

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: P534030

Luminaire Tested: **GLAN-SA9C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49198 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 481  
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



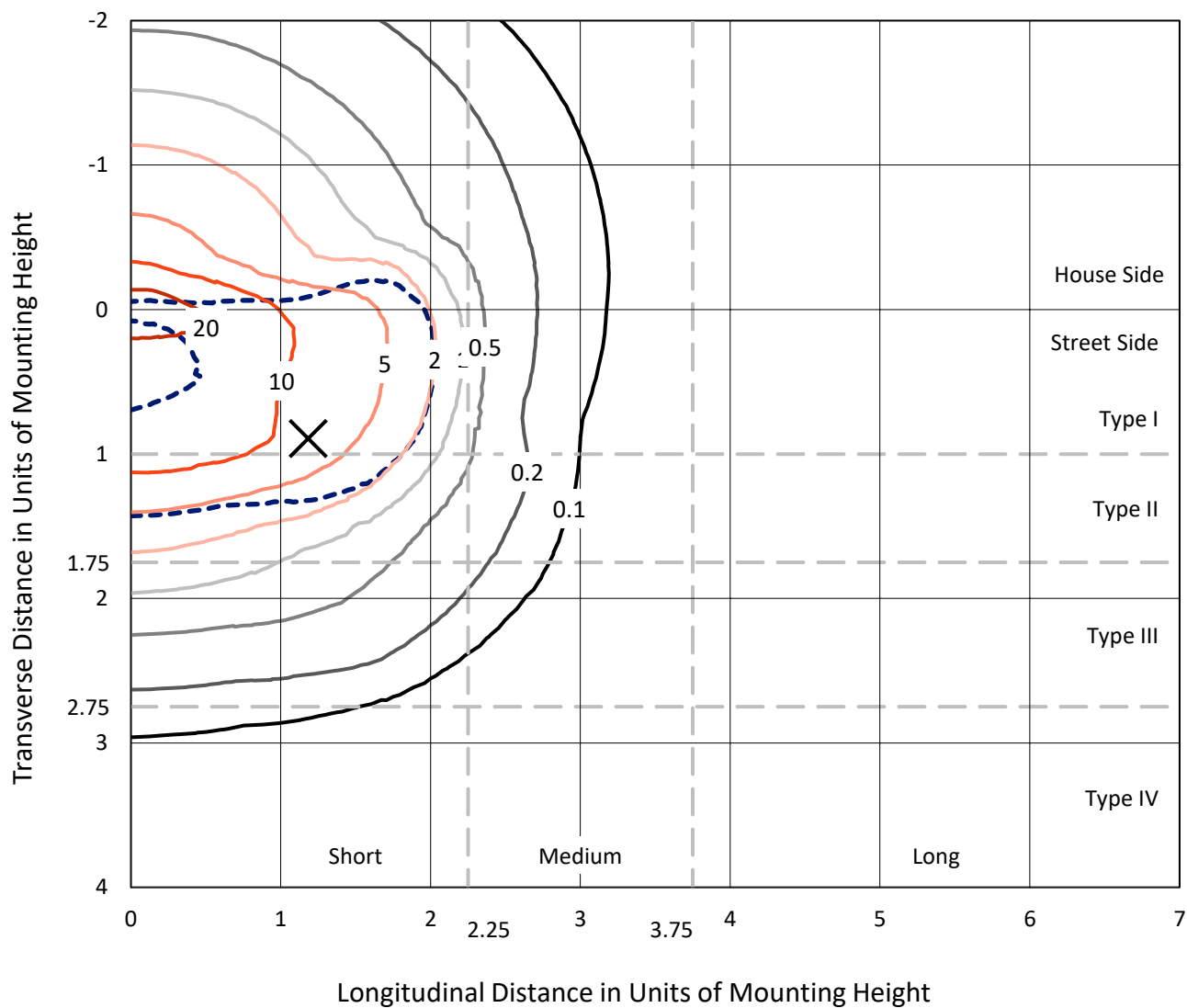
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



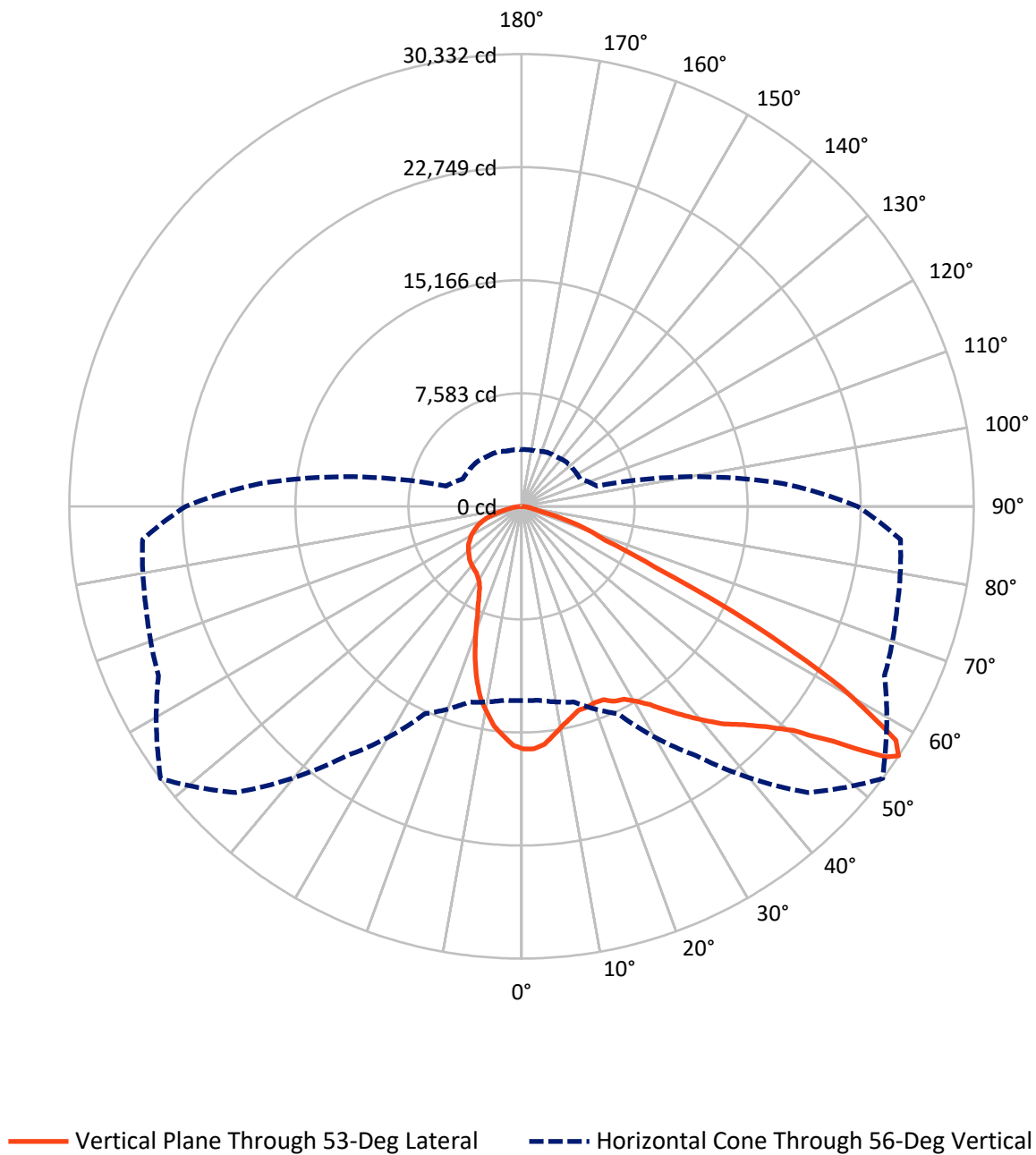
Based on 25 foot mounting height. Maximum calculated value = 26 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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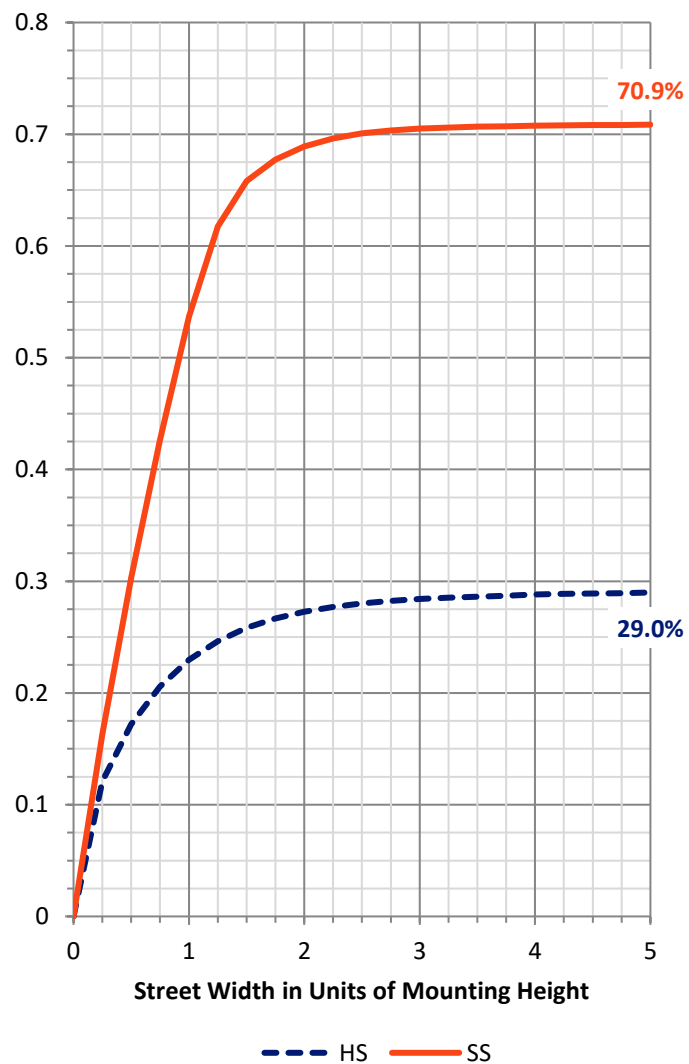
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14357.0  | 0.0    | 14357.0 |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 34840.9  | 0.0    | 34840.9 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 49198.0  | 0.0    | 49198.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1440.9  | 2.9       |
| 10°-20°   | 3598.9  | 7.3       |
| 20°-30°   | 5306.8  | 10.8      |
| 30°-40°   | 7582.4  | 15.4      |
| 40°-50°   | 10436.2 | 21.2      |
| 50°-60°   | 12332.8 | 25.1      |
| 60°-70°   | 6572.5  | 13.4      |
| 70°-80°   | 1667.4  | 3.4       |
| 80°-90°   | 260.0   | 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°    | 49198.0 | 100.0     |
| 0°-180°   | 49198.0 | 100.0     |

**Coefficient of Utilization**



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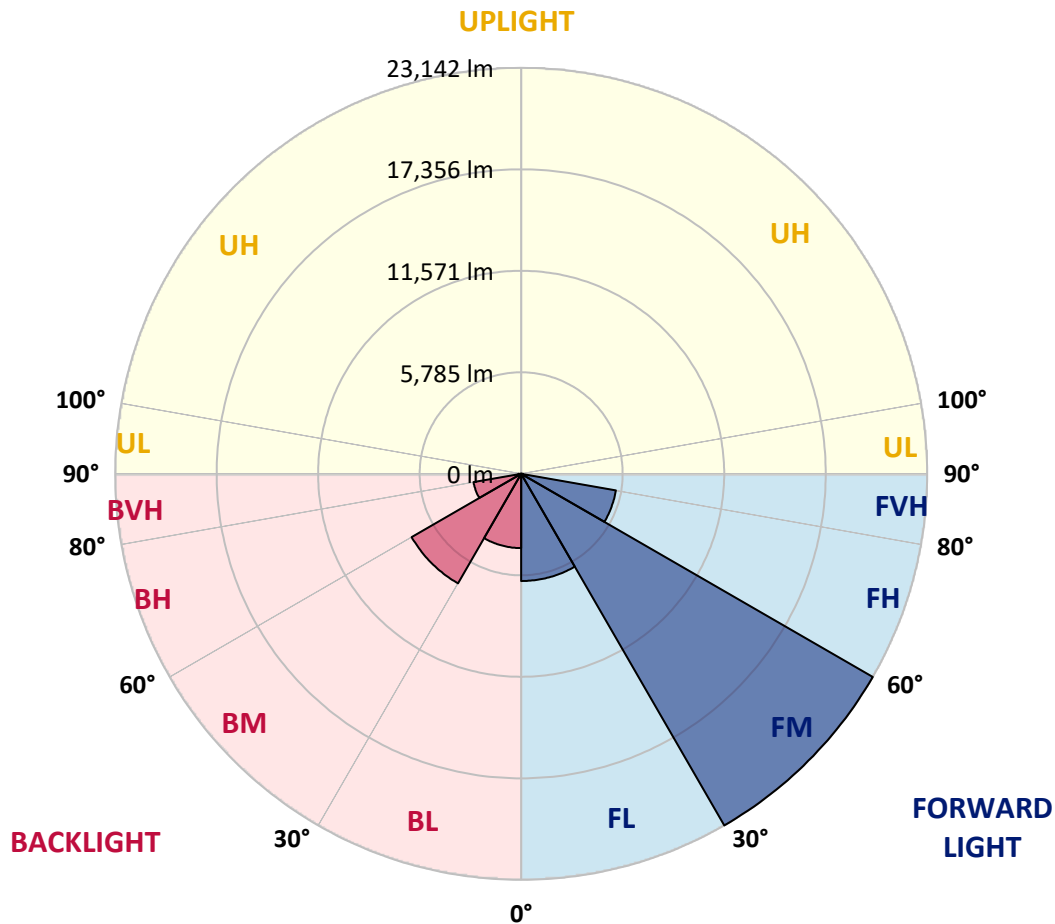
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6112.1  | 12.4      |                         |      |         |
