

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: P953789

Luminaire Tested: **GALN-SB7B-727-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31449 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - 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



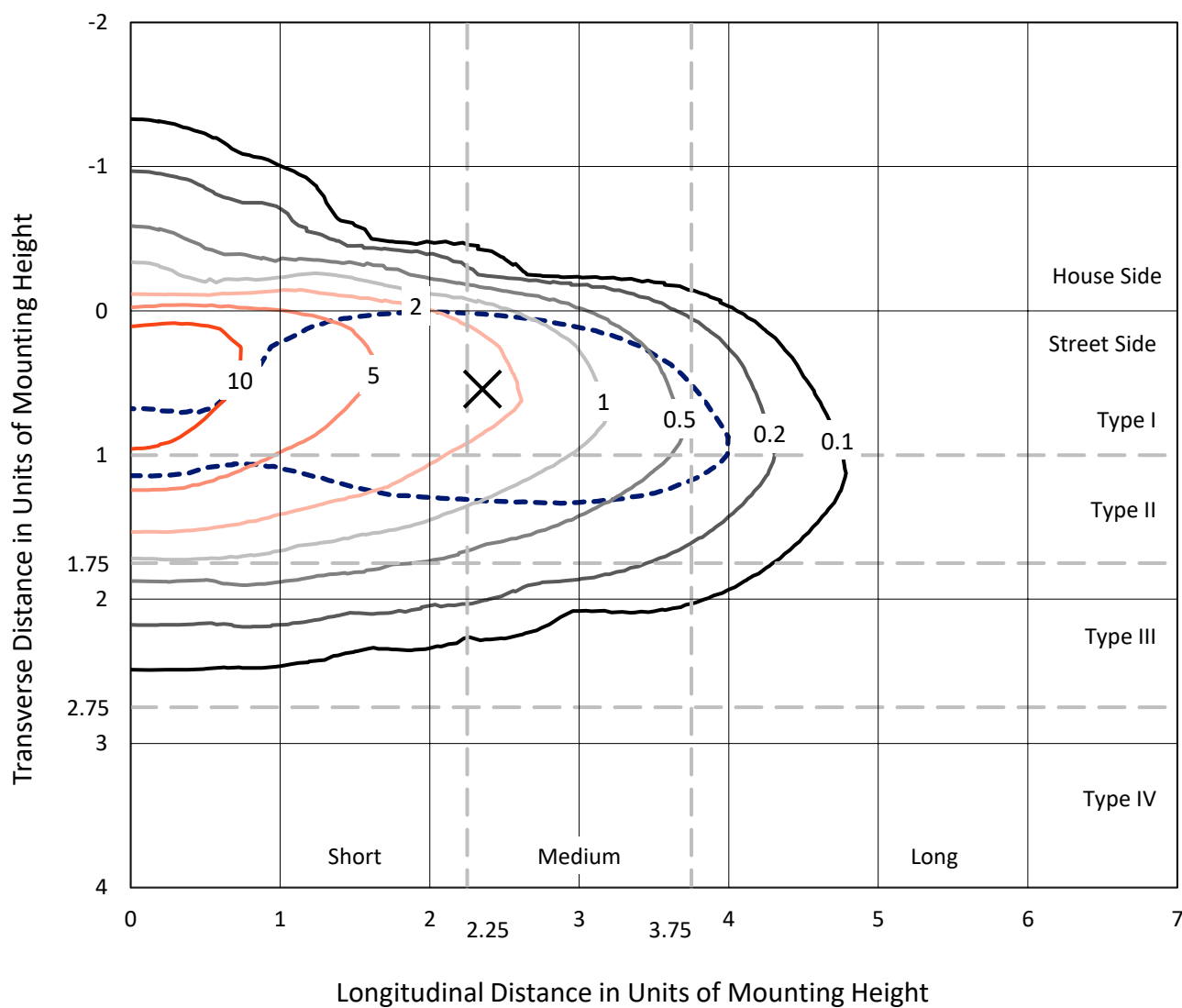
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## Iso-Footcandle Lines of Horizontal Illumination

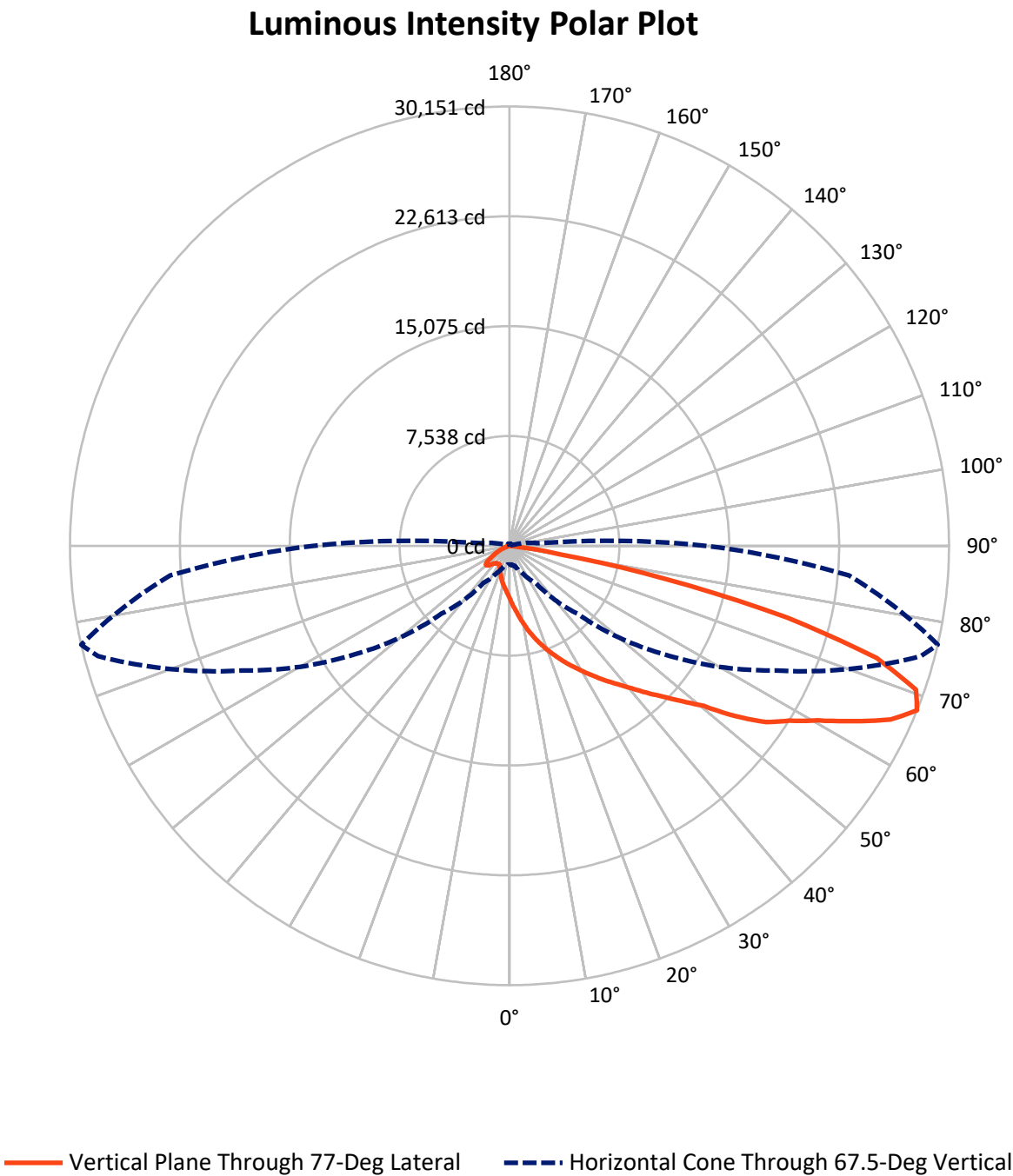
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2313.7   | 0.0    | 2313.7  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 29135.3  | 0.0    | 29135.3 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 31449.0  | 0.0    | 31449.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 370.1   | 1.2       |
| 10°-20°   | 1296.2  | 4.1       |
| 20°-30°   | 2501.3  | 8.0       |
| 30°-40°   | 4342.5  | 13.8      |
| 40°-50°   | 6305.0  | 20.0      |
| 50°-60°   | 7240.5  | 23.0      |
| 60°-70°   | 6286.1  | 20.0      |
| 70°-80°   | 2960.8  | 9.4       |
| 80°-90°   | 146.4   | 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°    | 31449.0 | 100.0     |
| 0°-180°   | 31449.0 | 100.0     |

**Coefficient of Utilization**



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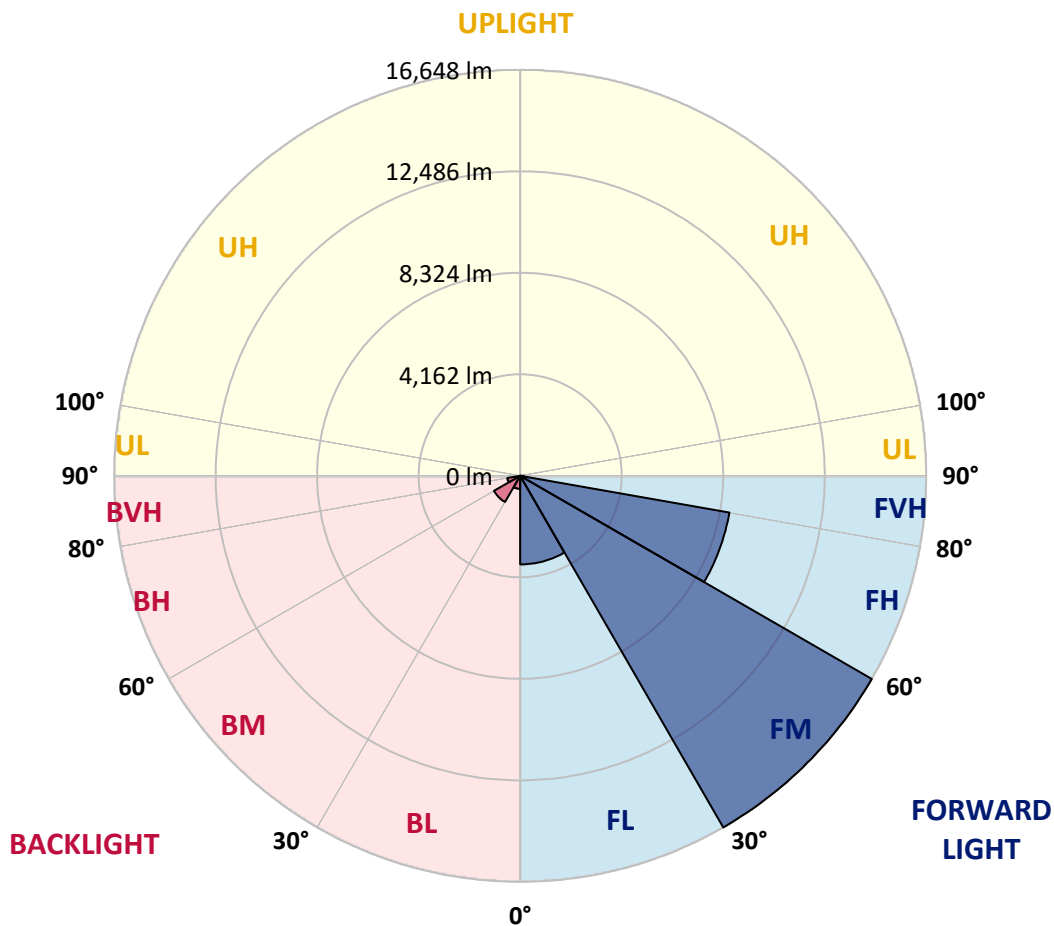
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3632.0  | 11.5      |                         |      |          |
| FM   | (30°-60°)   | 16648.3 | 52.9      |                         |      |          |
