

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: P383447

Luminaire Tested: **GAN-SA7C-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383447  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46608.1 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

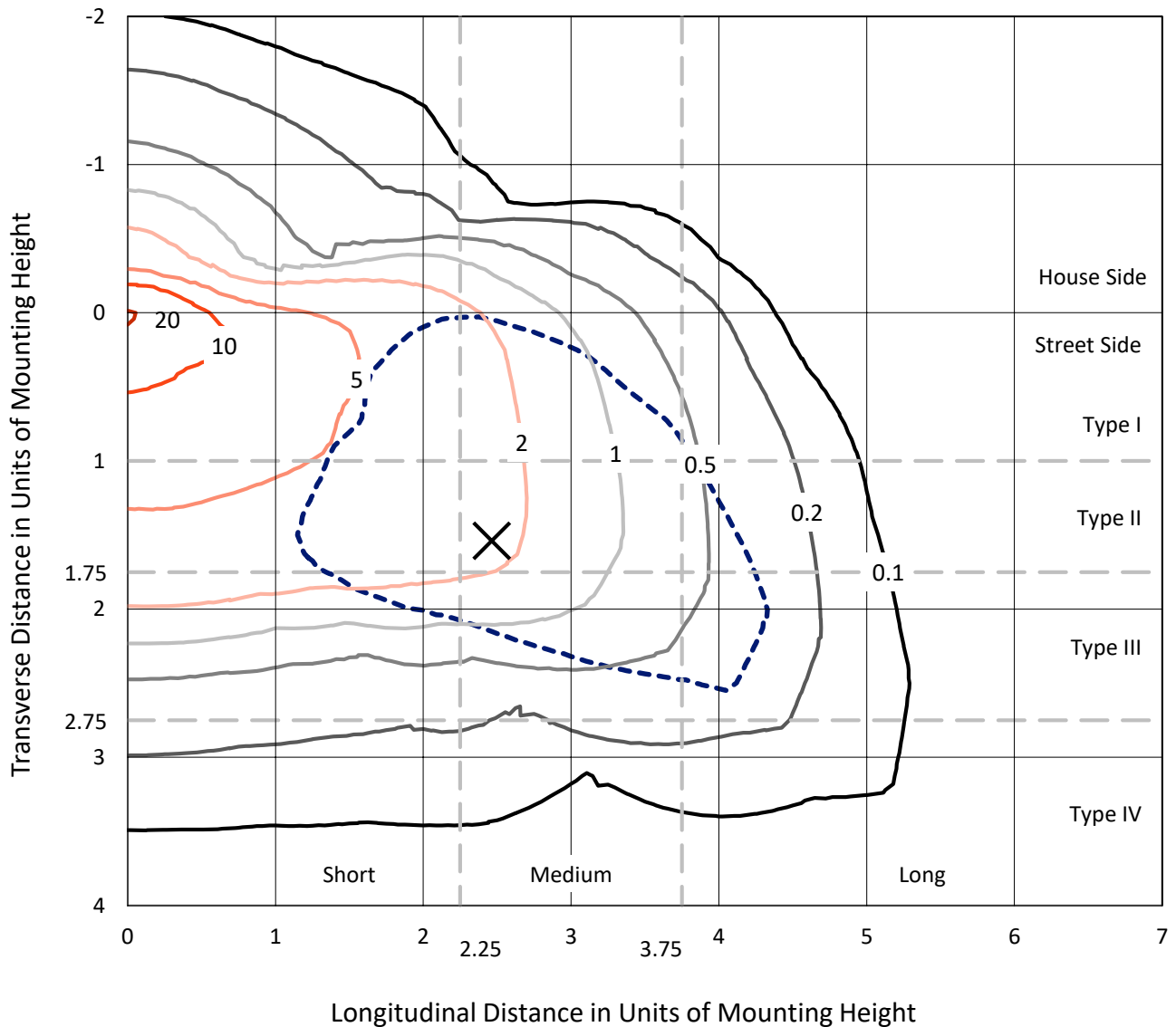
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

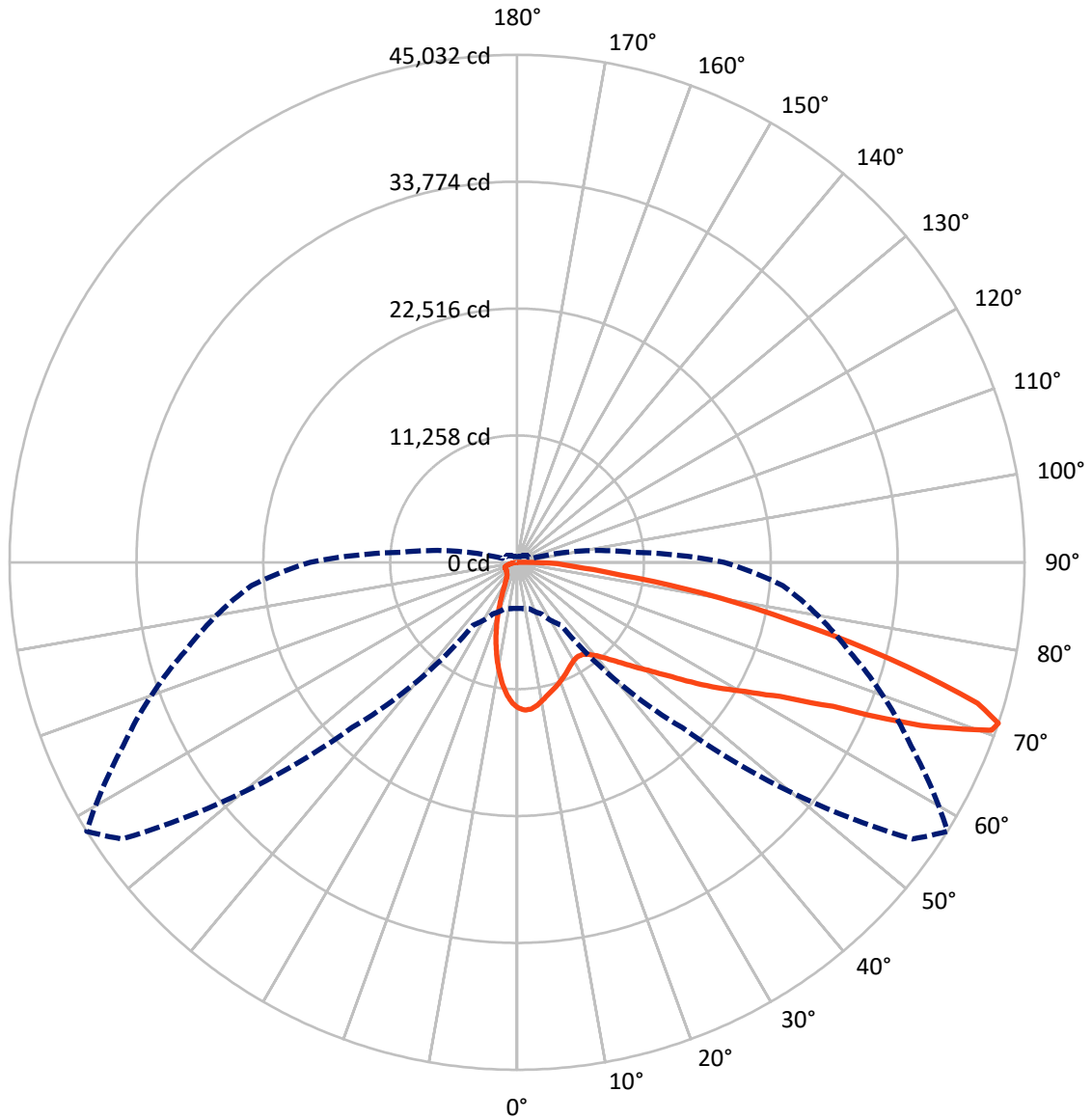
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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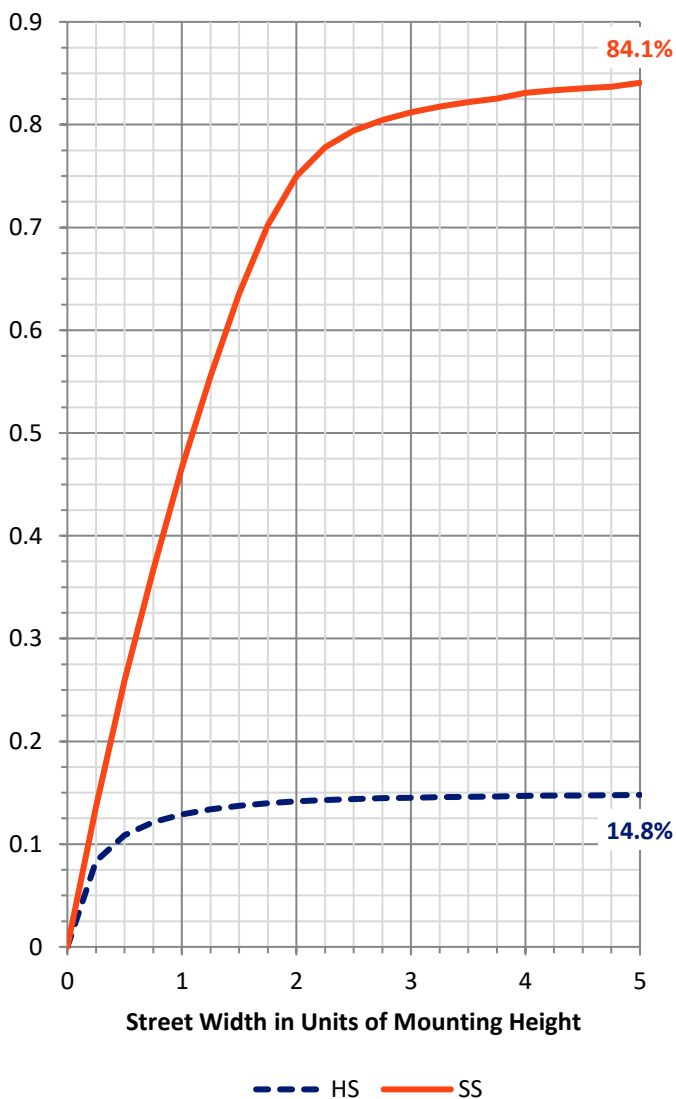
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6968.2   | 0.0    | 6968.2  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 39639.9  | 0.0    | 39639.9 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 46608.1  | 0.0    | 46608.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1114.1  | 2.4       |
| 10°-20°   | 2477.2  | 5.3       |
| 20°-30°   | 3148.3  | 6.8       |
| 30°-40°   | 4010.3  | 8.6       |
| 40°-50°   | 5686.8  | 12.2      |
| 50°-60°   | 8800.6  | 18.9      |
| 60°-70°   | 11980.8 | 25.7      |
| 70°-80°   | 7992.6  | 17.1      |
| 80°-90°   | 1397.4  | 3.0       |
| 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°    | 46608.1 | 100.0     |
| 0°-180°   | 46608.1 | 100.0     |

**Coefficient of Utilization**

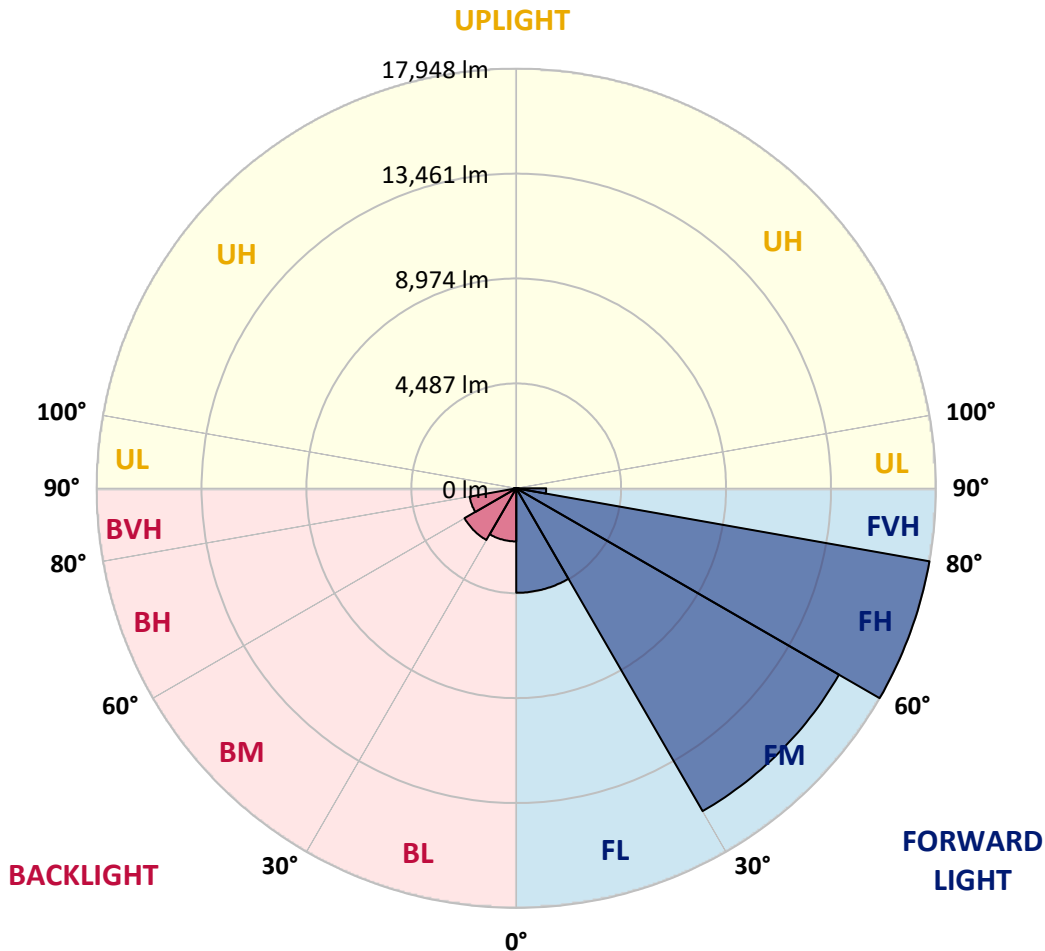


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4468.2  | 9.6       |                         |      |         |
| FM (30°-60°)   | 15942.2 | 34.2      |                         |      |         |
