

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: McGRAW-EDISON

Report Number: P531748

Luminaire Tested: **GALN-SA7A-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23722 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

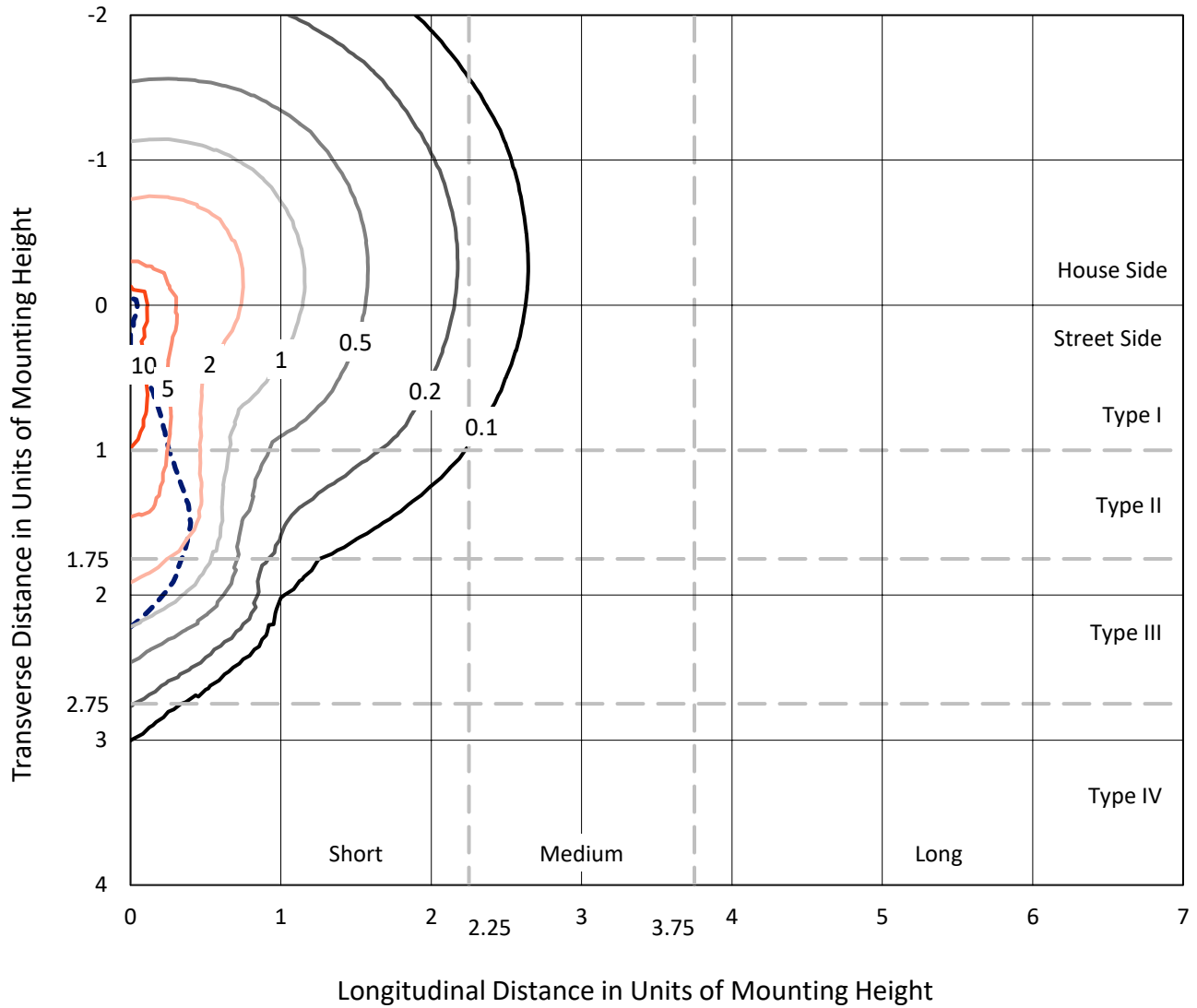
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

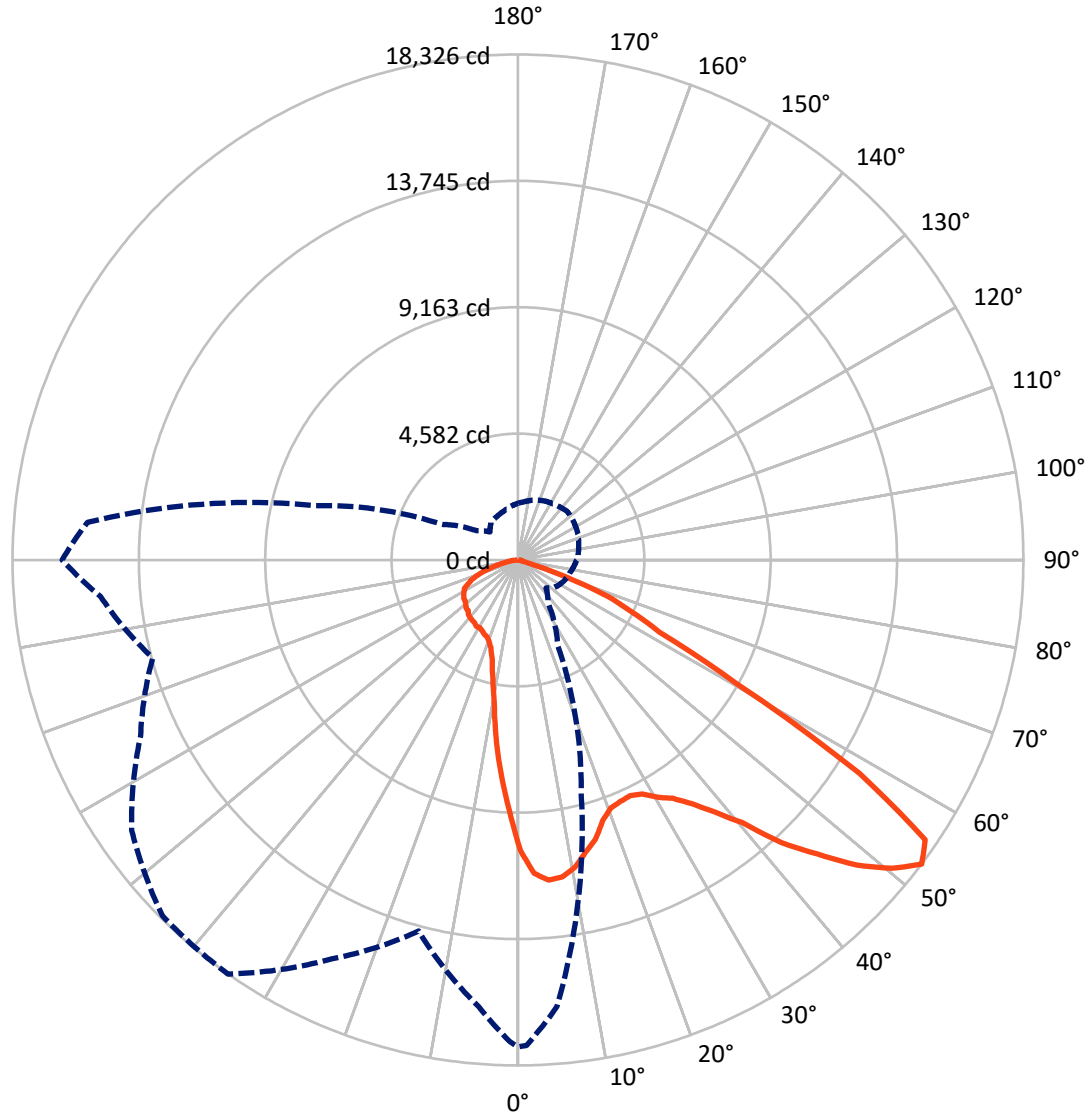
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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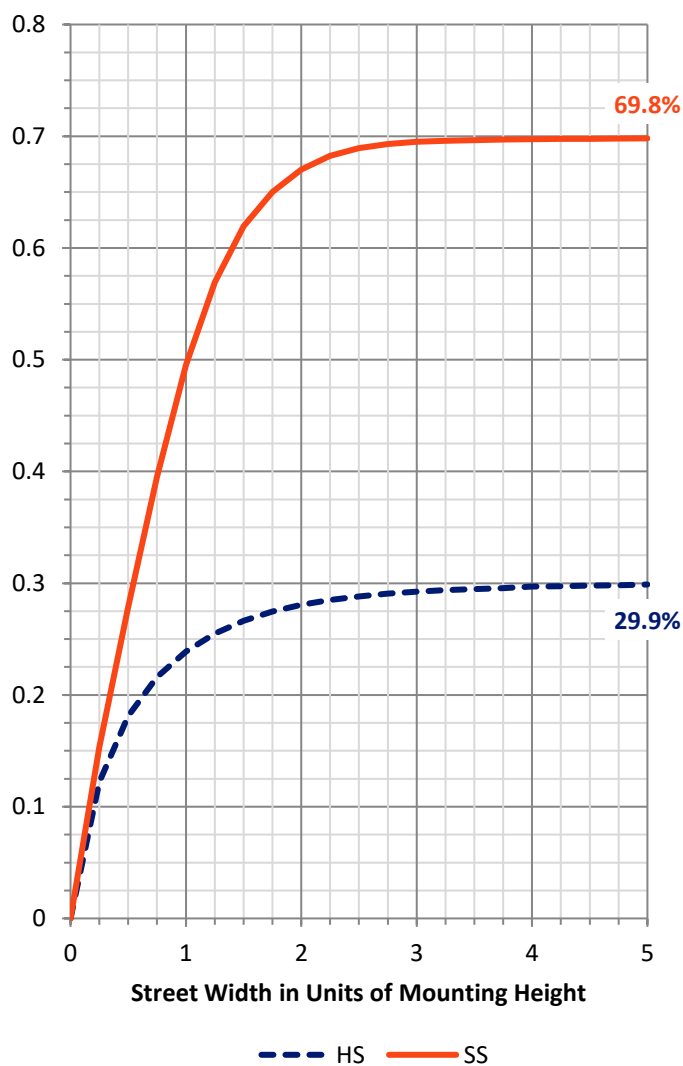
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7151.2   | 0.0    | 7151.2  |
|                    | % Fixture | 30.1     | 0.0    | 30.1    |
| <b>Street Side</b> | Lumens    | 16570.8  | 0.0    | 16570.8 |
|                    | % Fixture | 69.9     | 0.0    | 69.9    |
| <b>Total</b>       | Lumens    | 23722.0  | 0.0    | 23722.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 803.2   | 3.4       |
| 10°-20°   | 1741.2  | 7.3       |
| 20°-30°   | 2630.8  | 11.1      |
| 30°-40°   | 3801.6  | 16.0      |
| 40°-50°   | 5059.3  | 21.3      |
| 50°-60°   | 5659.0  | 23.9      |
| 60°-70°   | 3189.4  | 13.4      |
| 70°-80°   | 710.9   | 3.0       |
| 80°-90°   | 126.6   | 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°    | 23722.0 | 100.0     |
| 0°-180°   | 23722.0 | 100.0     |

**Coefficient of Utilization**



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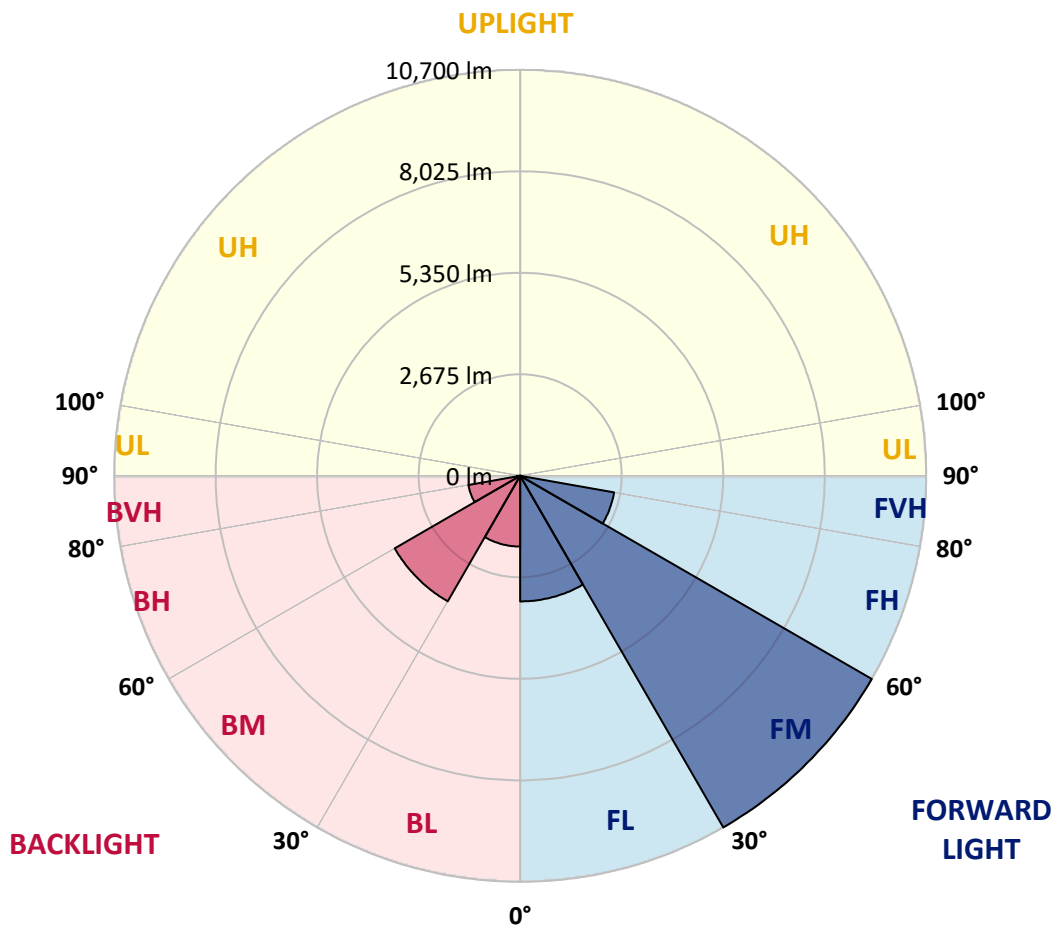
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3310.3  | 14.0      |                         |      |         |
| FM (30°-60°)   | 10700.4 | 45.1      |                         |      |         |
| FH (60°-80°)   | 2514.2  | 10.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 45.8    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1864.9  | 7.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 3819.4  | 16.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 1386.1  | 5.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 80.8    | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 |
