

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: P192876

Luminaire Tested: **GAN-AF-08-LED-U-SL3-7030-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7030-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39416.4 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 445  
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

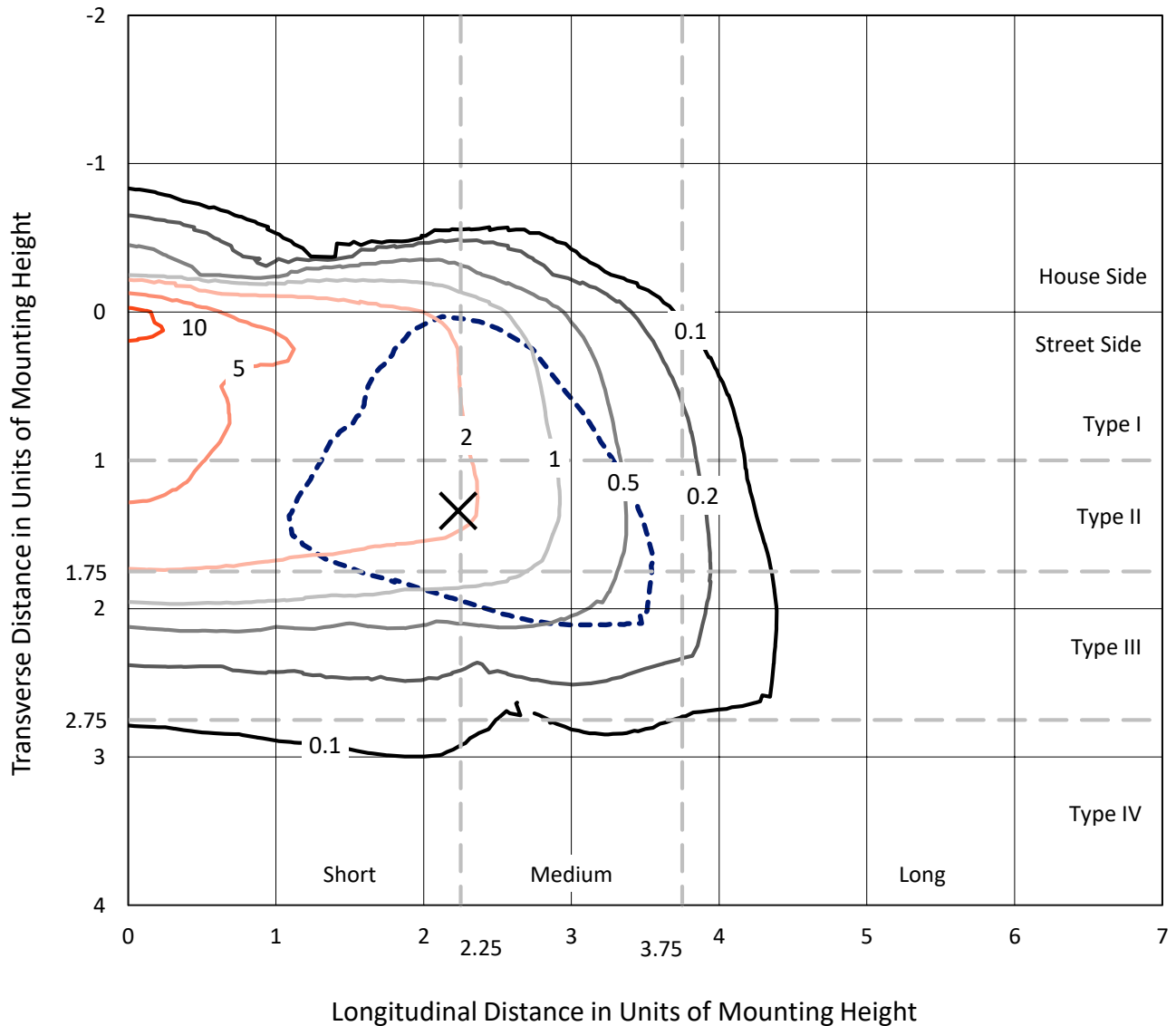


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

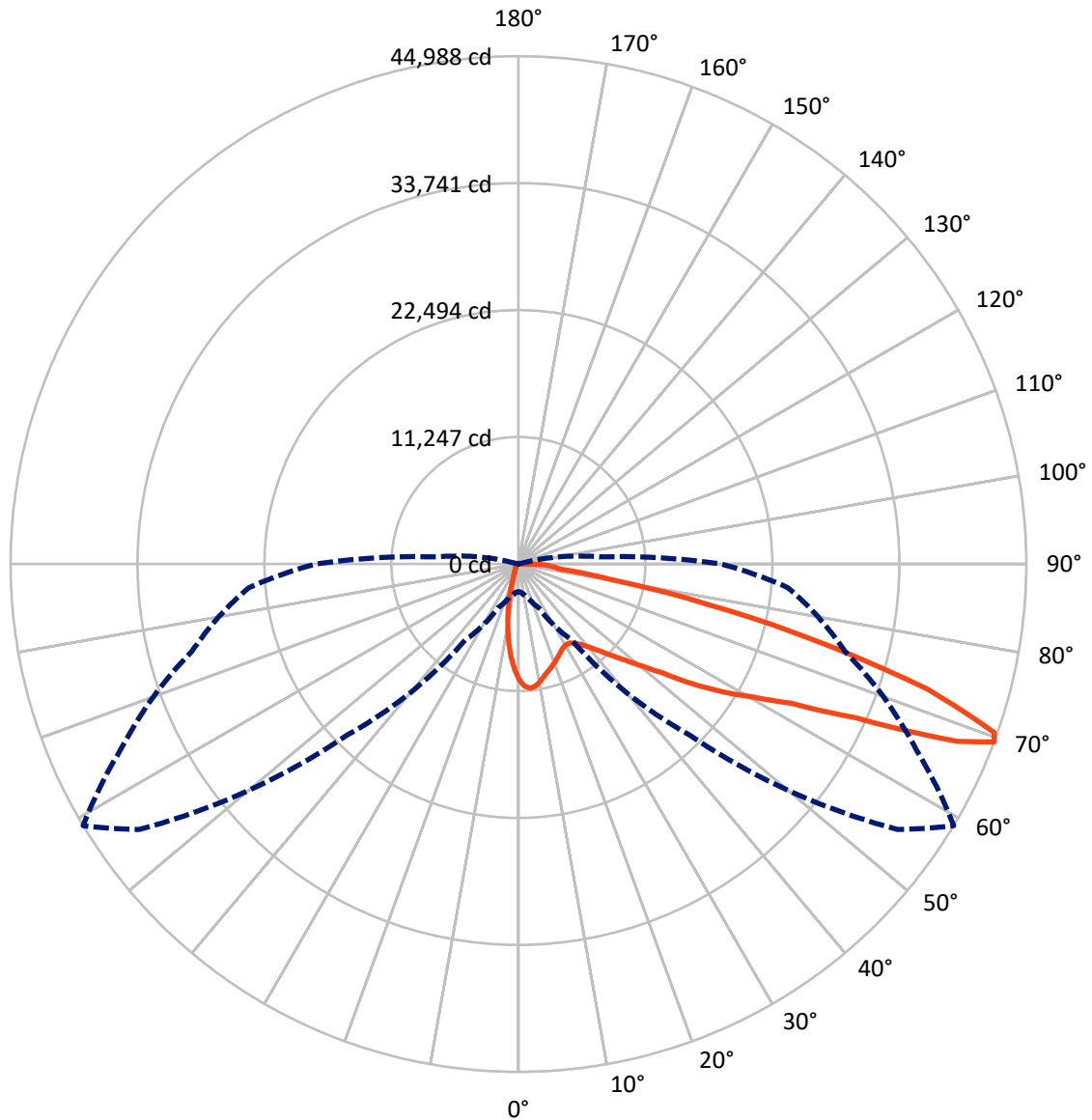


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3210.0   | 0.0    | 3210.0  |
|                    | % Fixture | 8.1      | 0.0    | 8.1     |
| <b>Street Side</b> | Lumens    | 36206.4  | 0.0    | 36206.4 |
|                    | % Fixture | 91.9     | 0.0    | 91.9    |
| <b>Total</b>       | Lumens    | 39416.4  | 0.0    | 39416.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 832.8   | 2.1       |
| 10°-20°   | 1720.7  | 4.4       |
| 20°-30°   | 2315.5  | 5.9       |
| 30°-40°   | 3361.9  | 8.5       |
| 40°-50°   | 5597.8  | 14.2      |
| 50°-60°   | 8732.5  | 22.2      |
| 60°-70°   | 10805.8 | 27.4      |
| 70°-80°   | 5476.3  | 13.9      |
| 80°-90°   | 573.0   | 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°    | 39416.4 | 100.0     |
| 0°-180°   | 39416.4 | 100.0     |



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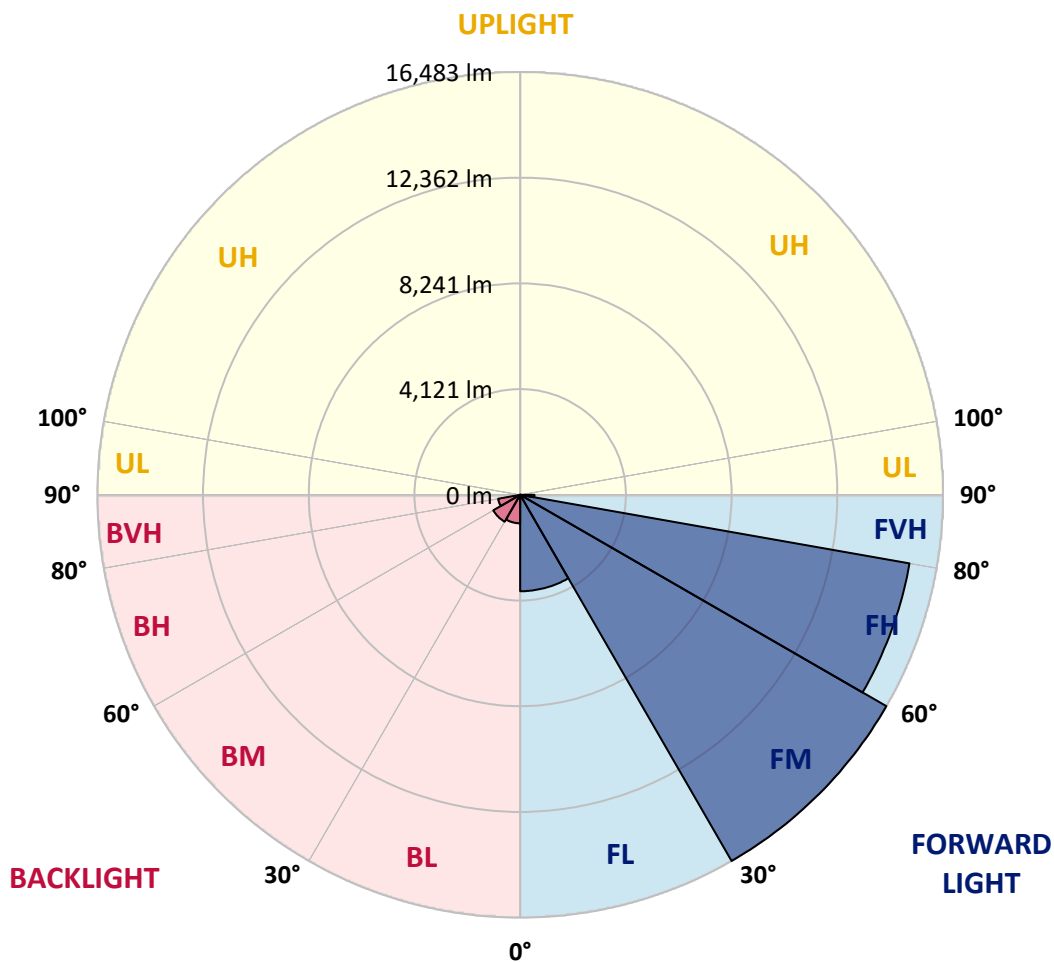
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3757.9  | 9.5       |                         |      |         |
