

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 769249\_350MP

Luminaire Tested: **ACN35PXX3C**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-46-04  
Report Number: 769249\_350MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN35PXX3C  
Description: ARCHITECTURAL POST TOP LUMINAIRE - TYPE III CUTOFF  
W/SPECULAR CHIMNEY  
Light Source: 350 WATT PULSE-START CLEAR ED-28 VBD BURN  
Ballast/Driver: -

### Summary

Lumens per Lamp: 37000 (1 lamp)  
Luminaire Lumens: 26396.5 lumens  
Efficiency: 71.3%  
Efficacy: 66.5 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B4 - U3 - G4

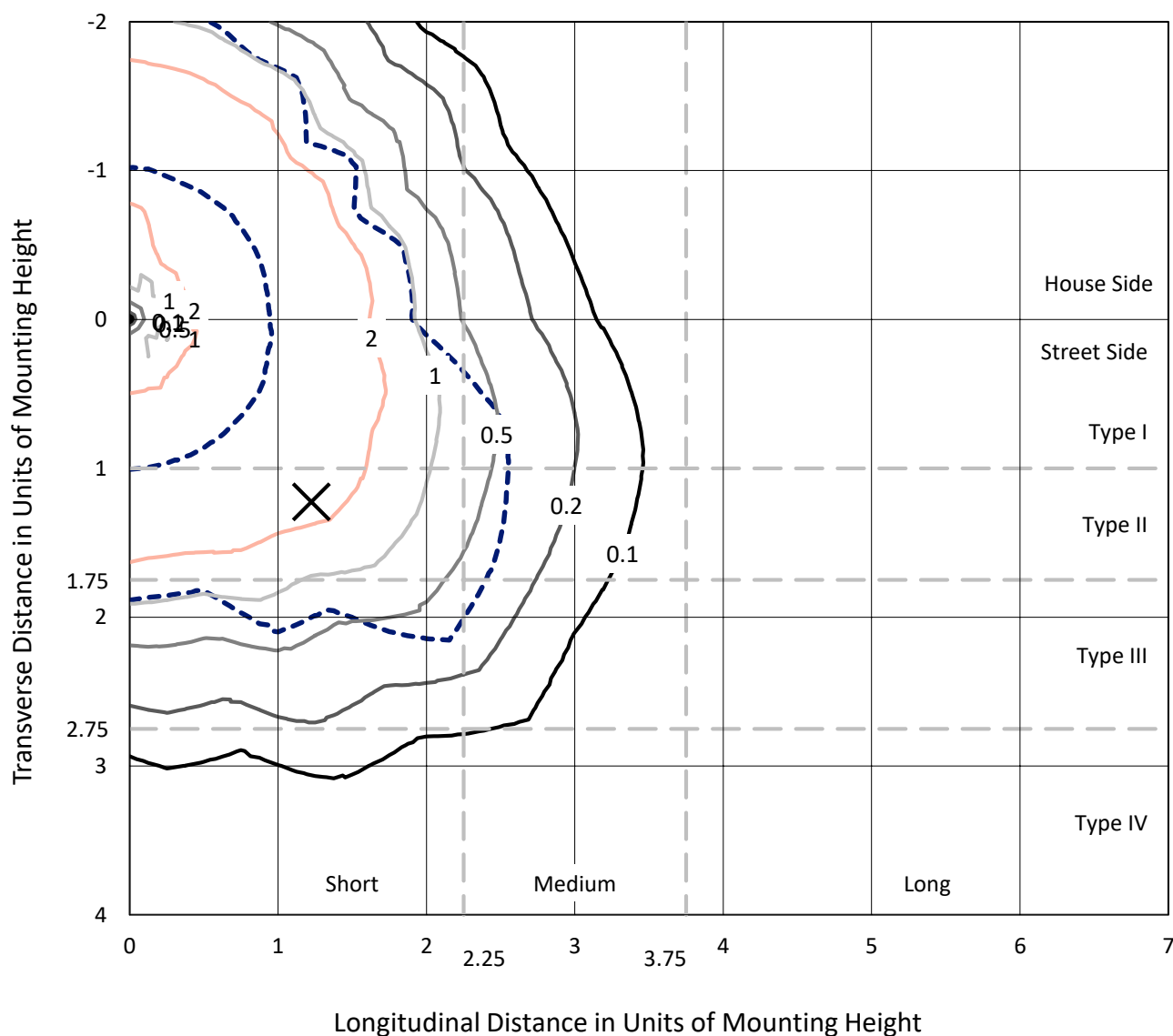
Input Watts (W): 397  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

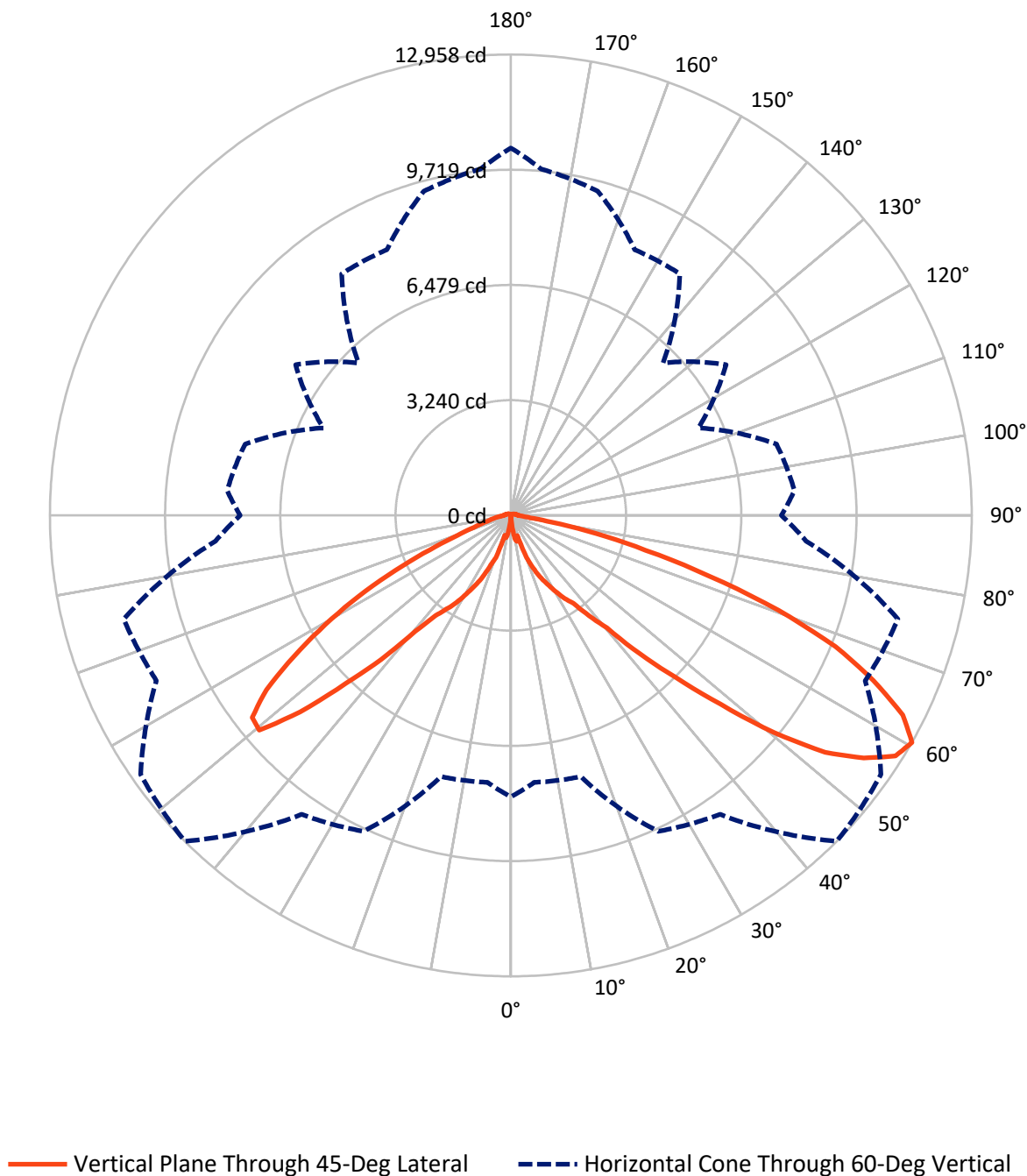
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - Cutoff

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## Luminous Intensity Polar Plot



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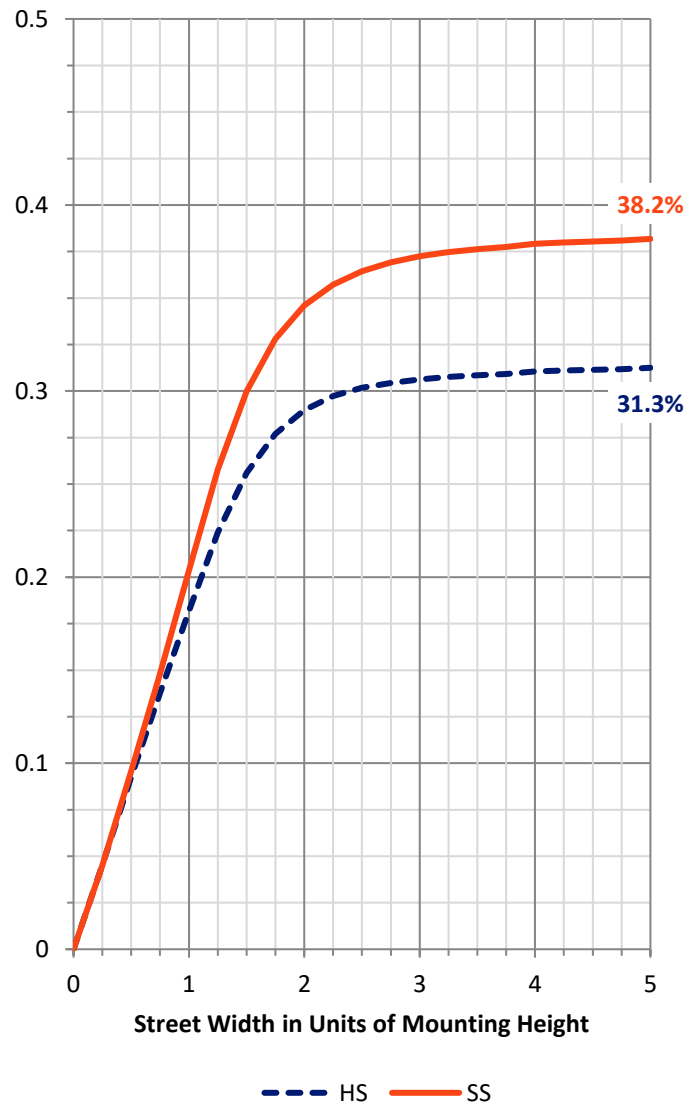
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 11665.2  | 257.9  | 11923.2 |
|                    | % Lamp | 31.5     | 0.7    | 32.2    |
| <b>Street Side</b> | Lumens | 14211.2  | 262.1  | 14473.3 |
|                    | % Lamp | 38.4     | 0.7    | 39.1    |
| <b>Total</b>       | Lumens | 25876.4  | 520.1  | 26396.5 |
|                    | % Lamp | 69.9     | 1.4    | 71.3    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 32.2    | 0.1       | 0.1    |
| 10°-20°   | 204.4   | 0.8       | 0.6    |
| 20°-30°   | 815.2   | 3.1       | 2.2    |
| 30°-40°   | 1892.5  | 7.2       | 5.1    |
| 40°-50°   | 5319.5  | 20.2      | 14.4   |
| 50°-60°   | 8990.1  | 34.1      | 24.3   |
| 60°-70°   | 6275.6  | 23.8      | 17.0   |