| FM   | (30°-60°)   | 23141.8 | 47.0      |                         |      |         |
| FH   | (60°-80°)   | 5482.5  | 11.1      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 104.5   | 0.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 4234.5  | 8.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 7209.6  | 14.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2757.5  | 5.6       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 155.5   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 |
| 2.5°  | 16074.7 | 15935.8 | 16017.9 | 15986.3 | 16245.1 | 16320.8 | 16282.9 | 16314.5 | 16459.7 | 16390.2 | 16245.1 |
| 5°    | 15020.7 | 15216.4 | 15254.2 | 15348.9 | 15500.4 | 15797.0 | 16030.5 | 16093.6 | 16163.0 | 16484.9 | 16453.4 |
| 7.5°  | 14061.4 | 14193.9 | 14124.5 | 14402.2 | 14730.4 | 15210.0 | 15494.0 | 15544.5 | 16182.0 | 16358.7 | 16491.2 |
| 10°   | 13455.5 | 13323.0 | 13638.5 | 13714.3 | 14086.6 | 14635.7 | 14976.5 | 15184.8 | 15765.4 | 16466.0 | 16548.0 |
| 12.5° | 12893.8 | 12849.6 | 13039.0 | 13253.6 | 13670.1 | 14238.1 | 14585.2 | 14667.3 | 15563.5 | 16301.9 | 16686.9 |
| 15°   | 12477.3 | 12426.8 | 12616.1 | 12773.9 | 13259.9 | 13764.8 | 14206.6 | 14440.1 | 15342.6 | 16207.2 | 16567.0 |
| 17.5° | 12149.1 | 12142.8 | 12250.1 | 12534.1 | 13032.7 | 13455.5 | 14168.7 | 14181.3 | 15229.0 | 16352.4 | 16667.9 |
| 20°   | 12130.2 | 12123.9 | 12142.8 | 12458.3 | 12912.8 | 13430.3 | 14048.8 | 14162.4 | 15229.0 | 16251.4 | 16674.2 |
