

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: P319448

Luminaire Tested: **GAN-SA4C-760-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4C-760-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27950 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

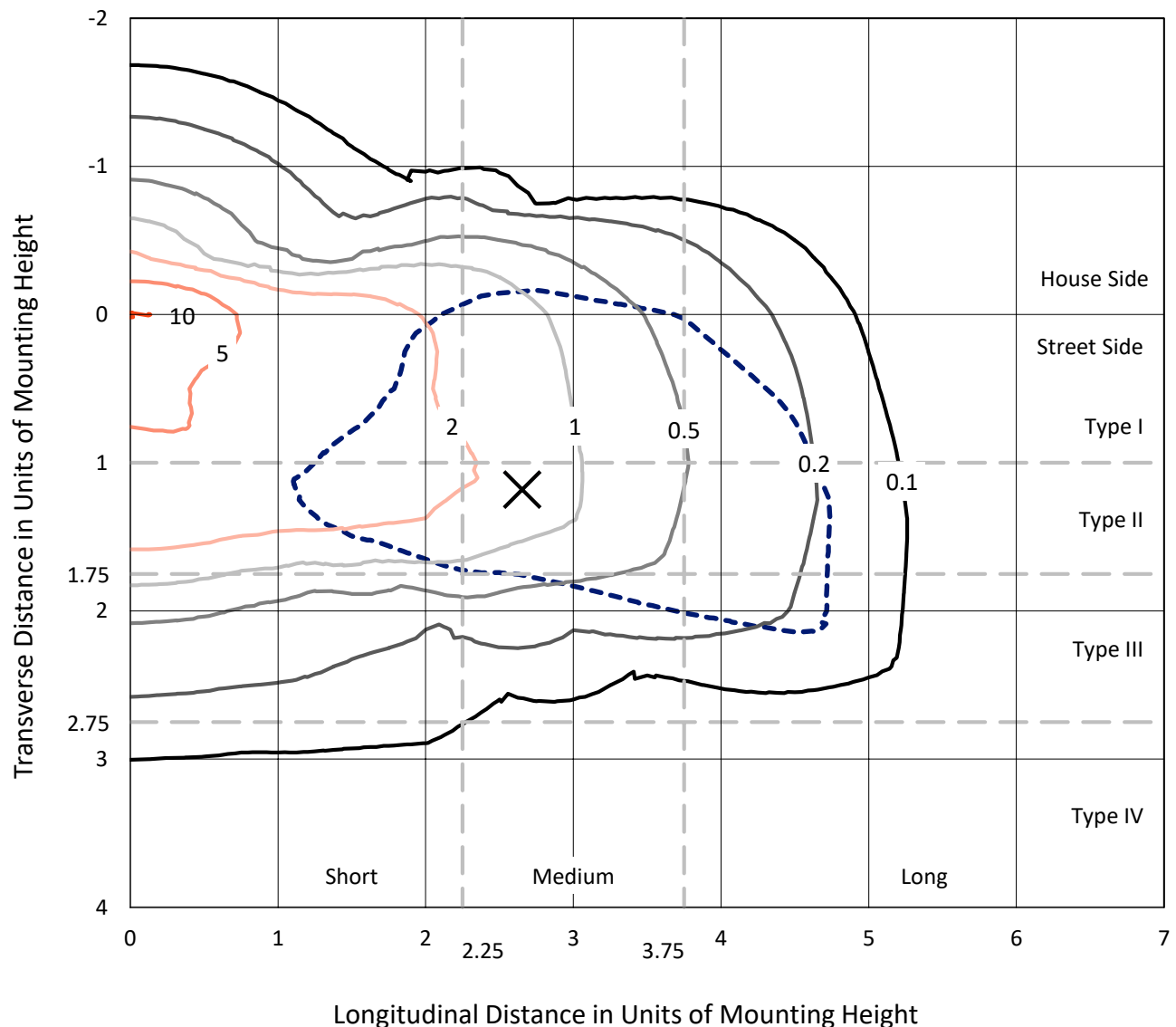
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

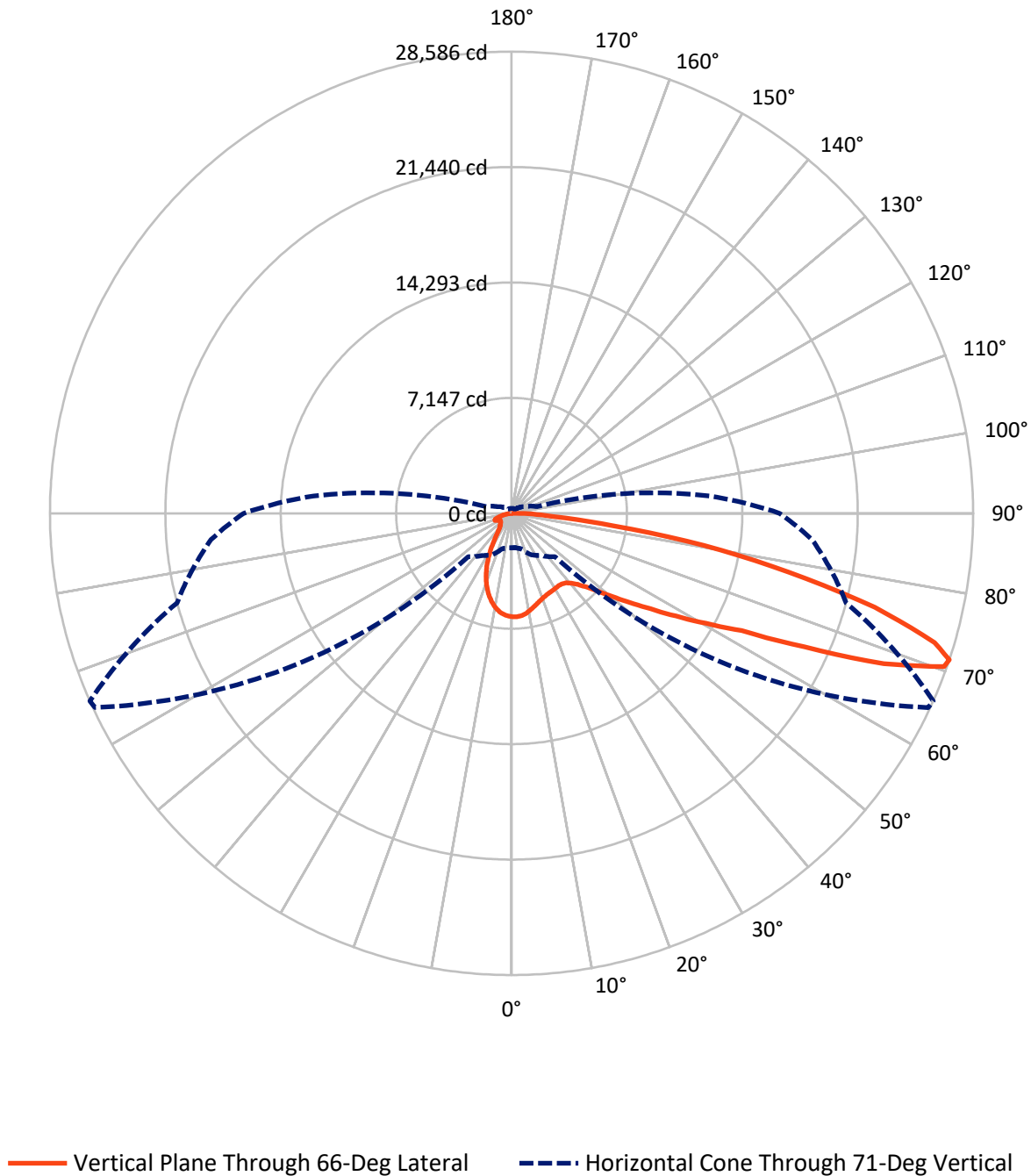
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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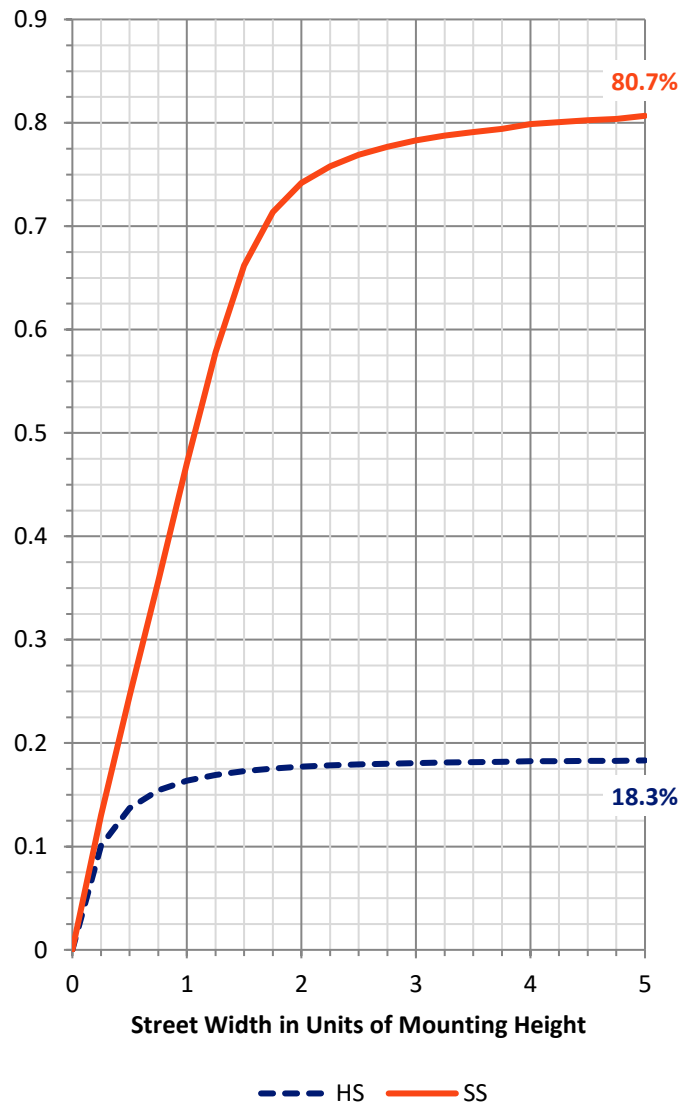
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5179.9   | 0.0    | 5179.9  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 22770.1  | 0.0    | 22770.1 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 27950.0  | 0.0    | 27950.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 563.6   | 2.0       |
| 10°-20°   | 1351.8  | 4.8       |
| 20°-30°   | 1815.7  | 6.5       |
| 30°-40°   | 2388.6  | 8.5       |
| 40°-50°   | 3474.8  | 12.4      |
| 50°-60°   | 5428.0  | 19.4      |
| 60°-70°   | 6799.4  | 24.3      |
| 70°-80°   | 5186.4  | 18.6      |
| 80°-90°   | 941.8   | 3.4       |
| 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°    | 27950.0 | 100.0     |
| 0°-180°   | 27950.0 | 100.0     |

**Coefficient of Utilization**



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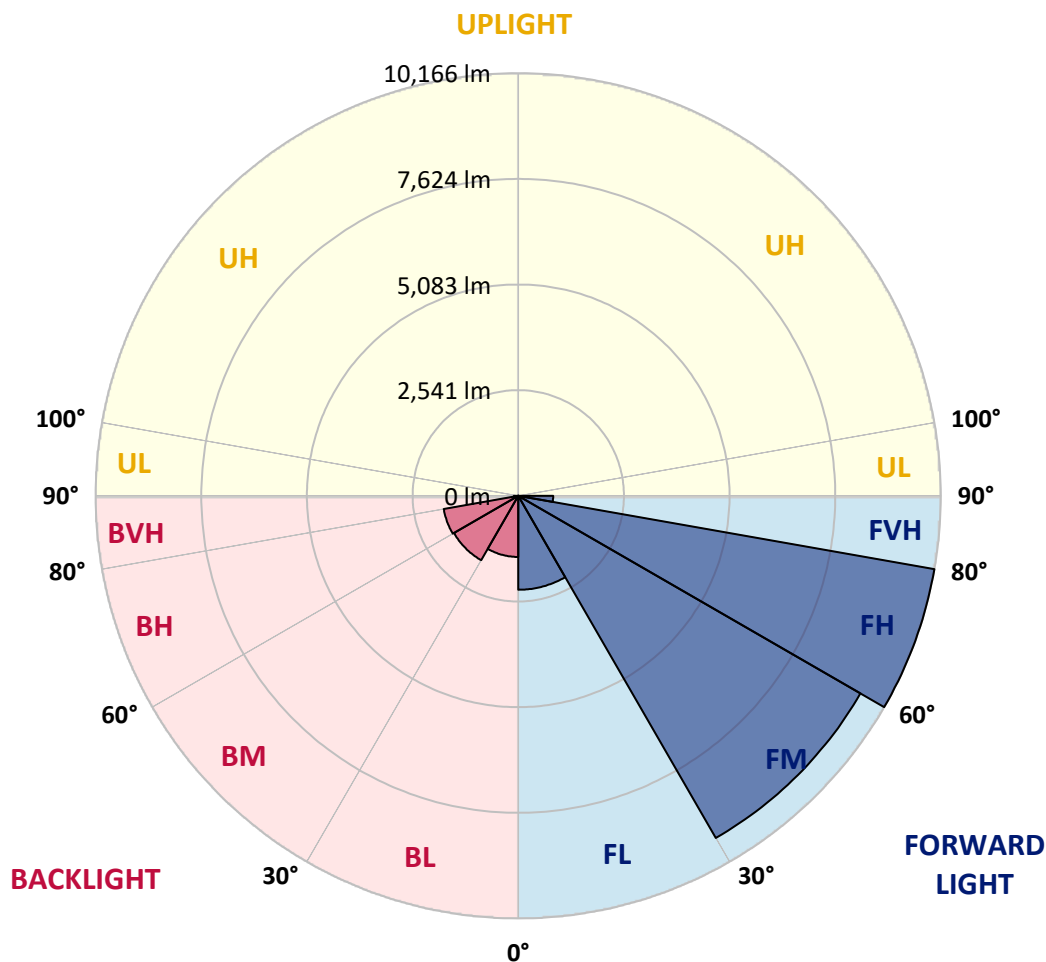
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2260.1  | 8.1       |                         |      |          |