| 2.5°  | 10703.3 | 10875.2 | 10689.6 | 10359.5 | 10125.7 | 9912.5  | 9689.0  | 9644.3  | 9352.1  | 9300.5  | 9087.3  |
| 5°    | 10094.7 | 10056.9 | 9830.0  | 9396.8  | 8918.9  | 8485.6  | 8165.9  | 7856.4  | 7646.7  | 7402.6  | 7385.4  |
| 7.5°  | 9355.5  | 9135.5  | 9004.8  | 8348.1  | 7756.7  | 7076.0  | 6783.7  | 6312.7  | 6164.8  | 5944.8  | 5831.3  |
| 10°   | 8695.4  | 8533.8  | 8227.8  | 7571.1  | 6745.9  | 6295.5  | 5982.6  | 5728.2  | 5556.2  | 5329.3  | 5043.9  |
| 12.5° | 8368.7  | 8303.4  | 7959.6  | 6941.9  | 6329.8  | 5848.5  | 5628.4  | 5380.9  | 5088.6  | 4724.2  | 4583.2  |
| 15°   | 8427.2  | 8207.1  | 7945.8  | 6821.5  | 5975.7  | 5511.5  | 5160.8  | 4851.4  | 4476.6  | 4129.4  | 3926.5  |
| 17.5° | 8863.8  | 8695.4  | 8172.8  | 6897.2  | 5841.6  | 5171.2  | 4535.1  | 4077.8  | 3740.8  | 3428.0  | 3287.0  |
| 20°   | 9723.4  | 9479.3  | 8891.4  | 6993.4  | 5552.8  | 4696.7  | 3967.8  | 3403.9  | 3042.9  | 2877.8  | 2829.7  |
| 22.5° | 10675.8 | 10531.4 | 9592.8  | 7210.0  | 5322.4  | 4256.6  | 3366.1  | 2802.2  | 2668.1  | 2623.4  | 2712.8  |
| 25°   | 11834.5 | 11459.7 | 10682.7 | 7564.2  | 5143.6  | 3881.8  | 2857.2  | 2544.3  | 2475.6  | 2520.2  | 2623.4  |
| 27.5° | 12714.7 | 12615.0 | 11446.0 | 7897.7  | 4899.5  | 3431.4  | 2571.8  | 2365.5  | 2386.2  | 2430.9  | 2527.1  |
| 30°   | 13759.9 | 13254.5 | 12185.2 | 8128.1  | 4679.5  | 3121.9  | 2372.4  | 2317.4  | 2338.0  | 2413.7  | 2461.8  |
| 32.5° | 14389.1 | 14200.0 | 12649.4 | 8475.3  | 4425.0  | 2853.8  | 2217.7  | 2166.1  | 2197.1  | 2310.5  | 2424.0  |
| 35°   | 15190.3 | 14815.5 | 13223.6 | 8564.7  | 4246.3  | 2747.2  | 2107.7  | 2069.8  | 2142.0  | 2221.1  | 2348.3  |
| 37.5° | 16125.5 | 15867.6 | 14017.8 | 8502.8  | 4150.0  | 2637.1  | 2014.8  | 1997.6  | 2049.2  | 2159.2  | 2307.1  |
| 40°   | 16679.0 | 16599.9 | 14433.8 | 8540.7  | 3998.7  | 2540.9  | 1908.2  | 1928.9  | 2035.5  | 2121.4  | 2265.8  |
| 42.5° | 17212.0 | 16696.2 | 15049.3 | 8526.9  | 3902.4  | 2410.2  | 1918.6  | 1894.5  | 1977.0  | 2076.7  | 2214.2  |
