

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: P193526

Luminaire Tested: **GAN-AF-08-LED-U-AFL-8030-1200**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P193526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
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-AFL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 43809 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 511  
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



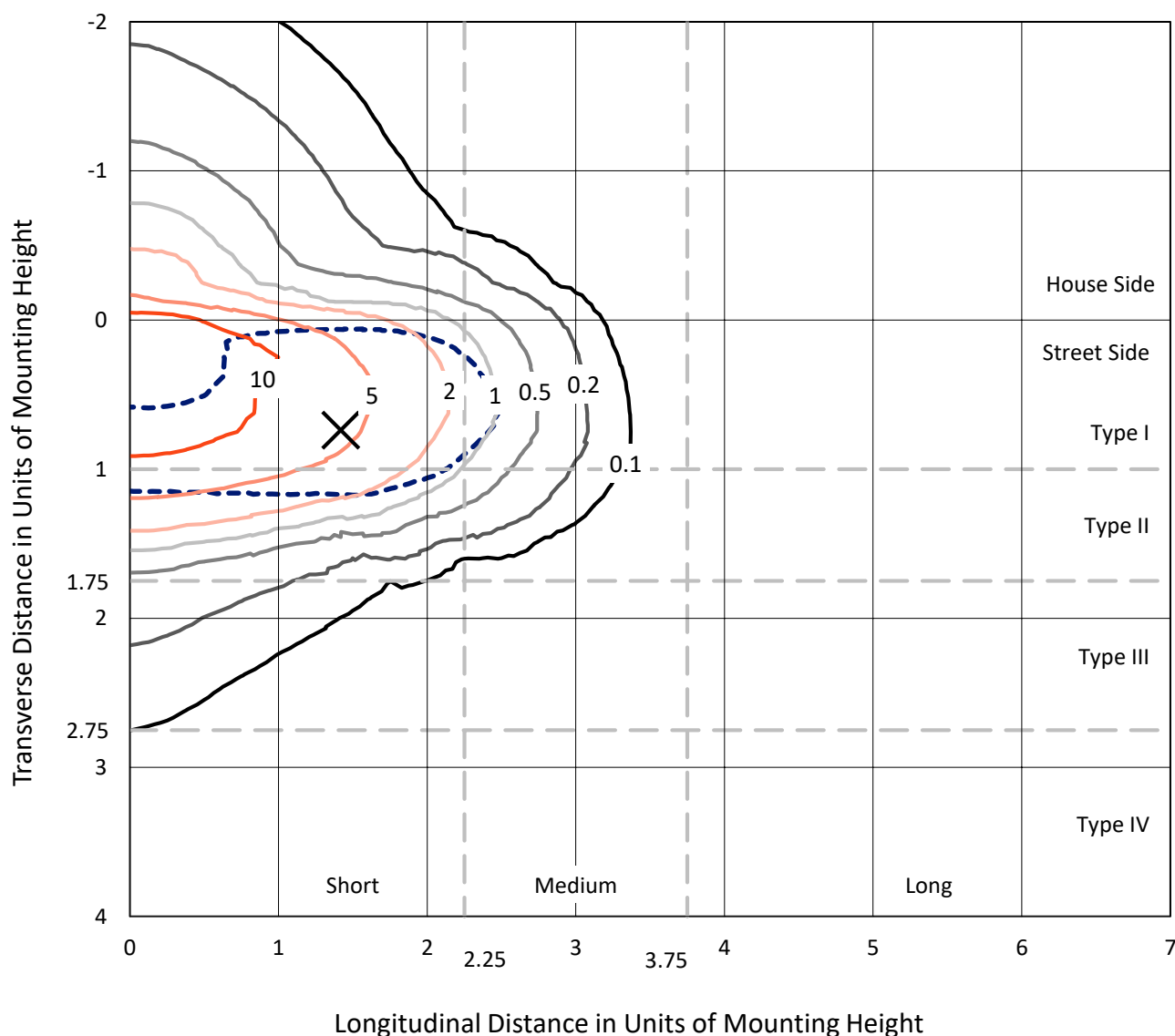
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

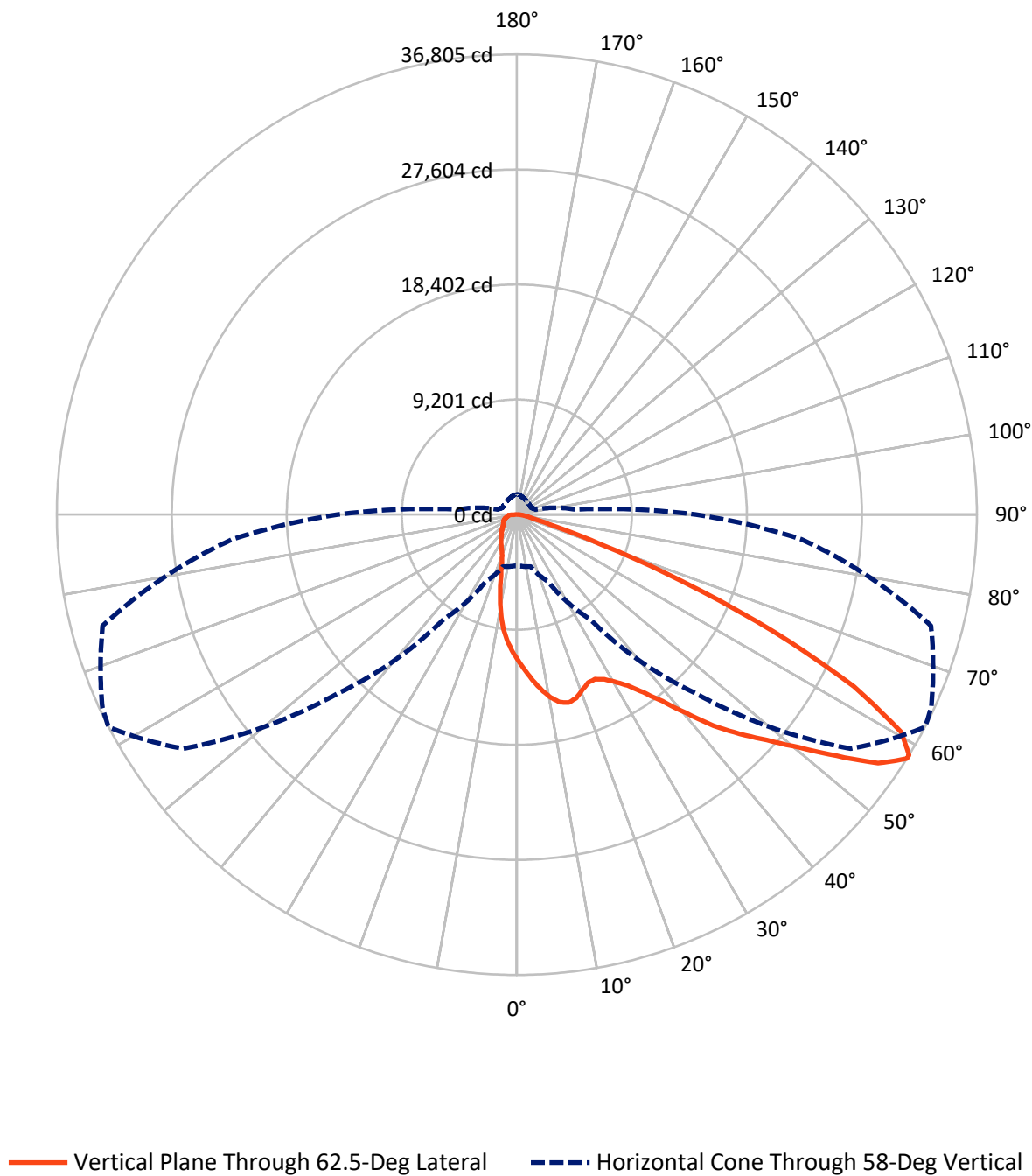


Based on 30 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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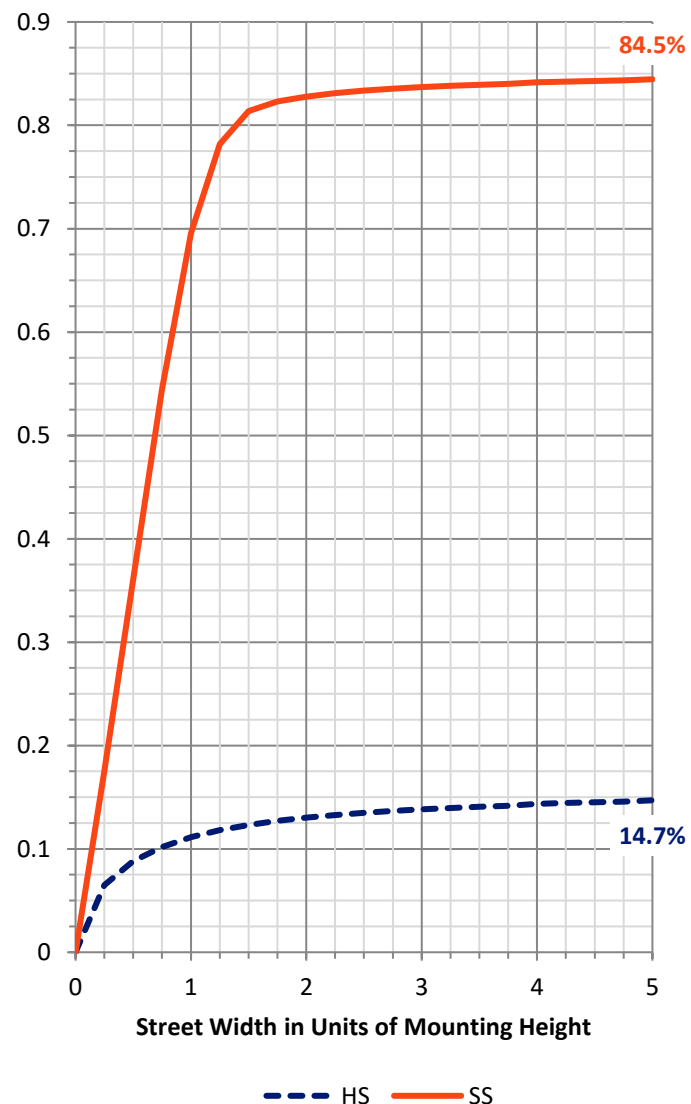
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6681.0   | 0.0    | 6681.0  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 37128.0  | 0.0    | 37128.0 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 43809.0  | 0.0    | 43809.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1040.8  | 2.4       |
| 10°-20°   | 2660.3  | 6.1       |
| 20°-30°   | 4300.5  | 9.8       |
| 30°-40°   | 6827.0  | 15.6      |
| 40°-50°   | 9989.4  | 22.8      |
| 50°-60°   | 10448.1 | 23.8      |
| 60°-70°   | 6172.7  | 14.1      |
| 70°-80°   | 1738.9  | 4.0       |
| 80°-90°   | 631.3   | 1.4       |
| 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°    | 43809.0 | 100.0     |
| 0°-180°   | 43809.0 | 100.0     |

**Coefficient of Utilization**



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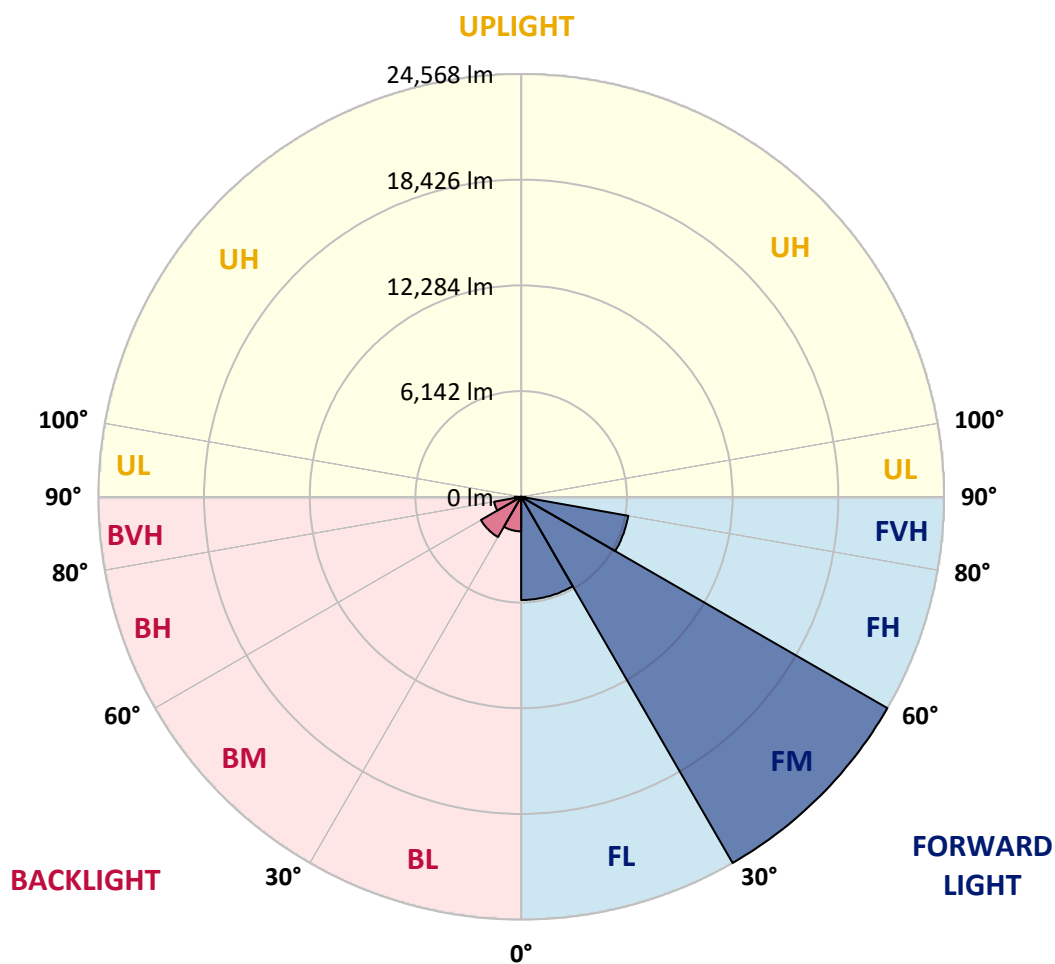