| FM   | (30°-60°)   | 9504.4  | 34.0      |                         |      |          |
| FH   | (60°-80°)   | 10165.7 | 36.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 839.8   | 3.0       |                         |      | G5       |
| BL   | (0°-30°)    | 1471.0  | 5.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1786.9  | 6.4       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1820.1  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 101.9   | 0.4       |                         |      | G2/225   |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6402.8 | 6402.8 | 6402.8 | 6402.8  | 6402.8  | 6402.8  | 6402.8  | 6402.8  | 6402.8  | 6402.8  | 6402.8  |
| 2.5°  | 6284.1 | 6274.5 | 6303.4 | 6333.3  | 6344.9  | 6364.2  | 6393.2  | 6409.6  | 6408.6  | 6411.5  | 6401.8  |
| 5°    | 5867.2 | 5854.7 | 5912.6 | 5959.9  | 6050.6  | 6152.9  | 6277.4  | 6366.1  | 6368.1  | 6418.2  | 6431.8  |
| 7.5°  | 5472.5 | 5463.9 | 5530.4 | 5606.7  | 5711.9  | 5868.2  | 6069.9  | 6260.9  | 6272.5  | 6408.6  | 6455.9  |
| 10°   | 5156.0 | 5154.1 | 5218.7 | 5301.7  | 5424.3  | 5599.0  | 5830.6  | 6110.4  | 6127.8  | 6362.3  | 6459.7  |
| 12.5° | 4909.0 | 4912.8 | 4968.8 | 5063.4  | 5192.7  | 5375.1  | 5626.0  | 5941.5  | 5969.5  | 6288.9  | 6437.5  |
| 15°   | 4726.6 | 4742.0 | 4787.4 | 4882.9  | 5010.3  | 5195.6  | 5453.2  | 5785.2  | 5827.7  | 6206.9  | 6425.0  |
| 17.5° | 4622.4 | 4639.7 | 4671.6 | 4750.7  | 4870.4  | 5048.9  | 5293.0  | 5656.9  | 5695.5  | 6144.2  | 6426.0  |