| 45°   | 17328.9 | 16816.6 | 15193.7 | 8430.6  | 3785.5  | 2283.0  | 1839.5  | 1849.8  | 1949.5  | 2073.3  | 2162.7  |
| 47.5° | 17253.2 | 16875.0 | 15461.9 | 8403.1  | 3675.5  | 2193.6  | 1722.6  | 1846.3  | 1904.8  | 2004.5  | 2131.7  |
| 50°   | 17201.6 | 17181.0 | 15688.8 | 8533.8  | 3527.7  | 2052.6  | 1581.6  | 1801.7  | 1860.1  | 1959.8  | 2097.3  |
| 52.5° | 17655.5 | 17610.8 | 16256.1 | 8877.6  | 3410.8  | 1901.4  | 1437.2  | 1688.2  | 1829.2  | 1925.4  | 2059.5  |
| 55°   | 17930.6 | 17734.6 | 17229.1 | 9300.5  | 3214.8  | 1701.9  | 1337.5  | 1547.2  | 1753.5  | 1839.5  | 1977.0  |
| 57.5° | 16128.9 | 15994.8 | 15585.7 | 8681.6  | 2884.7  | 1440.6  | 1213.7  | 1402.8  | 1650.4  | 1784.5  | 1925.4  |
| 60°   | 13419.6 | 13209.8 | 12161.1 | 7378.5  | 2128.3  | 1120.9  | 1138.1  | 1289.3  | 1622.9  | 1674.4  | 1839.5  |
| 62.5° | 12652.8 | 12133.6 | 10706.8 | 5937.9  | 1633.2  | 962.7   | 1021.2  | 1186.2  | 1478.5  | 1564.4  | 1729.4  |
| 65°   | 10039.7 | 9654.6  | 7660.5  | 4287.5  | 1093.4  | 835.5   | 931.8   | 1069.3  | 1275.6  | 1444.1  | 1595.4  |
| 67.5° | 6285.1  | 5917.3  | 4088.1  | 2028.6  | 763.3   | 715.2   | 832.1   | 976.5   | 1144.9  | 1296.2  | 1464.7  |
| 70°   | 3283.5  | 2881.3  | 1887.6  | 732.4   | 526.1   | 584.5   | 694.5   | 832.1   | 997.1   | 1120.9  | 1251.5  |
| 72.5° | 1224.0  | 993.7   | 615.4   | 316.3   | 364.5   | 447.0   | 563.9   | 663.6   | 780.5   | 931.8   | 1004.0  |
| 75°   | 189.1   | 161.6   | 158.2   | 192.5   | 247.6   | 323.2   | 402.3   | 502.0   | 605.1   | 701.4   | 749.5   |
| 77.5° | 89.4    | 86.0    | 96.3    | 127.2   | 165.0   | 230.4   | 292.3   | 388.5   | 471.0   | 532.9   | 560.4   |
| 80°   | 58.5    | 55.0    | 61.9    | 86.0    | 123.8   | 171.9   | 233.8   | 299.1   | 374.8   | 426.3   | 419.5   |
| 82.5° | 34.4    | 37.8    | 37.8    | 58.5    | 86.0    | 123.8   | 168.5   | 226.9   | 278.5   | 323.2   | 295.7   |
| 85°   | 20.6    | 17.2    | 17.2    | 34.4    | 58.5    | 99.7    | 141.0   | 96.3    | 99.7    | 99.7    | 113.5   |
| 87.5° | 6.9     | 6.9     | 6.9     | 3.4     | 6.9     | 6.9     | 10.3    | 17.2    | 20.6    | 24.1    | 30.9    |