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5993.6  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 24567.8 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 6317.4  | 14.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 249.1   | 0.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2008.0  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2696.6  | 6.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1594.2  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 382.3   | 0.9       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 |
| 2.5°  | 13297.6 | 13190.4 | 13122.3 | 13062.5 | 12984.1 | 12817.0 | 12592.1 | 12449.8 | 12377.6 | 12132.1 | 11841.2 |
| 5°    | 14601.4 | 14506.5 | 14436.4 | 14355.9 | 14215.6 | 13953.6 | 13590.6 | 13301.8 | 13159.4 | 12668.4 | 12086.7 |
| 7.5°  | 14296.1 | 14335.3 | 14457.0 | 14669.5 | 14851.0 | 14815.9 | 14492.1 | 14124.9 | 13937.1 | 13254.3 | 12371.4 |
| 10°   | 12456.0 | 12524.0 | 12734.4 | 13231.6 | 14036.2 | 14861.3 | 15113.0 | 14859.3 | 14669.5 | 13834.0 | 12664.3 |
| 12.5° | 12086.7 | 12084.6 | 12101.1 | 12233.2 | 12711.8 | 13873.2 | 15133.6 | 15389.4 | 15276.0 | 14386.8 | 12963.4 |
| 15°   | 12237.3 | 12241.4 | 12229.0 | 12284.7 | 12433.3 | 12893.3 | 14502.4 | 15593.7 | 15674.1 | 14943.8 | 13272.9 |
| 17.5° | 12633.4 | 12623.0 | 12575.6 | 12575.6 | 12629.2 | 12808.7 | 13759.7 | 15403.9 | 15775.2 | 15436.9 | 13545.2 |
| 20°   | 13297.6 | 13250.2 | 13124.3 | 13008.8 | 12951.1 | 13048.0 | 13454.4 | 14966.5 | 15599.9 | 15868.0 | 13770.0 |