| 20°   | 4591.5 | 4606.0 | 4624.3 | 4672.6  | 4773.9  | 4936.0  | 5166.6  | 5541.1  | 5582.6  | 6094.0  | 6435.6  |
| 22.5° | 4652.3 | 4662.9 | 4664.8 | 4661.0  | 4722.7  | 4854.9  | 5075.0  | 5456.1  | 5500.5  | 6061.2  | 6442.4  |
| 25°   | 4782.6 | 4797.0 | 4786.4 | 4750.7  | 4730.5  | 4811.5  | 5027.7  | 5400.2  | 5444.6  | 6037.1  | 6428.9  |
| 27.5° | 4978.5 | 4980.4 | 4971.7 | 4925.4  | 4829.8  | 4816.3  | 5013.2  | 5367.4  | 5409.8  | 6009.1  | 6400.9  |
| 30°   | 5244.8 | 5257.3 | 5241.9 | 5179.2  | 5022.8  | 4893.5  | 5030.6  | 5335.5  | 5374.1  | 5973.4  | 6355.5  |
| 32.5° | 5556.5 | 5587.4 | 5586.4 | 5520.8  | 5296.9  | 5066.3  | 5102.0  | 5316.2  | 5346.1  | 5935.7  | 6300.5  |
| 35°   | 5879.8 | 5922.2 | 6001.4 | 5973.4  | 5696.4  | 5339.4  | 5239.0  | 5347.1  | 5367.4  | 5930.9  | 6261.9  |
| 37.5° | 6215.6 | 6258.1 | 6421.1 | 6496.4  | 6172.2  | 5730.2  | 5455.2  | 5456.1  | 5465.8  | 5989.8  | 6259.0  |
| 40°   | 6566.9 | 6612.2 | 6857.3 | 7053.2  | 6788.8  | 6225.2  | 5803.5  | 5683.9  | 5673.3  | 6134.5  | 6316.0  |
| 42.5° | 7059.0 | 7099.5 | 7393.9 | 7643.8  | 7473.0  | 6859.3  | 6285.1  | 6035.1  | 6012.9  | 6418.2  | 6498.3  |
| 45°   | 7681.4 | 7716.2 | 8028.8 | 8296.1  | 8208.3  | 7583.0  | 6890.1  | 6518.6  | 6514.7  | 6891.1  | 6867.9  |
| 47.5° | 8421.6 | 8448.6 | 8729.4 | 8988.1  | 9019.9  | 8415.8  | 7650.6  | 7264.6  | 7201.8  | 7539.6  | 7440.2  |
| 50°   | 9192.6 | 9222.5 | 9413.6 | 9691.5  | 9928.0  | 9530.4  | 8629.1  | 8178.4  | 8094.5  | 8395.5  | 8250.8  |
