

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: P192976

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-SL4-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28885.9 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 257  
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

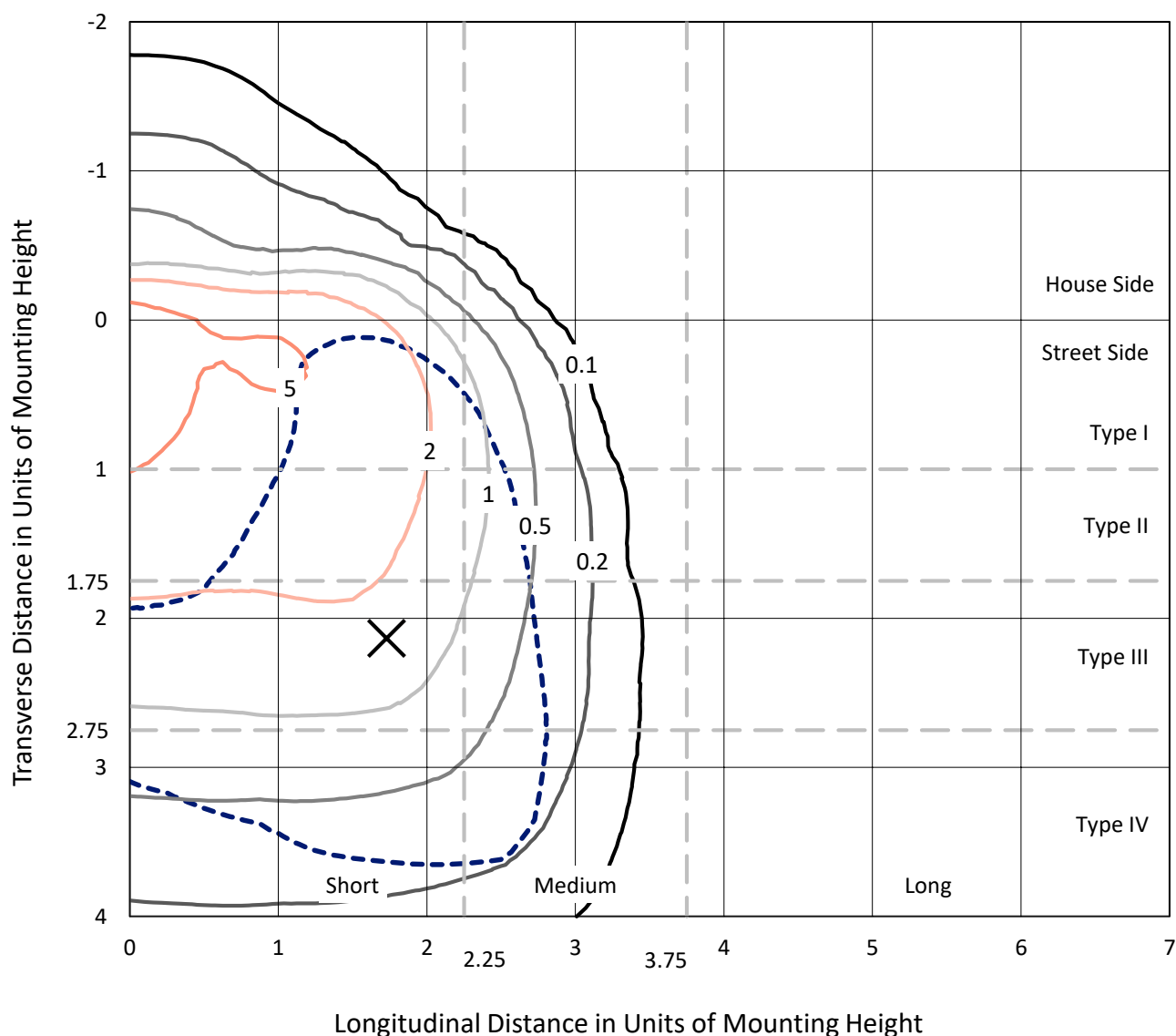


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

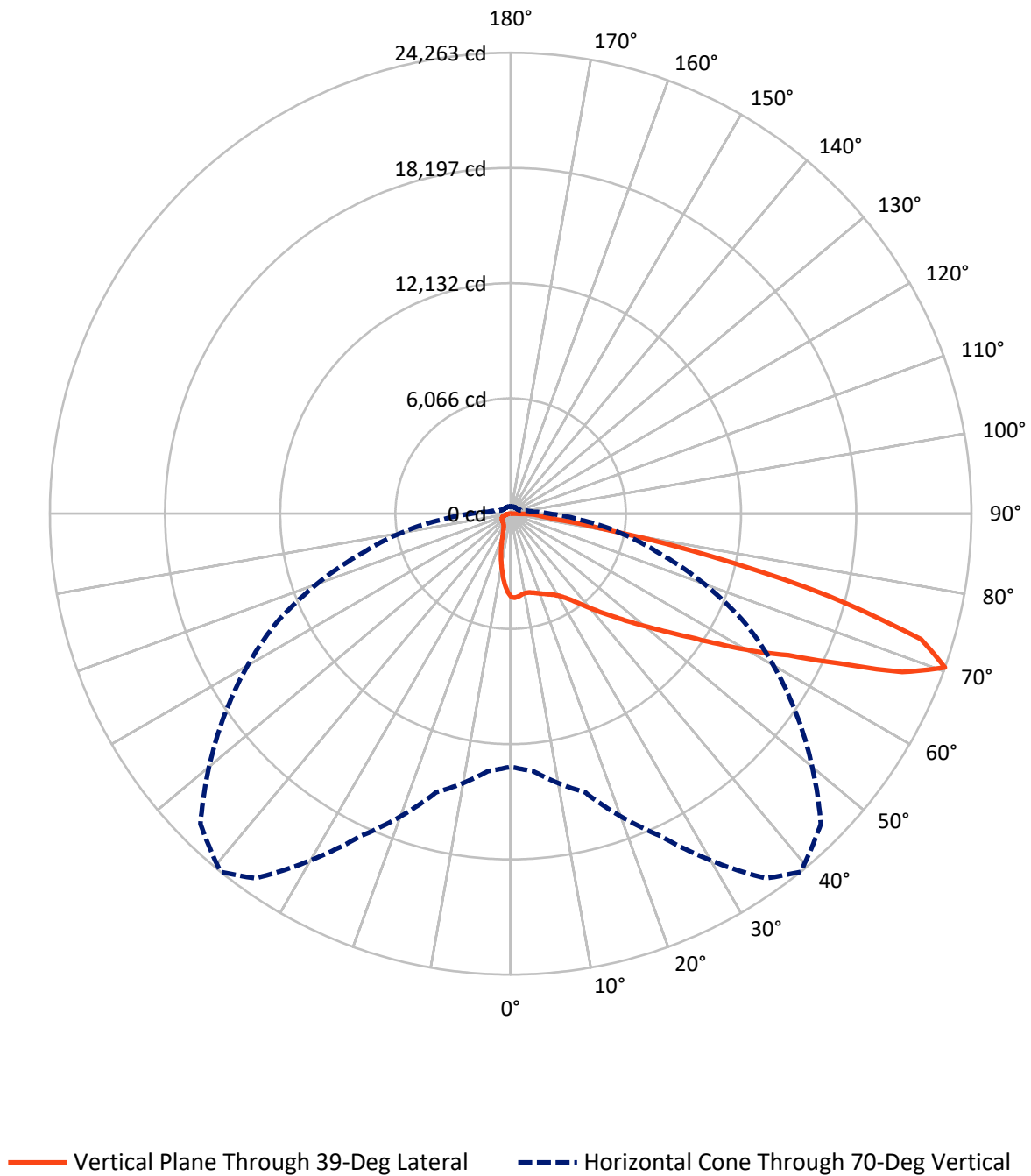


Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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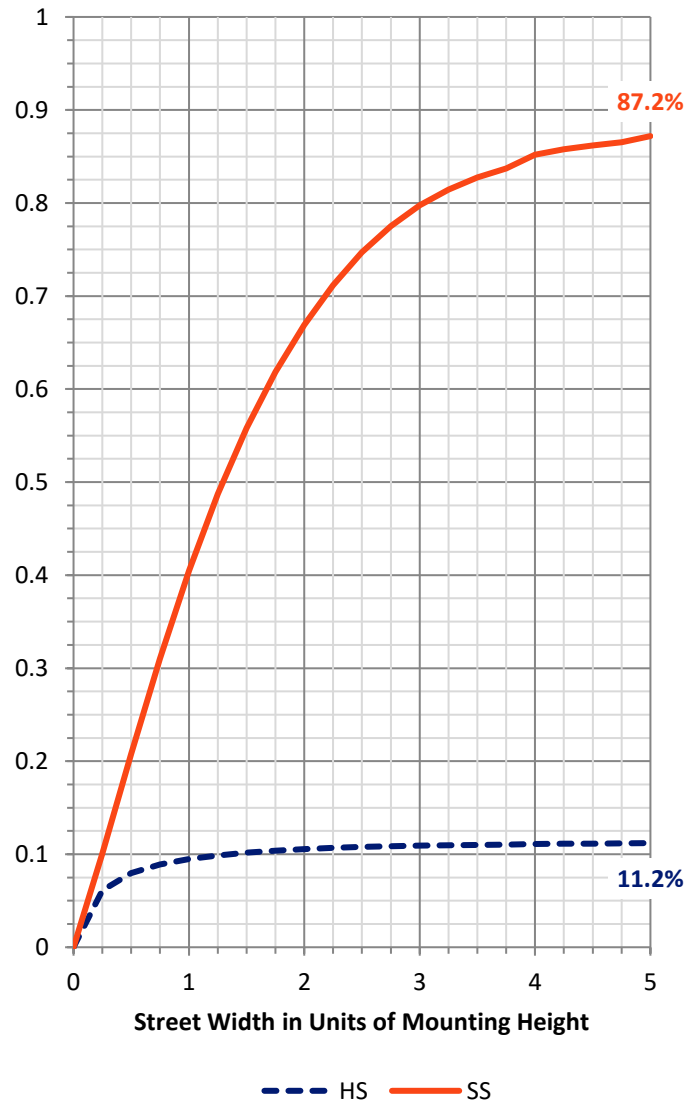
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3285.3   | 0.0    | 3285.3  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 25600.6  | 0.0    | 25600.6 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 28885.9  | 0.0    | 28885.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 376.3   | 1.3       |
| 10°-20°   | 940.7   | 3.3       |
| 20°-30°   | 1464.7  | 5.1       |
| 30°-40°   | 2281.8  | 7.9       |
| 40°-50°   | 3830.7  | 13.3      |
| 50°-60°   | 6085.4  | 21.1      |
| 60°-70°   | 8117.3  | 28.1      |
| 70°-80°   | 4901.8  | 17.0      |
| 80°-90°   | 887.2   | 3.1       |
| 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°    | 28885.9 | 100.0     |
| 0°-180°   | 28885.9 | 100.0     |

**Coefficient of Utilization**



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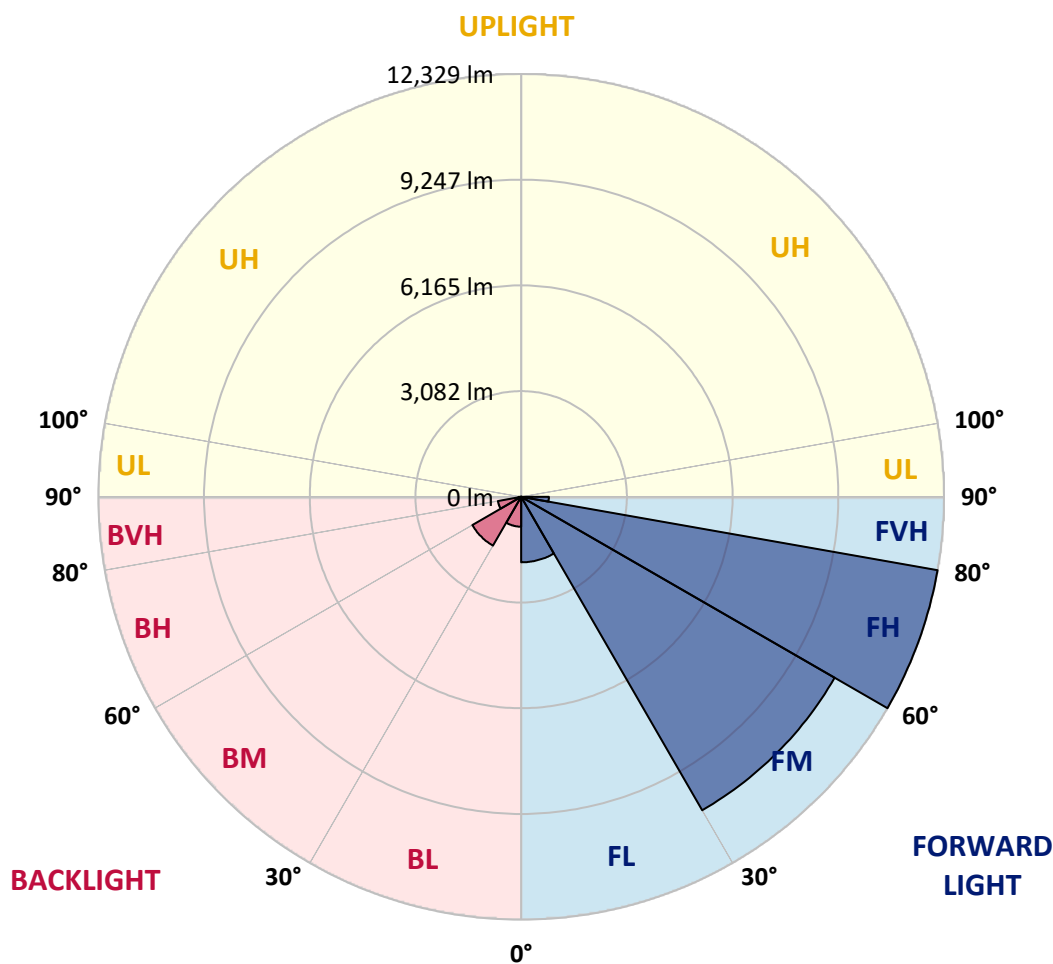