| FH (60°-80°)   | 17948.2 | 38.5      |                         |      | G5      |
| FVH (80°-90°)  | 1281.3  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 2271.4  | 4.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2555.4  | 5.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 2025.3  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 116.1   | 0.2       |                         |      | 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°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 |
| 2.5°  | 13256.1 | 13238.3 | 13244.7 | 13231.8 | 13201.0 | 13170.1 | 13124.7 | 13132.8 | 13069.4 | 12975.2 | 12858.3 |
| 5°    | 13006.1 | 12999.7 | 13048.3 | 13075.9 | 13098.7 | 13080.8 | 13067.8 | 13084.1 | 12991.5 | 12861.6 | 12658.7 |
| 7.5°  | 12481.7 | 12410.3 | 12471.9 | 12564.5 | 12652.2 | 12718.7 | 12806.5 | 12817.8 | 12759.3 | 12622.9 | 12356.7 |
| 10°   | 11736.5 | 11668.3 | 11759.2 | 11903.7 | 12079.1 | 12238.2 | 12415.1 | 12447.6 | 12459.0 | 12335.6 | 12012.5 |
| 12.5° | 10963.7 | 10911.8 | 11002.7 | 11205.6 | 11496.2 | 11741.4 | 12023.9 | 12072.6 | 12173.3 | 12090.5 | 11694.3 |
| 15°   | 10272.1 | 10252.6 | 10363.0 | 10562.7 | 10897.2 | 11272.2 | 11679.7 | 11769.0 | 11939.5 | 11911.9 | 11445.9 |
| 17.5° | 9674.6  | 9669.7  | 9754.1  | 9963.6  | 10333.8 | 10807.8 | 11337.1 | 11488.1 | 11741.4 | 11773.8 | 11241.4 |
| 20°   | 9229.8  | 9220.0  | 9278.5  | 9432.8  | 9814.2  | 10351.6 | 10966.9 | 11174.8 | 11540.0 | 11653.7 | 11030.3 |
| 22.5° | 8991.1  | 8989.5  | 8991.1  | 9064.1  | 9375.9  | 9875.9  | 10606.5 | 10859.8 | 11343.6 | 11557.9 | 10796.5 |
