

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: P948797

Luminaire Tested: **GALN-SB3D-727-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21814 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
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

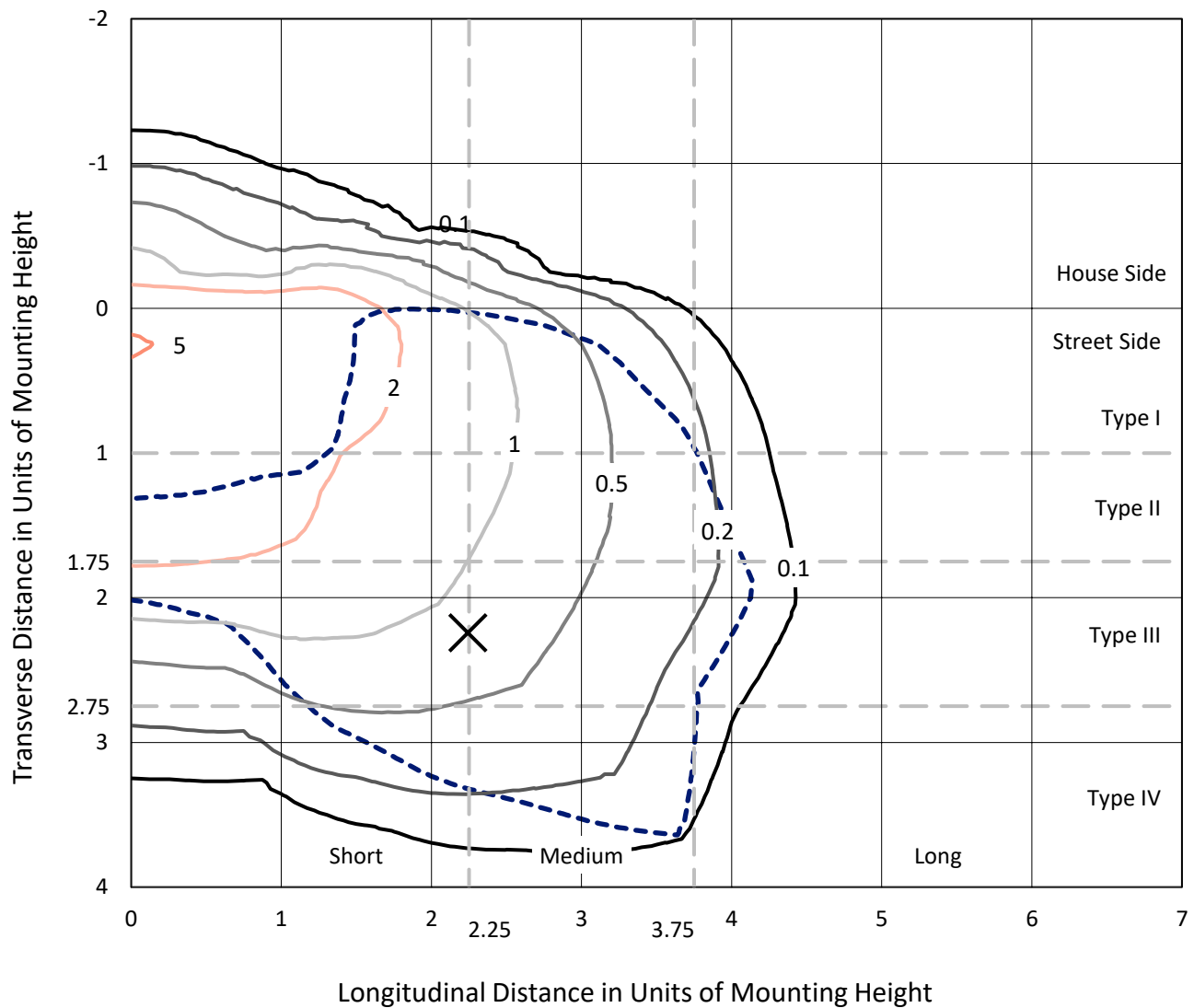


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## Iso-Footcandle Lines of Horizontal Illumination

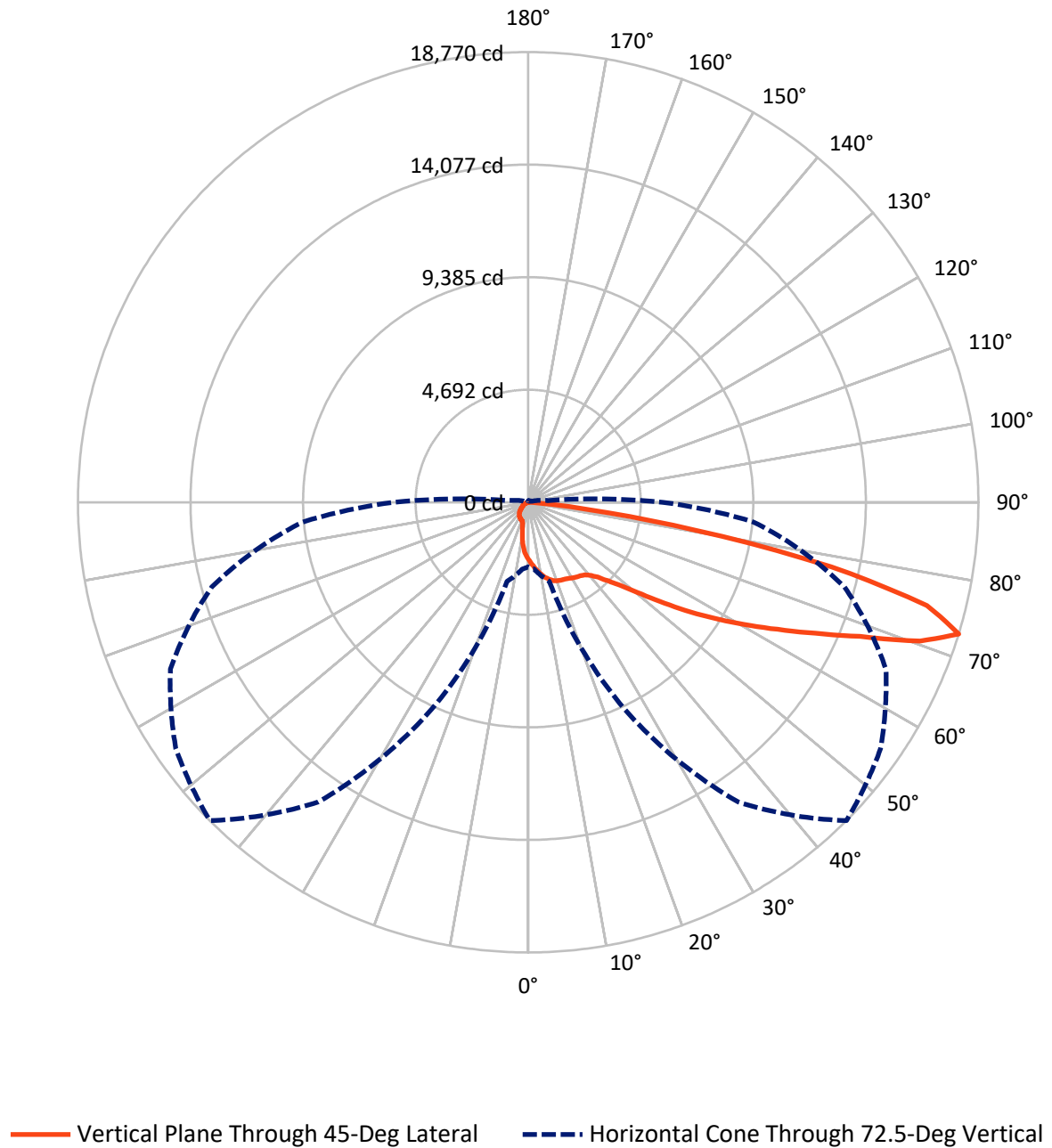
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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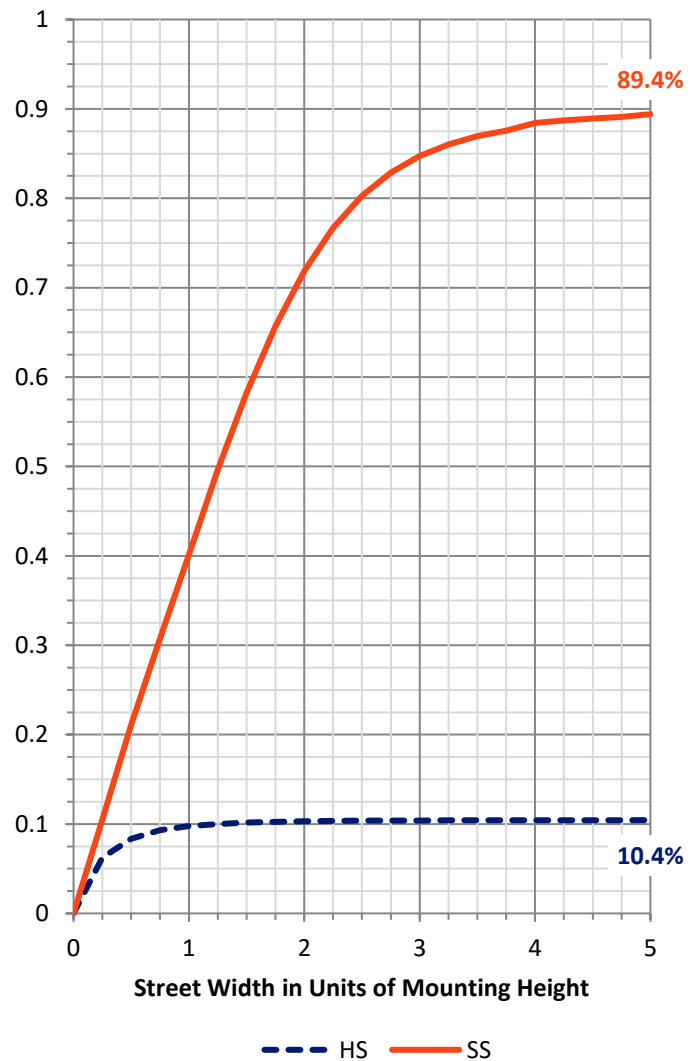
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2292.0   | 0.0    | 2292.0  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 19522.0  | 0.0    | 19522.0 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 21814.0  | 0.0    | 21814.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 225.2   | 1.0       |
| 10°-20°   | 658.1   | 3.0       |
| 20°-30°   | 1080.6  | 5.0       |
| 30°-40°   | 1532.6  | 7.0       |
| 40°-50°   | 2533.2  | 11.6      |
| 50°-60°   | 4550.7  | 20.9      |
| 60°-70°   | 6318.8  | 29.0      |
| 70°-80°   | 4583.5  | 21.0      |
| 80°-90°   | 331.4   | 1.5       |
| 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°    | 21814.0 | 100.0     |
| 0°-180°   | 21814.0 | 100.0     |

**Coefficient of Utilization**



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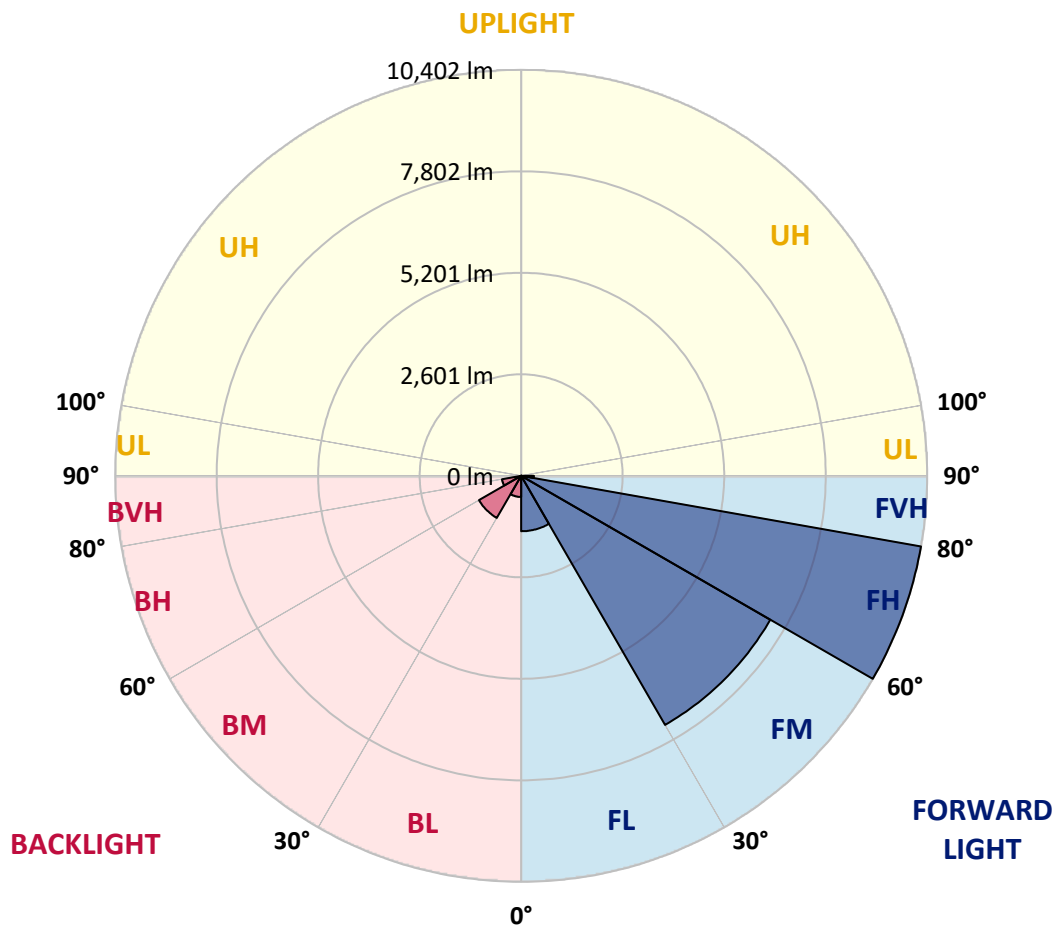