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1910.3  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 10553.8 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 12329.4 | 42.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 807.2   | 2.8       |                         |      | G5      |
| BL   | (0°-30°)    | 871.5   | 3.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1644.1  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 689.7   | 2.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 80.0    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  | 4385.3  |
| 2.5°  | 4470.6  | 4469.0  | 4457.3  | 4448.5  | 4441.2  | 4438.2  | 4444.1  | 4422.0  | 4402.9  | 4379.4  | 4354.5  |
| 5°    | 4436.7  | 4435.3  | 4416.2  | 4398.6  | 4381.0  | 4375.1  | 4373.5  | 4334.0  | 4310.4  | 4275.2  | 4228.3  |
| 7.5°  | 4400.0  | 4392.7  | 4367.7  | 4338.3  | 4307.5  | 4292.8  | 4278.1  | 4226.7  | 4200.3  | 4165.1  | 4110.7  |
| 10°   | 4361.8  | 4353.0  | 4329.5  | 4300.1  | 4270.8  | 4248.8  | 4223.8  | 4173.8  | 4146.0  | 4119.5  | 4056.4  |
| 12.5° | 4322.2  | 4314.8  | 4308.9  | 4295.7  | 4275.2  | 4256.0  | 4237.0  | 4194.5  | 4165.1  | 4134.2  | 4060.7  |
| 15°   | 4316.3  | 4313.3  | 4326.5  | 4335.4  | 4323.6  | 4311.9  | 4291.3  | 4254.7  | 4223.8  | 4193.0  | 4097.4  |
| 17.5° | 4363.3  | 4361.8  | 4395.6  | 4419.1  | 4413.2  | 4392.7  | 4364.8  | 4323.6  | 4298.7  | 4272.2  | 4153.3  |
