

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: P530992

Luminaire Tested: **GLAN-SA6B-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6B-730-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22886 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 243  
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

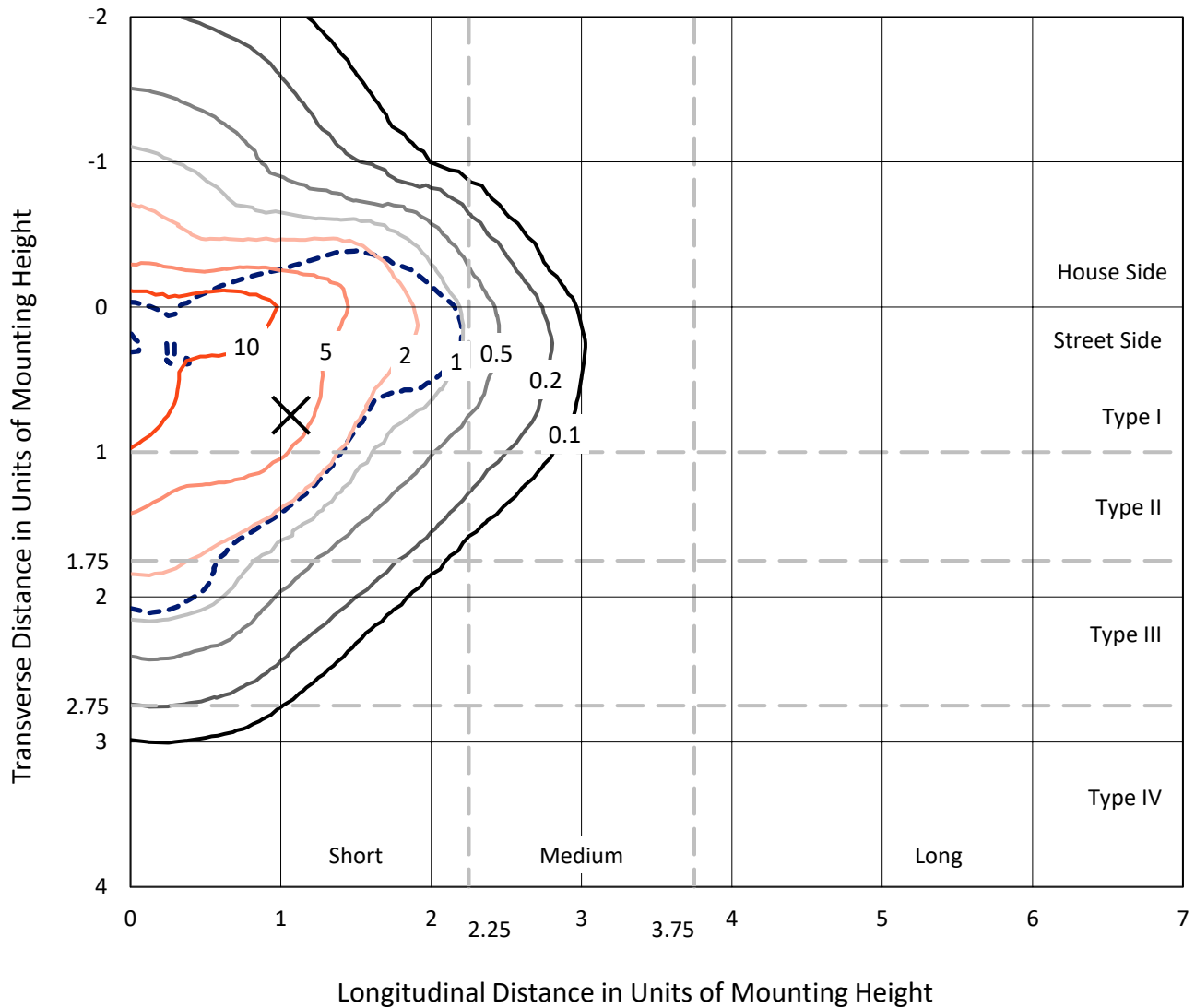


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

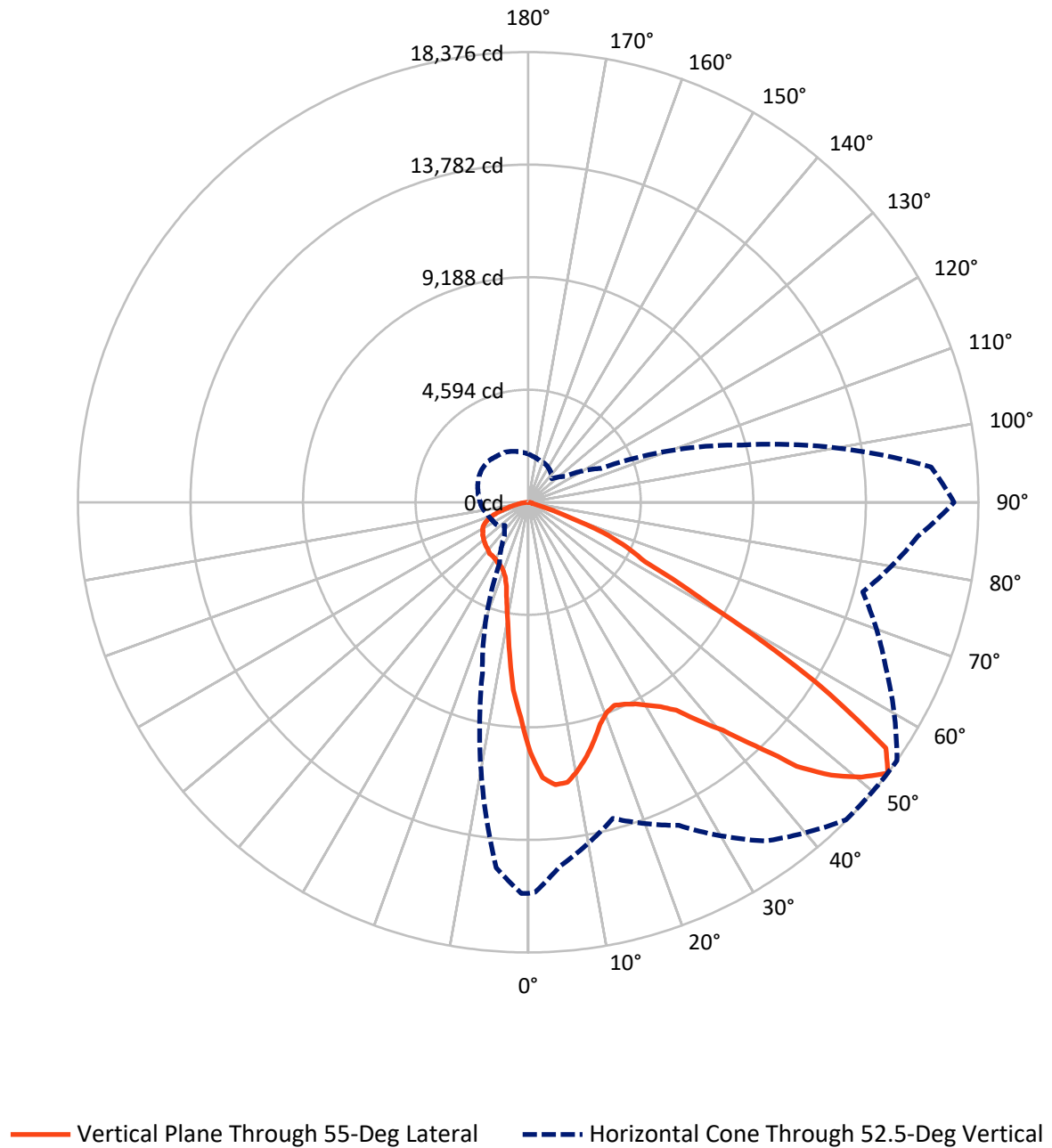


Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6981.5   | 0.0    | 6981.5  |
|                    | % Fixture | 30.5     | 0.0    | 30.5    |
| <b>Street Side</b> | Lumens    | 15904.5  | 0.0    | 15904.5 |
|                    | % Fixture | 69.5     | 0.0    | 69.5    |
| <b>Total</b>       | Lumens    | 22886.0  | 0.0    | 22886.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 779.9   | 3.4       |
| 10°-20°   | 1681.7  | 7.3       |
| 20°-30°   | 2549.9  | 11.1      |
| 30°-40°   | 3684.3  | 16.1      |
| 40°-50°   | 4923.2  | 21.5      |
| 50°-60°   | 5495.4  | 24.0      |
| 60°-70°   | 3014.5  | 13.2      |
| 70°-80°   | 651.7   | 2.8       |
| 80°-90°   | 105.4   | 0.5       |
| 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°    | 22886.0 | 100.0     |
| 0°-180°   | 22886.0 | 100.0     |

**Coefficient of Utilization**



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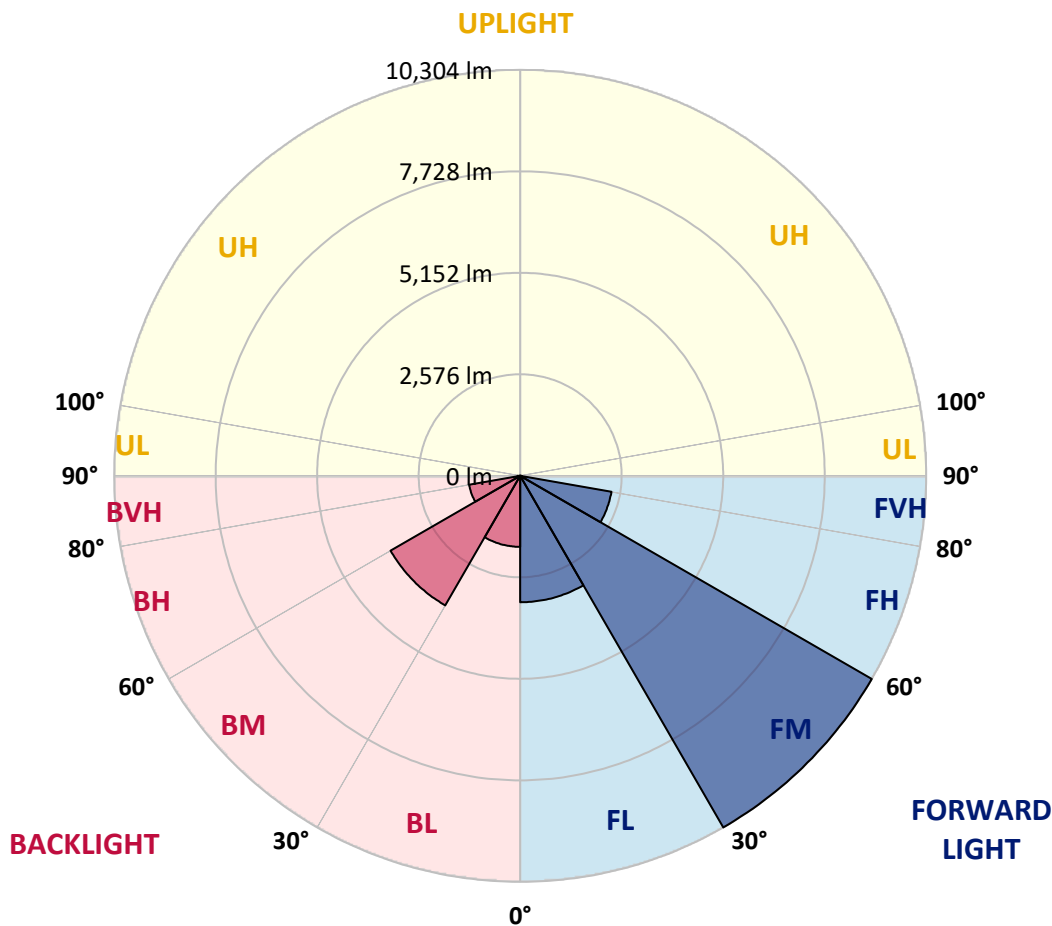
CATALOG NUMBER: GLAN-SA6B-730-U-SLL-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3209.0  | 14.0      |                         |      |         |
| FM   | (30°-60°)   | 10304.4 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 2352.1  | 10.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 39.0    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1802.5  | 7.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3798.5  | 16.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1314.1  | 5.7       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 66.4    | 0.3       |                         |      | G1/100  |
| 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°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 |
| 2.5°  | 10713.5 | 10653.4 | 10706.8 | 10960.8 | 11107.8 | 11208.1 | 11271.6 | 11261.6 | 11021.0 | 10787.0 | 10787.0 |
| 5°    | 10399.4 | 10322.5 | 10432.8 | 11007.6 | 11585.7 | 11635.8 | 11719.4 | 11582.4 | 11228.1 | 10800.4 | 10265.7 |
