

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: STREETWORKS

Report Number: P192654

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-06-LED-U-AFL-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18571.9 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 193  
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: 28.75 FT



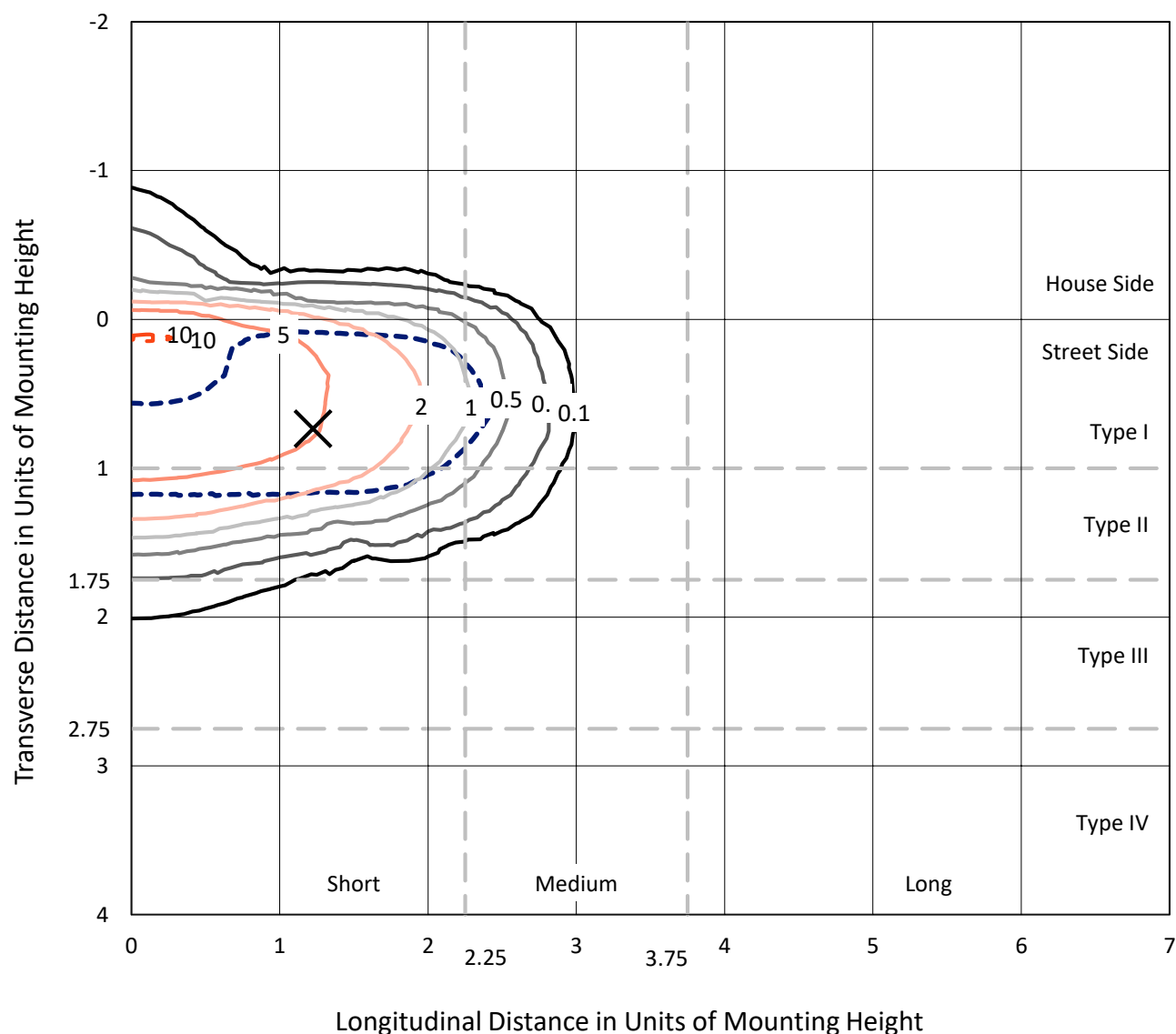
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

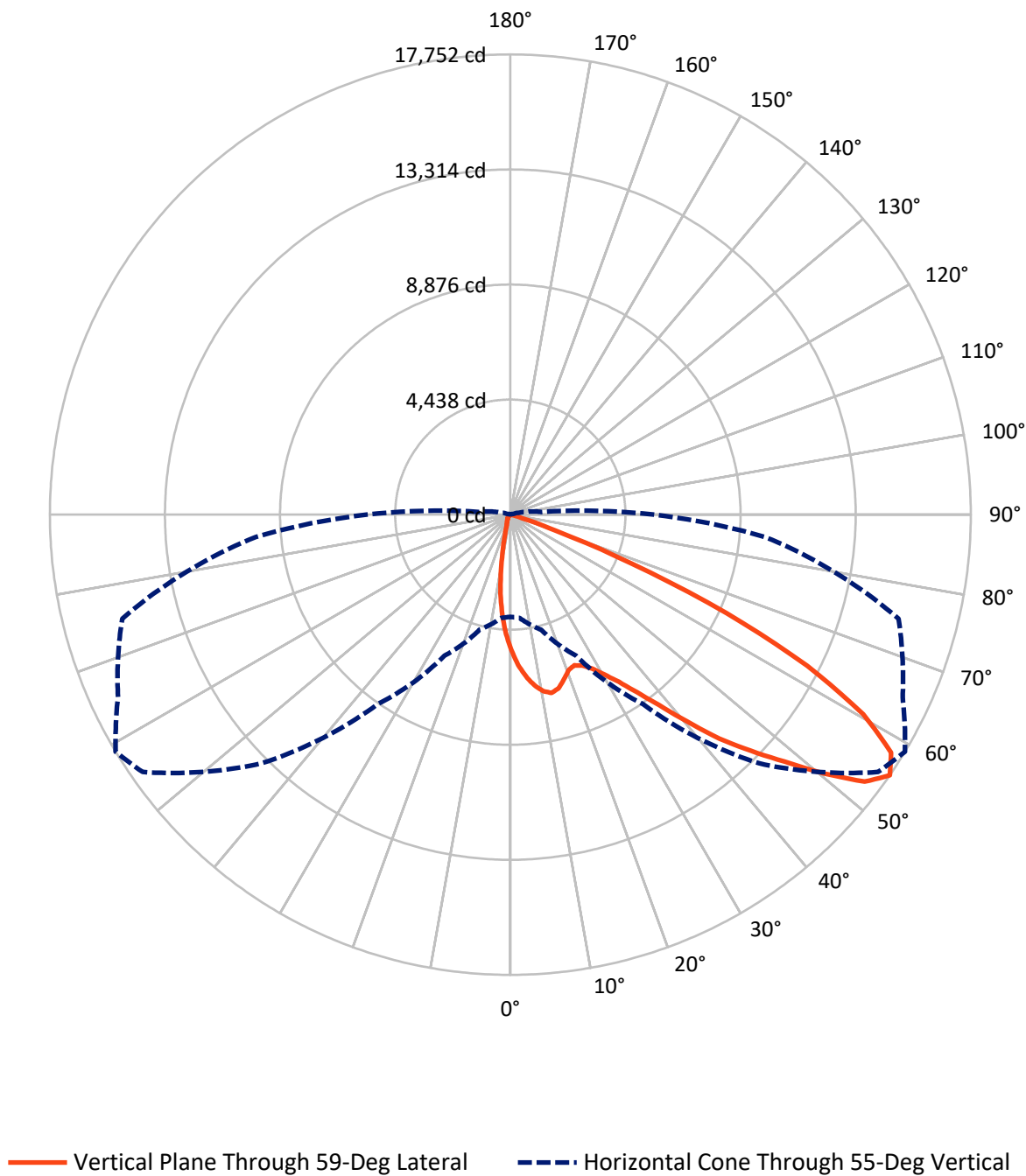


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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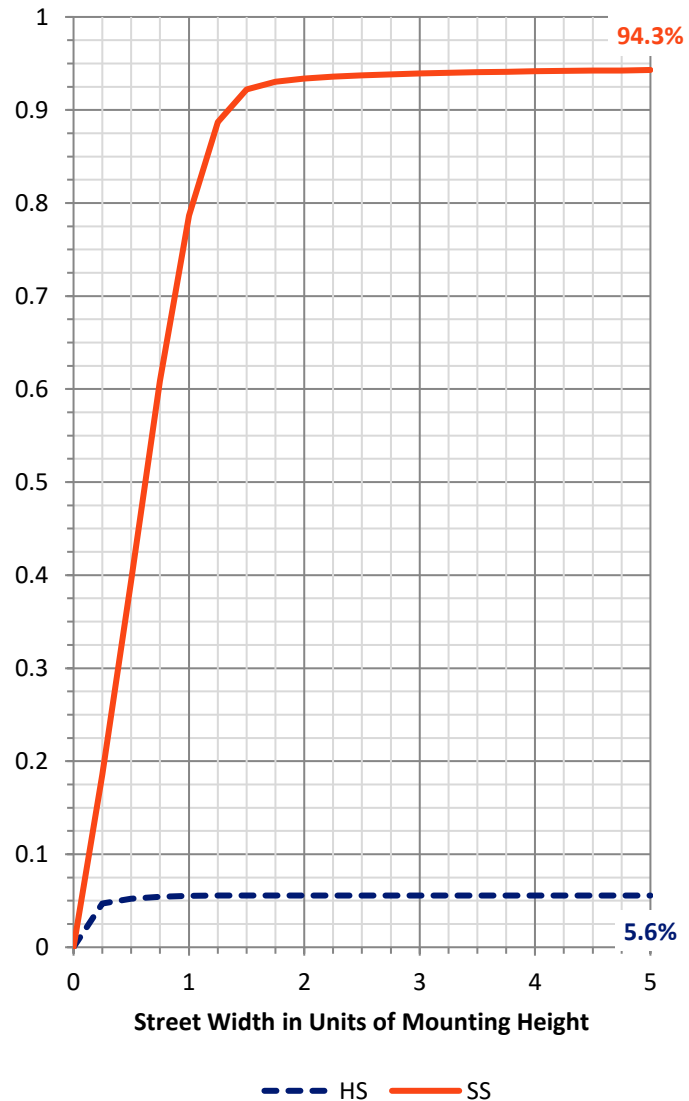
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1037.3   | 0.0    | 1037.3  |
|                    | % Fixture | 5.6      | 0.0    | 5.6     |
| <b>Street Side</b> | Lumens    | 17534.5  | 0.0    | 17534.5 |
|                    | % Fixture | 94.4     | 0.0    | 94.4    |
| <b>Total</b>       | Lumens    | 18571.9  | 0.0    | 18571.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.9   | 2.4       |
| 10°-20°   | 1048.4  | 5.6       |
| 20°-30°   | 1784.0  | 9.6       |
| 30°-40°   | 3068.2  | 16.5      |
| 40°-50°   | 4736.9  | 25.5      |
| 50°-60°   | 4762.1  | 25.6      |
| 60°-70°   | 2442.0  | 13.1      |
| 70°-80°   | 264.6   | 1.4       |
| 80°-90°   | 27.7    | 0.1       |
| 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°    | 18571.9 | 100.0     |