| 52.5° | 9703.1 | 9742.7 | 9908.7 | 10260.9 | 10948.9 | 10752.1 | 9786.1  | 9286.2  | 9158.9  | 9432.9  | 9321.9  |
| 55°   | 9475.4 | 9564.2 | 9818.0 | 10382.5 | 11765.3 | 12618.4 | 11213.4 | 10578.4 | 10434.6 | 10662.3 | 10596.7 |
| 57.5° | 8439.9 | 8561.5 | 8908.0 | 9779.4  | 11880.2 | 14262.8 | 13371.1 | 12100.2 | 11998.9 | 11933.2 | 11963.2 |
| 60°   | 6547.6 | 6664.3 | 7093.7 | 8229.6  | 11080.2 | 15463.2 | 16618.3 | 13976.2 | 13829.5 | 13209.0 | 13236.0 |
| 62.5° | 4634.0 | 4575.1 | 4869.4 | 5700.3  | 9003.5  | 15604.1 | 20313.3 | 16485.2 | 16002.7 | 14556.1 | 14437.4 |
| 65°   | 3533.8 | 3520.3 | 3652.5 | 3917.0  | 5453.2  | 13918.3 | 22514.5 | 20702.2 | 19948.6 | 16140.7 | 15860.8 |
| 67.5° | 2903.7 | 2879.6 | 3009.8 | 3394.9  | 3511.7  | 8979.4  | 22562.8 | 25594.8 | 24854.7 | 18113.1 | 17507.1 |
| 70°   | 2387.4 | 2360.4 | 2482.0 | 2979.0  | 3245.3  | 4553.9  | 18989.4 | 28459.9 | 28420.3 | 20610.6 | 18750.0 |
| 71°   | 2140.4 | 2121.1 | 2266.8 | 2818.8  | 3188.4  | 3795.4  | 16395.4 | 28467.6 | 28586.3 | 21455.9 | 18676.7 |
| 72.5° | 1742.8 | 1749.6 | 1904.0 | 2509.0  | 3145.9  | 3351.5  | 12050.0 | 27140.7 | 27391.6 | 22261.7 | 18009.9 |
| 75°   | 1158.0 | 1163.8 | 1366.4 | 1930.0  | 3050.4  | 3279.1  | 6622.8  | 22774.1 | 23235.4 | 21779.2 | 16434.0 |
| 77.5° | 777.8  | 775.9  | 913.9  | 1324.0  | 2657.6  | 3279.1  | 3883.2  | 17033.3 | 17539.9 | 17329.5 | 12669.5 |
| 80°   | 535.6  | 531.7  | 629.2  | 913.9   | 2012.0  | 3318.6  | 3002.1  | 11937.1 | 12090.5 | 9358.6  | 5149.3  |