| 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°    | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 |
| 2.5°  | 9080.5  | 9187.0  | 9149.2  | 9015.1  | 9118.3  | 9135.5  | 9066.7  | 9303.9  | 9348.6  | 9276.4  | 9297.1  |
| 5°    | 7361.3  | 7388.8  | 7450.7  | 7581.4  | 7674.2  | 7784.2  | 7784.2  | 7791.1  | 7698.3  | 7932.1  | 7863.3  |
| 7.5°  | 5735.0  | 5752.2  | 5824.4  | 6102.9  | 6182.0  | 6391.7  | 6481.1  | 6419.2  | 6233.6  | 6154.5  | 6219.8  |
| 10°   | 4951.1  | 4851.4  | 4827.3  | 4861.7  | 5040.5  | 5129.9  | 5205.5  | 5184.9  | 5154.0  | 5092.1  | 5023.3  |
| 12.5° | 4428.5  | 4356.3  | 4297.8  | 4215.3  | 4225.6  | 4311.6  | 4370.0  | 4321.9  | 4335.7  | 4349.4  | 4370.0  |
| 15°   | 3861.2  | 3809.6  | 3778.7  | 3654.9  | 3641.1  | 3699.6  | 3720.2  | 3747.7  | 3799.3  | 3802.7  | 3778.7  |
| 17.5° | 3259.5  | 3214.8  | 3283.5  | 3352.3  | 3304.2  | 3307.6  | 3345.4  | 3369.5  | 3355.7  | 3293.9  | 3262.9  |
| 20°   | 2846.9  | 2895.0  | 2963.8  | 3029.1  | 3080.7  | 3111.6  | 3125.4  | 3087.6  | 3042.9  | 2915.6  | 2912.2  |
| 22.5° | 2726.5  | 2788.4  | 2846.9  | 2946.6  | 2994.7  | 3073.8  | 3001.6  | 2915.6  | 2853.8  | 2791.9  | 2719.7  |
| 25°   | 2637.1  | 2688.7  | 2805.6  | 2843.4  | 2936.3  | 3001.6  | 2950.0  | 2864.1  | 2757.5  | 2668.1  | 2613.1  |
| 27.5° | 2571.8  | 2630.3  | 2705.9  | 2809.1  | 2881.3  | 2919.1  | 2867.5  | 2833.1  | 2723.1  | 2616.5  | 2537.4  |
| 30°   | 2530.6  | 2592.5  | 2730.0  | 2815.9  | 2877.8  | 2908.8  | 2819.4  | 2778.1  | 2699.0  | 2609.6  | 2540.9  |
| 32.5° | 2503.1  | 2558.1  | 2675.0  | 2785.0  | 2826.3  | 2826.3  | 2840.0  | 2791.9  | 2681.8  | 2530.6  | 2472.1  |
| 35°   | 2413.7  | 2489.3  | 2585.6  | 2712.8  | 2788.4  | 2833.1  | 2764.4  | 2709.4  | 2637.1  | 2482.4  | 2375.8  |
| 37.5° | 2362.1  | 2413.7  | 2537.4  | 2657.8  | 2723.1  | 2771.2  | 2743.7  | 2647.5  | 2551.2  | 2424.0  | 2338.0  |
| 40°   | 2307.1  | 2389.6  | 2499.6  | 2613.1  | 2685.3  | 2733.4  | 2712.8  | 2599.3  | 2482.4  | 2362.1  | 2303.6  |