| 0°-180°   | 18571.9 | 100.0     |

**Coefficient of Utilization**



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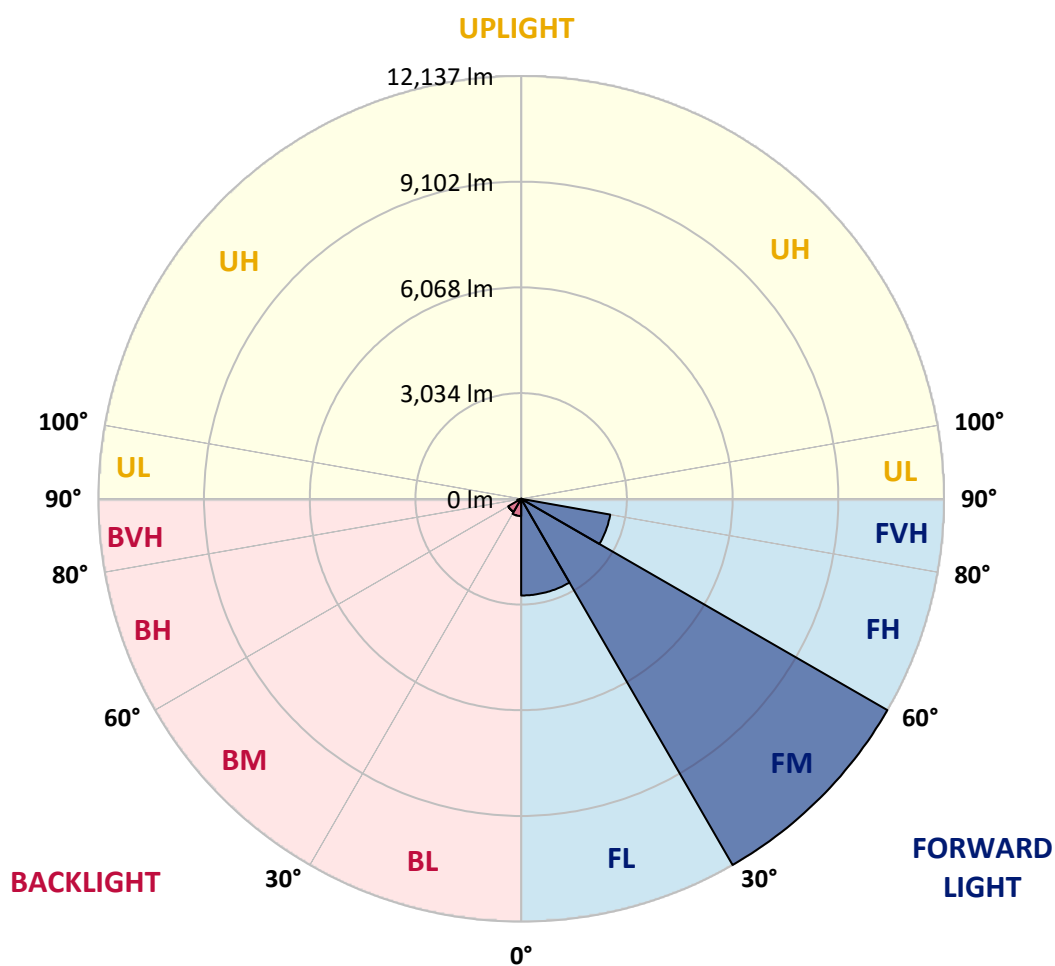
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2775.3  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 12136.7 | 65.3      |                         |      |         |
| FH   | (60°-80°)   | 2595.6  | 14.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 27.1    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 495.1   | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 430.5   | 2.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 111.1   | 0.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.6     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  | 5227.9  |
| 2.5°  | 6185.8  | 6120.0  | 6100.4  | 6087.2  | 6026.8  | 5951.3  | 5848.2  | 5800.0  | 5701.3  | 5542.5  | 5347.3  |
| 5°    | 6752.4  | 6740.4  | 6696.6  | 6672.5  | 6607.8  | 6500.4  | 6336.0  | 6257.1  | 6100.4  | 5833.0  | 5483.2  |
| 7.5°  | 6504.7  | 6580.3  | 6640.7  | 6741.6  | 6868.6  | 6864.2  | 6726.1  | 6643.9  | 6468.5  | 6115.7  | 5634.5  |
| 10°   | 5547.9  | 5609.4  | 5707.9  | 5937.0  | 6403.9  | 6816.0  | 6978.3  | 6919.1  | 6778.8  | 6375.4  | 5780.3  |
| 12.5° | 5360.6  | 5353.9  | 5371.5  | 5438.4  | 5682.8  | 6270.2  | 6935.4  | 7055.0  | 7026.5  | 6613.3  | 5918.3  |