| 7.5°  | 9490.5  | 9547.3  | 9731.1  | 10486.3 | 11238.2 | 11615.8 | 11716.0 | 11542.3 | 10967.5 | 10168.8 | 9383.5  |
| 10°   | 8705.2  | 8838.8  | 9263.2  | 10078.6 | 10770.3 | 11261.6 | 11371.8 | 11127.9 | 10673.4 | 9694.3  | 8992.5  |
| 12.5° | 8434.5  | 8350.9  | 8822.1  | 9637.5  | 10299.2 | 10563.1 | 10613.3 | 10630.0 | 10322.5 | 9453.7  | 8598.2  |
| 15°   | 8401.1  | 8454.5  | 8822.1  | 9440.3  | 9848.0  | 9861.4  | 9944.9  | 10075.3 | 10115.4 | 9617.4  | 8782.0  |
| 17.5° | 8882.3  | 8818.8  | 9196.4  | 9687.6  | 9493.8  | 9300.0  | 9320.0  | 9507.2  | 9838.0  | 9757.8  | 9360.1  |
| 20°   | 9594.1  | 9737.7  | 10035.2 | 9985.0  | 9463.7  | 8972.5  | 8975.8  | 9152.9  | 9804.6  | 10339.3 | 10165.5 |
| 22.5° | 10777.0 | 10917.4 | 11137.9 | 10533.1 | 9463.7  | 8875.6  | 8762.0  | 9002.6  | 10018.4 | 11031.0 | 11074.4 |
| 25°   | 11856.4 | 12113.7 | 12173.9 | 11462.1 | 9938.2  | 8965.8  | 8892.3  | 9129.6  | 10232.3 | 11706.0 | 12117.0 |
| 27.5° | 12838.9 | 12932.4 | 13196.4 | 12060.2 | 10202.2 | 9026.0  | 9019.3  | 9323.4  | 10503.0 | 12043.5 | 13049.4 |
| 30°   | 13614.1 | 13604.1 | 13754.5 | 12437.8 | 10623.3 | 9363.5  | 9039.3  | 9614.1  | 10857.2 | 12601.6 | 13911.5 |
| 32.5° | 14142.1 | 14255.7 | 14573.2 | 12962.5 | 10800.4 | 9684.3  | 9430.3  | 9955.0  | 11288.3 | 12865.6 | 14519.7 |
| 35°   | 15071.1 | 15268.3 | 14867.3 | 13253.2 | 11361.8 | 10001.7 | 9704.3  | 10419.5 | 11502.2 | 13153.0 | 15264.9 |
| 37.5° | 15946.6 | 15796.3 | 15388.6 | 13410.3 | 11726.1 | 10589.9 | 10312.5 | 11318.4 | 12167.2 | 13777.9 | 15759.5 |
| 40°   | 16508.1 | 16504.7 | 15779.6 | 13537.3 | 11983.4 | 11488.8 | 11472.1 | 12230.7 | 12982.5 | 14172.2 | 16314.2 |
| 42.5° | 16752.0 | 16985.9 | 15940.0 | 13523.9 | 12524.7 | 12578.2 | 12915.7 | 13594.1 | 13560.7 | 14252.4 | 16300.9 |
| 44°   | 17086.2 | 17226.5 | 16217.3 | 13554.0 | 12885.6 | 13313.4 | 14108.7 | 14539.8 | 14065.3 | 14209.0 | 16284.2 |
| 45°   | 17072.8 | 17082.8 | 15823.0 | 13594.1 | 13193.1 | 13928.3 | 14640.0 | 15368.5 | 14509.7 | 14115.4 | 16504.7 |
| 47.5° | 16681.8 | 16568.2 | 15488.8 | 13296.7 | 14152.1 | 15552.3 | 16210.6 | 16651.7 | 15057.7 | 13914.9 | 16230.7 |
| 50°   | 15909.9 | 15779.6 | 14676.8 | 13169.7 | 14352.6 | 16561.5 | 17470.5 | 17630.9 | 15555.7 | 13717.7 | 15960.0 |
| 52.5° | 15963.4 | 15926.6 | 14907.4 | 13360.2 | 14553.2 | 16879.0 | 18336.0 | 18376.1 | 16120.4 | 14132.1 | 15963.4 |