| 22.5° | 12287.9 | 12187.0 | 12300.6 | 12502.5 | 12830.7 | 13474.5 | 14093.0 | 14345.4 | 15595.0 | 16750.0 | 16958.2 |
| 25°   | 12540.4 | 12565.6 | 12628.8 | 12698.2 | 12887.5 | 13575.4 | 14484.3 | 14692.5 | 16024.2 | 17179.1 | 17349.5 |
| 27.5° | 13001.1 | 12988.5 | 13013.7 | 13051.6 | 13215.7 | 13670.1 | 14642.0 | 15178.5 | 16920.4 | 17942.8 | 17772.4 |
| 30°   | 13676.4 | 13632.2 | 13733.2 | 13865.8 | 13714.3 | 13973.0 | 15165.9 | 15569.8 | 17753.5 | 18712.8 | 18245.7 |
| 32.5° | 14288.6 | 14452.7 | 14642.0 | 14698.8 | 14515.8 | 14566.3 | 15860.1 | 16270.3 | 18447.7 | 19659.5 | 18826.4 |
| 35°   | 15052.3 | 15184.8 | 15437.2 | 15614.0 | 15582.4 | 15430.9 | 16806.8 | 17349.5 | 19451.2 | 20353.7 | 19438.6 |
| 37.5° | 15797.0 | 15954.8 | 16371.3 | 16895.1 | 16604.8 | 16535.4 | 17816.6 | 18264.7 | 19760.4 | 20726.0 | 19886.7 |
| 40°   | 16996.1 | 16989.8 | 17709.3 | 17980.7 | 18239.4 | 18119.5 | 18864.2 | 19015.7 | 19924.5 | 20644.0 | 19899.3 |
| 42.5° | 18403.5 | 18315.2 | 19047.3 | 19470.1 | 19804.6 | 19817.2 | 19956.1 | 19905.6 | 20000.3 | 20227.5 | 19766.7 |
| 45°   | 19741.5 | 19930.8 | 20669.2 | 21426.6 | 21761.1 | 21799.0 | 20877.5 | 20782.8 | 20132.8 | 20107.5 | 19514.3 |
| 47.5° | 21376.1 | 21420.3 | 22026.2 | 23023.3 | 23799.6 | 23534.5 | 22070.3 | 21862.1 | 20713.4 | 20909.1 | 19937.1 |
| 50°   | 21470.8 | 21799.0 | 22341.7 | 23515.6 | 25901.2 | 25831.8 | 23616.6 | 23225.3 | 21647.5 | 22045.1 | 21117.3 |
| 52.5° | 19489.0 | 19413.3 | 20057.1 | 21975.7 | 25743.5 | 28116.5 | 26178.9 | 25244.9 | 23654.5 | 23351.5 | 23029.6 |
| 55°   | 14850.3 | 15027.0 | 15595.0 | 17532.6 | 22354.3 | 28148.0 | 29669.0 | 28905.4 | 25800.3 | 25282.7 | 24910.4 |