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1421.0  | 6.5       |                         |      |          |
| FM   | (30°-60°)   | 7369.9  | 33.8      |                         |      |          |
| FH   | (60°-80°)   | 10402.5 | 47.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 328.6   | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 542.9   | 2.5       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1246.5  | 5.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 499.8   | 2.3       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.8     | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  | 2389.8  |
| 2.5°  | 2610.1  | 2614.6  | 2611.6  | 2593.8  | 2564.0  | 2547.6  | 2538.7  | 2508.9  | 2489.5  | 2455.3  | 2419.5  |
| 5°    | 2849.9  | 2867.7  | 2857.3  | 2821.6  | 2765.0  | 2724.8  | 2712.9  | 2651.8  | 2596.7  | 2532.7  | 2458.3  |
| 7.5°  | 3104.5  | 3113.4  | 3094.0  | 3047.9  | 2972.0  | 2903.5  | 2893.0  | 2808.2  | 2720.3  | 2622.0  | 2520.8  |
| 10°   | 3324.8  | 3335.3  | 3305.5  | 3238.5  | 3152.1  | 3067.2  | 3052.4  | 2958.6  | 2854.3  | 2733.7  | 2604.2  |
| 12.5° | 3509.5  | 3519.9  | 3481.2  | 3400.8  | 3305.5  | 3217.6  | 3202.7  | 3104.5  | 2989.8  | 2855.8  | 2695.0  |
| 15°   | 3649.4  | 3668.8  | 3616.7  | 3530.3  | 3427.6  | 3339.7  | 3332.3  | 3235.5  | 3123.8  | 2974.9  | 2803.7  |
| 17.5° | 3731.3  | 3750.7  | 3701.5  | 3597.3  | 3509.5  | 3435.0  | 3426.1  | 3345.7  | 3241.5  | 3098.5  | 2909.4  |