| 82.5° | 328.1  | 331.0  | 411.1  | 645.6   | 1369.3  | 2986.7  | 2834.2  | 6509.0  | 6342.0  | 2624.8  | 1286.4  |
| 85°   | 188.2  | 187.2  | 262.5  | 437.1   | 879.1   | 2520.6  | 2763.8  | 2801.4  | 2569.8  | 790.3   | 465.1   |
| 87.5° | 67.6   | 72.4   | 140.9  | 242.2   | 503.7   | 1755.3  | 2345.0  | 1457.2  | 1313.4  | 357.1   | 210.4   |
| 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°    | 6402.8  | 6402.8  | 6402.8 | 6402.8 | 6402.8 | 6402.8 | 6402.8 | 6402.8 | 6402.8 | 6402.8 | 6402.8 |
| 2.5°  | 6395.1  | 6400.9  | 6394.1 | 6355.5 | 6322.7 | 6269.6 | 6239.7 | 6198.2 | 6185.7 | 6179.9 | 6195.3 |
| 5°    | 6419.2  | 6421.1  | 6364.2 | 6262.9 | 6149.0 | 6014.9 | 5918.4 | 5799.7 | 5743.7 | 5719.6 | 5735.0 |
| 7.5°  | 6441.4  | 6432.7  | 6308.2 | 6114.3 | 5903.9 | 5670.4 | 5462.9 | 5272.8 | 5161.8 | 5116.5 | 5120.3 |
| 10°   | 6444.3  | 6407.6  | 6207.9 | 5907.8 | 5581.6 | 5239.0 | 4920.6 | 4627.2 | 4441.9 | 4321.3 | 4358.0 |
| 12.5° | 6414.4  | 6352.6  | 6060.2 | 5640.5 | 5187.9 | 4720.8 | 4290.4 | 3850.4 | 3586.0 | 3463.4 | 3467.3 |
| 15°   | 6391.2  | 6279.3  | 5878.8 | 5325.9 | 4717.9 | 4099.3 | 3511.7 | 2994.4 | 2712.6 | 2587.2 | 2528.3 |
| 17.5° | 6371.9  | 6200.2  | 5668.4 | 4971.7 | 4163.0 | 3378.5 | 2672.1 | 2210.8 | 2056.4 | 2019.8 | 2004.3 |
| 20°   | 6344.9  | 6116.2  | 5433.9 | 4561.6 | 3531.0 | 2571.7 | 1951.2 | 1723.5 | 1724.5 | 1766.9 | 1772.7 |
| 22.5° | 6307.3  | 6020.7  | 5184.0 | 4101.3 | 2852.6 | 1873.1 | 1529.5 | 1463.9 | 1530.5 | 1611.6 | 1626.0 |