| 70°-80°   | 1958.5  | 7.4       | 5.3    |
| 80°-90°   | 388.2   | 1.5       | 1.0    |
| 90°-100°  | 187.9   | 0.7       | 0.5    |
| 100°-110° | 135.5   | 0.5       | 0.4    |
| 110°-120° | 92.7    | 0.4       | 0.3    |
| 120°-130° | 60.3    | 0.2       | 0.2    |
| 130°-140° | 32.5    | 0.1       | 0.1    |
| 140°-150° | 12.2    | 0.0       | 0.0    |
| 150°-160° | 3.3     | 0.0       | 0.0    |
| 160°-170° | 0.6     | 0.0       | 0.0    |
| 170°-180° | 0.0     | 0.0       | 0.0    |
| 0°-90°    | 25876.4 | 98.0      | 69.9   |
| 0°-180°   | 26396.5 | 100.0     | 71.3   |

**Coefficient of Utilization**

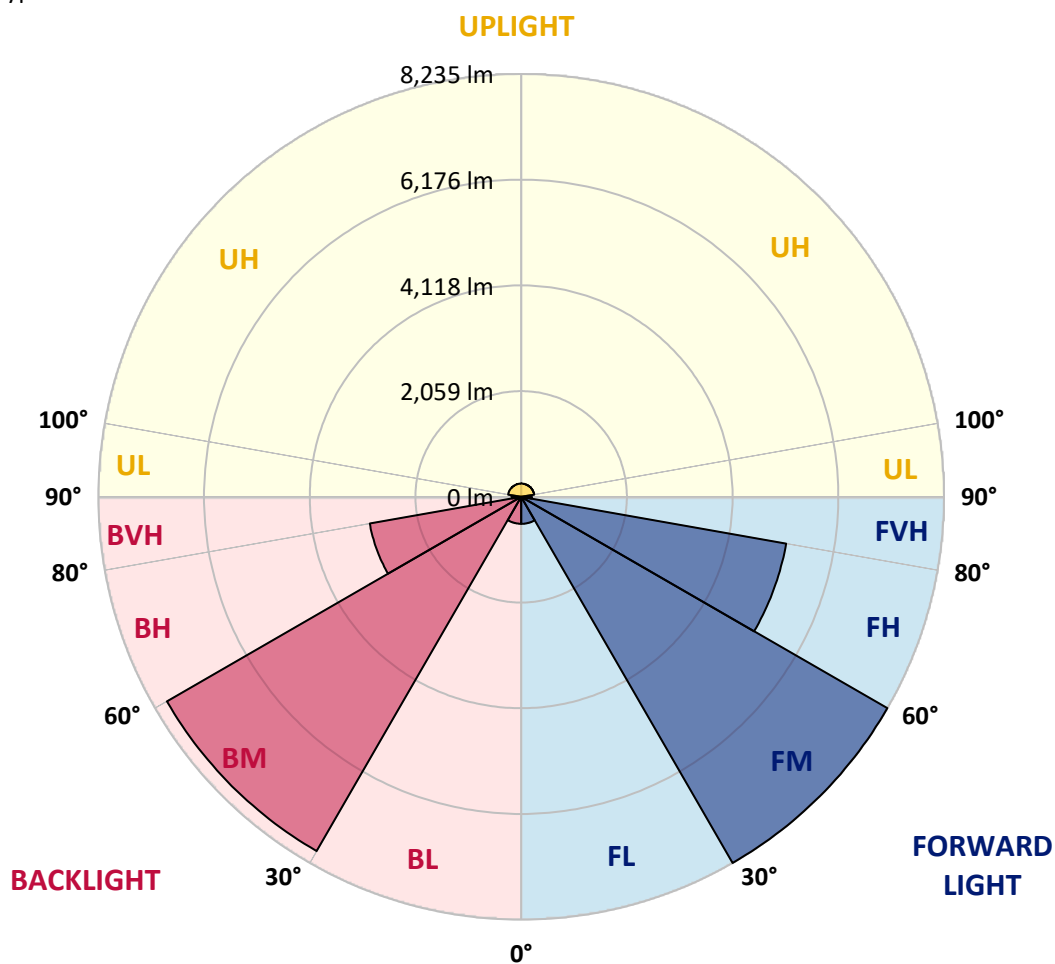


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens  | % Lamp | Zone Rating/Lumen Limit |        |         |
|---------------|-------------|---------|--------|-------------------------|--------|---------|
|               |             |         |        | B                       | U      | G       |
| FL            | (0°-30°)    | 527.0   | 1.4    |                         |        |         |
| FM            | (30°-60°)   | 8235.3  | 22.3   |                         |        |         |
| FH            | (60°-80°)   | 5240.5  | 14.2   |                         |        | G3/7500 |
| FVH           | (80°-90°)   | 208.4   | 0.6    |                         |        | G2/225  |
| BL            | (0°-30°)    | 524.8   | 1.4    | B2/1000                 |        |         |
| BM            | (30°-60°)   | 7966.9  | 21.5   | B4/8500                 |        |         |
| BH            | (60°-80°)   | 2993.6  | 8.1    | B4/5000                 |        | G4/5000 |
| BVH           | (80°-90°)   | 179.8   | 0.5    |                         |        | G2/225  |
| UL            | (90°-100°)  | 187.9   | 0.5    |                         | U3/500 |         |
