1   | 69.5   | 42.1   | 21.1   | 18.9   | 31.6   | 23.2   | 10.5   | 4.2    | 4.2    |
| 82.5° | 181.1   | 71.6    | 27.4   | 16.8   | 8.4    | 8.4    | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 107.4   | 29.5    | 12.6   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 27.4    | 6.3     | 4.2    | 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    |

(END OF REPORT)