| 15°   | 5460.2  | 5452.6  | 5450.4  | 5473.5  | 5532.6  | 5780.3  | 6614.3  | 6957.4  | 7177.7  | 6833.5  | 6035.7  |
| 17.5° | 5739.7  | 5706.8  | 5689.3  | 5670.7  | 5653.2  | 5714.6  | 6228.6  | 6684.5  | 7200.7  | 7026.5  | 6133.3  |
| 20°   | 6218.7  | 6163.9  | 6099.3  | 5994.1  | 5895.4  | 5864.7  | 6066.4  | 6403.9  | 7118.6  | 7173.3  | 6196.7  |
| 22.5° | 6820.4  | 6750.2  | 6638.5  | 6446.7  | 6246.2  | 6129.9  | 6146.4  | 6315.1  | 6995.8  | 7333.4  | 6226.3  |
| 25°   | 7496.6  | 7406.8  | 7257.8  | 6991.4  | 6696.6  | 6490.5  | 6383.2  | 6442.3  | 6939.8  | 7520.8  | 6260.3  |
| 27.5° | 8221.1  | 8121.4  | 7926.3  | 7563.5  | 7229.2  | 6950.8  | 6731.7  | 6724.0  | 7035.2  | 7766.2  | 6315.1  |
| 30°   | 8938.9  | 8923.6  | 8669.4  | 8285.7  | 7842.9  | 7504.4  | 7188.7  | 7148.1  | 7301.6  | 8106.1  | 6423.7  |
| 32.5° | 9896.9  | 9781.8  | 9470.5  | 9075.9  | 8565.3  | 8158.6  | 7784.9  | 7690.6  | 7710.3  | 8501.7  | 6591.4  |
| 35°   | 11104.7 | 10978.6 | 10540.2 | 9995.5  | 9424.4  | 8944.5  | 8531.3  | 8403.0  | 8354.8  | 9149.4  | 6874.1  |
| 37.5° | 11885.0 | 11882.8 | 11607.7 | 11053.2 | 10440.5 | 9911.1  | 9461.8  | 9311.6  | 9214.1  | 9932.0  | 7312.5  |
| 40°   | 11905.9 | 11957.4 | 11993.5 | 11988.0 | 11551.9 | 11064.1 | 10665.2 | 10479.9 | 10253.1 | 10977.5 | 7879.1  |
| 42.5° | 11267.0 | 11399.4 | 11718.4 | 12259.9 | 12518.5 | 12324.6 | 11988.0 | 11806.1 | 11468.5 | 12096.5 | 8569.6  |