| 25°   | 8950.5  | 8945.7  | 8910.0  | 8901.8  | 9078.8  | 9478.2  | 10249.4 | 10528.6 | 11156.9 | 11491.4 | 10574.1 |
| 27.5° | 9056.0  | 9062.6  | 9015.4  | 8939.1  | 8974.9  | 9216.8  | 9939.2  | 10238.0 | 11007.5 | 11478.3 | 10419.8 |
| 30°   | 9275.2  | 9272.0  | 9231.4  | 9151.8  | 9082.0  | 9119.4  | 9718.5  | 10017.2 | 10906.8 | 11535.2 | 10314.3 |
| 32.5° | 9517.2  | 9535.0  | 9526.8  | 9483.1  | 9379.1  | 9229.8  | 9651.9  | 9944.1  | 10877.7 | 11671.5 | 10268.8 |
| 35°   | 9807.7  | 9827.3  | 9885.7  | 9919.8  | 9798.0  | 9557.8  | 9794.8  | 10048.0 | 10962.1 | 11928.1 | 10341.9 |
| 37.5° | 10083.7 | 10134.1 | 10298.1 | 10442.6 | 10338.7 | 10070.8 | 10174.6 | 10354.9 | 11223.5 | 12332.4 | 10538.3 |
| 40°   | 10401.9 | 10445.8 | 10713.6 | 11020.5 | 11004.3 | 10726.7 | 10786.8 | 10906.8 | 11684.6 | 12911.9 | 10893.9 |
| 42.5° | 10715.3 | 10803.0 | 11191.0 | 11626.1 | 11751.1 | 11506.0 | 11601.8 | 11665.0 | 12334.0 | 13679.9 | 11514.1 |
| 45°   | 11132.6 | 11226.7 | 11765.7 | 12290.1 | 12582.3 | 12444.4 | 12596.9 | 12621.4 | 13150.6 | 14725.4 | 12415.1 |
| 47.5° | 11764.1 | 11871.3 | 12499.6 | 13050.0 | 13496.4 | 13511.0 | 13762.7 | 13752.9 | 14170.1 | 15922.0 | 13550.0 |
| 50°   | 12747.9 | 12902.2 | 13416.9 | 13931.5 | 14473.7 | 14775.7 | 15111.8 | 15064.7 | 15392.7 | 17196.5 | 14857.0 |
| 52.5° | 14037.0 | 14108.5 | 14490.0 | 14869.9 | 15543.7 | 16220.7 | 16702.9 | 16660.6 | 16779.2 | 18506.6 | 16340.8 |
| 55°   | 15373.2 | 15426.8 | 15584.2 | 15792.1 | 16698.0 | 17802.1 | 18821.6 | 18755.0 | 18454.7 | 19867.1 | 17806.9 |