| 20°   | 3744.7  | 3762.6  | 3710.5  | 3619.6  | 3546.7  | 3487.1  | 3482.7  | 3424.6  | 3348.7  | 3211.7  | 3024.1  |
| 22.5° | 3704.5  | 3726.9  | 3679.2  | 3606.2  | 3555.6  | 3524.4  | 3518.4  | 3485.6  | 3442.5  | 3326.3  | 3131.3  |
| 25°   | 3662.8  | 3680.7  | 3645.0  | 3580.9  | 3554.1  | 3551.2  | 3555.6  | 3549.7  | 3540.7  | 3442.5  | 3256.3  |
| 27.5° | 3659.8  | 3679.2  | 3639.0  | 3578.0  | 3563.1  | 3594.3  | 3598.8  | 3627.1  | 3634.5  | 3548.2  | 3376.9  |
| 30°   | 3685.2  | 3698.6  | 3659.8  | 3595.8  | 3588.4  | 3659.8  | 3661.3  | 3712.0  | 3723.9  | 3637.5  | 3496.1  |
| 32.5° | 3740.3  | 3755.1  | 3716.4  | 3622.6  | 3612.2  | 3712.0  | 3716.4  | 3783.4  | 3802.8  | 3732.8  | 3621.1  |
| 35°   | 3869.8  | 3887.7  | 3843.0  | 3697.1  | 3659.8  | 3761.1  | 3774.5  | 3853.4  | 3892.1  | 3834.1  | 3750.7  |
| 37.5° | 4192.9  | 4140.8  | 4079.7  | 3847.5  | 3768.5  | 3838.5  | 3860.9  | 3953.2  | 4021.7  | 3954.7  | 3905.5  |
| 40°   | 4995.4  | 4831.7  | 4641.1  | 4103.6  | 3959.1  | 4003.8  | 4021.7  | 4114.0  | 4207.8  | 4142.3  | 4118.4  |
| 42.5° | 6200.0  | 6006.4  | 5699.7  | 4693.2  | 4246.5  | 4268.8  | 4282.2  | 4362.6  | 4495.2  | 4443.0  | 4449.0  |
| 45°   | 7273.5  | 7203.6  | 6890.9  | 5699.7  | 4784.0  | 4673.8  | 4690.2  | 4731.9  | 4926.9  | 4907.6  | 4946.3  |
| 47.5° | 8098.4  | 8058.2  | 7817.0  | 6855.1  | 5692.3  | 5169.6  | 5215.8  | 5235.2  | 5516.6  | 5585.1  | 5689.3  |