| 45°   | 10403.2 | 10495.3 | 11053.2 | 12050.5 | 13042.4 | 13574.0 | 13317.5 | 12992.0 | 12547.0 | 13263.7 | 9188.8  |
| 47.5° | 10016.4 | 10032.7 | 10393.4 | 11488.3 | 13081.8 | 14597.6 | 14753.3 | 14223.9 | 13526.9 | 14204.1 | 9673.3  |
| 50°   | 8860.1  | 8889.7  | 9387.2  | 10513.9 | 12619.3 | 15080.9 | 16195.6 | 15693.7 | 14595.4 | 14928.6 | 9849.7  |
| 52.5° | 6677.9  | 6719.6  | 7350.9  | 8912.8  | 11348.0 | 14874.9 | 17228.0 | 17106.4 | 15766.0 | 15282.6 | 9859.7  |
| 55°   | 3940.1  | 3994.9  | 4597.7  | 5999.5  | 8925.8  | 13564.1 | 17304.7 | 17751.9 | 16689.9 | 15492.0 | 9844.3  |
| 57.5° | 1840.2  | 1878.5  | 2223.8  | 3090.7  | 5551.3  | 10720.0 | 16149.6 | 17309.2 | 17199.5 | 15602.7 | 9952.8  |
| 60°   | 977.7   | 988.6   | 1071.9  | 1338.2  | 2508.7  | 6797.3  | 13895.0 | 15630.1 | 16734.8 | 15756.1 | 10085.4 |
| 62.5° | 747.5   | 750.7   | 746.4   | 778.2   | 1054.4  | 3017.3  | 10503.0 | 12849.6 | 14863.9 | 15641.0 | 9938.6  |
| 65°   | 647.7   | 653.3   | 622.6   | 614.8   | 676.2   | 1076.3  | 6239.6  | 9159.3  | 11680.1 | 14088.0 | 8937.9  |
| 67.5° | 580.9   | 583.1   | 545.9   | 514.1   | 525.0   | 582.1   | 2461.6  | 5014.2  | 7731.1  | 10326.5 | 6478.4  |
| 70°   | 534.9   | 532.6   | 492.1   | 441.7   | 427.4   | 397.8   | 782.6   | 1838.0  | 3694.6  | 5236.7  | 3013.0  |
| 72.5° | 473.4   | 474.6   | 454.8   | 389.1   | 355.1   | 278.4   | 362.7   | 535.9   | 1102.5  | 1427.0  | 705.9   |