| FM   | (30°-60°)   | 16482.8 | 41.8      |                         |      |         |
| FH   | (60°-80°)   | 15410.4 | 39.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 555.4   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1111.1  | 2.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1209.5  | 3.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 871.7   | 2.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 17.6    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 |
| 2.5°  | 11244.8 | 11240.3 | 11191.2 | 11168.9 | 11128.8 | 11044.2 | 10912.6 | 10843.6 | 10732.1 | 10538.2 | 10277.4 |
| 5°    | 11142.1 | 11195.7 | 11224.6 | 11226.8 | 11255.9 | 11224.6 | 11106.5 | 11048.6 | 10894.8 | 10582.8 | 10114.6 |
| 7.5°  | 10446.8 | 10466.8 | 10549.3 | 10620.6 | 10758.8 | 10890.3 | 10932.7 | 10908.1 | 10816.7 | 10482.5 | 9860.5  |
| 10°   | 9702.3  | 9722.3  | 9820.4  | 9914.0  | 10101.2 | 10304.1 | 10518.1 | 10562.6 | 10600.6 | 10339.8 | 9615.4  |
| 12.5° | 9060.5  | 9080.4  | 9180.7  | 9303.3  | 9521.7  | 9771.4  | 10103.5 | 10177.1 | 10344.2 | 10203.8 | 9419.2  |
| 15°   | 8507.7  | 8516.5  | 8614.6  | 8766.2  | 9027.0  | 9347.9  | 9724.6  | 9842.7  | 10099.1 | 10108.0 | 9247.6  |
| 17.5° | 8037.3  | 8059.6  | 8119.8  | 8264.7  | 8550.0  | 8946.7  | 9385.8  | 9555.2  | 9856.1  | 10027.7 | 9080.4  |
| 20°   | 7749.9  | 7772.1  | 7769.9  | 7850.2  | 8106.5  | 8530.0  | 9047.0  | 9249.9  | 9615.4  | 9945.3  | 8931.1  |
| 22.5° | 7694.1  | 7694.1  | 7636.1  | 7624.9  | 7776.5  | 8131.0  | 8694.9  | 8942.3  | 9399.1  | 9909.6  | 8826.4  |
