

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: P456025

Luminaire Tested: **GLAN-SA7B-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29541 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 286  
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

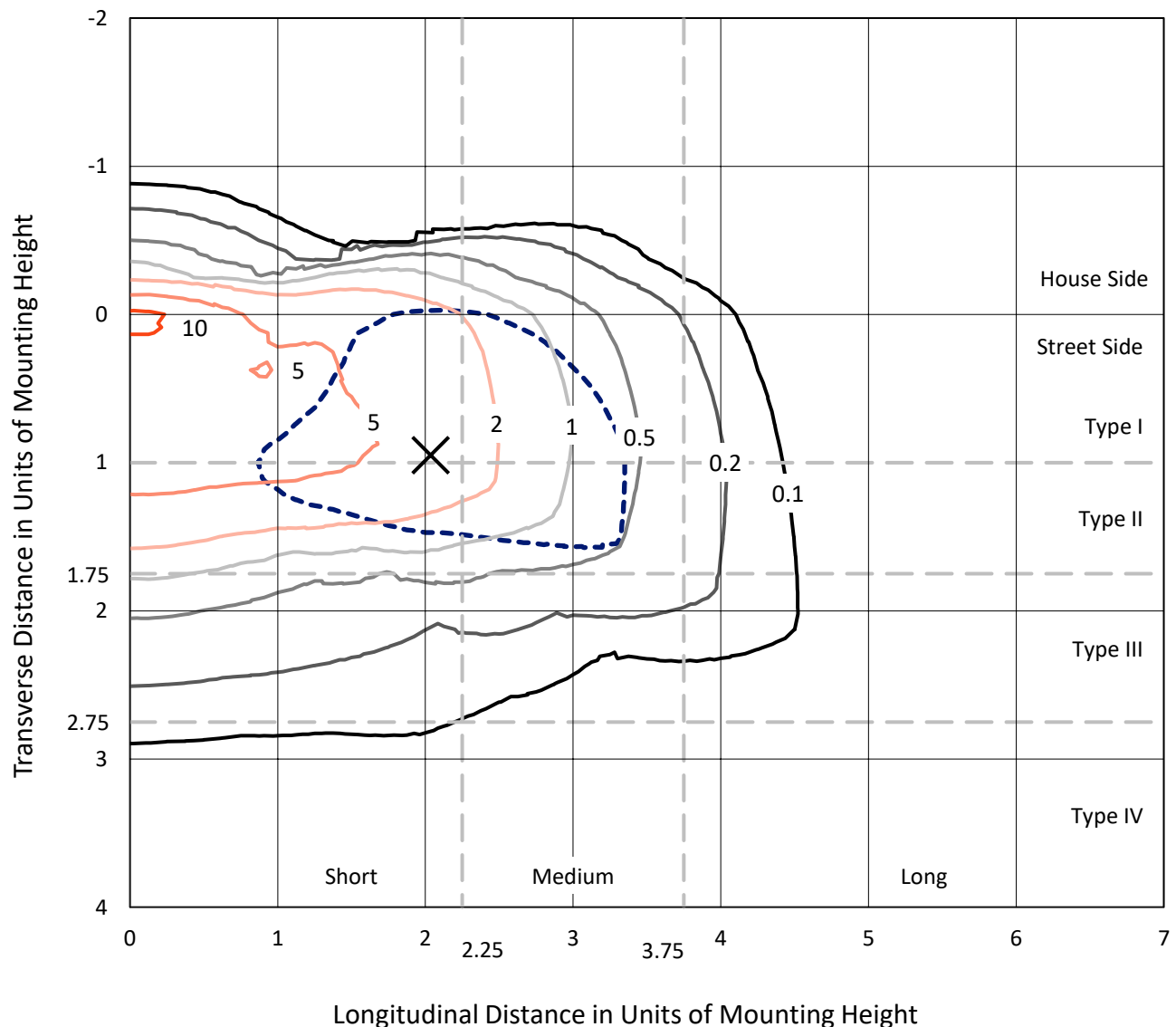


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## Iso-Footcandle Lines of Horizontal Illumination

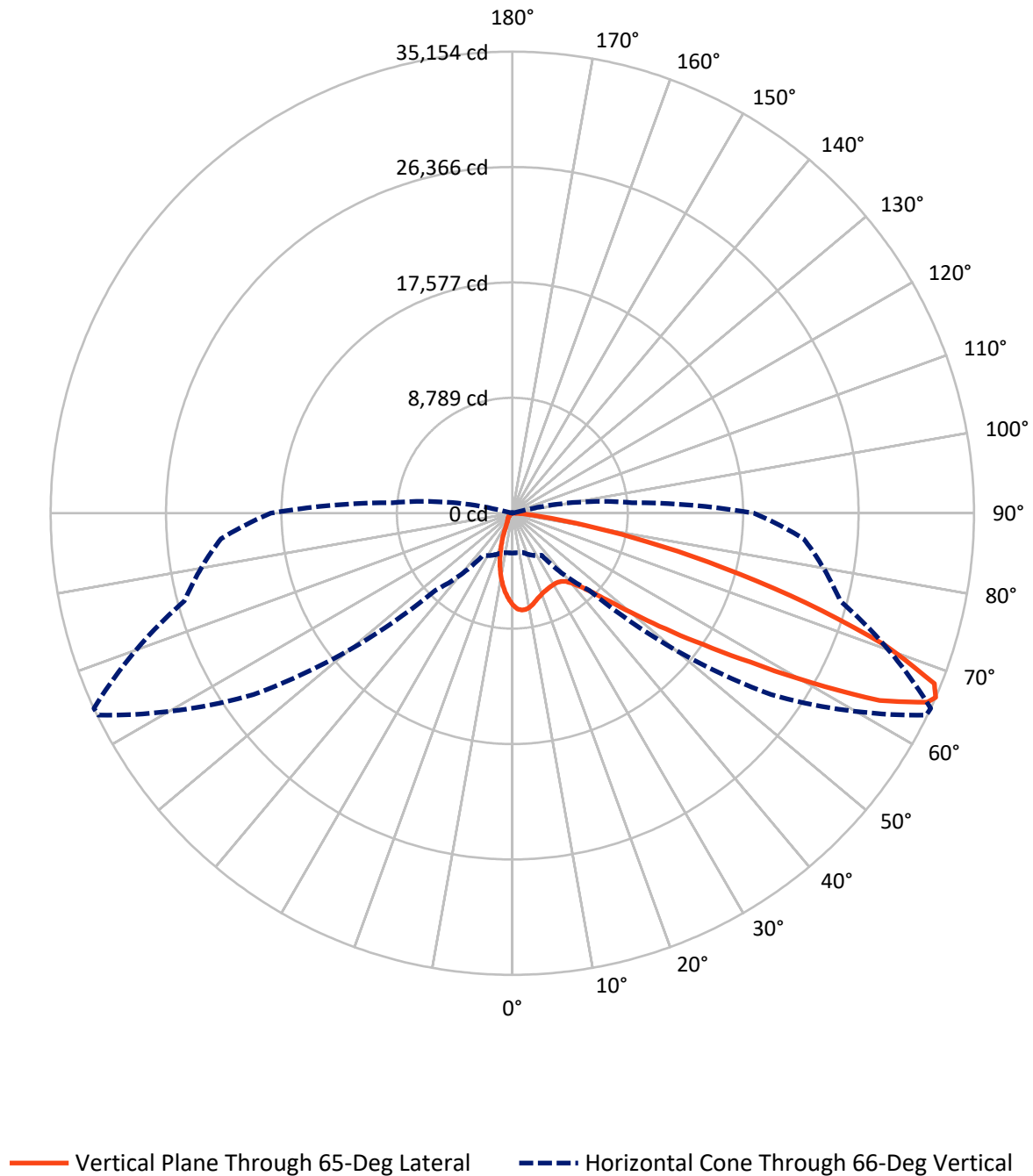
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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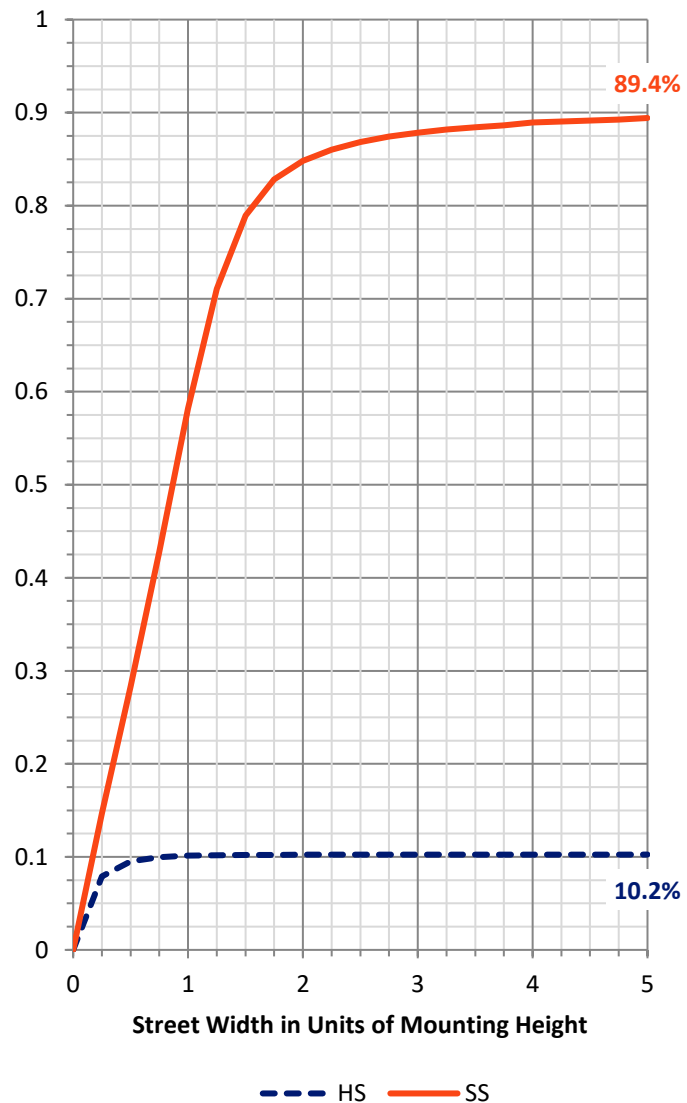
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3055.0   | 0.0    | 3055.0  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 26486.1  | 0.0    | 26486.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 29541.0  | 0.0    | 29541.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 572.9   | 1.9       |
| 10°-20°   | 1248.3  | 4.2       |
| 20°-30°   | 1788.2  | 6.1       |
| 30°-40°   | 2611.8  | 8.8       |
| 40°-50°   | 4379.6  | 14.8      |
| 50°-60°   | 7308.9  | 24.7      |
| 60°-70°   | 7758.1  | 26.3      |
| 70°-80°   | 3513.6  | 11.9      |
| 80°-90°   | 359.5   | 1.2       |
| 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°    | 29541.0 | 100.0     |
| 0°-180°   | 29541.0 | 100.0     |

**Coefficient of Utilization**



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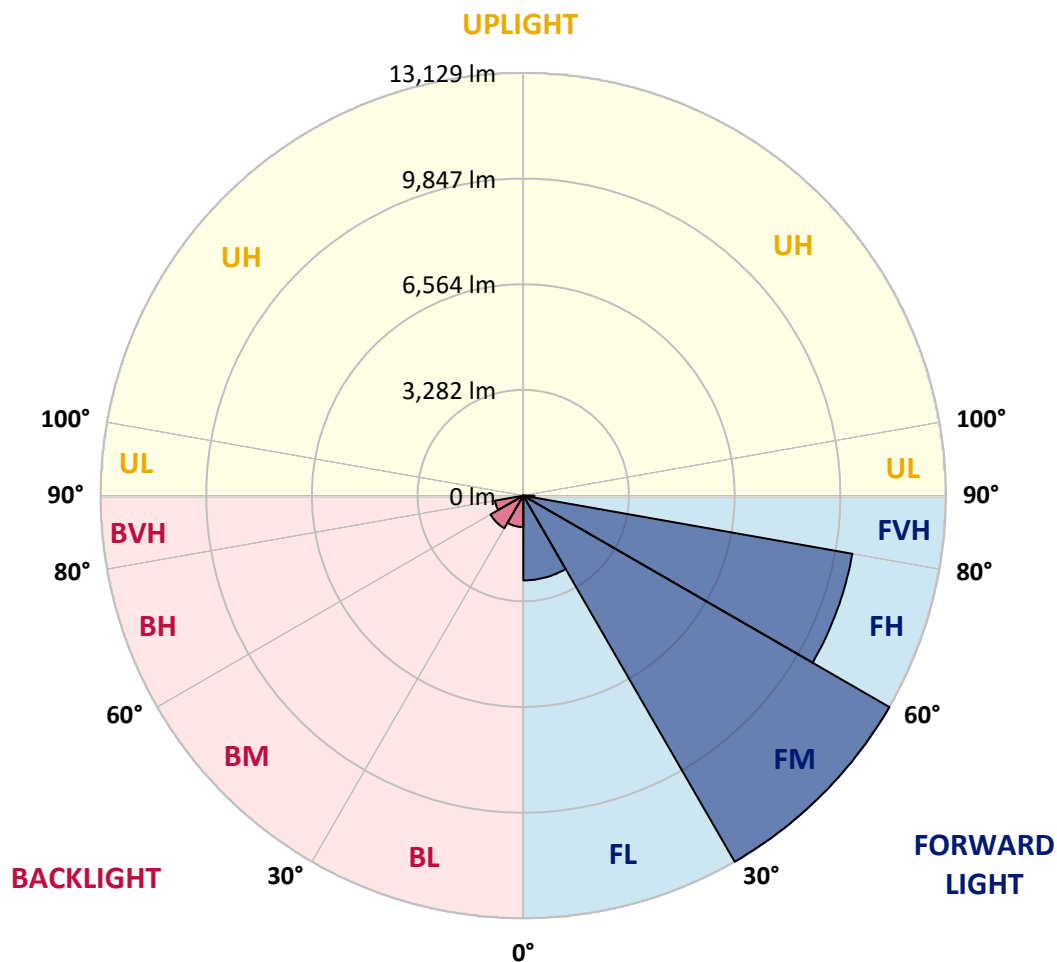