| 20°   | 4466.1  | 4473.4  | 4514.6  | 4545.4  | 4516.0  | 4486.6  | 4441.2  | 4383.9  | 4370.7  | 4358.9  | 4210.6  |
| 22.5° | 4660.0  | 4667.3  | 4696.7  | 4708.4  | 4632.0  | 4589.4  | 4526.3  | 4452.9  | 4444.1  | 4452.9  | 4279.5  |
| 25°   | 4962.5  | 4955.1  | 4950.7  | 4906.8  | 4767.2  | 4701.1  | 4620.3  | 4544.0  | 4548.4  | 4588.1  | 4376.5  |
| 27.5° | 5363.4  | 5323.7  | 5262.2  | 5129.9  | 4908.2  | 4834.7  | 4736.4  | 4665.8  | 4693.8  | 4770.2  | 4521.9  |
| 30°   | 5779.0  | 5735.0  | 5592.6  | 5376.6  | 5093.2  | 5012.5  | 4902.3  | 4823.0  | 4896.5  | 5016.8  | 4715.7  |
| 32.5° | 6163.9  | 6158.0  | 5949.3  | 5671.8  | 5348.8  | 5278.4  | 5168.1  | 5078.5  | 5197.5  | 5381.0  | 5006.6  |
| 35°   | 6583.9  | 6597.1  | 6347.4  | 6014.0  | 5693.9  | 5620.4  | 5541.2  | 5473.6  | 5632.2  | 5884.8  | 5428.1  |
| 37.5° | 7033.2  | 7059.7  | 6764.6  | 6388.5  | 6087.5  | 6056.7  | 6009.7  | 5980.3  | 6225.5  | 6575.1  | 6017.0  |
| 40°   | 7634.0  | 7607.5  | 7197.8  | 6811.6  | 6570.7  | 6569.2  | 6554.5  | 6589.8  | 6998.0  | 7476.8  | 6773.3  |
| 42.5° | 8277.3  | 8199.4  | 7657.4  | 7265.3  | 7100.9  | 7150.8  | 7180.2  | 7324.0  | 7927.7  | 8572.4  | 7695.6  |
| 45°   | 8970.4  | 8795.6  | 8134.8  | 7745.6  | 7689.7  | 7795.5  | 7895.4  | 8208.2  | 9021.7  | 9819.2  | 8706.1  |
| 47.5° | 9524.1  | 9355.3  | 8628.2  | 8249.3  | 8371.2  | 8531.3  | 8723.7  | 9218.6  | 10246.7 | 11107.3 | 9703.2  |
| 50°   | 9960.3  | 9850.2  | 9126.1  | 8836.8  | 9121.7  | 9368.4  | 9682.7  | 10362.7 | 11521.4 | 12361.5 | 10627.0 |