| 42.5° | 2269.3  | 2324.3  | 2437.7  | 2564.9  | 2650.9  | 2743.7  | 2681.8  | 2540.9  | 2458.4  | 2293.3  | 2228.0  |
| 45°   | 2238.3  | 2327.7  | 2448.0  | 2499.6  | 2589.0  | 2685.3  | 2575.3  | 2489.3  | 2393.0  | 2272.7  | 2217.7  |
| 47.5° | 2200.5  | 2283.0  | 2362.1  | 2499.6  | 2540.9  | 2585.6  | 2564.9  | 2427.4  | 2344.9  | 2214.2  | 2176.4  |
| 50°   | 2186.7  | 2217.7  | 2362.1  | 2437.7  | 2496.2  | 2540.9  | 2485.9  | 2382.7  | 2303.6  | 2169.5  | 2087.0  |
| 52.5° | 2131.7  | 2190.2  | 2283.0  | 2382.7  | 2454.9  | 2509.9  | 2420.5  | 2355.2  | 2248.6  | 2107.7  | 2056.1  |
| 55°   | 2063.0  | 2097.3  | 2262.4  | 2365.5  | 2403.3  | 2441.2  | 2406.8  | 2300.2  | 2190.2  | 2045.8  | 1994.2  |
| 57.5° | 1973.6  | 2052.6  | 2186.7  | 2331.1  | 2379.3  | 2399.9  | 2344.9  | 2258.9  | 2121.4  | 1994.2  | 1911.7  |
| 60°   | 1880.7  | 1963.2  | 2111.1  | 2228.0  | 2276.1  | 2351.8  | 2269.3  | 2217.7  | 2059.5  | 1918.6  | 1829.2  |
| 62.5° | 1787.9  | 1880.7  | 1990.8  | 2138.6  | 2179.9  | 2210.8  | 2190.2  | 2118.0  | 1990.8  | 1832.6  | 1722.6  |
| 65°   | 1677.9  | 1746.6  | 1884.2  | 1959.8  | 1987.3  | 2059.5  | 1987.3  | 1959.8  | 1846.3  | 1695.1  | 1602.2  |
| 67.5° | 1512.8  | 1571.3  | 1691.6  | 1763.8  | 1784.5  | 1815.4  | 1812.0  | 1781.0  | 1653.8  | 1550.7  | 1468.1  |
| 70°   | 1323.7  | 1375.3  | 1450.9  | 1536.9  | 1547.2  | 1585.0  | 1550.7  | 1543.8  | 1461.3  | 1320.3  | 1275.6  |
| 72.5° | 1062.4  | 1110.6  | 1210.3  | 1248.1  | 1251.5  | 1265.3  | 1248.1  | 1224.0  | 1203.4  | 1055.5  | 1010.9  |
| 75°   | 814.9   | 842.4   | 890.5   | 924.9   | 924.9   | 942.1   | 931.8   | 907.7   | 852.7   | 759.9   | 715.2   |
| 77.5° | 567.3   | 594.8   | 656.7   | 677.3   | 673.9   | 680.8   | 649.8   | 625.8   | 543.2   | 495.1   | 457.3   |
| 80°   | 412.6   | 429.8   | 460.7   | 474.5   | 477.9   | 488.2   | 450.4   | 429.8   | 381.6   | 326.6   | 309.4   |
| 82.5° | 299.1   | 309.4   | 312.9   | 330.1   | 330.1   | 312.9   | 302.6   | 281.9   | 247.6   | 213.2   | 199.4   |