| UH            | (100°-180°) | 257.9   | 0.7    |                         | U3/500 |         |
| Trapped Light |             | 10603.5 | 28.7   |                         |        |         |

**BUG Rating: B4-U3-G4**  
Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 0.0     | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 2.5°  | 10.3    | 10.3   | 10.3   | 10.3    | 10.3    | 10.3    | 10.3    | 10.3    | 5.1     | 10.3    | 10.3    |
| 5°    | 125.4   | 131.6  | 120.2  | 125.4   | 125.4   | 136.7   | 115.1   | 120.2   | 125.4   | 131.6   | 136.7   |
| 7.5°  | 461.5   | 466.6  | 461.5  | 446.1   | 451.2   | 471.7   | 461.5   | 471.7   | 461.5   | 466.6   | 456.3   |
| 10°   | 608.4   | 634.1  | 644.4  | 676.3   | 676.3   | 686.6   | 696.8   | 686.6   | 696.8   | 681.4   | 671.1   |
| 12.5° | 754.4   | 765.7  | 776.0  | 786.2   | 786.2   | 754.4   | 770.8   | 776.0   | 776.0   | 739.0   | 718.4   |
| 15°   | 744.1   | 754.4  | 770.8  | 728.7   | 708.1   | 702.0   | 713.3   | 686.6   | 671.1   | 634.1   | 618.7   |
| 17.5° | 649.6   | 634.1  | 629.0  | 623.9   | 623.9   | 592.0   | 586.9   | 539.6   | 556.0   | 524.2   | 534.4   |
| 20°   | 922.9   | 958.9  | 985.6  | 1127.5  | 953.8   | 1258.0  | 1205.6  | 1163.4  | 1168.6  | 1048.3  | 1158.3  |
| 22.5° | 1342.3  | 1295.0 | 1394.7 | 1530.4  | 1483.1  | 1609.5  | 1483.1  | 1462.5  | 1467.7  | 1342.3  | 1509.8  |
| 25°   | 1624.9  | 1614.6 | 1640.3 | 1704.1  | 1692.7  | 1908.6  | 1866.4  | 1819.2  | 1782.2  | 1667.1  | 1881.9  |
| 27.5° | 1834.6  | 1819.2 | 1934.3 | 1844.9  | 1892.1  | 2186.1  | 2101.8  | 2054.5  | 2013.4  | 1934.3  | 2159.4  |
| 30°   | 2044.2  | 1997.0 | 2164.5 | 2118.2  | 2159.4  | 2473.9  | 2416.3  | 2390.6  | 2321.8  | 2159.4  | 2353.6  |