| 75°   | 419.8   | 414.3   | 390.2   | 348.5   | 292.6   | 183.0   | 179.7   | 239.0   | 339.8   | 337.6   | 152.3   |
| 77.5° | 303.6   | 298.1   | 305.8   | 286.0   | 224.6   | 118.3   | 89.9    | 115.0   | 138.1   | 133.8   | 42.7    |
| 80°   | 222.5   | 219.2   | 197.3   | 237.8   | 198.5   | 81.1    | 55.9    | 61.4    | 71.2    | 60.3    | 13.1    |
| 82.5° | 152.3   | 151.3   | 139.2   | 131.5   | 112.9   | 49.2    | 35.1    | 38.4    | 46.0    | 34.0    | 6.5     |
| 85°   | 24.1    | 27.5    | 100.8   | 80.0    | 66.8    | 22.0    | 24.1    | 26.3    | 30.7    | 18.7    | 2.1     |
| 87.5° | 0.0     | 0.0     | 47.1    | 41.6    | 13.1    | 8.7     | 14.2    | 15.3    | 15.3    | 9.9     | 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     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 | 5227.9 |
| 2.5°  | 5247.6 | 5138.0 | 4935.2 | 4725.9 | 4532.0 | 4300.7 | 4141.8 | 4022.3 | 3884.2 | 3846.9 | 3928.1 |
| 5°    | 5283.8 | 5076.6 | 4640.5 | 4165.9 | 3719.8 | 3225.6 | 2847.4 | 2548.3 | 2277.5 | 2185.4 | 2268.8 |
| 7.5°  | 5340.8 | 5032.8 | 4321.5 | 3540.1 | 2764.2 | 1992.6 | 1464.3 | 1116.8 | 895.4  | 829.8  | 864.8  |
| 10°   | 5397.9 | 4969.2 | 3952.1 | 2799.2 | 1738.2 | 970.0  | 631.3  | 504.1  | 457.0  | 447.2  | 452.7  |
| 12.5° | 5444.9 | 4883.8 | 3501.8 | 1990.3 | 929.4  | 519.5  | 413.2  | 392.3  | 385.8  | 385.8  | 388.0  |