| 55°   | 16919.1 | 16792.1 | 15569.0 | 13597.4 | 14406.1 | 16508.1 | 17784.6 | 17714.4 | 15929.9 | 13881.5 | 16257.4 |
| 57.5° | 15482.1 | 15565.7 | 14653.4 | 12658.4 | 12608.3 | 13420.3 | 13981.7 | 13807.9 | 13293.3 | 12528.1 | 15124.6 |
| 60°   | 12491.3 | 12728.6 | 12815.5 | 10586.5 | 9513.9  | 9096.1  | 8929.1  | 8621.6  | 8708.5  | 10292.5 | 13286.6 |
| 62.5° | 10713.5 | 10700.2 | 11244.9 | 9597.4  | 6232.3  | 5360.1  | 5279.9  | 5350.1  | 6352.6  | 10132.1 | 13012.6 |
| 65°   | 8494.6  | 8721.9  | 8889.0  | 8133.7  | 4932.4  | 3980.0  | 3976.6  | 4421.1  | 5497.1  | 8467.9  | 10506.3 |
| 67.5° | 5393.5  | 5690.9  | 5898.1  | 5203.0  | 3298.3  | 2833.8  | 2756.9  | 3291.6  | 3809.6  | 5553.9  | 6325.9  |
| 70°   | 3041.0  | 3181.3  | 3274.9  | 3000.9  | 2098.6  | 1470.4  | 1383.5  | 1510.5  | 2302.4  | 3595.7  | 3749.4  |
| 72.5° | 1172.9  | 1236.4  | 1363.4  | 1373.4  | 792.0   | 474.5   | 384.3   | 461.2   | 969.1   | 1423.6  | 1356.7  |
| 75°   | 180.5   | 193.8   | 274.0   | 327.5   | 227.2   | 173.8   | 183.8   | 190.5   | 270.7   | 367.6   | 307.4   |
| 77.5° | 86.9    | 86.9    | 83.5    | 96.9    | 113.6   | 123.6   | 133.7   | 147.0   | 160.4   | 177.1   | 170.4   |
| 80°   | 56.8    | 56.8    | 56.8    | 66.8    | 83.5    | 100.3   | 113.6   | 120.3   | 127.0   | 140.4   | 133.7   |
| 82.5° | 36.8    | 36.8    | 36.8    | 50.1    | 66.8    | 83.5    | 90.2    | 106.9   | 120.3   | 140.4   | 130.3   |
| 85°   | 20.1    | 20.1    | 20.1    | 33.4    | 50.1    | 70.2    | 66.8    | 53.5    | 30.1    | 3.3     | 6.7     |
| 87.5° | 6.7     | 6.7     | 6.7     | 6.7     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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°    | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 |
| 2.5°  | 10506.3 | 10352.6 | 10339.3 | 10025.1 | 9744.4  | 9607.4  | 9497.1  | 9189.7  | 9256.5  | 9079.4  | 9076.1  |
| 5°    | 9998.4  | 9684.3  | 9176.3  | 8758.6  | 8340.9  | 8257.4  | 7893.1  | 7575.7  | 7585.7  | 7358.4  | 7398.5  |
| 7.5°  | 9086.1  | 8868.9  | 8250.7  | 7595.7  | 7041.0  | 6646.7  | 6302.5  | 6095.3  | 5831.3  | 5741.1  | 5694.3  |
| 10°   | 8508.0  | 8240.7  | 7545.6  | 6723.5  | 6102.0  | 5891.4  | 5560.6  | 5376.8  | 5106.1  | 4972.5  | 4878.9  |
| 12.5° | 8254.0  | 7863.0  | 6994.2  | 6158.8  | 5744.4  | 5527.2  | 5246.5  | 4912.3  | 4591.5  | 4467.9  | 4297.4  |
| 15°   | 8280.8  | 7812.9  | 6833.8  | 5931.5  | 5433.6  | 5012.6  | 4761.9  | 4391.0  | 4063.5  | 3846.3  | 3722.7  |