| 57.5° | 16574.7 | 16683.4 | 16792.2 | 16878.2 | 17860.5 | 19454.8 | 20989.0 | 20993.9 | 20273.0 | 21334.9 | 19321.6 |
| 60°   | 16761.3 | 16857.1 | 17576.3 | 18255.0 | 19849.3 | 21659.5 | 23309.0 | 23260.4 | 22154.7 | 22927.5 | 21010.1 |
| 62.5° | 14816.4 | 15032.3 | 16233.7 | 18039.0 | 21765.1 | 25692.4 | 26268.7 | 26208.6 | 24405.0 | 24890.4 | 22976.2 |
| 65°   | 10617.9 | 10863.1 | 12312.8 | 15025.8 | 20836.4 | 30135.9 | 31610.1 | 30801.6 | 27473.4 | 27304.5 | 25278.4 |
| 67.5° | 6125.6  | 6184.0  | 6812.3  | 8991.1  | 15865.2 | 30368.2 | 39758.6 | 38627.1 | 32238.4 | 30043.4 | 26405.1 |
| 70°   | 4529.7  | 4528.1  | 4677.4  | 5533.0  | 8585.2  | 24784.8 | 43634.1 | 44648.7 | 37255.2 | 30944.5 | 24812.4 |
| 71°   | 4096.2  | 4101.0  | 4268.3  | 5036.2  | 6799.4  | 20745.5 | 42810.9 | 45031.8 | 38576.7 | 30499.6 | 23659.7 |
| 72.5° | 3503.6  | 3519.9  | 3752.0  | 4516.7  | 5719.7  | 14306.5 | 39265.1 | 42733.0 | 39203.4 | 29402.2 | 21856.0 |
| 75°   | 2657.7  | 2695.1  | 3016.5  | 3807.1  | 5227.8  | 7255.5  | 28817.7 | 34123.3 | 34826.4 | 25944.1 | 16240.1 |
| 77.5° | 1896.3  | 1938.5  | 2302.1  | 3201.6  | 4969.6  | 5468.1  | 19298.9 | 24890.4 | 25629.0 | 16626.5 | 7325.4  |
| 80°   | 1198.2  | 1248.5  | 1522.9  | 2547.3  | 4669.3  | 5192.1  | 12127.8 | 16730.5 | 13975.4 | 5320.3  | 1863.8  |
| 82.5° | 702.9   | 742.0   | 944.9   | 1664.1  | 3813.7  | 5000.5  | 7135.4  | 9273.6  | 5438.8  | 1607.3  | 847.5   |
| 85°   | 407.6   | 425.3   | 589.3   | 1060.2  | 2769.8  | 4719.6  | 5242.4  | 5184.0  | 2360.6  | 785.8   | 401.0   |
