

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: P532440

Luminaire Tested: **GLAN-SA7D-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7D-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48621 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 433  
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

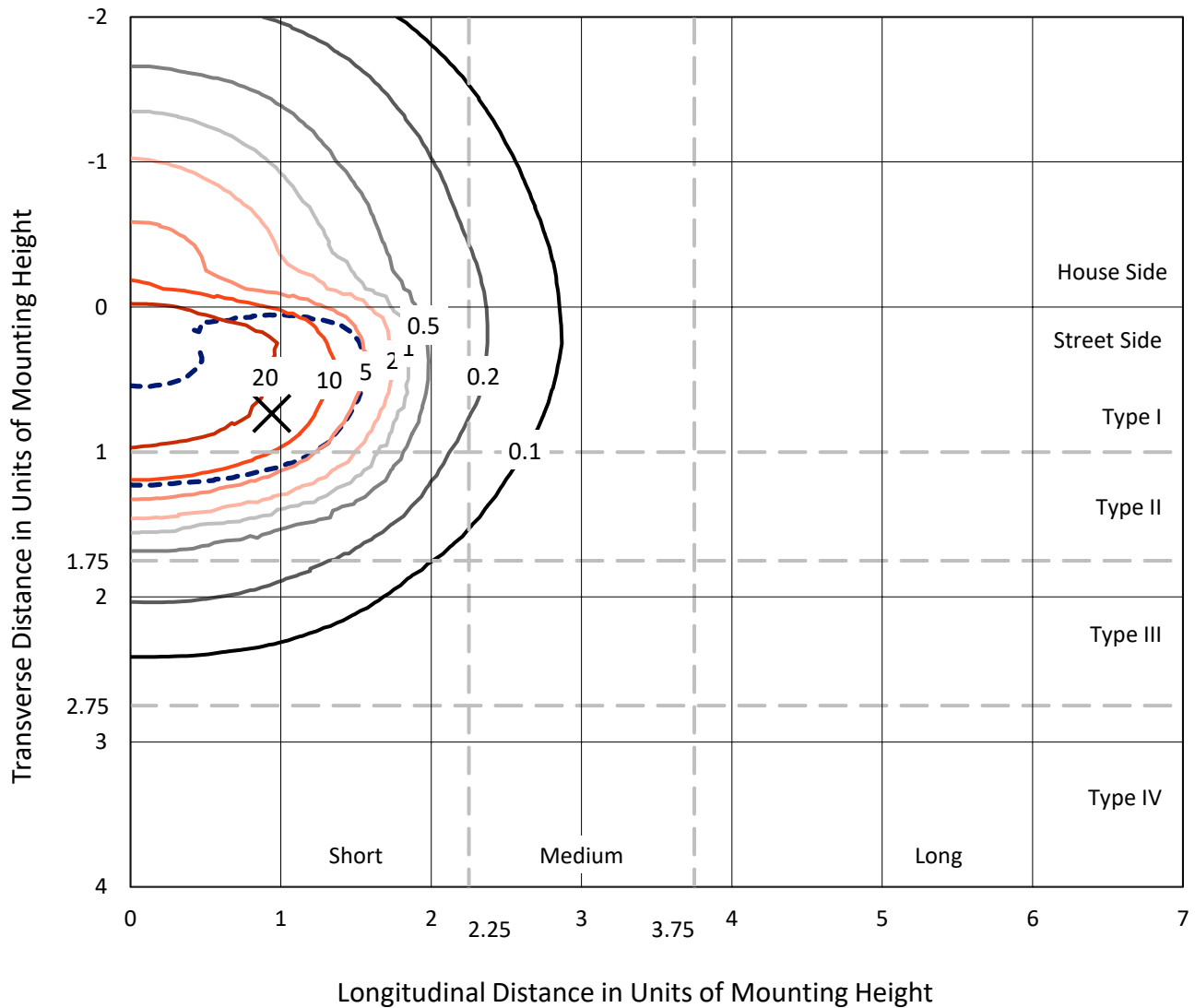


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## Iso-Footcandle Lines of Horizontal Illumination

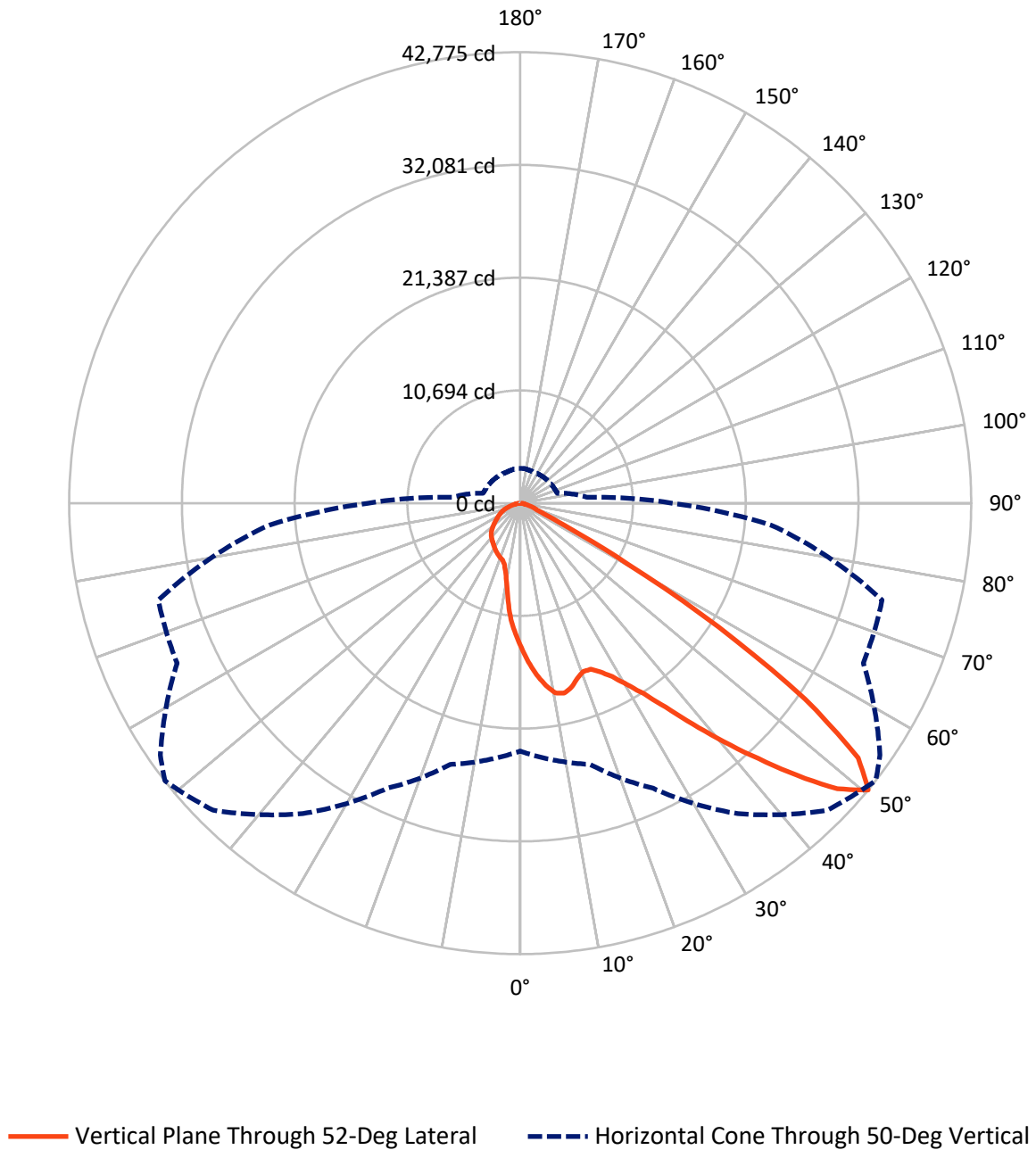
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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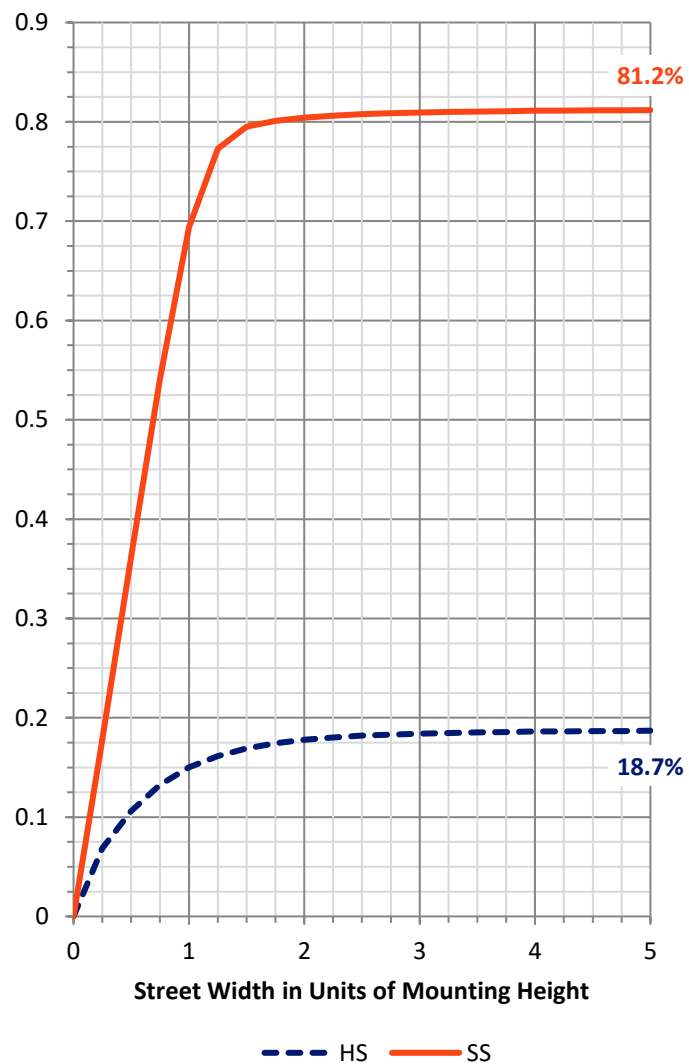
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9139.6   | 0.0    | 9139.6  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 39481.4  | 0.0    | 39481.4 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 48621.0  | 0.0    | 48621.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1263.2  | 2.6       |
| 10°-20°   | 3385.8  | 7.0       |
| 20°-30°   | 5703.2  | 11.7      |
| 30°-40°   | 9570.4  | 19.7      |
| 40°-50°   | 14640.4 | 30.1      |
| 50°-60°   | 10674.0 | 22.0      |
| 60°-70°   | 2375.5  | 4.9       |
| 70°-80°   | 856.8   | 1.8       |
| 80°-90°   | 151.7   | 0.3       |
| 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°    | 48621.0 | 100.0     |
| 0°-180°   | 48621.0 | 100.0     |

**Coefficient of Utilization**



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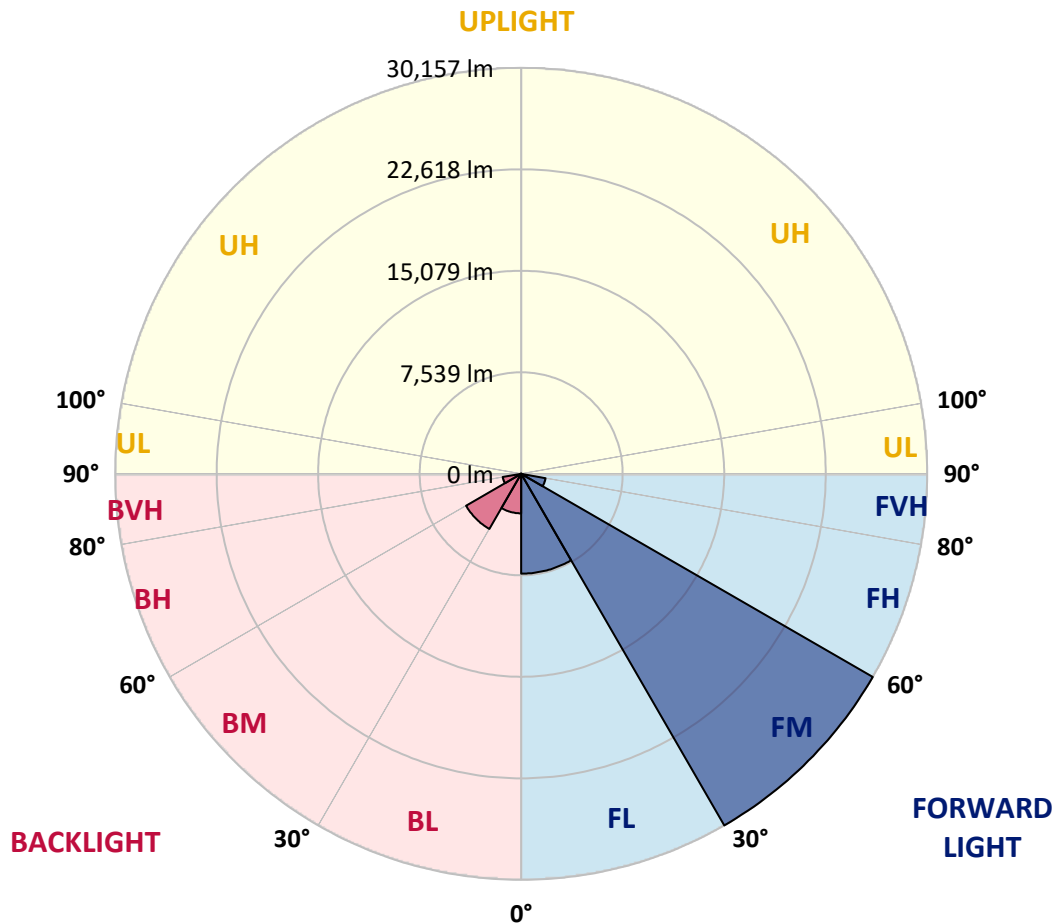