| 52.5° | 10383.2 | 10301.0 | 9628.4  | 9438.9  | 10002.9 | 10343.6 | 10771.0 | 11590.4 | 12828.4 | 13595.1 | 11403.9 |
| 55°   | 10765.1 | 10706.4 | 10168.8 | 10189.4 | 11039.7 | 11483.2 | 12020.7 | 12988.6 | 14253.1 | 14695.2 | 12061.9 |
| 57.5° | 11195.4 | 11120.5 | 10785.6 | 11130.8 | 12371.8 | 12947.4 | 13646.5 | 14560.0 | 15589.5 | 15673.2 | 12562.6 |
| 60°   | 11628.7 | 11564.0 | 11470.0 | 12217.6 | 14063.7 | 14668.7 | 15331.0 | 16083.0 | 16945.1 | 16432.5 | 12533.3 |
| 62.5° | 12004.7 | 12012.0 | 12177.9 | 13358.7 | 15720.2 | 16420.8 | 17228.5 | 17971.6 | 18171.4 | 16564.7 | 11606.6 |
| 65°   | 12642.0 | 12757.9 | 13252.9 | 14974.2 | 18052.5 | 18989.4 | 19980.8 | 19861.8 | 18510.6 | 15329.6 | 9619.5  |
| 67.5° | 13399.8 | 13604.0 | 14607.0 | 17127.2 | 20999.9 | 22243.9 | 22627.3 | 20289.1 | 17152.2 | 12461.3 | 6857.0  |
| 70°   | 13323.4 | 13604.0 | 15191.5 | 18732.4 | 23429.1 | 24263.3 | 23100.1 | 18362.3 | 13620.1 | 8140.6  | 3642.1  |
| 72.5° | 11831.3 | 12232.2 | 14000.5 | 17996.6 | 22663.9 | 22590.6 | 20054.2 | 13689.1 | 8092.2  | 3269.1  | 1423.1  |
| 75°   | 9017.3  | 9422.7  | 10944.3 | 14217.8 | 17912.9 | 17296.1 | 14229.6 | 7562.0  | 3071.0  | 1298.2  | 897.3   |
| 77.5° | 5187.2  | 5501.5  | 6676.4  | 8719.3  | 11364.3 | 10731.3 | 7920.3  | 3363.2  | 1495.1  | 904.6   | 700.6   |
| 80°   | 2896.1  | 3071.0  | 3784.6  | 4423.5  | 5569.1  | 5104.9  | 3543.9  | 2089.9  | 1116.2  | 656.4   | 540.5   |