| 22.5° | 14102.2 | 14065.0 | 13860.8 | 13613.3 | 13413.1 | 13411.1 | 13611.2 | 14584.9 | 15296.6 | 16274.4 | 13959.8 |
| 25°   | 15141.9 | 15082.1 | 14778.8 | 14382.7 | 14032.0 | 13897.9 | 13953.6 | 14566.3 | 15131.6 | 16715.9 | 14129.0 |
| 27.5° | 16363.1 | 16253.8 | 15894.8 | 15323.4 | 14807.7 | 14537.4 | 14457.0 | 14902.6 | 15282.2 | 17262.6 | 14364.2 |
| 30°   | 17844.3 | 17718.5 | 17258.4 | 16513.7 | 15785.5 | 15342.0 | 15170.8 | 15498.8 | 15781.4 | 17928.9 | 14741.7 |
| 32.5° | 19529.7 | 19348.2 | 18816.0 | 17994.9 | 17037.7 | 16361.1 | 16082.6 | 16286.8 | 16511.7 | 18731.4 | 15214.1 |
| 35°   | 21858.8 | 21642.2 | 20872.7 | 19740.1 | 18659.2 | 17728.8 | 17283.2 | 17431.7 | 17650.4 | 19927.9 | 15896.9 |
| 37.5° | 23447.2 | 23350.3 | 22838.7 | 21774.2 | 20598.3 | 19527.7 | 18838.6 | 18925.3 | 19049.1 | 21423.5 | 16771.6 |
| 40°   | 23432.8 | 23472.0 | 23482.3 | 23492.6 | 22692.2 | 21666.9 | 20926.3 | 20835.6 | 20810.8 | 23065.6 | 17765.9 |
| 42.5° | 22259.0 | 22419.9 | 22939.7 | 23993.9 | 24480.7 | 24010.4 | 23331.7 | 23069.7 | 22939.7 | 25000.6 | 18820.1 |
| 45°   | 20462.2 | 20548.8 | 21522.5 | 23581.3 | 25396.7 | 26331.2 | 25817.5 | 24992.4 | 24757.2 | 26778.8 | 19694.8 |
| 47.5° | 19535.9 | 19630.8 | 20243.5 | 22488.0 | 25386.4 | 28206.4 | 28503.5 | 26931.5 | 26510.7 | 28326.0 | 20449.8 |
| 50°   | 17330.6 | 17528.7 | 18300.2 | 20585.9 | 24460.1 | 29068.7 | 31311.1 | 29242.0 | 28371.4 | 29832.0 | 21206.9 |
| 52.5° | 13281.1 | 13586.4 | 14450.8 | 17458.5 | 22110.4 | 28641.7 | 33557.6 | 32043.4 | 30813.9 | 31391.6 | 21856.7 |