| 25°   | 6251.3  | 5907.8  | 4906.1 | 3592.7 | 2175.1 | 1439.8 | 1306.6 | 1303.7 | 1384.8 | 1469.7 | 1482.2 |
| 27.5° | 6172.2  | 5760.1  | 4597.3 | 3046.5 | 1602.9 | 1223.6 | 1170.6 | 1190.8 | 1250.6 | 1312.4 | 1317.2 |
| 30°   | 6066.0  | 5588.3  | 4256.6 | 2470.4 | 1256.4 | 1089.5 | 1083.7 | 1102.0 | 1138.7 | 1182.1 | 1186.0 |
| 32.5° | 5949.3  | 5413.7  | 3892.8 | 1912.6 | 1076.0 | 1017.1 | 1022.9 | 1031.6 | 1049.0 | 1066.3 | 1070.2 |
| 35°   | 5843.1  | 5235.1  | 3520.3 | 1453.3 | 990.1  | 969.8  | 966.0  | 964.0  | 966.0  | 960.2  | 961.1  |
| 37.5° | 5774.6  | 5087.5  | 3132.4 | 1157.0 | 940.9  | 928.3  | 916.8  | 902.3  | 885.9  | 876.2  | 878.2  |
| 40°   | 5749.5  | 4977.5  | 2739.6 | 999.7  | 900.3  | 891.7  | 869.5  | 838.6  | 819.3  | 813.5  | 813.5  |
| 42.5° | 5817.0  | 4920.6  | 2360.4 | 920.6  | 866.6  | 852.1  | 815.4  | 779.7  | 765.2  | 764.3  | 763.3  |
| 45°   | 6023.6  | 4943.7  | 1999.5 | 877.2  | 835.7  | 807.7  | 759.5  | 729.5  | 719.9  | 721.8  | 720.9  |
| 47.5° | 6394.1  | 5089.4  | 1690.7 | 848.2  | 804.8  | 768.1  | 714.1  | 690.0  | 678.4  | 678.4  | 679.4  |
| 50°   | 7024.3  | 5430.1  | 1444.6 | 824.1  | 778.8  | 731.5  | 681.3  | 651.4  | 635.9  | 635.0  | 635.0  |
| 52.5° | 7942.0  | 6040.0  | 1291.2 | 803.8  | 749.8  | 698.7  | 648.5  | 610.8  | 592.5  | 588.7  | 586.7  |
| 55°   | 9092.3  | 6914.3  | 1248.7 | 790.3  | 711.2  | 663.0  | 608.9  | 571.3  | 551.0  | 542.3  | 541.4  |
| 57.5° | 10378.6 | 7977.7  | 1332.7 | 773.9  | 671.6  | 620.5  | 565.5  | 529.8  | 508.6  | 497.9  | 497.0  |