| 25°   | 7892.5  | 7883.6  | 7738.8  | 7620.5  | 7627.3  | 7839.1  | 8353.9  | 8648.1  | 9216.4  | 9934.1  | 8770.7  |
| 27.5° | 8311.5  | 8300.3  | 8117.6  | 7892.5  | 7711.9  | 7709.7  | 8095.3  | 8411.8  | 9071.6  | 10050.0 | 8792.9  |
| 30°   | 8891.0  | 8886.5  | 8688.2  | 8405.1  | 8077.4  | 7776.5  | 8006.2  | 8293.7  | 8978.0  | 10259.6 | 8844.2  |
| 32.5° | 9524.0  | 9517.3  | 9368.0  | 9069.3  | 8654.8  | 8077.4  | 8099.7  | 8340.6  | 9004.7  | 10538.2 | 8969.0  |
| 35°   | 10194.9 | 10183.7 | 10119.1 | 9858.4  | 9401.4  | 8632.5  | 8407.4  | 8594.6  | 9174.1  | 10955.0 | 9214.2  |
| 37.5° | 10921.5 | 10932.7 | 10979.5 | 10729.8 | 10250.6 | 9410.3  | 8922.2  | 9049.3  | 9515.1  | 11521.1 | 9613.1  |
| 40°   | 11993.6 | 11991.4 | 12006.9 | 11679.4 | 11217.9 | 10362.0 | 9642.1  | 9682.2  | 10085.7 | 12272.2 | 10219.4 |
| 42.5° | 13939.4 | 13803.5 | 13391.2 | 12722.4 | 12258.9 | 11449.8 | 10549.3 | 10506.9 | 10783.4 | 13201.7 | 11068.6 |
| 45°   | 16553.9 | 16264.2 | 15194.2 | 13912.6 | 13319.8 | 12675.6 | 11665.9 | 11530.0 | 11706.0 | 14318.3 | 12116.2 |
| 47.5° | 18802.9 | 18502.0 | 16988.5 | 15152.0 | 14445.3 | 13839.1 | 12974.3 | 12729.1 | 12787.0 | 15568.7 | 13444.6 |
| 50°   | 19567.4 | 19420.3 | 18098.5 | 16230.7 | 15535.2 | 15303.5 | 14492.1 | 14193.6 | 14111.1 | 17015.3 | 14984.8 |
| 52.5° | 19302.1 | 19291.0 | 18410.5 | 16930.6 | 16533.8 | 16819.2 | 16402.3 | 16056.8 | 15753.8 | 18539.8 | 16551.6 |
| 55°   | 18876.4 | 18932.1 | 18537.6 | 17543.5 | 17530.1 | 18203.2 | 19014.6 | 18727.0 | 17848.9 | 20195.9 | 17902.3 |