| FH   | (60°-80°)   | 8711.3  | 27.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 143.7   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 535.7   | 1.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1239.7  | 3.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 535.7   | 1.7       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 2.7     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  | 3626.5  |
| 2.5°  | 5020.9  | 5052.1  | 5007.2  | 4921.3  | 4792.4  | 4708.4  | 4503.4  | 4310.0  | 4095.2  | 4026.9  | 3812.1  |
| 5°    | 6120.4  | 6147.7  | 6096.9  | 6003.2  | 5831.4  | 5667.3  | 5397.8  | 4993.6  | 4573.7  | 4438.9  | 4058.1  |
| 7.5°  | 6934.7  | 6950.4  | 6930.8  | 6844.9  | 6680.9  | 6495.3  | 6194.6  | 5716.1  | 5093.2  | 4944.7  | 4360.8  |
| 10°   | 7520.6  | 7571.4  | 7565.5  | 7532.3  | 7423.0  | 7272.6  | 6952.3  | 6407.5  | 5675.1  | 5483.7  | 4702.6  |
| 12.5° | 7909.2  | 7965.9  | 7999.1  | 8073.3  | 8067.4  | 7971.7  | 7690.5  | 7114.4  | 6255.1  | 6030.5  | 5087.3  |
| 15°   | 8022.5  | 8083.0  | 8210.0  | 8381.8  | 8534.2  | 8583.0  | 8385.7  | 7807.7  | 6893.7  | 6606.7  | 5481.8  |
| 17.5° | 7958.1  | 8051.8  | 8204.1  | 8475.6  | 8809.5  | 9030.2  | 9008.7  | 8477.5  | 7473.7  | 7145.7  | 5868.5  |
| 20°   | 8100.6  | 8190.5  | 8309.6  | 8538.1  | 8926.7  | 9327.0  | 9487.2  | 9118.1  | 8049.8  | 7706.1  | 6274.7  |
| 22.5° | 8889.6  | 8874.0  | 8885.7  | 8922.8  | 9155.2  | 9551.6  | 9881.7  | 9700.0  | 8620.1  | 8268.6  | 6704.3  |
| 25°   | 10139.4 | 10069.1 | 9950.0  | 9748.9  | 9690.3  | 9881.7  | 10225.4 | 10215.6 | 9221.6  | 8844.7  | 7143.7  |
| 27.5° | 11572.9 | 11561.2 | 11281.9 | 10797.6 | 10524.2 | 10450.0 | 10614.0 | 10717.5 | 9817.2  | 9414.9  | 7585.1  |
| 30°   | 12945.8 | 12977.0 | 12600.1 | 12061.1 | 11559.2 | 11268.2 | 11119.8 | 11194.0 | 10422.6 | 10030.1 | 8040.1  |