| 60°   | 11680.4 | 9138.6  | 1675.2 | 750.8  | 638.8  | 574.2  | 521.1  | 488.3  | 467.1  | 455.5  | 453.6  |
| 62.5° | 12984.1 | 10362.2 | 2374.9 | 748.8  | 615.7  | 529.8  | 475.7  | 447.8  | 427.5  | 415.0  | 412.1  |
| 65°   | 14454.8 | 11701.6 | 3170.0 | 800.0  | 608.0  | 489.3  | 429.4  | 407.2  | 389.9  | 378.3  | 377.3  |
| 67.5° | 16143.6 | 13213.8 | 3093.8 | 905.2  | 634.0  | 452.6  | 386.0  | 368.6  | 356.1  | 346.4  | 345.5  |
| 70°   | 16935.8 | 12977.4 | 1923.3 | 979.5  | 670.7  | 416.9  | 344.5  | 332.0  | 322.3  | 315.6  | 312.7  |
| 71°   | 16603.9 | 12322.1 | 1612.5 | 970.8  | 666.8  | 401.4  | 328.1  | 318.5  | 308.8  | 303.0  | 300.1  |
| 72.5° | 15698.7 | 11237.5 | 1345.2 | 903.2  | 623.4  | 373.5  | 306.9  | 297.2  | 288.5  | 281.8  | 279.9  |
| 75°   | 14087.1 | 10036.0 | 1076.9 | 721.8  | 497.0  | 315.6  | 269.2  | 258.6  | 251.9  | 248.0  | 244.1  |
| 77.5° | 10355.5 | 7162.3  | 832.8  | 570.3  | 365.7  | 257.7  | 229.7  | 222.0  | 215.2  | 209.4  | 206.5  |
| 80°   | 3967.1  | 2774.4  | 560.7  | 425.6  | 268.3  | 203.6  | 185.3  | 181.4  | 174.7  | 170.8  | 170.8  |
| 82.5° | 1068.3  | 828.9   | 299.2  | 257.7  | 179.5  | 148.6  | 141.9  | 139.9  | 134.1  | 126.4  | 127.4  |
| 85°   | 432.3   | 365.7   | 167.9  | 141.9  | 110.0  | 87.8   | 95.5   | 96.5   | 89.7   | 80.1   | 81.1   |
| 87.5° | 190.1   | 155.4   | 93.6   | 62.7   | 48.3   | 33.8   | 43.4   | 43.4   | 39.6   | 32.8   | 29.9   |
| 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)