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 7416.4  | 15.3      |                         |      |         |
| FM   | (30°-60°)   | 30157.2 | 62.0      |                         |      |         |
| FH   | (60°-80°)   | 1839.9  | 3.8       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 68.0    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2935.8  | 6.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 4727.6  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1392.5  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 83.7    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 |
| 2.5°  | 16137.2 | 15826.6 | 15861.8 | 15639.1 | 15398.9 | 15328.5 | 15082.4 | 14848.1 | 14672.3 | 14297.3 | 13951.6 |
| 5°    | 17637.2 | 17543.4 | 17402.8 | 17227.0 | 17045.4 | 16600.1 | 16348.1 | 16055.1 | 15410.6 | 14830.5 | 14256.3 |
| 7.5°  | 17854.0 | 17836.4 | 17912.6 | 17912.6 | 17977.1 | 17807.1 | 17449.7 | 17244.6 | 16559.0 | 15615.7 | 14549.2 |
| 10°   | 16330.5 | 16383.3 | 16752.4 | 17232.9 | 17900.9 | 18363.8 | 18305.2 | 18252.5 | 17502.4 | 16213.3 | 14894.9 |
| 12.5° | 15117.6 | 15000.4 | 15217.2 | 15627.4 | 16629.4 | 17748.5 | 18504.4 | 18510.3 | 18316.9 | 17168.4 | 15146.9 |
| 15°   | 14432.0 | 14514.1 | 14572.7 | 14766.0 | 15521.9 | 16816.9 | 18147.0 | 18539.6 | 19389.2 | 17842.3 | 15545.3 |
| 17.5° | 14871.5 | 14596.1 | 14584.4 | 14631.3 | 15018.0 | 15990.7 | 17484.9 | 18158.7 | 19975.2 | 18709.5 | 16037.5 |
| 20°   | 15445.7 | 15439.9 | 15275.8 | 15217.2 | 15211.4 | 16078.6 | 17051.2 | 17965.3 | 20285.7 | 19834.5 | 16535.6 |