| 82.5° | 2289.6  | 2445.2  | 3060.7  | 2790.4  | 2543.7  | 2346.9  | 2035.5  | 1860.8  | 891.4   | 414.2   | 323.1   |
| 85°   | 2000.3  | 2148.6  | 2590.6  | 2197.1  | 1737.4  | 1593.4  | 1653.6  | 1831.4  | 693.1   | 249.6   | 276.1   |
| 87.5° | 1853.4  | 2051.7  | 2308.6  | 1693.3  | 1352.6  | 1198.3  | 1526.0  | 2007.6  | 223.2   | 155.7   | 111.7   |
| 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°    | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 | 4385.3 |
| 2.5°  | 4332.4 | 4308.9 | 4270.8 | 4237.0 | 4184.1 | 4156.2 | 4125.4 | 4103.3 | 4085.7 | 4071.0 | 4094.6 |
| 5°    | 4198.9 | 4154.8 | 4074.0 | 3987.3 | 3884.5 | 3803.8 | 3736.2 | 3673.1 | 3628.9 | 3599.6 | 3620.2 |
| 7.5°  | 4072.5 | 4000.5 | 3874.3 | 3717.1 | 3540.9 | 3391.1 | 3267.7 | 3159.0 | 3084.2 | 3035.7 | 3054.8 |
| 10°   | 4000.5 | 3910.9 | 3715.7 | 3468.9 | 3209.0 | 2975.4 | 2781.6 | 2614.1 | 2498.1 | 2432.0 | 2442.4 |
| 12.5° | 3982.9 | 3866.9 | 3596.7 | 3257.4 | 2902.0 | 2577.4 | 2304.3 | 2072.2 | 1909.2 | 1824.1 | 1827.1 |
| 15°   | 3996.1 | 3847.8 | 3485.1 | 3054.8 | 2605.4 | 2195.6 | 1854.9 | 1572.9 | 1383.4 | 1286.5 | 1285.1 |
| 17.5° | 4018.2 | 3833.2 | 3367.6 | 2836.0 | 2304.3 | 1828.5 | 1448.1 | 1172.0 | 1004.5 | 926.7  | 920.8  |
| 20°   | 4041.7 | 3809.7 | 3235.3 | 2599.5 | 1991.5 | 1487.7 | 1133.8 | 917.9  | 812.2  | 769.5  | 766.7  |
| 22.5° | 4075.5 | 3789.1 | 3098.8 | 2349.8 | 1684.6 | 1211.5 | 932.5  | 787.2  | 731.4  | 709.3  | 706.4  |