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2632.2  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 13128.7 | 44.4      |                         |      |          |
| FH   | (60°-80°)   | 10377.1 | 35.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 348.1   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 977.2   | 3.3       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1171.6  | 4.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 894.7   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 11.5    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  | 7005.3  |
| 2.5°  | 7382.4  | 7390.3  | 7400.3  | 7414.3  | 7424.3  | 7394.3  | 7352.4  | 7304.5  | 7294.6  | 7192.8  | 7069.1  |
| 5°    | 6987.3  | 6999.3  | 7087.1  | 7135.0  | 7242.7  | 7340.5  | 7402.3  | 7410.3  | 7406.3  | 7310.5  | 7113.0  |
| 7.5°  | 6424.6  | 6458.6  | 6544.4  | 6628.2  | 6829.7  | 7015.2  | 7234.7  | 7388.3  | 7398.3  | 7372.4  | 7127.0  |
| 10°   | 5967.7  | 5989.7  | 6033.6  | 6199.2  | 6366.8  | 6650.1  | 6957.4  | 7246.7  | 7270.6  | 7374.4  | 7115.0  |
| 12.5° | 5610.6  | 5642.5  | 5696.4  | 5824.1  | 6025.6  | 6293.0  | 6642.1  | 7031.2  | 7081.1  | 7336.5  | 7081.1  |
| 15°   | 5361.2  | 5377.2  | 5431.0  | 5556.7  | 5752.3  | 5999.7  | 6352.8  | 6805.7  | 6849.6  | 7286.6  | 7075.1  |
| 17.5° | 5243.5  | 5261.4  | 5299.3  | 5399.1  | 5560.7  | 5790.2  | 6135.3  | 6624.2  | 6680.0  | 7254.7  | 7097.0  |
| 20°   | 5275.4  | 5291.4  | 5293.4  | 5345.2  | 5455.0  | 5648.5  | 5975.7  | 6454.6  | 6526.4  | 7234.7  | 7133.0  |