| 32.5° | 2275.5  | 2306.3 | 2458.4 | 2348.5  | 2495.4  | 2788.4  | 2678.4  | 2631.1  | 2615.7  | 2395.7  | 2678.4  |
| 35°   | 2505.7  | 2521.1 | 2700.0 | 2820.2  | 2893.2  | 3035.0  | 3024.7  | 2998.0  | 2992.9  | 2930.2  | 2967.2  |
| 37.5° | 2852.1  | 2872.6 | 3045.3 | 3171.7  | 3255.0  | 3574.6  | 3386.5  | 3354.7  | 3469.8  | 3329.0  | 3454.4  |
| 40°   | 3511.9  | 3528.4 | 3721.6 | 3858.3  | 3915.8  | 4157.4  | 4115.2  | 4057.7  | 4267.3  | 4151.2  | 4392.7  |
| 42.5° | 4801.8  | 4754.5 | 5016.6 | 5106.0  | 5121.4  | 5315.7  | 5253.0  | 5200.6  | 5630.2  | 5508.9  | 5875.8  |
| 45°   | 6311.6  | 6327.0 | 6505.8 | 6468.8  | 6474.0  | 6484.2  | 6474.0  | 6364.0  | 7275.6  | 6971.4  | 7443.2  |
| 47.5° | 8051.6  | 7904.6 | 8004.3 | 7889.2  | 7936.5  | 7931.4  | 7904.6  | 7752.5  | 8953.0  | 8518.2  | 8890.3  |
| 50°   | 9519.3  | 9121.5 | 9199.6 | 9299.3  | 9283.9  | 9598.4  | 9388.8  | 9179.1  | 10504.9 | 9975.6  | 9923.2  |
| 52.5° | 10138.0 | 9629.2 | 9797.8 | 10227.4 | 10327.1 | 11060.9 | 10719.7 | 10001.3 | 11463.8 | 10405.2 | 10415.5 |
| 55°   | 9813.2  | 9472.0 | 9661.1 | 10609.7 | 11091.8 | 12040.4 | 11946.9 | 10237.7 | 12082.6 | 9943.7  | 9970.5  |
| 57.5° | 9289.1  | 8696.0 | 8874.9 | 10499.8 | 10976.7 | 12753.7 | 12459.7 | 10804.0 | 12040.4 | 9215.1  | 8932.4  |
| 60°   | 7915.9  | 7532.6 | 7600.4 | 9797.8  | 10258.2 | 12958.2 | 12701.3 | 10992.1 | 11265.5 | 8335.3  | 7606.6  |
| 62.5° | 6080.3  | 6027.9 | 6070.1 | 8654.9  | 8958.1  | 12366.2 | 12459.7 | 10688.9 | 10038.3 | 7292.1  | 6290.0  |
| 65°   | 4550.0  | 4717.5 | 4665.1 | 7297.2  | 7569.6  | 11201.7 | 11580.0 | 9860.5  | 8623.1  | 6144.1  | 5006.3  |
| 67.5° | 3229.3  | 3543.8 | 3407.1 | 6017.6  | 6144.1  | 9844.1  | 9771.1  | 8423.7  | 7197.5  | 4891.2  | 3811.0  |