| 87.5° | 189.9   | 211.1   | 349.1   | 553.6   | 1537.5  | 3420.7  | 4143.2  | 3579.8  | 1467.7  | 368.5   | 188.4   |
| 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°    | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 | 12913.6 |
| 2.5°  | 12801.5 | 12773.9 | 12658.7 | 12556.4 | 12449.2 | 12309.7 | 12155.4 | 12135.9 | 12041.7 | 12059.6 | 12027.1 |
| 5°    | 12548.2 | 12478.5 | 12200.9 | 11949.1 | 11652.1 | 11385.8 | 11096.9 | 10963.7 | 10772.1 | 10759.1 | 10710.5 |
| 7.5°  | 12186.2 | 12056.4 | 11626.1 | 11148.8 | 10671.4 | 10216.8 | 9767.2  | 9471.7  | 9169.7  | 9041.4  | 9030.0  |
| 10°   | 11778.7 | 11557.9 | 10924.7 | 10218.5 | 9530.1  | 8866.1  | 8223.1  | 7747.5  | 7318.9  | 7115.9  | 7107.8  |
| 12.5° | 11392.4 | 11065.9 | 10197.4 | 9236.3  | 8294.6  | 7434.1  | 6552.6  | 5927.5  | 5390.1  | 5209.9  | 5133.6  |
| 15°   | 11064.4 | 10604.9 | 9489.6  | 8260.5  | 7117.6  | 5922.7  | 4919.3  | 4261.7  | 3764.9  | 3592.9  | 3560.4  |
| 17.5° | 10746.1 | 10155.2 | 8763.8  | 7275.0  | 5893.4  | 4580.0  | 3575.0  | 3086.3  | 2821.7  | 2751.9  | 2750.3  |
| 20°   | 10429.6 | 9692.5  | 8005.6  | 6266.8  | 4709.9  | 3425.7  | 2748.6  | 2529.4  | 2440.2  | 2432.1  | 2419.0  |
| 22.5° | 10070.8 | 9202.2  | 7208.5  | 5255.3  | 3675.7  | 2693.5  | 2336.2  | 2248.6  | 2237.2  | 2266.5  | 2266.5  |
| 25°   | 9734.7  | 8715.1  | 6399.9  | 4265.0  | 2859.0  | 2247.0  | 2086.2  | 2068.4  | 2099.2  | 2151.2  | 2156.1  |