| 17.5° | 8685.1  | 8117.0  | 6907.3  | 5757.8  | 5042.6  | 4514.7  | 4023.4  | 3622.4  | 3361.8  | 3198.0  | 3157.9  |
| 20°   | 9640.8  | 8868.9  | 7031.0  | 5477.1  | 4651.7  | 3993.3  | 3388.5  | 2970.8  | 2770.3  | 2766.9  | 2770.3  |
| 22.5° | 10436.2 | 9670.9  | 7281.6  | 5310.0  | 4260.7  | 3325.0  | 2723.5  | 2589.8  | 2549.7  | 2633.3  | 2643.3  |
| 25°   | 11508.9 | 10573.2 | 7712.7  | 5223.1  | 3899.8  | 2833.8  | 2462.8  | 2412.7  | 2409.4  | 2516.3  | 2519.6  |
| 27.5° | 12608.3 | 11361.8 | 7970.0  | 4969.1  | 3532.2  | 2579.8  | 2305.8  | 2295.8  | 2349.2  | 2462.8  | 2452.8  |
| 30°   | 13356.8 | 12023.5 | 8434.5  | 4665.0  | 3097.8  | 2355.9  | 2242.3  | 2255.7  | 2329.2  | 2416.1  | 2429.4  |
| 32.5° | 14229.0 | 12675.1 | 8554.8  | 4497.9  | 2830.4  | 2168.8  | 2088.6  | 2118.6  | 2212.2  | 2349.2  | 2422.7  |
| 35°   | 15228.2 | 13136.3 | 8738.6  | 4270.7  | 2730.2  | 2025.1  | 1985.0  | 2018.4  | 2132.0  | 2222.2  | 2302.4  |
| 37.5° | 15966.7 | 13951.6 | 8772.0  | 4093.6  | 2619.9  | 1944.9  | 1881.4  | 1991.7  | 2058.5  | 2185.5  | 2225.6  |
| 40°   | 16514.7 | 14543.1 | 8858.9  | 3983.3  | 2533.0  | 1841.3  | 1841.3  | 1914.8  | 2005.0  | 2122.0  | 2202.2  |
| 42.5° | 16865.6 | 14974.2 | 8922.4  | 3883.1  | 2365.9  | 1811.2  | 1794.5  | 1868.0  | 1988.3  | 2101.9  | 2138.7  |
| 44°   | 17079.5 | 15158.0 | 8858.9  | 3789.5  | 2319.1  | 1774.4  | 1774.4  | 1837.9  | 1931.5  | 2065.2  | 2108.6  |
| 45°   | 17133.0 | 15388.6 | 8718.5  | 3786.2  | 2262.3  | 1731.0  | 1724.3  | 1844.6  | 1908.1  | 2071.9  | 2098.6  |
| 47.5° | 17340.1 | 15672.6 | 8735.2  | 3679.2  | 2125.3  | 1627.4  | 1744.4  | 1797.8  | 1854.6  | 1998.3  | 2088.6  |
| 50°   | 17333.5 | 15849.7 | 8698.5  | 3522.2  | 2025.1  | 1510.5  | 1704.3  | 1764.4  | 1821.2  | 1968.3  | 2005.0  |
| 52.5° | 17380.2 | 16511.4 | 9036.0  | 3271.5  | 1844.6  | 1360.1  | 1570.6  | 1704.3  | 1774.4  | 1898.1  | 1975.0  |
| 55°   | 17356.8 | 16889.0 | 9370.2  | 3084.4  | 1590.7  | 1269.9  | 1457.0  | 1614.0  | 1714.3  | 1844.6  | 1881.4  |
| 57.5° | 15853.1 | 14927.4 | 8671.7  | 2733.5  | 1316.6  | 1162.9  | 1296.6  | 1520.5  | 1647.5  | 1781.1  | 1827.9  |
| 60°   | 12952.5 | 11505.5 | 7151.3  | 2011.7  | 1082.7  | 1069.3  | 1206.4  | 1490.4  | 1543.9  | 1660.8  | 1741.0  |
| 62.5° | 11970.0 | 10092.0 | 5670.9  | 1537.2  | 925.7   | 979.1   | 1112.8  | 1346.7  | 1430.3  | 1573.9  | 1647.5  |