| 56°   | 13026.4 | 13051.6 | 13588.1 | 15355.2 | 20397.9 | 27144.6 | 30331.7 | 29713.2 | 26866.9 | 26078.0 | 25510.0 |
| 57.5° | 10798.5 | 10653.3 | 10931.0 | 11896.7 | 17217.0 | 25024.0 | 29605.9 | 30211.8 | 28116.5 | 26936.3 | 26147.4 |
| 60°   | 8501.2  | 8469.7  | 8356.1  | 8532.8  | 10880.5 | 18851.6 | 24645.3 | 26008.5 | 27990.3 | 26128.5 | 25042.9 |
| 62.5° | 6942.3  | 6784.6  | 7011.8  | 7264.2  | 7560.8  | 11694.7 | 17318.0 | 18119.5 | 22221.8 | 20858.6 | 18813.7 |
| 65°   | 5383.5  | 5307.7  | 5591.7  | 6412.2  | 6588.9  | 7428.3  | 9864.4  | 10482.9 | 13121.0 | 12887.5 | 11347.6 |
| 67.5° | 3704.7  | 3717.3  | 3963.4  | 5213.1  | 6109.3  | 6033.5  | 6039.8  | 6361.7  | 6847.7  | 5086.8  | 4430.5  |
| 70°   | 2347.8  | 2341.5  | 2474.0  | 3357.6  | 4916.4  | 4966.9  | 4714.5  | 4619.8  | 4380.0  | 2650.7  | 2808.5  |
| 72.5° | 1508.4  | 1464.2  | 1533.6  | 1855.5  | 2543.4  | 2941.0  | 3029.4  | 3086.2  | 2537.1  | 2082.7  | 2259.4  |
| 75°   | 852.0   | 807.8   | 782.6   | 864.6   | 1003.5  | 1161.3  | 1274.9  | 1312.7  | 1470.5  | 1577.8  | 1672.5  |
| 77.5° | 258.8   | 233.5   | 284.0   | 378.7   | 498.6   | 669.0   | 814.1   | 839.4   | 990.9   | 1117.1  | 1211.8  |
| 80°   | 113.6   | 126.2   | 176.7   | 252.4   | 353.4   | 473.3   | 574.3   | 612.2   | 713.2   | 807.8   | 833.1   |
| 82.5° | 69.4    | 75.7    | 119.9   | 170.4   | 246.1   | 334.5   | 410.2   | 422.9   | 523.8   | 599.6   | 618.5   |
| 85°   | 25.2    | 31.6    | 63.1    | 101.0   | 157.8   | 214.6   | 214.6   | 233.5   | 214.6   | 214.6   | 233.5   |