| 55°   | 8377.5  | 8604.5  | 9330.6  | 12330.1 | 17687.5 | 26419.9 | 34409.6 | 35073.9 | 33980.5 | 32868.6 | 22419.9 |
| 57.5° | 4554.9  | 4656.0  | 4928.3  | 6807.7  | 11504.9 | 21508.1 | 33167.7 | 36798.5 | 36344.6 | 34122.9 | 22844.8 |
| 58°   | 4076.3  | 4144.4  | 4313.6  | 5900.0  | 10203.2 | 20165.1 | 32616.9 | 36804.7 | 36577.8 | 34306.5 | 22877.9 |
| 60°   | 3024.3  | 2989.2  | 2838.6  | 3366.7  | 5679.2  | 13930.9 | 29287.4 | 35331.7 | 35998.1 | 34531.3 | 22716.9 |
| 62.5° | 2657.0  | 2572.5  | 2265.1  | 2230.0  | 2762.3  | 6417.8  | 22409.6 | 30265.2 | 31839.2 | 33248.2 | 21739.1 |
| 65°   | 2496.1  | 2405.4  | 2009.3  | 1881.4  | 1992.8  | 2714.8  | 13200.7 | 22698.4 | 24672.6 | 29357.5 | 19238.9 |
| 67.5° | 2376.5  | 2258.9  | 1846.3  | 1671.0  | 1679.2  | 1794.7  | 5291.4  | 14296.1 | 16517.9 | 22289.9 | 14964.5 |
| 70°   | 2261.0  | 2133.1  | 1708.1  | 1505.9  | 1458.5  | 1419.3  | 2104.2  | 7156.3  | 9171.8  | 14079.5 | 9541.0  |
| 72.5° | 2137.2  | 2011.4  | 1586.4  | 1376.0  | 1283.1  | 1153.2  | 1373.9  | 2927.3  | 4088.7  | 6661.2  | 4328.0  |
| 75°   | 1957.7  | 1844.3  | 1464.7  | 1260.4  | 1128.4  | 955.1   | 1037.7  | 1528.6  | 1833.9  | 2652.9  | 2085.6  |
| 77.5° | 1737.0  | 1644.2  | 1328.5  | 1165.6  | 1000.5  | 775.7   | 798.4   | 1060.3  | 1175.9  | 1518.3  | 1239.8  |
| 80°   | 1248.1  | 1281.1  | 1182.1  | 1048.0  | 891.2   | 629.2   | 612.7   | 773.6   | 835.5   | 975.8   | 806.6   |
| 82.5° | 876.7   | 895.3   | 977.8   | 856.1   | 736.5   | 495.1   | 451.8   | 544.6   | 581.7   | 641.6   | 435.3   |