| 65°   | 9366.8  | 6703.5  | 3512.1  | 1039.3  | 815.4   | 878.9   | 1005.9  | 1179.6  | 1316.6  | 1450.3  | 1537.2  |
| 67.5° | 5547.2  | 3662.5  | 1737.7  | 728.5   | 711.8   | 778.6   | 908.9   | 1039.3  | 1196.3  | 1343.4  | 1386.8  |
| 70°   | 3020.9  | 1801.2  | 741.9   | 554.7   | 604.8   | 665.0   | 792.0   | 882.2   | 1032.6  | 1146.2  | 1219.7  |
| 72.5° | 969.1   | 548.0   | 370.9   | 411.0   | 461.2   | 531.3   | 608.2   | 718.5   | 825.4   | 892.2   | 952.4   |
| 75°   | 233.9   | 230.6   | 264.0   | 287.4   | 334.2   | 387.6   | 451.1   | 507.9   | 591.5   | 655.0   | 708.4   |
| 77.5° | 163.7   | 177.1   | 203.8   | 237.3   | 254.0   | 274.0   | 314.1   | 357.6   | 394.3   | 441.1   | 474.5   |
| 80°   | 127.0   | 137.0   | 157.1   | 173.8   | 190.5   | 207.2   | 227.2   | 243.9   | 267.3   | 297.4   | 314.1   |
| 82.5° | 120.3   | 127.0   | 147.0   | 157.1   | 150.4   | 147.0   | 160.4   | 167.1   | 170.4   | 180.5   | 190.5   |
| 85°   | 10.0    | 0.0     | 6.7     | 23.4    | 56.8    | 83.5    | 90.2    | 90.2    | 86.9    | 93.6    | 93.6    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.3     | 13.4    | 10.0    |
| 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):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 |
| 2.5°  | 9036.0  | 8922.4  | 8965.8  | 9019.3  | 8942.4  | 8765.3  | 8812.1  | 8792.0  | 8972.5  | 8959.1  | 9139.6  |
| 5°    | 7575.7  | 7398.5  | 7418.6  | 7679.3  | 7595.7  | 7685.9  | 7505.5  | 7482.1  | 7515.5  | 7532.2  | 7562.3  |
| 7.5°  | 5797.9  | 5774.5  | 5975.0  | 6195.5  | 6299.1  | 6192.2  | 6015.1  | 5975.0  | 5938.2  | 5864.7  | 6031.8  |
| 10°   | 4731.9  | 4738.5  | 4725.2  | 4892.3  | 5009.2  | 4985.8  | 4878.9  | 4865.5  | 4795.4  | 4768.6  | 4862.2  |
| 12.5° | 4223.9  | 4133.7  | 4090.3  | 4036.8  | 4127.0  | 4187.2  | 4140.4  | 4107.0  | 4110.3  | 4143.7  | 4157.1  |
| 15°   | 3732.7  | 3675.9  | 3582.3  | 3522.2  | 3565.6  | 3535.5  | 3518.8  | 3585.7  | 3568.9  | 3562.3  | 3642.5  |
| 17.5° | 3181.3  | 3228.1  | 3221.4  | 3154.6  | 3211.4  | 3188.0  | 3184.7  | 3137.9  | 3074.4  | 3027.6  | 3054.3  |
| 20°   | 2817.1  | 2903.9  | 2970.8  | 2974.1  | 3004.2  | 3000.9  | 2950.7  | 2807.0  | 2760.3  | 2750.2  | 2756.9  |
| 22.5° | 2686.7  | 2733.5  | 2813.7  | 2927.3  | 2927.3  | 2873.9  | 2813.7  | 2646.6  | 2603.2  | 2556.4  | 2536.4  |