| 22.5° | 5457.0  | 5459.0  | 5435.0  | 5411.1  | 5449.0  | 5588.6  | 5878.0  | 6346.8  | 6420.7  | 7230.7  | 7174.9  |
| 25°   | 5728.3  | 5734.3  | 5694.4  | 5610.6  | 5534.8  | 5606.6  | 5856.0  | 6277.0  | 6342.8  | 7220.7  | 7200.8  |
| 27.5° | 6103.4  | 6101.4  | 6089.4  | 5949.8  | 5734.3  | 5686.4  | 5874.0  | 6239.1  | 6295.0  | 7192.8  | 7210.8  |
| 30°   | 6628.2  | 6612.2  | 6586.3  | 6428.6  | 6099.4  | 5879.9  | 5949.8  | 6215.1  | 6267.0  | 7152.9  | 7184.8  |
| 32.5° | 7144.9  | 7204.8  | 7200.8  | 7051.2  | 6640.1  | 6225.1  | 6107.4  | 6247.1  | 6285.0  | 7127.0  | 7146.9  |
| 35°   | 7747.5  | 7745.5  | 7899.1  | 7843.3  | 7362.4  | 6666.1  | 6376.8  | 6352.8  | 6382.7  | 7144.9  | 7129.0  |
| 37.5° | 8306.2  | 8358.0  | 8597.5  | 8655.3  | 8216.4  | 7288.6  | 6757.9  | 6580.3  | 6590.3  | 7266.6  | 7172.9  |
| 40°   | 9002.5  | 9102.2  | 9459.4  | 9652.9  | 9265.9  | 8212.4  | 7320.5  | 6997.3  | 6999.3  | 7565.9  | 7338.5  |
| 42.5° | 9900.3  | 10058.0 | 10391.2 | 10714.4 | 10506.9 | 9305.8  | 8164.5  | 7657.7  | 7653.7  | 8092.7  | 7717.6  |
| 45°   | 10991.7 | 11101.5 | 11480.6 | 11993.3 | 11861.7 | 10832.1 | 9393.6  | 8681.3  | 8629.4  | 8956.6  | 8390.0  |
| 47.5° | 11933.5 | 12083.1 | 12468.2 | 13052.8 | 13651.4 | 12695.7 | 10862.0 | 10087.9 | 10054.0 | 10331.3 | 9543.2  |
| 50°   | 12344.5 | 12476.2 | 12881.2 | 13701.3 | 15151.8 | 15141.8 | 13048.8 | 12141.0 | 12083.1 | 12232.8 | 11326.9 |
| 52.5° | 11893.6 | 12017.3 | 12426.3 | 13447.9 | 15858.1 | 18122.7 | 16217.2 | 14716.8 | 14647.0 | 14455.5 | 13457.8 |