| 22.5° | 16453.6 | 16453.6 | 16184.0 | 16055.1 | 15779.7 | 16488.7 | 17109.8 | 17731.0 | 20801.4 | 20608.0 | 16775.9 |
| 25°   | 18141.1 | 17865.7 | 17402.8 | 17086.4 | 16928.2 | 17180.2 | 17731.0 | 18287.6 | 21252.5 | 21428.3 | 17273.9 |
| 27.5° | 19699.8 | 19266.2 | 19037.6 | 18492.7 | 18281.8 | 18135.3 | 18639.2 | 19201.7 | 21779.9 | 22705.7 | 17543.4 |
| 30°   | 21469.3 | 21393.2 | 20983.0 | 20279.9 | 19758.4 | 19488.8 | 19951.7 | 20508.4 | 22746.7 | 24012.4 | 18164.6 |
| 32.5° | 24633.5 | 23942.1 | 23385.4 | 22524.1 | 21674.4 | 21100.2 | 21557.2 | 21926.4 | 24352.2 | 25377.6 | 18844.3 |
| 35°   | 28049.6 | 27826.9 | 26866.0 | 25313.2 | 24012.4 | 23496.7 | 23766.3 | 24041.7 | 26221.4 | 27463.6 | 19986.9 |
| 37.5° | 31407.1 | 31102.4 | 30311.4 | 29004.7 | 27422.6 | 26373.8 | 26567.1 | 26889.4 | 28319.1 | 30276.2 | 21381.4 |
| 40°   | 33821.2 | 33446.2 | 33047.8 | 32854.4 | 31284.1 | 29848.5 | 29737.1 | 29819.2 | 31155.2 | 32913.0 | 22928.4 |
| 42.5° | 33997.0 | 34459.9 | 34583.0 | 35362.3 | 34993.1 | 33815.4 | 33129.8 | 33147.4 | 33862.3 | 35520.5 | 24492.9 |
| 45°   | 33627.9 | 33200.1 | 34108.4 | 36235.4 | 37454.2 | 38004.9 | 36850.6 | 36704.1 | 35538.1 | 37032.3 | 25272.2 |
| 47.5° | 29754.7 | 29871.9 | 31407.1 | 34770.5 | 38292.1 | 40753.1 | 40483.5 | 39997.2 | 36434.6 | 36979.5 | 25149.1 |
| 50°   | 23520.2 | 24229.2 | 25653.0 | 29842.6 | 35948.3 | 41186.7 | 42774.6 | 41649.6 | 35901.4 | 35526.4 | 23895.2 |