| 25°   | 2583.1  | 2673.4  | 2777.0  | 2790.3  | 2843.8  | 2793.7  | 2696.8  | 2613.2  | 2523.0  | 2459.5  | 2459.5  |
| 27.5° | 2529.7  | 2629.9  | 2706.8  | 2730.2  | 2803.7  | 2763.6  | 2663.3  | 2556.4  | 2449.5  | 2446.1  | 2389.3  |
| 30°   | 2506.3  | 2599.9  | 2650.0  | 2706.8  | 2740.2  | 2676.7  | 2646.6  | 2533.0  | 2426.1  | 2399.3  | 2305.8  |
| 32.5° | 2436.1  | 2569.8  | 2663.3  | 2650.0  | 2676.7  | 2650.0  | 2606.5  | 2513.0  | 2392.7  | 2332.5  | 2322.5  |
| 35°   | 2355.9  | 2489.6  | 2589.8  | 2660.0  | 2676.7  | 2619.9  | 2593.2  | 2466.2  | 2302.4  | 2272.4  | 2168.8  |
| 37.5° | 2312.5  | 2392.7  | 2516.3  | 2629.9  | 2653.3  | 2623.2  | 2533.0  | 2402.7  | 2238.9  | 2205.5  | 2115.3  |
| 40°   | 2259.0  | 2362.6  | 2459.5  | 2553.1  | 2623.2  | 2549.7  | 2446.1  | 2319.1  | 2245.6  | 2145.4  | 2118.6  |
| 42.5° | 2218.9  | 2335.9  | 2416.1  | 2519.6  | 2599.9  | 2502.9  | 2382.6  | 2295.8  | 2192.2  | 2125.3  | 2048.5  |
| 44°   | 2205.5  | 2312.5  | 2365.9  | 2492.9  | 2559.8  | 2486.2  | 2386.0  | 2295.8  | 2175.5  | 2115.3  | 2048.5  |
| 45°   | 2158.7  | 2305.8  | 2362.6  | 2476.2  | 2533.0  | 2472.9  | 2345.9  | 2255.7  | 2168.8  | 2095.3  | 2025.1  |
| 47.5° | 2112.0  | 2212.2  | 2309.1  | 2399.3  | 2439.4  | 2419.4  | 2312.5  | 2202.2  | 2098.6  | 2055.2  | 1988.3  |
| 50°   | 2098.6  | 2198.8  | 2289.1  | 2372.6  | 2419.4  | 2379.3  | 2282.4  | 2175.5  | 2055.2  | 1985.0  | 1928.2  |
| 52.5° | 2031.8  | 2155.4  | 2255.7  | 2282.4  | 2342.5  | 2319.1  | 2245.6  | 2128.7  | 2015.1  | 1954.9  | 1908.1  |
| 55°   | 1934.9  | 2065.2  | 2202.2  | 2235.6  | 2322.5  | 2285.7  | 2175.5  | 2065.2  | 1968.3  | 1878.0  | 1817.9  |
| 57.5° | 1898.1  | 2025.1  | 2158.7  | 2202.2  | 2255.7  | 2195.5  | 2168.8  | 2051.8  | 1898.1  | 1851.3  | 1757.7  |
| 60°   | 1804.5  | 1964.9  | 2075.2  | 2175.5  | 2178.8  | 2162.1  | 2115.3  | 1981.6  | 1854.6  | 1767.8  | 1700.9  |
| 62.5° | 1731.0  | 1881.4  | 1968.3  | 2061.8  | 2118.6  | 2071.9  | 2025.1  | 1901.4  | 1764.4  | 1667.5  | 1590.7  |
| 65°   | 1624.1  | 1761.1  | 1834.6  | 1891.4  | 1954.9  | 1948.2  | 1868.0  | 1777.8  | 1634.1  | 1557.2  | 1483.7  |
| 67.5° | 1460.3  | 1580.6  | 1680.9  | 1734.3  | 1774.4  | 1764.4  | 1704.3  | 1640.8  | 1493.7  | 1416.9  | 1363.4  |
| 70°   | 1263.2  | 1386.8  | 1450.3  | 1480.4  | 1520.5  | 1540.5  | 1493.7  | 1463.7  | 1333.3  | 1233.1  | 1183.0  |
| 72.5° | 1015.9  | 1096.1  | 1189.6  | 1216.4  | 1233.1  | 1246.5  | 1246.5  | 1219.7  | 1086.1  | 1046.0  | 959.1   |