| 70°   | 2243.6  | 2615.7 | 2395.7 | 4801.8  | 4806.9  | 7973.5  | 7752.5  | 6651.8  | 5934.4  | 3790.4  | 2914.8  |
| 72.5° | 1415.2  | 1777.0 | 1646.5 | 3334.1  | 3401.9  | 5834.7  | 5299.2  | 4879.9  | 4303.3  | 2877.8  | 2201.5  |
| 75°   | 859.2   | 1153.2 | 1121.3 | 2106.9  | 2128.5  | 3915.8  | 3166.6  | 3302.2  | 2898.3  | 1924.0  | 1557.1  |
| 77.5° | 608.4   | 749.2  | 760.6  | 1342.3  | 1278.6  | 2458.4  | 1756.5  | 1844.9  | 1599.2  | 1173.7  | 875.7   |
| 80°   | 451.2   | 476.9  | 539.6  | 859.2   | 818.1   | 1153.2  | 964.1   | 848.9   | 813.0   | 702.0   | 613.6   |
| 82.5° | 335.1   | 341.2  | 372.1  | 451.2   | 466.6   | 539.6   | 550.9   | 550.9   | 513.9   | 487.2   | 461.5   |
| 85°   | 251.8   | 256.9  | 272.4  | 314.5   | 341.2   | 361.8   | 361.8   | 351.5   | 335.1   | 324.8   | 319.6   |
| 87.5° | 219.9   | 214.8  | 214.8  | 230.2   | 246.7   | 256.9   | 262.1   | 246.7   | 241.5   | 230.2   | 230.2   |
| 90°   | 189.1   | 189.1  | 189.1  | 194.2   | 199.4   | 204.5   | 204.5   | 204.5   | 189.1   | 177.8   | 177.8   |
| 95°   | 167.5   | 167.5  | 167.5  | 177.8   | 172.7   | 177.8   | 177.8   | 184.0   | 172.7   | 167.5   | 167.5   |
| 105°  | 115.1   | 125.4  | 125.4  | 125.4   | 131.6   | 125.4   | 131.6   | 125.4   | 125.4   | 120.2   | 115.1   |
| 115°  | 94.6    | 94.6   | 94.6   | 89.4    | 94.6    | 89.4    | 94.6    | 99.7    | 89.4    | 89.4    | 89.4    |
| 125°  | 62.7    | 67.8   | 67.8   | 67.8    | 62.7    | 62.7    | 67.8    | 62.7    | 62.7    | 62.7    | 67.8    |
| 135°  | 42.1    | 52.4   | 47.3   | 42.1    | 47.3    | 42.1    | 42.1    | 42.1    | 47.3    | 42.1    | 47.3    |
| 145°  | 10.3    | 15.4   | 15.4   | 15.4    | 15.4    | 15.4    | 10.3    | 10.3    | 10.3    | 15.4    | 10.3    |