| 32.5° | 14140.9 | 14174.1 | 13764.0 | 13133.2 | 12512.2 | 12160.7 | 11848.2 | 11664.7 | 11082.7 | 10655.0 | 8540.0  |
| 35°   | 15150.6 | 15183.8 | 14713.1 | 14016.0 | 13353.9 | 13035.6 | 12682.1 | 12180.2 | 11746.7 | 11348.3 | 9096.6  |
| 37.5° | 16052.8 | 16043.1 | 15412.3 | 14709.2 | 14058.9 | 13807.0 | 13621.5 | 12814.9 | 12430.2 | 12045.5 | 9713.7  |
| 40°   | 16586.0 | 16627.0 | 16088.0 | 15312.7 | 14681.9 | 14498.3 | 14486.6 | 13601.9 | 13219.2 | 12846.2 | 10389.4 |
| 42.5° | 16742.2 | 16814.5 | 16423.9 | 15787.2 | 15215.0 | 15015.8 | 15322.4 | 14453.4 | 14137.0 | 13773.8 | 11153.0 |
| 45°   | 16461.0 | 16531.3 | 16353.6 | 15912.2 | 15578.3 | 15449.4 | 16041.1 | 15336.1 | 15117.4 | 14758.1 | 12014.2 |
| 47.5° | 15640.8 | 15728.6 | 15771.6 | 15677.9 | 15674.0 | 15804.8 | 16685.6 | 16265.7 | 16281.3 | 15914.2 | 13012.2 |
| 50°   | 14053.1 | 14201.5 | 14596.0 | 14928.0 | 15441.6 | 16086.0 | 17312.4 | 17273.4 | 17593.7 | 17277.3 | 14312.8 |
| 52.5° | 11166.7 | 11377.6 | 12736.8 | 13644.9 | 14799.1 | 16033.3 | 18001.8 | 18890.4 | 19896.1 | 19433.3 | 16146.6 |
| 55°   | 8973.6  | 8973.6  | 10078.9 | 11777.9 | 13545.3 | 15685.7 | 18302.6 | 19941.0 | 21464.3 | 21354.9 | 17437.4 |
| 57.5° | 7315.6  | 7403.4  | 8108.4  | 9610.2  | 11731.1 | 14857.6 | 18488.1 | 20601.1 | 22727.8 | 22647.8 | 18699.0 |
| 60°   | 4515.1  | 4704.5  | 6036.4  | 7518.7  | 9666.8  | 13383.2 | 18370.9 | 21269.0 | 24260.9 | 24325.3 | 20218.4 |
| 62.5° | 2542.7  | 2613.0  | 3206.7  | 5409.5  | 7516.7  | 11401.0 | 17474.5 | 21642.0 | 26221.6 | 26495.0 | 21784.6 |
| 65°   | 1755.7  | 1790.8  | 2019.3  | 3366.8  | 5210.3  | 9077.1  | 15722.8 | 21409.6 | 28186.2 | 28738.9 | 23112.6 |