| 75°   | 748.5   | 812.0   | 882.2   | 882.2   | 912.3   | 915.6   | 922.3   | 905.6   | 805.4   | 751.9   | 731.8   |
| 77.5° | 507.9   | 554.7   | 611.5   | 634.9   | 655.0   | 651.6   | 648.3   | 601.5   | 548.0   | 524.6   | 504.6   |
| 80°   | 330.8   | 377.6   | 404.3   | 434.4   | 454.5   | 451.1   | 457.8   | 424.4   | 401.0   | 360.9   | 367.6   |
| 82.5° | 197.2   | 233.9   | 260.7   | 297.4   | 297.4   | 307.4   | 307.4   | 297.4   | 274.0   | 254.0   | 254.0   |
| 85°   | 93.6    | 123.6   | 140.4   | 163.7   | 177.1   | 180.5   | 160.4   | 137.0   | 113.6   | 103.6   | 113.6   |
| 87.5° | 16.7    | 23.4    | 33.4    | 30.1    | 36.8    | 33.4    | 33.4    | 33.4    | 33.4    | 26.7    | 30.1    |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 | 10208.9 |
| 2.5°  | 9072.7  | 9239.8  | 9356.8  | 9550.6  | 9884.8  | 10152.1 | 10426.1 | 10630.0 | 10653.4 | 10713.5 |
| 5°    | 7672.6  | 7762.8  | 8060.2  | 8447.8  | 8721.9  | 9173.0  | 9463.7  | 9991.7  | 10188.9 | 10399.4 |
| 7.5°  | 5991.7  | 6138.7  | 6536.4  | 6797.0  | 7398.5  | 7963.3  | 8548.1  | 9199.7  | 9460.4  | 9490.5  |
| 10°   | 5052.7  | 5266.5  | 5537.2  | 5954.9  | 6282.4  | 6910.7  | 7639.2  | 8364.3  | 8655.0  | 8705.2  |
| 12.5° | 4437.8  | 4711.8  | 5072.7  | 5373.5  | 5687.6  | 6235.6  | 6934.0  | 7829.6  | 8207.2  | 8434.5  |
| 15°   | 3846.3  | 4130.4  | 4528.0  | 4945.7  | 5223.1  | 5878.1  | 6700.1  | 7709.3  | 8200.6  | 8401.1  |
| 17.5° | 3238.1  | 3502.1  | 3829.6  | 4280.7  | 4838.8  | 5574.0  | 6663.4  | 8110.3  | 8648.3  | 8882.3  |
| 20°   | 2716.8  | 2863.8  | 3244.8  | 3709.3  | 4407.7  | 5263.2  | 6676.7  | 8701.8  | 9490.5  | 9594.1  |
| 22.5° | 2513.0  | 2546.4  | 2696.8  | 3124.5  | 3889.8  | 4945.7  | 6914.0  | 9540.6  | 10436.2 | 10777.0 |
| 25°   | 2355.9  | 2349.2  | 2389.3  | 2676.7  | 3512.1  | 4822.1  | 7147.9  | 10312.5 | 11485.5 | 11856.4 |
| 27.5° | 2269.0  | 2202.2  | 2205.5  | 2476.2  | 3244.8  | 4621.6  | 7448.7  | 11198.1 | 12675.1 | 12838.9 |
| 30°   | 2225.6  | 2212.2  | 2172.1  | 2282.4  | 2954.1  | 4320.8  | 7498.8  | 12070.3 | 13376.9 | 13614.1 |
| 32.5° | 2198.8  | 2068.5  | 2018.4  | 2058.5  | 2680.1  | 3993.3  | 7685.9  | 12645.0 | 14245.7 | 14142.1 |
| 35°   | 2065.2  | 1948.2  | 1914.8  | 1954.9  | 2486.2  | 3809.6  | 7562.3  | 13146.3 | 14897.3 | 15071.1 |