| 85°   | 604.4   | 583.8   | 670.5   | 596.2   | 532.2   | 330.1   | 309.4   | 369.3   | 392.0   | 398.1   | 224.9   |
| 87.5° | 363.1   | 363.1   | 387.8   | 319.8   | 286.7   | 171.2   | 167.1   | 210.4   | 224.9   | 214.5   | 123.8   |
| 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°    | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 | 11637.0 |
| 2.5°  | 11667.9 | 11521.4 | 11209.9 | 10960.3 | 10644.7 | 10316.7 | 10133.1 | 9937.1  | 9803.0  | 9706.1  | 9860.8  |
| 5°    | 11756.6 | 11457.5 | 10813.9 | 10203.2 | 9528.7  | 8827.3  | 8295.0  | 7799.9  | 7455.4  | 7240.9  | 7443.0  |
| 7.5°  | 11896.9 | 11436.9 | 10411.6 | 9367.7  | 8156.8  | 6989.2  | 5945.4  | 5291.4  | 4909.8  | 4722.0  | 4839.6  |
| 10°   | 12057.8 | 11403.9 | 9939.2  | 8235.2  | 6502.3  | 5031.5  | 4251.7  | 3987.6  | 3901.0  | 3865.9  | 3882.4  |
| 12.5° | 12191.9 | 11333.7 | 9359.5  | 6865.4  | 4882.9  | 3973.2  | 3748.3  | 3742.1  | 3760.7  | 3764.8  | 3771.0  |
| 15°   | 12286.8 | 11230.6 | 8499.3  | 5437.9  | 3905.1  | 3620.4  | 3608.1  | 3645.2  | 3680.3  | 3694.7  | 3703.0  |
| 17.5° | 12350.7 | 11018.1 | 7527.6  | 4299.1  | 3498.7  | 3449.2  | 3478.1  | 3525.5  | 3562.7  | 3573.0  | 3581.2  |
| 20°   | 12344.6 | 10706.6 | 6370.3  | 3585.4  | 3278.0  | 3278.0  | 3327.5  | 3364.6  | 3366.7  | 3354.3  | 3360.5  |
| 22.5° | 12280.6 | 10279.6 | 5248.1  | 3205.8  | 3082.0  | 3117.1  | 3166.6  | 3131.5  | 2987.1  | 2892.2  | 2898.4  |
| 25°   | 12173.3 | 9770.0  | 4286.8  | 2964.4  | 2900.5  | 2962.4  | 2947.9  | 2683.9  | 2477.6  | 2384.7  | 2384.7  |