| 15°   | 5473.5 | 4754.4 | 2967.9 | 1265.9 | 534.9  | 392.3  | 360.5  | 354.0  | 354.0  | 355.1  | 357.3  |
| 17.5° | 5470.2 | 4590.1 | 2383.8 | 766.1  | 400.0  | 347.5  | 328.8  | 323.3  | 322.2  | 324.4  | 325.5  |
| 20°   | 5429.5 | 4375.2 | 1797.5 | 505.3  | 348.5  | 316.8  | 298.1  | 288.2  | 287.2  | 289.3  | 291.5  |
| 22.5° | 5352.8 | 4110.0 | 1285.7 | 389.1  | 314.5  | 287.2  | 264.2  | 255.3  | 255.3  | 257.6  | 259.7  |
| 25°   | 5259.7 | 3785.7 | 879.0  | 329.9  | 283.8  | 255.3  | 233.5  | 225.7  | 228.0  | 233.5  | 234.6  |
| 27.5° | 5143.5 | 3420.6 | 597.3  | 282.8  | 246.6  | 223.6  | 207.1  | 201.7  | 207.1  | 214.8  | 217.0  |
| 30°   | 5043.9 | 3040.3 | 426.3  | 244.4  | 209.3  | 192.9  | 183.0  | 183.0  | 190.6  | 205.0  | 208.2  |
| 32.5° | 4967.0 | 2672.1 | 328.8  | 215.9  | 181.9  | 167.7  | 162.2  | 167.7  | 179.7  | 194.1  | 197.3  |
| 35°   | 4957.2 | 2368.4 | 278.4  | 192.9  | 162.2  | 147.9  | 145.8  | 155.5  | 167.7  | 178.6  | 180.9  |
| 37.5° | 5032.8 | 2087.8 | 251.0  | 174.3  | 144.7  | 131.5  | 129.4  | 141.4  | 153.4  | 166.6  | 169.9  |
| 40°   | 5176.3 | 1867.6 | 231.3  | 156.7  | 130.4  | 116.2  | 111.8  | 120.5  | 137.0  | 154.5  | 159.0  |
| 42.5° | 5362.8 | 1685.7 | 209.3  | 139.2  | 116.2  | 96.4   | 91.0   | 100.8  | 118.3  | 137.0  | 142.5  |
| 45°   | 5540.3 | 1529.0 | 185.2  | 119.4  | 97.6   | 74.6   | 72.3   | 85.4   | 94.3   | 112.9  | 117.2  |