| 52.5° | 15662.5 | 15955.5 | 16893.0 | 22301.4 | 28905.1 | 36815.5 | 40137.8 | 40395.6 | 35409.2 | 33622.0 | 22307.3 |
| 55°   | 6972.8  | 6949.4  | 8267.8  | 11648.8 | 18135.3 | 28014.4 | 32795.8 | 34366.2 | 33516.5 | 31682.5 | 20760.3 |
| 57.5° | 2953.2  | 3052.8  | 3591.9  | 5033.3  | 8918.2  | 16904.8 | 22219.4 | 23596.4 | 25776.1 | 26016.3 | 15926.2 |
| 60°   | 1998.1  | 2009.8  | 2156.3  | 2519.6  | 3732.5  | 7939.7  | 11654.6 | 13307.0 | 14865.6 | 14760.2 | 8449.5  |
| 62.5° | 1570.4  | 1611.4  | 1722.7  | 1869.2  | 2214.9  | 3603.6  | 5215.0  | 6134.9  | 6234.5  | 5244.3  | 3205.2  |
| 65°   | 1341.8  | 1347.7  | 1459.0  | 1582.1  | 1734.4  | 2097.7  | 2513.7  | 2560.6  | 2589.9  | 2496.2  | 2355.5  |
| 67.5° | 1107.5  | 1119.2  | 1207.1  | 1347.7  | 1488.3  | 1605.5  | 1722.7  | 1781.3  | 1916.1  | 2179.7  | 2144.6  |
| 70°   | 878.9   | 896.5   | 972.7   | 1089.9  | 1218.8  | 1289.1  | 1435.6  | 1488.3  | 1611.4  | 1816.5  | 1898.5  |
| 72.5° | 668.0   | 673.8   | 738.3   | 820.3   | 937.5   | 1007.8  | 1130.9  | 1189.5  | 1271.5  | 1447.3  | 1523.5  |
| 75°   | 480.5   | 498.1   | 544.9   | 586.0   | 603.5   | 650.4   | 767.6   | 832.1   | 949.2   | 1025.4  | 1031.3  |
| 77.5° | 252.0   | 263.7   | 275.4   | 275.4   | 334.0   | 421.9   | 498.1   | 533.2   | 615.3   | 673.8   | 644.5   |
| 80°   | 99.6    | 105.5   | 134.8   | 181.6   | 234.4   | 304.7   | 357.4   | 375.0   | 445.3   | 480.5   | 498.1   |
| 82.5° | 58.6    | 64.5    | 87.9    | 128.9   | 169.9   | 216.8   | 257.8   | 275.4   | 322.3   | 363.3   | 375.0   |