| 155°  | 10.3    | 10.3   | 15.4   | 10.3    | 10.3    | 5.1     | 5.1     | 10.3    | 5.1     | 10.3    | 5.1     |
| 165°  | 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):**

|      | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 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):**

|       | 95°     | 105°    | 115°   | 125°    | 135°   | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|
| 0°    | 0.0     | 0.0     | 0.0    | 0.0     | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 2.5°  | 5.1     | 10.3    | 10.3   | 5.1     | 10.3   | 5.1     | 5.1     | 10.3    | 10.3    | 10.3    |
| 5°    | 147.0   | 157.2   | 167.5  | 172.7   | 167.5  | 152.1   | 115.1   | 104.8   | 115.1   | 115.1   |
| 7.5°  | 466.6   | 451.2   | 429.6  | 387.5   | 372.1  | 387.5   | 393.6   | 398.8   | 382.3   | 377.2   |
| 10°   | 655.7   | 613.6   | 556.0  | 534.4   | 539.6  | 592.0   | 623.9   | 660.9   | 676.3   | 681.4   |
| 12.5° | 696.8   | 655.7   | 629.0  | 634.1   | 644.4  | 660.9   | 718.4   | 733.8   | 801.7   | 786.2   |
| 15°   | 608.4   | 603.3   | 608.4  | 629.0   | 634.1  | 613.6   | 644.4   | 666.0   | 666.0   | 786.2   |
| 17.5° | 550.9   | 539.6   | 571.4  | 556.0   | 581.7  | 561.2   | 550.9   | 576.6   | 539.6   | 556.0   |
| 20°   | 1027.8  | 1200.4  | 1232.3 | 1215.9  | 1263.1 | 1038.1  | 1226.1  | 1090.5  | 901.4   | 880.8   |
| 22.5° | 1315.6  | 1551.9  | 1599.2 | 1640.3  | 1494.4 | 1567.4  | 1494.4  | 1337.1  | 1063.8  | 953.8   |
| 25°   | 1692.7  | 1908.6  | 1949.7 | 1971.3  | 1897.3 | 1871.6  | 1787.3  | 1472.8  | 1226.1  | 1132.6  |
| 27.5° | 1881.9  | 2164.5  | 2306.3 | 2333.1  | 2211.8 | 2159.4  | 2013.4  | 1729.7  | 1415.2  | 1383.4  |
| 30°   | 2196.4  | 2505.7  | 2583.8 | 2578.7  | 2531.4 | 2437.9  | 2243.6  | 1986.7  | 1619.8  | 1562.2  |