| 55°   | 10349.3 | 10451.0 | 11055.6 | 12228.8 | 15586.8 | 20109.9 | 20582.8 | 17899.2 | 17627.9 | 16883.7 | 15870.1 |
| 57.5° | 8240.3  | 8188.4  | 8563.5  | 9926.3  | 13994.6 | 20776.4 | 25064.1 | 21863.8 | 21378.9 | 18982.6 | 17911.2 |
| 60°   | 5710.4  | 5870.0  | 6021.6  | 6919.5  | 10522.9 | 19621.1 | 27851.4 | 26847.8 | 26209.4 | 21047.7 | 19866.5 |
| 62.5° | 4198.0  | 4303.7  | 4403.5  | 4818.5  | 6616.2  | 15666.6 | 28344.3 | 31967.6 | 31401.0 | 23240.5 | 21732.1 |
| 65°   | 3320.1  | 3328.0  | 3368.0  | 3777.0  | 4359.6  | 10187.7 | 25975.9 | 34854.7 | 34709.1 | 25351.4 | 22488.3 |
| 66°   | 3024.8  | 3026.8  | 3088.6  | 3527.6  | 3912.7  | 8296.2  | 24078.5 | 35074.2 | 35154.0 | 25858.2 | 22266.8 |
| 67.5° | 2643.7  | 2635.7  | 2725.5  | 3170.4  | 3563.5  | 5981.7  | 20682.6 | 34184.3 | 34657.2 | 26247.3 | 21470.7 |
| 70°   | 2049.1  | 2039.1  | 2148.9  | 2659.6  | 3282.2  | 3990.5  | 13747.2 | 29351.9 | 30114.0 | 25451.2 | 18996.6 |
| 72.5° | 1364.7  | 1372.7  | 1560.3  | 2099.0  | 3132.5  | 3513.6  | 8270.2  | 22328.6 | 23406.1 | 21017.8 | 14944.3 |
| 75°   | 796.1   | 810.1   | 1023.6  | 1560.3  | 2719.5  | 3350.0  | 4680.8  | 15922.0 | 16610.3 | 14513.3 | 9309.8  |
| 77.5° | 417.0   | 423.0   | 572.6   | 1029.5  | 2085.0  | 3110.6  | 3118.5  | 10171.7 | 10494.9 | 7053.1  | 3685.2  |
| 80°   | 221.5   | 215.5   | 307.3   | 620.5   | 1434.6  | 2731.5  | 2530.0  | 5385.1  | 5598.6  | 2095.0  | 931.8   |