| 27.5° | 9421.4  | 8245.9  | 5610.9  | 3385.1  | 2290.8  | 1979.1  | 1912.6  | 1933.6  | 1988.9  | 2048.9  | 2050.5  |
| 30°   | 9163.2  | 7802.7  | 4844.6  | 2667.5  | 1935.3  | 1779.3  | 1768.0  | 1810.3  | 1870.3  | 1917.4  | 1928.8  |
| 32.5° | 8963.5  | 7424.4  | 4104.3  | 2144.7  | 1703.1  | 1630.0  | 1639.8  | 1675.5  | 1712.8  | 1738.8  | 1756.6  |
| 35°   | 8870.9  | 7099.7  | 3420.7  | 1808.6  | 1555.3  | 1514.8  | 1527.7  | 1547.2  | 1563.4  | 1583.0  | 1597.5  |
| 37.5° | 8887.2  | 6848.1  | 2810.3  | 1599.2  | 1456.3  | 1435.2  | 1435.2  | 1435.2  | 1435.2  | 1444.9  | 1446.6  |
| 40°   | 9038.2  | 6703.6  | 2313.5  | 1466.1  | 1389.8  | 1367.0  | 1349.2  | 1333.0  | 1319.9  | 1326.4  | 1323.2  |
| 42.5° | 9424.6  | 6690.6  | 1949.8  | 1381.7  | 1336.2  | 1298.9  | 1263.1  | 1240.4  | 1224.1  | 1230.7  | 1233.9  |
| 45°   | 10080.5 | 6852.9  | 1704.7  | 1321.6  | 1285.8  | 1229.0  | 1183.5  | 1159.2  | 1147.9  | 1168.9  | 1172.2  |
| 47.5° | 10929.6 | 7206.8  | 1555.3  | 1277.7  | 1238.8  | 1164.1  | 1115.3  | 1092.6  | 1095.9  | 1126.7  | 1134.8  |
| 50°   | 12023.9 | 7781.6  | 1483.9  | 1250.1  | 1206.3  | 1108.9  | 1058.5  | 1039.0  | 1048.8  | 1092.6  | 1102.4  |
| 52.5° | 13225.3 | 8609.5  | 1492.1  | 1242.0  | 1185.2  | 1068.3  | 1014.7  | 992.0   | 1008.2  | 1048.8  | 1056.9  |
| 55°   | 14611.8 | 9604.8  | 1626.8  | 1253.4  | 1154.4  | 1042.3  | 979.0   | 940.0   | 953.0   | 990.3   | 996.8   |
| 57.5° | 16152.5 | 10744.6 | 1897.9  | 1250.1  | 1115.3  | 1018.0  | 941.6   | 883.2   | 893.0   | 915.7   | 922.1   |