| 32.5° | 2600.3  | 2820.2  | 2872.6 | 2956.9  | 2893.2 | 2747.2  | 2573.6  | 2211.8  | 1797.6  | 1687.6  |
| 35°   | 3045.3  | 3213.9  | 3207.7 | 3312.5  | 3197.4 | 3055.6  | 2893.2  | 2516.0  | 2039.1  | 1939.4  |
| 37.5° | 3506.8  | 3633.2  | 3658.9 | 3559.2  | 3528.4 | 3417.4  | 3271.4  | 2867.5  | 2443.0  | 2348.5  |
| 40°   | 4429.7  | 4413.3  | 4387.6 | 4335.2  | 4214.9 | 4098.8  | 3983.7  | 3638.3  | 3077.2  | 3102.9  |
| 42.5° | 6012.5  | 5845.0  | 5608.6 | 5603.4  | 5446.2 | 5441.1  | 5415.4  | 5011.4  | 4424.6  | 4360.9  |
| 45°   | 7632.3  | 7317.8  | 6903.6 | 6971.4  | 6620.9 | 6725.8  | 6663.1  | 6536.7  | 5912.8  | 5975.5  |
| 47.5° | 9309.6  | 8964.3  | 8361.0 | 8398.0  | 8098.9 | 8235.6  | 8492.5  | 8340.4  | 7799.8  | 8156.4  |
| 50°   | 10682.7 | 10447.4 | 9676.5 | 9671.4  | 9299.3 | 9588.1  | 10007.5 | 9960.2  | 9624.1  | 10389.8 |
| 52.5° | 11186.3 | 10877.0 | 9813.2 | 10053.7 | 9226.4 | 10384.7 | 10431.9 | 11060.9 | 10714.6 | 12087.7 |
| 55°   | 10840.0 | 10217.1 | 8827.6 | 9466.9  | 8440.1 | 10185.3 | 10211.0 | 11139.1 | 10951.0 | 12664.3 |
| 57.5° | 9671.4  | 9084.5  | 7333.2 | 8560.4  | 7260.2 | 9319.9  | 9424.7  | 10520.3 | 10641.6 | 11930.4 |
| 60°   | 8004.3  | 7732.0  | 5813.1 | 7385.6  | 6054.6 | 8288.0  | 8240.7  | 9436.0  | 9776.2  | 10327.1 |
| 62.5° | 6316.7  | 6284.9  | 4477.0 | 6033.1  | 4859.3 | 6872.7  | 6646.6  | 7878.9  | 8324.0  | 8261.3  |
| 65°   | 4822.3  | 4759.6  | 3364.9 | 4565.4  | 3591.1 | 5158.4  | 4833.6  | 5860.4  | 6301.3  | 6132.7  |
| 67.5° | 3554.1  | 3323.8  | 2432.7 | 3260.1  | 2468.7 | 3475.9  | 3260.1  | 3941.5  | 4345.4  | 4067.9  |
| 70°   | 2626.0  | 2223.1  | 1687.6 | 2123.4  | 1594.1 | 2211.8  | 2091.5  | 2485.2  | 2772.9  | 2473.9  |