| 82.5° | 83.8    | 91.8    | 163.6   | 407.0   | 848.0   | 1961.3  | 2178.8  | 2380.3  | 2306.5  | 460.9   | 391.1   |
| 85°   | 16.0    | 20.0    | 69.8    | 241.4   | 427.0   | 820.0   | 1606.2  | 1167.2  | 1081.4  | 173.6   | 225.5   |
| 87.5° | 2.0     | 4.0     | 20.0    | 57.9    | 61.9    | 277.3   | 474.9   | 323.2   | 279.3   | 63.8    | 93.8    |
| 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°    | 7005.3  | 7005.3  | 7005.3 | 7005.3 | 7005.3 | 7005.3 | 7005.3 | 7005.3 | 7005.3 | 7005.3 | 7005.3 |
| 2.5°  | 7009.3  | 6955.4  | 6775.8 | 6598.2 | 6416.7 | 6253.1 | 6141.3 | 5959.8 | 5913.9 | 5848.0 | 5810.1 |
| 5°    | 6995.3  | 6869.6  | 6524.4 | 6147.3 | 5796.1 | 5417.1 | 5127.7 | 4848.4 | 4698.8 | 4623.0 | 4595.0 |
| 7.5°  | 6955.4  | 6755.9  | 6217.1 | 5626.6 | 5063.9 | 4497.3 | 4004.4 | 3629.3 | 3387.9 | 3222.3 | 3110.6 |
| 10°   | 6875.6  | 6600.2  | 5860.0 | 5047.9 | 4198.0 | 3449.8 | 2825.2 | 2350.4 | 1983.3 | 1867.5 | 1871.5 |
| 12.5° | 6793.8  | 6426.6  | 5461.0 | 4405.5 | 3352.0 | 2408.2 | 1745.8 | 1370.7 | 1195.1 | 1137.3 | 1125.3 |
| 15°   | 6717.9  | 6261.0  | 5069.9 | 3783.0 | 2496.0 | 1560.3 | 1125.3 | 993.6  | 945.7  | 935.8  | 933.8  |
| 17.5° | 6678.0  | 6107.4  | 4652.9 | 3070.7 | 1741.8 | 1059.5 | 901.8  | 865.9  | 852.0  | 842.0  | 838.0  |
| 20°   | 6644.1  | 5973.7  | 4253.8 | 2404.3 | 1191.2 | 867.9  | 808.1  | 774.2  | 750.2  | 740.2  | 734.2  |
| 22.5° | 6620.2  | 5836.1  | 3840.8 | 1861.6 | 911.8  | 770.2  | 716.3  | 672.4  | 638.5  | 626.5  | 618.5  |