| 85°   | 29.3    | 35.2    | 52.7    | 82.0    | 111.3   | 134.8   | 128.9   | 123.1   | 123.1   | 117.2   | 123.1   |
| 87.5° | 11.7    | 11.7    | 17.6    | 17.6    | 17.6    | 23.4    | 29.3    | 29.3    | 29.3    | 35.2    | 35.2    |
| 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°    | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 | 13705.5 |
| 2.5°  | 13723.0 | 13488.7 | 13271.8 | 12873.4 | 12439.8 | 12316.7 | 11812.8 | 11631.2 | 11502.3 | 11349.9 | 11303.0 |
| 5°    | 13793.3 | 13482.8 | 12785.5 | 11982.8 | 11344.1 | 10523.7 | 9984.6  | 9404.6  | 8982.7  | 8877.2  | 8847.9  |
| 7.5°  | 13939.8 | 13406.6 | 12205.4 | 10992.5 | 9685.8  | 8572.5  | 7722.9  | 7265.8  | 6861.5  | 6838.1  | 6797.1  |
| 10°   | 14103.9 | 13178.1 | 11572.6 | 9668.2  | 7998.3  | 6967.0  | 6457.2  | 6258.0  | 6158.4  | 6134.9  | 6123.2  |
| 12.5° | 14238.7 | 13131.2 | 10863.6 | 8379.1  | 6802.9  | 6181.8  | 6029.5  | 6011.9  | 6052.9  | 6064.6  | 6088.1  |
| 15°   | 14297.3 | 12943.7 | 10008.1 | 7224.8  | 6058.8  | 5830.2  | 5894.7  | 5965.0  | 5994.3  | 6070.5  | 6011.9  |
| 17.5° | 14408.6 | 12703.5 | 8953.4  | 6310.7  | 5642.7  | 5683.7  | 5795.1  | 5877.1  | 5924.0  | 5976.7  | 5900.6  |
| 20°   | 14467.2 | 12486.7 | 7963.1  | 5765.8  | 5496.2  | 5572.4  | 5724.8  | 5789.2  | 5847.8  | 5871.3  | 5783.4  |
| 22.5° | 14414.5 | 12041.3 | 7090.0  | 5326.3  | 5355.6  | 5455.2  | 5590.0  | 5660.3  | 5625.2  | 5531.4  | 5478.7  |
| 25°   | 14273.8 | 11414.4 | 6181.8  | 5045.1  | 5156.4  | 5332.2  | 5437.6  | 5384.9  | 5320.5  | 5267.7  | 5250.1  |