| 25°   | 4129.8 | 3778.8 | 2953.4 | 2089.9 | 1408.5 | 1013.4 | 812.2  | 722.5  | 690.3  | 675.6  | 674.1  |
| 27.5° | 4220.9 | 3793.5 | 2816.8 | 1837.3 | 1183.8 | 879.7  | 744.6  | 690.3  | 666.8  | 653.6  | 652.1  |
| 30°   | 4338.3 | 3839.1 | 2672.9 | 1597.9 | 1008.9 | 788.7  | 703.5  | 668.2  | 649.1  | 635.9  | 635.9  |
| 32.5° | 4533.7 | 3915.5 | 2521.6 | 1390.8 | 884.1  | 725.5  | 672.6  | 649.1  | 632.9  | 622.7  | 621.2  |
| 35°   | 4821.5 | 4059.3 | 2380.6 | 1219.0 | 794.6  | 680.0  | 646.2  | 628.6  | 616.9  | 611.0  | 611.0  |
| 37.5° | 5240.1 | 4286.9 | 2255.7 | 1095.7 | 740.2  | 649.1  | 621.2  | 608.0  | 600.7  | 600.7  | 600.7  |
| 40°   | 5802.5 | 4601.2 | 2154.5 | 1013.4 | 709.3  | 627.1  | 602.1  | 591.8  | 587.5  | 588.9  | 588.9  |
| 42.5° | 6497.2 | 5009.5 | 2087.0 | 956.1  | 694.7  | 613.9  | 588.9  | 580.0  | 575.7  | 574.2  | 575.7  |
| 45°   | 7288.8 | 5473.6 | 2079.5 | 913.5  | 680.0  | 605.1  | 580.0  | 571.3  | 562.4  | 556.5  | 556.5  |
| 47.5° | 8058.4 | 5945.1 | 2139.9 | 898.7  | 663.9  | 594.8  | 572.7  | 564.0  | 550.7  | 537.5  | 537.5  |
| 50°   | 8738.3 | 6346.0 | 2220.5 | 904.6  | 658.0  | 580.0  | 561.0  | 556.5  | 536.0  | 521.3  | 519.8  |
| 52.5° | 9278.9 | 6654.3 | 2286.7 | 922.2  | 663.9  | 569.8  | 546.3  | 547.8  | 525.7  | 509.5  | 508.2  |
| 55°   | 9712.0 | 6857.0 | 2269.0 | 939.9  | 677.1  | 564.0  | 533.0  | 536.0  | 518.4  | 502.3  | 502.3  |