| 25°   | 6584.3  | 5684.4  | 3423.8 | 1360.7 | 768.2  | 684.4  | 622.5  | 570.6  | 526.7  | 504.8  | 500.8  |
| 27.5° | 6532.4  | 5512.8  | 2966.9 | 1007.6 | 686.4  | 608.5  | 532.7  | 468.9  | 425.0  | 401.0  | 403.0  |
| 30°   | 6448.6  | 5333.3  | 2510.0 | 800.1  | 620.5  | 530.7  | 448.9  | 387.1  | 345.2  | 327.2  | 325.2  |
| 32.5° | 6348.8  | 5115.8  | 2091.0 | 686.4  | 560.7  | 460.9  | 375.1  | 321.2  | 289.3  | 275.3  | 273.3  |
| 35°   | 6255.1  | 4896.3  | 1664.0 | 616.5  | 498.8  | 397.1  | 315.2  | 269.4  | 245.4  | 233.4  | 235.4  |
| 37.5° | 6203.2  | 4700.8  | 1296.9 | 560.7  | 448.9  | 341.2  | 271.4  | 231.4  | 209.5  | 199.5  | 197.5  |
| 40°   | 6237.1  | 4541.1  | 1031.5 | 510.8  | 393.1  | 293.3  | 233.4  | 199.5  | 177.6  | 163.6  | 163.6  |
| 42.5° | 6396.7  | 4471.3  | 832.0  | 462.9  | 341.2  | 253.4  | 203.5  | 171.6  | 147.6  | 133.7  | 135.7  |
| 45°   | 6883.6  | 4545.1  | 696.3  | 419.0  | 293.3  | 219.5  | 175.6  | 141.7  | 119.7  | 109.7  | 107.7  |
| 47.5° | 7691.6  | 4822.5  | 602.6  | 373.1  | 251.4  | 187.6  | 147.6  | 117.7  | 95.8   | 87.8   | 85.8   |
| 50°   | 9104.2  | 5395.1  | 532.7  | 327.2  | 213.5  | 159.6  | 121.7  | 93.8   | 75.8   | 67.8   | 67.8   |
| 52.5° | 11047.6 | 6644.1  | 482.8  | 275.3  | 179.6  | 135.7  | 99.8   | 75.8   | 59.9   | 53.9   | 51.9   |
| 55°   | 13078.7 | 7961.0  | 456.9  | 231.4  | 149.6  | 111.7  | 79.8   | 59.9   | 45.9   | 39.9   | 37.9   |
| 57.5° | 15032.1 | 8994.5  | 427.0  | 187.6  | 119.7  | 85.8   | 61.9   | 45.9   | 31.9   | 27.9   | 25.9   |