| 57.5° | 17701.7 | 17940.3 | 18466.2 | 18702.6 | 19250.8 | 19939.6 | 21190.0 | 21359.3 | 20320.7 | 21464.1 | 19023.4 |
| 60°   | 14362.9 | 14886.7 | 16607.4 | 18869.7 | 21468.6 | 23184.9 | 23815.6 | 23960.4 | 22349.0 | 22518.4 | 20536.9 |
| 62.5° | 10194.9 | 10729.8 | 12911.9 | 16738.8 | 21502.0 | 27448.6 | 27727.3 | 27158.9 | 24582.4 | 24080.8 | 23146.9 |
| 65°   | 5411.7  | 5824.1  | 7607.1  | 12082.8 | 18642.4 | 28438.3 | 34567.7 | 32873.7 | 28523.0 | 27154.4 | 26519.2 |
| 67.5° | 2768.3  | 2893.0  | 3601.8  | 5913.2  | 12816.1 | 25259.8 | 40699.4 | 41891.8 | 35314.3 | 30203.5 | 26356.5 |
| 69°   | 2449.6  | 2523.2  | 2993.3  | 4275.0  | 8206.8  | 21395.0 | 40998.0 | 44987.7 | 38869.4 | 29949.5 | 23951.6 |
| 70°   | 2371.6  | 2436.2  | 2864.1  | 3869.3  | 6414.7  | 17942.4 | 39854.6 | 44715.8 | 39778.8 | 28982.1 | 22155.0 |
| 72.5° | 2012.7  | 2068.4  | 2549.9  | 3419.0  | 5213.3  | 8906.6  | 32374.5 | 37891.0 | 35695.5 | 24143.2 | 16036.7 |
| 75°   | 1346.3  | 1529.0  | 2447.3  | 3205.1  | 4850.0  | 5059.6  | 21343.8 | 27381.8 | 25436.0 | 16284.2 | 8353.9  |
| 77.5° | 323.2   | 347.7   | 690.9   | 2549.9  | 4435.5  | 4453.3  | 10977.3 | 17021.9 | 13883.7 | 5804.0  | 1974.8  |
| 80°   | 173.8   | 167.1   | 193.9   | 506.0   | 4130.1  | 4179.1  | 4941.5  | 8262.5  | 4957.0  | 962.9   | 650.8   |
| 82.5° | 122.6   | 116.0   | 124.8   | 211.8   | 1299.4  | 3806.9  | 3575.1  | 3740.1  | 2055.0  | 370.0   | 291.9   |
| 85°   | 44.6    | 42.4    | 69.1    | 191.6   | 407.9   | 2188.8  | 3673.2  | 3084.7  | 1665.0  | 169.4   | 213.9   |