| 50°   | 8732.7  | 8717.8  | 8501.9  | 7882.5  | 6879.0  | 5900.7  | 5917.1  | 5875.4  | 6296.8  | 6466.5  | 6664.6  |
| 52.5° | 9331.3  | 9381.9  | 9222.6  | 8836.9  | 8146.1  | 6858.1  | 6855.1  | 6658.6  | 7227.4  | 7483.5  | 7821.5  |
| 55°   | 9871.8  | 9889.6  | 9906.0  | 9810.7  | 9420.6  | 7948.0  | 7919.7  | 7598.1  | 8306.9  | 8571.9  | 8938.2  |
| 57.5° | 10379.5 | 10386.9 | 10532.9 | 10727.9 | 10747.3 | 9118.4  | 9066.2  | 8680.6  | 9486.1  | 9675.2  | 9900.1  |
| 60°   | 10720.5 | 10754.7 | 11062.9 | 11604.9 | 11841.6 | 10325.9 | 10297.6 | 9904.5  | 10686.2 | 10774.1 | 10732.4 |
| 62.5° | 10229.1 | 10437.6 | 11214.8 | 12289.8 | 12875.0 | 11664.5 | 11651.1 | 11281.8 | 11948.9 | 11877.4 | 11520.0 |
| 65°   | 8280.1  | 8633.0  | 9999.8  | 12752.9 | 13889.0 | 13159.4 | 13178.7 | 12785.6 | 13245.7 | 13013.5 | 12160.3 |
| 67.5° | 5792.0  | 6164.3  | 7781.3  | 12790.1 | 15022.1 | 14914.8 | 15026.5 | 14410.1 | 14623.0 | 14101.9 | 12312.2 |
| 70°   | 4005.3  | 4197.4  | 5250.0  | 11989.1 | 15905.0 | 17332.9 | 17329.9 | 16405.3 | 15992.8 | 14597.7 | 11537.9 |
| 72.5° | 2693.5  | 2793.3  | 3409.7  | 9511.4  | 15255.8 | 18769.7 | 18683.4 | 17930.0 | 16454.4 | 13652.2 | 9426.6  |
| 75°   | 1136.1  | 1209.0  | 1578.3  | 5345.3  | 12069.5 | 17172.1 | 16938.3 | 15845.4 | 14620.0 | 10750.2 | 5881.4  |
| 77.5° | 360.3   | 391.6   | 622.4   | 1913.3  | 6648.2  | 12907.7 | 12660.6 | 9895.6  | 9798.8  | 5393.0  | 2150.0  |