| 85°   | 123.8   | 127.2   | 130.7   | 151.3   | 154.7   | 185.7   | 171.9   | 161.6   | 141.0   | 120.3   | 110.0   |
| 87.5° | 30.9    | 34.4    | 44.7    | 37.8    | 44.7    | 44.7    | 48.1    | 55.0    | 55.0    | 44.7    | 44.7    |
| 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°    | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 |
| 2.5°  | 9376.2  | 9403.7  | 9754.4  | 9799.1  | 9971.0  | 10146.3 | 10500.5 | 10754.9 | 10961.2 | 11095.3 | 11133.1 |
| 5°    | 7935.5  | 8110.9  | 8272.5  | 8533.8  | 8771.0  | 9108.0  | 9496.5  | 9977.8  | 10583.0 | 10892.4 | 11016.2 |
| 7.5°  | 6212.9  | 6419.2  | 6653.0  | 6907.5  | 7254.7  | 7859.9  | 8379.1  | 8936.1  | 9709.7  | 10029.4 | 10514.2 |
| 10°   | 5071.4  | 5301.8  | 5611.2  | 5807.2  | 6226.7  | 6804.3  | 7409.5  | 8052.4  | 8791.6  | 9252.4  | 9812.8  |
| 12.5° | 4483.5  | 4672.6  | 4958.0  | 5370.6  | 5683.5  | 6058.2  | 6508.6  | 7320.1  | 8379.1  | 8815.7  | 9200.8  |
| 15°   | 3833.7  | 4043.4  | 4373.5  | 4830.8  | 5205.5  | 5652.5  | 6157.9  | 7041.6  | 8169.3  | 8843.2  | 9169.9  |
| 17.5° | 3297.3  | 3448.6  | 3795.8  | 4191.2  | 4621.0  | 5109.3  | 5834.7  | 7027.8  | 8389.4  | 9252.4  | 9785.3  |
| 20°   | 2926.0  | 2946.6  | 3135.7  | 3472.6  | 4057.2  | 4693.2  | 5635.3  | 6959.0  | 9094.2  | 9957.2  | 10631.1 |
| 22.5° | 2692.2  | 2671.5  | 2675.0  | 2960.3  | 3369.5  | 4284.1  | 5322.4  | 7192.9  | 9895.3  | 11078.1 | 11531.9 |
| 25°   | 2575.3  | 2520.2  | 2485.9  | 2547.8  | 2919.1  | 3799.3  | 5085.2  | 7502.3  | 10758.3 | 12003.0 | 12560.0 |
| 27.5° | 2513.4  | 2417.1  | 2348.3  | 2358.7  | 2630.3  | 3555.2  | 4937.3  | 7636.4  | 11614.5 | 13292.3 | 13488.3 |
| 30°   | 2489.3  | 2369.0  | 2269.3  | 2234.9  | 2413.7  | 3214.8  | 4621.0  | 7866.8  | 12381.2 | 14000.6 | 14169.1 |
| 32.5° | 2403.3  | 2255.5  | 2159.2  | 2128.3  | 2200.5  | 2915.6  | 4394.1  | 8031.8  | 13058.5 | 14770.8 | 14712.3 |
| 35°   | 2303.6  | 2179.9  | 2059.5  | 2001.1  | 2052.6  | 2723.1  | 4211.9  | 7952.7  | 13856.2 | 15369.0 | 15338.1 |
| 37.5° | 2293.3  | 2131.7  | 2032.0  | 1935.7  | 1932.3  | 2485.9  | 3964.3  | 8028.4  | 14365.1 | 16441.8 | 16018.9 |