| 87.5° | 0.0     | 0.0     | 6.3     | 12.6    | 12.6    | 18.9    | 25.2    | 25.2    | 31.6    | 37.9    | 44.2    |
| 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°    | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 | 16276.6 |
| 2.5°  | 16320.8 | 16289.3 | 16238.8 | 16055.7 | 16036.8 | 15980.0 | 15664.4 | 15614.0 | 15664.4 | 15513.0 | 15525.6 |
| 5°    | 16289.3 | 16383.9 | 16005.3 | 15822.2 | 15481.4 | 15235.3 | 14951.3 | 14806.1 | 14547.4 | 14383.3 | 14566.3 |
| 7.5°  | 16428.1 | 16390.2 | 15916.9 | 15519.3 | 15008.1 | 14383.3 | 13884.7 | 13600.7 | 13146.3 | 13020.0 | 13114.7 |
| 10°   | 16377.6 | 16175.7 | 15620.3 | 15096.4 | 14130.8 | 13581.7 | 12773.9 | 11991.3 | 11562.2 | 11341.3 | 11309.7 |
| 12.5° | 16308.2 | 16251.4 | 15323.6 | 14421.1 | 13405.0 | 12250.1 | 11114.1 | 10375.6 | 9675.1  | 9372.2  | 9416.3  |
| 15°   | 16390.2 | 15910.6 | 14768.3 | 13625.9 | 12275.3 | 10760.6 | 9536.3  | 8583.3  | 8097.3  | 7901.6  | 7901.6  |
| 17.5° | 16352.4 | 15746.5 | 14503.2 | 12736.0 | 11025.7 | 9233.3  | 7889.0  | 7314.7  | 7112.7  | 7112.7  | 7169.5  |
| 20°   | 16371.3 | 15853.8 | 13966.7 | 11846.2 | 9548.9  | 7775.4  | 6797.2  | 6588.9  | 6677.3  | 6708.8  | 6740.4  |
| 22.5° | 16478.6 | 15500.4 | 13442.9 | 10867.9 | 8179.3  | 6652.0  | 6172.4  | 6178.7  | 6336.5  | 6506.9  | 6475.3  |
| 25°   | 16611.1 | 15361.5 | 12805.5 | 9896.0  | 7131.7  | 6103.0  | 5951.5  | 5932.5  | 6052.5  | 6140.8  | 6153.4  |