| 80°   | 171.2   | 199.5   | 349.9   | 768.3   | 2616.1  | 7020.4  | 6986.2  | 4489.2  | 4215.2  | 1456.2  | 431.8   |
| 82.5° | 74.4    | 87.8    | 193.6   | 411.0   | 1170.3  | 2504.4  | 2555.0  | 1527.7  | 1264.1  | 552.4   | 132.5   |
| 85°   | 23.8    | 31.3    | 89.3    | 189.1   | 494.3   | 622.4   | 614.9   | 363.3   | 509.2   | 300.8   | 46.2    |
| 87.5° | 0.0     | 0.0     | 29.8    | 43.2    | 50.6    | 35.7    | 40.2    | 31.3    | 141.5   | 83.4    | 16.4    |
| 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°    | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 | 2389.8 |
| 2.5°  | 2401.7 | 2377.9 | 2336.2 | 2297.5 | 2263.2 | 2229.0 | 2208.1 | 2178.3 | 2175.4 | 2175.4 | 2182.8 |
| 5°    | 2418.1 | 2379.3 | 2304.9 | 2226.0 | 2135.2 | 2048.8 | 1962.4 | 1879.1 | 1852.3 | 1832.9 | 1841.8 |
| 7.5°  | 2465.7 | 2404.7 | 2287.0 | 2136.6 | 1963.9 | 1774.8 | 1642.3 | 1499.4 | 1444.3 | 1414.5 | 1419.0 |
| 10°   | 2534.2 | 2450.8 | 2272.1 | 2008.6 | 1728.7 | 1471.1 | 1282.0 | 1127.1 | 1067.6 | 1042.3 | 1042.3 |
| 12.5° | 2610.1 | 2507.4 | 2245.3 | 1849.3 | 1471.1 | 1162.9 | 978.2  | 906.8  | 897.8  | 897.8  | 897.8  |
| 15°   | 2701.0 | 2575.9 | 2199.2 | 1661.7 | 1201.6 | 920.2  | 854.7  | 857.6  | 866.6  | 872.5  | 872.5  |
| 17.5° | 2794.8 | 2648.8 | 2126.2 | 1451.7 | 963.4  | 827.9  | 829.3  | 833.8  | 841.3  | 847.2  | 847.2  |
| 20°   | 2896.0 | 2721.8 | 2029.4 | 1228.4 | 826.4  | 801.1  | 805.5  | 810.0  | 815.9  | 818.9  | 820.4  |