| 27.5° | 14268.0 | 10646.8 | 5525.5  | 4787.2  | 4986.5  | 5226.7  | 5191.5  | 5144.7  | 5174.0  | 5133.0  | 5086.1  |
| 30°   | 14297.3 | 9902.6  | 4986.5  | 4640.8  | 4863.4  | 4980.6  | 5021.6  | 4974.7  | 5009.9  | 4933.7  | 4957.2  |
| 32.5° | 14144.9 | 9176.0  | 4634.9  | 4470.8  | 4716.9  | 4711.1  | 4845.8  | 4881.0  | 4799.0  | 4640.8  | 4664.2  |
| 35°   | 14209.4 | 8590.1  | 4336.1  | 4394.7  | 4552.9  | 4552.9  | 4658.3  | 4617.3  | 4400.5  | 4306.8  | 4330.2  |
| 37.5° | 14654.7 | 8015.8  | 4189.6  | 4289.2  | 4394.7  | 4441.5  | 4406.4  | 4230.6  | 4177.8  | 4177.8  | 4189.6  |
| 40°   | 15076.6 | 7523.6  | 4101.7  | 4265.7  | 4248.2  | 4277.5  | 4019.6  | 4037.2  | 4037.2  | 4043.1  | 4013.8  |
| 42.5° | 15451.6 | 7189.7  | 4031.4  | 4125.1  | 4154.4  | 4002.1  | 3843.9  | 3826.3  | 3867.3  | 3861.4  | 3838.0  |
| 45°   | 15586.4 | 6914.3  | 3931.7  | 3966.9  | 3990.3  | 3738.4  | 3662.2  | 3627.1  | 3673.9  | 3691.5  | 3714.9  |
| 47.5° | 15070.7 | 6685.7  | 3820.4  | 3750.1  | 3703.2  | 3539.2  | 3439.5  | 3375.1  | 3433.7  | 3533.3  | 3556.7  |
| 50°   | 14408.6 | 6386.9  | 3644.6  | 3509.9  | 3410.2  | 3339.9  | 3269.6  | 3205.2  | 3246.2  | 3316.5  | 3298.9  |
| 52.5° | 13430.1 | 5918.1  | 3422.0  | 3281.3  | 3111.4  | 3129.0  | 3064.5  | 3029.4  | 3052.8  | 3052.8  | 3035.2  |
| 55°   | 12035.5 | 4863.4  | 3047.0  | 2947.3  | 2806.7  | 2853.6  | 2865.3  | 2818.4  | 2771.6  | 2812.6  | 2777.4  |
| 57.5° | 8215.1  | 3433.7  | 2718.8  | 2718.8  | 2578.2  | 2642.7  | 2636.8  | 2525.5  | 2414.1  | 2425.8  | 2402.4  |