| 67.5° | 1275.2  | 1292.8  | 1435.4  | 2056.4  | 3091.4  | 6581.3  | 12977.0 | 20237.9 | 29227.1 | 30150.8 | 23366.4 |
| 70°   | 980.4   | 992.1   | 1095.6  | 1351.4  | 1826.0  | 4062.0  | 9424.7  | 17908.1 | 28473.3 | 29576.6 | 22065.8 |
| 72.5° | 796.8   | 808.5   | 888.6   | 999.9   | 1210.8  | 2402.1  | 5712.2  | 14543.2 | 25145.5 | 26336.8 | 18784.9 |
| 75°   | 671.8   | 687.4   | 759.7   | 831.9   | 949.1   | 1542.8  | 2679.4  | 10127.7 | 18909.9 | 19691.1 | 13062.9 |
| 77.5° | 373.0   | 343.7   | 617.1   | 689.4   | 800.7   | 976.4   | 1253.8  | 5960.2  | 10590.6 | 10807.3 | 5796.2  |
| 80°   | 232.4   | 240.2   | 490.2   | 554.6   | 615.2   | 492.1   | 574.2   | 2294.7  | 3671.4  | 3487.9  | 1122.9  |
| 82.5° | 13.7    | 31.2    | 376.9   | 400.3   | 421.8   | 210.9   | 216.8   | 779.2   | 884.7   | 812.4   | 199.2   |
| 85°   | 0.0     | 0.0     | 171.9   | 138.7   | 146.5   | 60.5    | 62.5    | 181.6   | 119.1   | 128.9   | 39.1    |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.9     | 0.0     | 5.9     | 11.7    | 15.6    | 5.9     | 7.8     | 13.7    |
| 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°    | 3626.5  | 3626.5 | 3626.5 | 3626.5 | 3626.5 | 3626.5 | 3626.5 | 3626.5 | 3626.5 | 3626.5 | 3626.5 |
| 2.5°  | 3675.4  | 3538.7 | 3261.3 | 2989.9 | 2769.2 | 2564.2 | 2417.7 | 2279.0 | 2208.7 | 2204.8 | 2200.9 |
| 5°    | 3786.7  | 3499.6 | 2945.0 | 2454.8 | 2060.3 | 1743.9 | 1538.9 | 1392.4 | 1318.2 | 1292.8 | 1288.9 |
| 7.5°  | 3942.9  | 3511.3 | 2667.7 | 1986.1 | 1521.3 | 1249.9 | 1132.7 | 1085.8 | 1070.2 | 1052.6 | 1048.7 |
| 10°   | 4140.1  | 3538.7 | 2419.6 | 1599.4 | 1199.1 | 1062.4 | 1015.5 | 996.0  | 984.3  | 972.5  | 968.6  |