| 37.5° | 2015.1  | 1911.5  | 1844.6  | 1811.2  | 2305.8  | 3655.8  | 7498.8  | 13918.2 | 15528.9 | 15946.6 |
| 40°   | 1968.3  | 1858.0  | 1777.8  | 1744.4  | 2165.4  | 3452.0  | 7478.7  | 14513.0 | 16257.4 | 16508.1 |
| 42.5° | 1914.8  | 1844.6  | 1754.4  | 1694.2  | 1995.0  | 3248.1  | 7248.2  | 14696.8 | 16481.3 | 16752.0 |
| 44°   | 1898.1  | 1791.2  | 1697.6  | 1677.5  | 1928.2  | 3144.5  | 7201.4  | 14863.9 | 16675.1 | 17086.2 |
| 45°   | 1881.4  | 1781.1  | 1674.2  | 1647.5  | 1904.8  | 3087.7  | 7137.9  | 14904.0 | 16995.9 | 17072.8 |
| 47.5° | 1834.6  | 1771.1  | 1667.5  | 1594.0  | 1854.6  | 2964.1  | 6947.4  | 14676.8 | 16668.5 | 16681.8 |
| 50°   | 1797.8  | 1724.3  | 1617.4  | 1473.7  | 1787.8  | 2860.5  | 7034.3  | 14593.3 | 15879.8 | 15909.9 |
| 52.5° | 1757.7  | 1647.5  | 1587.3  | 1340.0  | 1677.5  | 2773.6  | 7218.1  | 14970.9 | 15970.0 | 15963.4 |
| 55°   | 1711.0  | 1590.7  | 1443.6  | 1226.4  | 1493.7  | 2663.3  | 7662.5  | 15716.1 | 16805.5 | 16919.1 |
| 57.5° | 1637.4  | 1533.8  | 1323.3  | 1126.2  | 1283.2  | 2452.8  | 7518.8  | 14289.2 | 15462.1 | 15482.1 |
| 60°   | 1540.5  | 1443.6  | 1199.7  | 1049.3  | 1052.6  | 1934.9  | 6723.5  | 11134.6 | 12200.6 | 12491.3 |
| 62.5° | 1447.0  | 1393.5  | 1096.1  | 939.0   | 895.6   | 1540.5  | 5684.2  | 9253.2  | 10472.9 | 10713.5 |
| 65°   | 1336.7  | 1206.4  | 1005.9  | 855.5   | 768.6   | 1079.4  | 4026.8  | 6914.0  | 8170.5  | 8494.6  |
| 67.5° | 1196.3  | 1056.0  | 885.6   | 751.9   | 658.3   | 721.8   | 2078.5  | 3929.9  | 5203.0  | 5393.5  |
| 70°   | 1046.0  | 915.6   | 745.2   | 634.9   | 531.3   | 497.9   | 915.6   | 1874.7  | 2843.8  | 3041.0  |
| 72.5° | 858.8   | 738.5   | 594.8   | 501.3   | 397.7   | 344.2   | 307.4   | 501.3   | 1009.2  | 1172.9  |
| 75°   | 621.6   | 538.0   | 447.8   | 357.6   | 280.7   | 220.6   | 180.5   | 150.4   | 167.1   | 180.5   |
| 77.5° | 457.8   | 391.0   | 330.8   | 254.0   | 197.2   | 157.1   | 123.6   | 93.6    | 90.2    | 86.9    |
| 80°   | 357.6   | 317.5   | 264.0   | 203.8   | 153.7   | 117.0   | 86.9    | 63.5    | 56.8    | 56.8    |
| 82.5° | 280.7   | 260.7   | 217.2   | 167.1   | 127.0   | 93.6    | 63.5    | 43.4    | 36.8    | 36.8    |
| 85°   | 106.9   | 106.9   | 157.1   | 137.0   | 96.9    | 66.8    | 43.4    | 23.4    | 20.1    | 20.1    |
| 87.5° | 26.7    | 26.7    | 26.7    | 26.7    | 23.4    | 20.1    | 20.1    | 10.0    | 6.7     | 6.7     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)