| 60°   | 17756.6 | 12121.3 | 2318.4  | 1259.8  | 1097.5  | 988.7   | 891.3   | 818.3   | 815.0   | 834.5   | 837.7   |
| 62.5° | 19682.1 | 13714.0 | 2798.9  | 1266.3  | 1108.9  | 951.4   | 824.8   | 753.3   | 743.6   | 748.4   | 751.7   |
| 65°   | 21666.0 | 14866.7 | 2618.8  | 1240.4  | 1144.6  | 920.6   | 766.3   | 690.0   | 672.1   | 668.9   | 670.5   |
| 67.5° | 21727.7 | 13631.1 | 1836.2  | 1188.5  | 1159.2  | 904.3   | 722.5   | 636.4   | 607.2   | 595.8   | 594.2   |
| 70°   | 19485.6 | 11074.1 | 1430.3  | 1133.2  | 1100.7  | 878.4   | 681.9   | 592.6   | 548.8   | 530.9   | 529.3   |
| 71°   | 18391.4 | 10194.1 | 1355.7  | 1105.7  | 1056.9  | 852.4   | 664.0   | 573.1   | 527.6   | 508.2   | 504.9   |
| 72.5° | 16675.3 | 9138.9  | 1264.8  | 1061.8  | 972.5   | 785.8   | 629.9   | 545.5   | 498.4   | 475.6   | 470.8   |
| 75°   | 11967.0 | 5976.3  | 1086.2  | 946.5   | 805.2   | 626.7   | 552.0   | 490.3   | 449.8   | 422.1   | 418.9   |
| 77.5° | 4610.8  | 2378.4  | 821.5   | 787.4   | 617.0   | 490.3   | 454.6   | 423.8   | 394.5   | 366.9   | 365.3   |
| 80°   | 1425.5  | 1063.5  | 599.1   | 592.6   | 446.5   | 365.3   | 353.9   | 345.8   | 334.4   | 305.3   | 298.7   |
| 82.5° | 761.4   | 610.4   | 412.4   | 383.1   | 292.2   | 243.5   | 256.5   | 259.8   | 261.4   | 230.6   | 227.3   |
| 85°   | 363.7   | 323.1   | 232.1   | 217.5   | 170.5   | 136.4   | 157.5   | 170.5   | 172.1   | 141.2   | 131.5   |
| 87.5° | 173.7   | 168.9   | 108.8   | 82.8    | 63.3    | 45.5    | 55.2    | 68.2    | 74.7    | 53.6    | 47.0    |
| 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)