| 12.5° | 4360.8  | 3564.0 | 2173.6 | 1328.0 | 1054.6 | 984.3  | 951.1  | 927.6  | 912.0  | 898.3  | 894.4  |
| 15°   | 4575.6  | 3579.7 | 1917.7 | 1138.5 | 980.4  | 923.7  | 888.6  | 863.2  | 841.7  | 826.1  | 824.1  |
| 17.5° | 4788.5  | 3601.1 | 1677.5 | 1025.3 | 919.8  | 863.2  | 828.0  | 796.8  | 779.2  | 761.6  | 759.7  |
| 20°   | 5024.8  | 3597.2 | 1451.0 | 945.2  | 859.3  | 802.6  | 765.5  | 736.2  | 718.7  | 699.1  | 697.2  |
| 22.5° | 5243.5  | 3577.7 | 1251.8 | 876.9  | 796.8  | 742.1  | 701.1  | 671.8  | 654.2  | 638.6  | 636.6  |
| 25°   | 5495.5  | 3562.1 | 1085.8 | 814.4  | 738.2  | 683.5  | 638.6  | 611.3  | 591.7  | 578.1  | 576.1  |
| 27.5° | 5737.6  | 3538.7 | 964.7  | 757.7  | 681.6  | 628.8  | 585.9  | 554.6  | 537.0  | 527.3  | 527.3  |
| 30°   | 5975.9  | 3532.8 | 919.8  | 703.0  | 630.8  | 578.1  | 535.1  | 505.8  | 492.1  | 488.2  | 486.3  |
| 32.5° | 6262.9  | 3548.4 | 939.3  | 683.5  | 583.9  | 531.2  | 490.2  | 468.7  | 455.0  | 455.0  | 455.0  |
| 35°   | 6569.5  | 3544.5 | 968.6  | 701.1  | 552.7  | 484.3  | 453.1  | 439.4  | 425.7  | 425.7  | 425.7  |
| 37.5° | 6954.3  | 3550.4 | 992.1  | 730.4  | 541.0  | 445.3  | 427.7  | 410.1  | 402.3  | 402.3  | 402.3  |
| 40°   | 7528.4  | 3743.7 | 980.4  | 755.8  | 537.0  | 417.9  | 382.8  | 376.9  | 371.1  | 371.1  | 371.1  |
| 42.5° | 8231.5  | 4163.6 | 996.0  | 757.7  | 535.1  | 398.4  | 351.5  | 363.2  | 349.6  | 347.6  | 345.7  |
| 45°   | 9000.9  | 4622.5 | 1095.6 | 716.7  | 533.1  | 388.6  | 335.9  | 349.6  | 328.1  | 328.1  | 328.1  |
| 47.5° | 9764.5  | 5077.5 | 1197.1 | 658.1  | 527.3  | 386.7  | 322.2  | 314.4  | 308.6  | 310.5  | 310.5  |