| 57.5° | 9901.5 | 6782.2 | 2073.7 | 925.2  | 687.4  | 565.4  | 522.8  | 534.6  | 519.8  | 505.3  | 505.3  |
| 60°   | 9494.7 | 6116.9 | 1708.0 | 860.6  | 674.1  | 561.0  | 518.4  | 540.5  | 538.9  | 524.3  | 522.8  |
| 62.5° | 8264.1 | 4925.9 | 1324.7 | 765.2  | 628.6  | 538.9  | 506.6  | 538.9  | 555.1  | 550.7  | 549.2  |
| 65°   | 6369.5 | 3508.6 | 1011.8 | 662.3  | 566.9  | 502.3  | 475.9  | 505.3  | 527.2  | 533.0  | 531.6  |
| 67.5° | 4134.2 | 2150.1 | 779.9  | 565.4  | 497.9  | 459.7  | 436.2  | 449.4  | 453.8  | 453.8  | 450.9  |
| 70°   | 2032.5 | 1157.3 | 621.2  | 475.9  | 427.4  | 414.2  | 401.0  | 393.6  | 386.2  | 380.3  | 380.3  |
| 72.5° | 1003.1 | 756.3  | 511.2  | 402.4  | 368.6  | 362.7  | 359.8  | 351.0  | 345.2  | 337.8  | 334.9  |
| 75°   | 741.7  | 615.3  | 434.8  | 339.2  | 317.2  | 311.4  | 317.2  | 309.9  | 308.4  | 302.5  | 299.6  |
| 77.5° | 609.4  | 524.3  | 374.5  | 290.7  | 271.7  | 261.4  | 270.2  | 271.7  | 273.1  | 264.4  | 261.4  |
| 80°   | 495.0  | 443.5  | 312.8  | 240.8  | 223.2  | 215.9  | 221.8  | 233.5  | 236.4  | 223.2  | 217.3  |
| 82.5° | 356.8  | 362.7  | 252.6  | 188.0  | 173.2  | 167.3  | 179.1  | 193.8  | 196.7  | 177.6  | 173.2  |
| 85°   | 299.6  | 302.5  | 193.8  | 133.7  | 119.0  | 110.2  | 129.3  | 143.9  | 154.2  | 135.2  | 130.7  |
| 87.5° | 124.9  | 177.6  | 111.7  | 75.0   | 66.1   | 57.3   | 69.1   | 76.4   | 92.6   | 85.2   | 83.7   |
| 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)