| 27.5° | 16497.5 | 15121.7 | 12155.4 | 8684.2  | 6273.4  | 5736.9  | 5705.3  | 5718.0  | 5755.8  | 5932.5  | 5875.7  |
| 30°   | 16869.9 | 15191.1 | 11341.3 | 7668.1  | 5800.0  | 5617.0  | 5579.1  | 5560.2  | 5617.0  | 5667.5  | 5623.3  |
| 32.5° | 17330.6 | 14945.0 | 10735.4 | 6689.9  | 5566.5  | 5528.6  | 5452.9  | 5427.6  | 5459.2  | 5408.7  | 5434.0  |
| 35°   | 17532.6 | 14900.8 | 9946.5  | 5989.3  | 5383.5  | 5351.9  | 5307.7  | 5301.4  | 5307.7  | 5263.6  | 5225.7  |
| 37.5° | 17646.2 | 15109.1 | 9044.0  | 5667.5  | 5269.9  | 5301.4  | 5200.4  | 5187.8  | 5074.2  | 5099.5  | 5118.4  |
| 40°   | 17841.8 | 14787.2 | 8311.9  | 5358.2  | 5200.4  | 5137.3  | 5049.0  | 5030.0  | 4954.3  | 4910.1  | 4954.3  |
| 42.5° | 17557.8 | 14692.5 | 7592.4  | 5225.7  | 5099.5  | 5030.0  | 4966.9  | 4859.6  | 4834.4  | 4796.5  | 4771.3  |
| 45°   | 17330.6 | 14149.8 | 6948.7  | 5061.6  | 4979.6  | 4941.7  | 4821.8  | 4708.2  | 4613.5  | 4651.4  | 4594.6  |
| 47.5° | 17501.0 | 13960.4 | 6311.2  | 4922.8  | 4815.5  | 4771.3  | 4651.4  | 4563.0  | 4468.3  | 4424.2  | 4411.5  |
| 50°   | 18182.6 | 14313.8 | 5774.8  | 4821.8  | 4676.6  | 4651.4  | 4493.6  | 4392.6  | 4304.3  | 4272.7  | 4285.3  |
| 52.5° | 19810.9 | 15279.5 | 5408.7  | 4613.5  | 4544.1  | 4430.5  | 4342.1  | 4215.9  | 4159.1  | 4058.1  | 4121.2  |
| 55°   | 21874.7 | 16851.0 | 5314.0  | 4417.9  | 4380.0  | 4279.0  | 4159.1  | 4064.4  | 3957.1  | 3875.1  | 3856.2  |
| 56°   | 22537.4 | 17602.0 | 5238.3  | 4342.1  | 4279.0  | 4222.2  | 4064.4  | 4007.6  | 3837.2  | 3818.3  | 3805.7  |