| 87.5° | 15.7    | 13.3    | 26.8    | 104.8   | 124.8   | 931.7   | 2266.8  | 2331.4  | 655.3   | 102.4   | 100.3   |
| 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°    | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 | 10259.6 |
| 2.5°  | 10168.1 | 10030.0 | 9775.9  | 9515.1  | 9274.4  | 8984.6  | 8839.7  | 8697.0  | 8637.0  | 8614.6  | 8509.8  |
| 5°    | 9874.0  | 9640.0  | 9100.5  | 8559.0  | 8059.6  | 7529.2  | 7179.2  | 6898.4  | 6733.4  | 6653.3  | 6526.2  |
| 7.5°  | 9497.3  | 9113.9  | 8295.9  | 7460.1  | 6682.2  | 5915.4  | 5347.0  | 4910.2  | 4609.3  | 4464.5  | 4332.9  |
| 10°   | 9131.7  | 8621.3  | 7457.8  | 6318.9  | 5262.4  | 4246.1  | 3461.5  | 2893.0  | 2529.8  | 2362.6  | 2255.6  |
| 12.5° | 8804.1  | 8142.1  | 6648.8  | 5206.6  | 3880.5  | 2690.3  | 1892.4  | 1439.8  | 1214.8  | 1136.8  | 1098.8  |
| 15°   | 8512.1  | 7700.8  | 5884.2  | 4150.2  | 2627.9  | 1538.0  | 1034.2  | 880.4   | 844.8   | 844.8   | 840.3   |
| 17.5° | 8235.8  | 7268.4  | 5146.4  | 3158.3  | 1649.4  | 940.6   | 786.7   | 766.8   | 766.8   | 775.6   | 775.6   |
| 20°   | 7970.5  | 6856.0  | 4433.2  | 2266.8  | 1038.6  | 746.7   | 711.1   | 706.6   | 711.1   | 722.2   | 722.2   |
| 22.5° | 7743.1  | 6481.6  | 3766.8  | 1555.8  | 771.2   | 673.1   | 655.3   | 648.6   | 650.8   | 657.5   | 662.0   |
| 25°   | 7573.8  | 6165.1  | 3138.3  | 1054.3  | 664.2   | 613.0   | 592.8   | 581.7   | 572.8   | 572.8   | 577.3   |
| 27.5° | 7466.8  | 5897.6  | 2529.8  | 766.8   | 597.3   | 557.2   | 526.0   | 508.2   | 488.2   | 477.0   | 481.4   |