| 22.5° | 3004.7 | 2790.3 | 1914.8 | 1009.5 | 780.2  | 778.7  | 780.2  | 784.7  | 792.1  | 792.1  | 795.1  |
| 25°   | 3120.8 | 2866.2 | 1783.8 | 850.2  | 756.4  | 756.4  | 759.4  | 762.3  | 768.3  | 768.3  | 769.8  |
| 27.5° | 3240.0 | 2936.2 | 1645.3 | 766.8  | 735.5  | 734.1  | 734.1  | 738.5  | 741.5  | 743.0  | 744.5  |
| 30°   | 3371.0 | 3018.1 | 1506.8 | 748.9  | 719.2  | 711.7  | 707.3  | 710.2  | 713.2  | 714.7  | 717.7  |
| 32.5° | 3505.0 | 3097.0 | 1383.2 | 756.4  | 702.8  | 689.4  | 674.5  | 671.5  | 671.5  | 677.5  | 681.9  |
| 35°   | 3653.9 | 3183.4 | 1287.9 | 781.7  | 693.9  | 656.6  | 632.8  | 619.4  | 620.9  | 629.8  | 634.3  |
| 37.5° | 3832.6 | 3287.6 | 1218.0 | 804.0  | 687.9  | 619.4  | 580.7  | 564.3  | 553.9  | 564.3  | 561.3  |
| 40°   | 4066.3 | 3441.0 | 1167.3 | 821.9  | 680.5  | 576.2  | 524.1  | 497.3  | 478.0  | 483.9  | 480.9  |
| 42.5° | 4410.3 | 3682.2 | 1148.0 | 823.4  | 664.1  | 525.6  | 466.0  | 430.3  | 402.0  | 403.5  | 397.6  |
| 45°   | 4892.7 | 4063.4 | 1247.7 | 804.0  | 628.3  | 470.5  | 405.0  | 357.3  | 339.5  | 335.0  | 329.1  |
| 47.5° | 5553.8 | 4618.7 | 1478.5 | 763.8  | 576.2  | 416.9  | 345.4  | 305.2  | 291.8  | 284.4  | 279.9  |
| 50°   | 6439.7 | 5331.9 | 1734.6 | 719.2  | 524.1  | 366.3  | 296.3  | 271.0  | 262.1  | 254.6  | 253.1  |
| 52.5° | 7467.1 | 6055.6 | 1944.6 | 674.5  | 472.0  | 321.6  | 265.0  | 250.1  | 242.7  | 236.7  | 235.3  |