| 27.5° | 12078.4 | 9167.6  | 3548.2  | 2754.0  | 2718.9  | 2795.3  | 2539.5  | 2300.2  | 2213.5  | 2170.2  | 2155.8  |
| 30°   | 12010.4 | 8517.8  | 3055.2  | 2551.8  | 2547.7  | 2492.0  | 2203.2  | 2137.2  | 2122.8  | 2087.7  | 2075.3  |
| 32.5° | 12026.9 | 7859.8  | 2739.6  | 2374.4  | 2388.9  | 2133.1  | 2042.3  | 2056.7  | 2044.4  | 2007.2  | 1990.7  |
| 35°   | 12163.0 | 7234.7  | 2533.3  | 2213.5  | 2170.2  | 1926.8  | 1947.4  | 1974.2  | 1970.1  | 1918.5  | 1902.0  |
| 37.5° | 12406.4 | 6642.6  | 2397.1  | 2079.4  | 1893.8  | 1823.6  | 1856.6  | 1897.9  | 1887.6  | 1852.5  | 1840.1  |
| 40°   | 12662.2 | 6085.6  | 2285.7  | 1974.2  | 1730.8  | 1753.5  | 1782.4  | 1805.1  | 1815.4  | 1825.7  | 1817.4  |
| 42.5° | 12911.9 | 5503.9  | 2149.6  | 1866.9  | 1662.7  | 1687.5  | 1699.9  | 1722.5  | 1778.2  | 1817.4  | 1815.4  |
| 45°   | 13060.4 | 4957.2  | 2009.3  | 1714.3  | 1609.1  | 1623.5  | 1615.3  | 1660.7  | 1728.7  | 1792.7  | 1794.7  |
| 47.5° | 13225.4 | 4532.2  | 1897.9  | 1574.0  | 1557.5  | 1567.8  | 1543.1  | 1588.5  | 1650.3  | 1728.7  | 1737.0  |
| 50°   | 13425.5 | 4278.5  | 1809.2  | 1462.6  | 1487.4  | 1487.4  | 1481.2  | 1522.4  | 1609.1  | 1699.9  | 1716.4  |
| 52.5° | 13652.4 | 4229.0  | 1734.9  | 1382.2  | 1417.2  | 1415.2  | 1421.4  | 1483.2  | 1578.1  | 1666.8  | 1681.3  |
| 55°   | 13928.9 | 4363.1  | 1654.5  | 1322.3  | 1349.2  | 1357.4  | 1378.0  | 1448.2  | 1528.6  | 1629.7  | 1635.9  |
| 57.5° | 14250.7 | 4635.4  | 1590.5  | 1274.9  | 1287.3  | 1314.1  | 1347.1  | 1411.0  | 1497.7  | 1609.1  | 1615.3  |