| 60°   | 16905.6 | 9830.5  | 363.1  | 149.6  | 93.8   | 61.9   | 45.9   | 31.9   | 21.9   | 18.0   | 18.0   |
| 62.5° | 18581.6 | 10317.3 | 285.3  | 119.7  | 71.8   | 43.9   | 29.9   | 23.9   | 16.0   | 12.0   | 12.0   |
| 65°   | 18777.1 | 9684.9  | 215.5  | 91.8   | 51.9   | 27.9   | 18.0   | 18.0   | 12.0   | 8.0    | 8.0    |
| 66°   | 18384.1 | 9148.1  | 189.5  | 83.8   | 45.9   | 23.9   | 16.0   | 14.0   | 10.0   | 6.0    | 6.0    |
| 67.5° | 17506.2 | 8232.3  | 163.6  | 71.8   | 37.9   | 18.0   | 12.0   | 12.0   | 8.0    | 4.0    | 4.0    |
| 70°   | 15125.9 | 6723.9  | 129.7  | 53.9   | 27.9   | 14.0   | 8.0    | 8.0    | 6.0    | 4.0    | 4.0    |
| 72.5° | 11528.5 | 5020.0  | 105.7  | 39.9   | 20.0   | 10.0   | 6.0    | 6.0    | 6.0    | 4.0    | 4.0    |
| 75°   | 6953.4  | 2703.5  | 81.8   | 29.9   | 18.0   | 8.0    | 4.0    | 6.0    | 8.0    | 6.0    | 4.0    |
| 77.5° | 2561.9  | 919.8   | 63.8   | 23.9   | 14.0   | 8.0    | 4.0    | 4.0    | 8.0    | 6.0    | 6.0    |
| 80°   | 628.5   | 239.4   | 45.9   | 20.0   | 14.0   | 8.0    | 4.0    | 4.0    | 8.0    | 8.0    | 8.0    |
| 82.5° | 291.3   | 101.8   | 31.9   | 18.0   | 14.0   | 8.0    | 4.0    | 4.0    | 6.0    | 8.0    | 8.0    |
| 85°   | 167.6   | 47.9    | 25.9   | 20.0   | 14.0   | 8.0    | 4.0    | 4.0    | 6.0    | 8.0    | 8.0    |
| 87.5° | 67.8    | 23.9    | 23.9   | 20.0   | 16.0   | 10.0   | 4.0    | 4.0    | 4.0    | 6.0    | 6.0    |
| 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)