| 55°   | 8409.6 | 6554.4 | 1932.7 | 626.8  | 421.4  | 285.9  | 242.7  | 233.8  | 224.8  | 218.9  | 215.9  |
| 57.5° | 8996.3 | 6624.4 | 1593.2 | 574.7  | 363.3  | 257.6  | 221.9  | 215.9  | 205.5  | 198.0  | 196.5  |
| 60°   | 9265.8 | 6225.3 | 1116.7 | 506.2  | 305.2  | 230.8  | 199.5  | 196.5  | 183.1  | 172.7  | 169.7  |
| 62.5° | 9314.9 | 5483.8 | 744.5  | 421.4  | 254.6  | 205.5  | 177.2  | 172.7  | 154.9  | 137.0  | 128.0  |
| 65°   | 9115.4 | 4423.7 | 515.2  | 329.1  | 217.4  | 178.7  | 151.9  | 142.9  | 123.6  | 105.7  | 99.8   |
| 67.5° | 8484.1 | 3106.0 | 358.8  | 236.7  | 184.6  | 141.5  | 120.6  | 117.6  | 102.7  | 87.8   | 83.4   |
| 70°   | 7327.1 | 1770.4 | 239.7  | 177.2  | 145.9  | 96.8   | 95.3   | 98.3   | 83.4   | 71.5   | 65.5   |
| 72.5° | 5617.8 | 810.0  | 148.9  | 129.5  | 99.8   | 65.5   | 75.9   | 77.4   | 64.0   | 53.6   | 47.6   |
| 75°   | 3307.0 | 346.9  | 93.8   | 83.4   | 50.6   | 43.2   | 55.1   | 56.6   | 43.2   | 34.2   | 29.8   |
| 77.5° | 1125.6 | 131.0  | 59.6   | 49.1   | 25.3   | 23.8   | 35.7   | 35.7   | 23.8   | 13.4   | 10.4   |
| 80°   | 256.1  | 49.1   | 29.8   | 19.4   | 11.9   | 10.4   | 11.9   | 10.4   | 6.0    | 1.5    | 0.0    |
| 82.5° | 73.0   | 19.4   | 11.9   | 7.4    | 4.5    | 4.5    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.8   | 8.9    | 3.0    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.9    | 1.5    | 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)