| 60°   | 4752.1  | 2736.4  | 2507.9  | 2484.4  | 2338.0  | 2390.7  | 2402.4  | 2326.2  | 2156.3  | 2168.0  | 2144.6  |
| 62.5° | 2701.2  | 2338.0  | 2191.5  | 2156.3  | 2127.0  | 2173.9  | 2173.9  | 2074.3  | 1927.8  | 1939.5  | 1916.1  |
| 65°   | 2296.9  | 2168.0  | 1957.1  | 1951.2  | 1939.5  | 1951.2  | 1904.3  | 1798.9  | 1670.0  | 1617.2  | 1623.1  |
| 67.5° | 2086.0  | 2004.0  | 1798.9  | 1746.1  | 1711.0  | 1705.1  | 1617.2  | 1517.6  | 1459.0  | 1412.1  | 1406.3  |
| 70°   | 1828.2  | 1763.7  | 1611.4  | 1541.1  | 1505.9  | 1423.9  | 1336.0  | 1271.5  | 1189.5  | 1166.0  | 1189.5  |
| 72.5° | 1447.3  | 1441.4  | 1382.9  | 1306.7  | 1230.5  | 1166.0  | 1089.9  | 1002.0  | 925.8   | 908.2   | 867.2   |
| 75°   | 1002.0  | 1013.7  | 1025.4  | 1013.7  | 949.2   | 867.2   | 779.3   | 709.0   | 615.3   | 562.5   | 550.8   |
| 77.5° | 656.3   | 673.8   | 691.4   | 668.0   | 627.0   | 550.8   | 492.2   | 404.3   | 334.0   | 293.0   | 287.1   |
| 80°   | 480.5   | 503.9   | 515.6   | 498.1   | 451.2   | 392.6   | 328.1   | 257.8   | 205.1   | 169.9   | 169.9   |
| 82.5° | 369.2   | 392.6   | 404.3   | 375.0   | 328.1   | 281.3   | 234.4   | 181.6   | 140.6   | 111.3   | 105.5   |
| 85°   | 128.9   | 123.1   | 146.5   | 152.3   | 181.6   | 169.9   | 140.6   | 105.5   | 82.0    | 58.6    | 52.7    |
| 87.5° | 35.2    | 35.2    | 41.0    | 41.0    | 35.2    | 29.3    | 29.3    | 29.3    | 23.4    | 17.6    | 17.6    |
| 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)