| 58°   | 14304.3 | 4693.2  | 1580.2  | 1270.8  | 1274.9  | 1305.8  | 1343.0  | 1404.9  | 1491.5  | 1613.2  | 1619.4  |
| 60°   | 14306.4 | 4885.0  | 1557.5  | 1252.2  | 1227.4  | 1279.0  | 1320.3  | 1382.2  | 1481.2  | 1627.6  | 1642.1  |
| 62.5° | 13798.9 | 4882.9  | 1541.0  | 1225.4  | 1177.9  | 1241.9  | 1289.3  | 1361.5  | 1470.9  | 1662.7  | 1691.6  |
| 65°   | 12150.6 | 4437.4  | 1462.6  | 1184.1  | 1138.7  | 1208.9  | 1262.5  | 1347.1  | 1499.7  | 1815.4  | 1833.9  |
| 67.5° | 9503.9  | 3636.9  | 1316.1  | 1126.4  | 1087.2  | 1175.9  | 1246.0  | 1345.0  | 1530.7  | 1850.4  | 1862.8  |
| 70°   | 6283.7  | 2721.0  | 1155.2  | 1060.3  | 1033.5  | 1136.7  | 1254.3  | 1415.2  | 1495.6  | 1776.2  | 1743.2  |
| 72.5° | 3261.5  | 1910.3  | 1025.3  | 977.8   | 971.6   | 1101.6  | 1373.9  | 1406.9  | 1460.6  | 1671.0  | 1629.7  |
| 75°   | 1712.2  | 1326.5  | 911.8   | 887.1   | 897.4   | 1093.4  | 1621.5  | 1369.8  | 1415.2  | 1598.8  | 1677.2  |
| 77.5° | 1048.0  | 1070.7  | 814.9   | 804.5   | 825.2   | 1068.6  | 1619.4  | 1322.3  | 1349.2  | 1470.9  | 1557.5  |
| 80°   | 701.4   | 868.5   | 740.6   | 742.7   | 757.1   | 977.8   | 1454.4  | 1248.1  | 1268.7  | 1390.4  | 1479.1  |
| 82.5° | 443.5   | 513.7   | 672.5   | 707.6   | 689.0   | 806.6   | 1235.7  | 1136.7  | 1165.6  | 1590.5  | 1681.3  |
| 85°   | 224.9   | 321.8   | 583.8   | 680.8   | 620.9   | 565.2   | 1002.6  | 996.4   | 1010.8  | 1147.0  | 1198.6  |
| 87.5° | 103.1   | 177.4   | 455.9   | 594.1   | 468.3   | 352.8   | 728.2   | 738.5   | 796.3   | 814.9   | 814.9   |
| 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)