| 30°   | 7388.7  | 5643.6  | 1959.2  | 626.3   | 535.0   | 494.8   | 454.7   | 425.7   | 396.7   | 383.4   | 387.9   |
| 32.5° | 7359.8  | 5438.5  | 1464.4  | 552.8   | 479.2   | 434.7   | 385.5   | 347.7   | 316.6   | 305.4   | 307.6   |
| 35°   | 7437.9  | 5275.8  | 1072.1  | 499.4   | 434.7   | 378.9   | 323.2   | 280.8   | 256.3   | 249.6   | 251.9   |
| 37.5° | 7642.8  | 5188.8  | 802.4   | 454.7   | 394.5   | 332.1   | 269.7   | 229.6   | 213.9   | 213.9   | 216.3   |
| 40°   | 8030.7  | 5186.6  | 644.2   | 423.5   | 358.8   | 287.6   | 222.9   | 193.9   | 184.9   | 189.4   | 191.6   |
| 42.5° | 8596.7  | 5304.7  | 561.7   | 394.5   | 327.7   | 245.2   | 184.9   | 165.0   | 162.7   | 167.1   | 169.4   |
| 45°   | 9370.2  | 5521.0  | 517.2   | 370.0   | 294.2   | 205.1   | 156.0   | 142.7   | 142.7   | 149.3   | 151.6   |
| 47.5° | 10317.5 | 5837.4  | 479.2   | 345.5   | 260.8   | 171.6   | 133.8   | 124.8   | 127.1   | 133.8   | 135.9   |
| 50°   | 11458.7 | 6236.4  | 441.3   | 318.7   | 236.2   | 142.7   | 116.0   | 109.3   | 111.5   | 120.4   | 122.6   |
| 52.5° | 12758.1 | 6773.5  | 410.2   | 294.2   | 205.1   | 118.1   | 98.2    | 93.6    | 98.2    | 107.0   | 109.3   |
| 55°   | 13872.5 | 7255.1  | 372.2   | 274.1   | 165.0   | 98.2    | 80.2    | 80.2    | 84.6    | 95.8    | 98.2    |
| 57.5° | 14944.6 | 7758.7  | 338.8   | 236.2   | 129.3   | 78.0    | 66.8    | 69.1    | 75.8    | 87.0    | 89.1    |
| 60°   | 16518.3 | 8612.4  | 298.8   | 198.5   | 98.2    | 62.4    | 55.7    | 57.9    | 66.8    | 78.0    | 80.2    |