| 72.5° | 1892.1  | 1378.2  | 1137.8 | 1242.6  | 1085.3 | 1337.1  | 1357.7  | 1540.6  | 1714.3  | 1562.2  |
| 75°   | 1215.9  | 870.5   | 806.8  | 806.8   | 801.7  | 880.8   | 953.8   | 1022.6  | 1121.3  | 1080.2  |
| 77.5° | 744.1   | 660.9   | 613.6  | 634.1   | 623.9  | 660.9   | 708.1   | 739.0   | 791.4   | 765.7   |
| 80°   | 576.6   | 544.7   | 498.5  | 513.9   | 508.7  | 539.6   | 539.6   | 550.9   | 571.4   | 556.0   |
| 82.5° | 434.7   | 409.1   | 387.5  | 393.6   | 409.1  | 414.2   | 403.9   | 409.1   | 398.8   | 387.5   |
| 85°   | 314.5   | 304.2   | 304.2  | 314.5   | 319.6  | 319.6   | 309.4   | 309.4   | 304.2   | 293.9   |
| 87.5° | 236.4   | 236.4   | 241.5  | 246.7   | 246.7  | 241.5   | 236.4   | 230.2   | 225.1   | 219.9   |
| 90°   | 184.0   | 184.0   | 189.1  | 194.2   | 199.4  | 199.4   | 189.1   | 189.1   | 189.1   | 189.1   |
| 95°   | 167.5   | 167.5   | 177.8  | 177.8   | 177.8  | 177.8   | 177.8   | 167.5   | 172.7   | 167.5   |
| 105°  | 120.2   | 120.2   | 125.4  | 125.4   | 125.4  | 120.2   | 120.2   | 115.1   | 115.1   | 115.1   |
| 115°  | 94.6    | 89.4    | 94.6   | 94.6    | 94.6   | 94.6    | 94.6    | 84.3    | 84.3    | 73.0    |
| 125°  | 62.7    | 73.0    | 73.0   | 67.8    | 79.1   | 62.7    | 67.8    | 62.7    | 57.6    | 62.7    |
| 135°  | 42.1    | 52.4    | 47.3   | 47.3    | 47.3   | 42.1    | 42.1    | 37.0    | 37.0    | 31.9    |
| 145°  | 10.3    | 10.3    | 15.4   | 15.4    | 10.3   | 10.3    | 15.4    | 10.3    | 10.3    | 10.3    |
| 155°  | 5.1     | 0.0     | 10.3   | 5.1     | 10.3   | 10.3    | 10.3    | 5.1     | 5.1     | 0.0     |
| 165°  | 5.1     | 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):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 5.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)