| 47.5° | 5637.8 | 1390.9 | 164.4  | 97.6   | 75.6   | 60.3   | 60.3   | 63.6   | 72.3   | 94.3   | 98.7   |
| 50°   | 5604.9 | 1280.1 | 142.5  | 72.3   | 52.6   | 46.0   | 46.0   | 44.9   | 58.1   | 75.6   | 78.8   |
| 52.5° | 5539.2 | 1216.6 | 122.7  | 55.9   | 36.2   | 32.9   | 29.6   | 32.9   | 40.5   | 48.2   | 49.2   |
| 55°   | 5529.3 | 1205.5 | 103.0  | 44.9   | 25.2   | 22.0   | 16.4   | 16.4   | 16.4   | 15.3   | 13.1   |
| 57.5° | 5606.1 | 1223.1 | 86.6   | 36.2   | 18.7   | 14.2   | 8.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 5685.0 | 1241.7 | 74.6   | 25.2   | 13.1   | 7.6    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 5553.4 | 1200.1 | 62.5   | 15.3   | 9.9    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 4878.3 | 1021.5 | 49.2   | 10.9   | 6.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3470.0 | 683.9  | 32.9   | 6.5    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 1583.7 | 286.0  | 20.9   | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 338.7  | 88.8   | 14.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 69.1   | 64.7   | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 22.0   | 101.9  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 13.1   | 73.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 2.1    | 10.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 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)