| 50°   | 10817.1 | 5448.6 | 1236.2 | 578.1  | 513.6  | 382.8  | 296.8  | 298.8  | 294.9  | 298.8  | 298.8  |
| 52.5° | 11963.5 | 5526.7 | 1189.3 | 488.2  | 474.6  | 371.1  | 279.3  | 287.1  | 285.1  | 289.0  | 289.0  |
| 55°   | 12678.2 | 5442.7 | 982.3  | 406.2  | 414.0  | 324.2  | 261.7  | 277.3  | 277.3  | 277.3  | 277.3  |
| 57.5° | 13416.4 | 5085.3 | 697.2  | 330.0  | 343.7  | 265.6  | 246.1  | 267.5  | 265.6  | 263.6  | 263.6  |
| 60°   | 13947.6 | 4507.3 | 458.9  | 271.5  | 273.4  | 218.7  | 228.5  | 251.9  | 250.0  | 240.2  | 240.2  |
| 62.5° | 14344.0 | 3868.7 | 294.9  | 230.4  | 209.0  | 197.2  | 209.0  | 228.5  | 220.7  | 199.2  | 195.3  |
| 65°   | 14299.1 | 2984.0 | 226.5  | 197.2  | 171.9  | 171.9  | 181.6  | 199.2  | 175.8  | 140.6  | 136.7  |
| 67.5° | 13465.2 | 2019.3 | 187.5  | 166.0  | 144.5  | 142.6  | 150.4  | 166.0  | 150.4  | 119.1  | 115.2  |
| 70°   | 11975.2 | 1320.2 | 150.4  | 128.9  | 115.2  | 105.5  | 121.1  | 142.6  | 126.9  | 95.7   | 91.8   |
| 72.5° | 9719.6  | 804.6  | 113.3  | 93.7   | 84.0   | 68.4   | 95.7   | 117.2  | 101.6  | 70.3   | 66.4   |
| 75°   | 6288.3  | 410.1  | 78.1   | 60.5   | 44.9   | 41.0   | 70.3   | 87.9   | 70.3   | 43.0   | 37.1   |
| 77.5° | 2406.0  | 171.9  | 43.0   | 27.3   | 23.4   | 19.5   | 39.1   | 52.7   | 29.3   | 9.8    | 7.8    |
| 80°   | 462.8   | 72.3   | 21.5   | 13.7   | 11.7   | 7.8    | 5.9    | 3.9    | 0.0    | 0.0    | 0.0    |
| 82.5° | 80.1    | 23.4   | 7.8    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 27.3    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.8     | 0.0    | 0.0    | 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)