| 57.5° | 23073.8 | 18264.7 | 5250.9  | 4197.0  | 4133.8  | 4083.4  | 3988.7  | 3849.8  | 3736.2  | 3666.8  | 3698.4  |
| 60°   | 21862.1 | 17097.1 | 5011.1  | 3976.1  | 3963.4  | 3868.8  | 3736.2  | 3673.1  | 3534.3  | 3452.2  | 3433.3  |
| 62.5° | 16251.4 | 11606.3 | 4064.4  | 3692.1  | 3685.8  | 3584.8  | 3433.3  | 3363.9  | 3338.6  | 3225.0  | 3225.0  |
| 65°   | 9359.5  | 7276.8  | 3515.3  | 3458.5  | 3408.1  | 3307.1  | 3155.6  | 3098.8  | 3035.7  | 2997.8  | 2966.3  |
| 67.5° | 3995.0  | 3774.1  | 3193.5  | 3187.2  | 3130.4  | 3004.1  | 2852.7  | 2764.3  | 2682.3  | 2606.5  | 2644.4  |
| 70°   | 2896.9  | 2941.0  | 2884.2  | 2852.7  | 2783.2  | 2625.5  | 2492.9  | 2385.6  | 2259.4  | 2208.9  | 2246.8  |
| 72.5° | 2297.3  | 2392.0  | 2474.0  | 2480.3  | 2398.3  | 2215.2  | 2070.1  | 1924.9  | 1786.1  | 1716.7  | 1748.2  |
| 75°   | 1741.9  | 1805.0  | 1887.1  | 1906.0  | 1786.1  | 1659.9  | 1521.0  | 1369.5  | 1262.2  | 1180.2  | 1192.8  |
| 77.5° | 1255.9  | 1243.3  | 1319.0  | 1306.4  | 1249.6  | 1161.3  | 1035.0  | 896.2   | 776.3   | 700.5   | 706.9   |
| 80°   | 858.3   | 877.3   | 921.4   | 915.1   | 845.7   | 788.9   | 694.2   | 580.6   | 492.3   | 429.2   | 416.5   |
| 82.5° | 599.6   | 631.1   | 669.0   | 637.4   | 580.6   | 523.8   | 454.4   | 372.4   | 302.9   | 252.4   | 239.8   |
| 85°   | 214.6   | 246.1   | 284.0   | 302.9   | 321.9   | 309.2   | 258.8   | 208.3   | 151.5   | 126.2   | 119.9   |
| 87.5° | 44.2    | 50.5    | 56.8    | 56.8    | 56.8    | 50.5    | 44.2    | 44.2    | 37.9    | 18.9    | 18.9    |
| 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)