| 40°   | 2203.9  | 2100.8  | 1970.1  | 1891.0  | 1846.3  | 2365.5  | 3723.6  | 7849.6  | 15111.2 | 16875.0 | 16459.0 |
| 42.5° | 2207.4  | 2052.6  | 1939.2  | 1846.3  | 1801.7  | 2190.2  | 3558.6  | 7801.4  | 15372.5 | 17579.9 | 16665.3 |
| 45°   | 2152.4  | 2001.1  | 1904.8  | 1794.8  | 1770.7  | 2056.1  | 3400.4  | 7577.9  | 15833.2 | 17614.2 | 16407.4 |
| 47.5° | 2097.3  | 1963.2  | 1860.1  | 1729.4  | 1674.4  | 2007.9  | 3276.7  | 7392.3  | 15592.5 | 17291.0 | 16049.8 |
| 50°   | 2059.5  | 1904.8  | 1808.5  | 1715.7  | 1561.0  | 1925.4  | 3115.1  | 7347.6  | 15255.6 | 16854.4 | 15386.2 |
| 52.5° | 1994.2  | 1856.7  | 1757.0  | 1684.8  | 1437.2  | 1849.8  | 3053.2  | 7608.9  | 15668.2 | 16527.7 | 15193.7 |
| 55°   | 1932.3  | 1791.3  | 1664.1  | 1523.2  | 1334.0  | 1650.4  | 2881.3  | 7853.0  | 16269.9 | 17280.7 | 16067.0 |
| 57.5° | 1867.0  | 1732.9  | 1595.4  | 1426.9  | 1234.3  | 1444.1  | 2702.5  | 7897.7  | 15142.1 | 15970.7 | 15252.1 |
| 60°   | 1781.0  | 1609.1  | 1506.0  | 1285.9  | 1127.8  | 1196.5  | 2142.0  | 6962.5  | 11745.1 | 13337.0 | 13361.1 |
| 62.5° | 1684.8  | 1499.1  | 1409.7  | 1151.8  | 1017.7  | 1031.5  | 1746.6  | 5851.9  | 9527.4  | 11040.3 | 11697.0 |
| 65°   | 1557.5  | 1378.7  | 1272.2  | 1065.9  | 938.6   | 893.9   | 1279.0  | 4287.5  | 7237.5  | 8956.7  | 9702.8  |
| 67.5° | 1392.5  | 1224.0  | 1089.9  | 928.3   | 838.9   | 766.7   | 873.3   | 2413.7  | 4273.8  | 6013.5  | 6240.5  |
| 70°   | 1217.1  | 1072.7  | 931.8   | 797.7   | 698.0   | 646.4   | 639.5   | 1069.3  | 2042.3  | 3235.4  | 3682.4  |
| 72.5° | 959.3   | 856.1   | 742.7   | 643.0   | 577.6   | 502.0   | 457.3   | 443.5   | 691.1   | 1316.9  | 1818.8  |
| 75°   | 687.7   | 601.7   | 536.4   | 471.0   | 422.9   | 381.6   | 347.3   | 316.3   | 288.8   | 330.1   | 453.9   |
| 77.5° | 433.2   | 402.3   | 350.7   | 333.5   | 306.0   | 295.7   | 281.9   | 264.7   | 244.1   | 230.4   | 230.4   |
| 80°   | 292.3   | 271.6   | 254.4   | 251.0   | 240.7   | 237.2   | 240.7   | 223.5   | 202.9   | 185.7   | 192.5   |