| 62.5° | 19190.7 | 9911.8  | 258.5   | 165.0   | 75.8    | 49.0    | 44.6    | 49.0    | 60.2    | 73.5    | 75.8    |
| 65°   | 21602.3 | 10440.0 | 211.8   | 138.2   | 57.9    | 37.9    | 37.9    | 44.6    | 57.9    | 71.3    | 73.5    |
| 67.5° | 20258.3 | 8788.5  | 165.0   | 109.3   | 44.6    | 29.0    | 31.2    | 42.4    | 55.7    | 71.3    | 73.5    |
| 69°   | 17915.8 | 7185.9  | 140.4   | 87.0    | 37.9    | 26.8    | 29.0    | 42.4    | 55.7    | 69.1    | 71.3    |
| 70°   | 16090.3 | 6067.0  | 124.8   | 73.5    | 33.5    | 26.8    | 29.0    | 40.1    | 55.7    | 69.1    | 71.3    |
| 72.5° | 10776.7 | 3276.4  | 100.3   | 53.5    | 31.2    | 24.5    | 24.5    | 40.1    | 53.5    | 66.8    | 69.1    |
| 75°   | 4631.6  | 904.8   | 80.2    | 37.9    | 26.8    | 22.3    | 22.3    | 37.9    | 51.3    | 64.7    | 69.1    |
| 77.5° | 847.0   | 229.6   | 64.7    | 33.5    | 26.8    | 22.3    | 20.1    | 35.6    | 49.0    | 62.4    | 64.7    |
| 80°   | 336.5   | 113.6   | 51.3    | 29.0    | 24.5    | 20.1    | 17.8    | 33.5    | 46.8    | 60.2    | 62.4    |
| 82.5° | 202.7   | 64.7    | 42.4    | 26.8    | 24.5    | 17.8    | 15.7    | 29.0    | 44.6    | 57.9    | 60.2    |
| 85°   | 165.0   | 44.6    | 33.5    | 26.8    | 22.3    | 17.8    | 13.3    | 26.8    | 40.1    | 55.7    | 57.9    |
| 87.5° | 80.2    | 31.2    | 31.2    | 24.5    | 22.3    | 17.8    | 13.3    | 24.5    | 37.9    | 53.5    | 55.7    |
| 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)