| 82.5° | 196.0   | 192.5   | 189.1   | 185.7   | 189.1   | 192.5   | 199.4   | 196.0   | 178.8   | 168.5   | 171.9   |
| 85°   | 116.9   | 123.8   | 130.7   | 137.5   | 151.3   | 134.1   | 110.0   | 92.8    | 82.5    | 75.6    | 72.2    |
| 87.5° | 44.7    | 61.9    | 55.0    | 51.6    | 55.0    | 51.6    | 48.1    | 44.7    | 37.8    | 34.4    | 34.4    |
| 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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|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 | 10528.0 |
| 2.5°  | 11384.1 | 11452.9 | 11511.3 | 11497.6 | 11377.2 | 11215.6 | 11150.3 | 10816.8 | 10748.0 | 10703.3 |
| 5°    | 11538.8 | 11937.7 | 12023.6 | 11972.0 | 11659.2 | 11263.8 | 10878.7 | 10390.4 | 10105.1 | 10094.7 |
| 7.5°  | 11253.4 | 11745.1 | 11899.8 | 12016.7 | 11600.7 | 10913.1 | 10252.9 | 9520.6  | 9341.8  | 9355.5  |
| 10°   | 10528.0 | 11311.9 | 11693.5 | 11813.9 | 11336.0 | 10741.1 | 9826.6  | 9083.9  | 8702.3  | 8695.4  |
| 12.5° | 10125.7 | 10741.1 | 10847.7 | 11016.2 | 10875.2 | 10273.5 | 9579.0  | 8746.9  | 8375.6  | 8368.7  |
| 15°   | 9768.1  | 10173.8 | 10204.8 | 10442.0 | 10517.7 | 10111.9 | 9644.3  | 8757.3  | 8458.1  | 8427.2  |
| 17.5° | 10081.0 | 9799.1  | 9682.2  | 9713.1  | 9936.6  | 10084.4 | 10022.5 | 9341.8  | 9035.8  | 8863.8  |
| 20°   | 10290.7 | 9661.5  | 9307.4  | 9341.8  | 9606.5  | 10146.3 | 10586.4 | 10187.6 | 9702.8  | 9723.4  |
| 22.5° | 10851.2 | 9682.2  | 9128.6  | 9090.8  | 9510.2  | 10469.5 | 11222.5 | 11256.9 | 10789.3 | 10675.8 |
| 25°   | 11690.1 | 9919.4  | 9073.6  | 9063.3  | 9465.5  | 10816.8 | 11965.2 | 12522.2 | 12044.2 | 11834.5 |
| 27.5° | 12364.0 | 10290.7 | 9245.5  | 9279.9  | 9606.5  | 11098.7 | 12597.8 | 13337.0 | 12972.6 | 12714.7 |
| 30°   | 12955.4 | 10675.8 | 9486.2  | 9328.0  | 9984.7  | 11246.6 | 12869.4 | 14265.4 | 13973.1 | 13759.9 |
| 32.5° | 13199.5 | 11222.5 | 9867.8  | 9606.5  | 10297.6 | 11425.4 | 13433.3 | 15166.2 | 14915.2 | 14389.1 |
| 35°   | 13612.1 | 11528.5 | 10074.1 | 10053.5 | 10844.3 | 11855.1 | 13698.1 | 15761.0 | 15657.9 | 15190.3 |
| 37.5° | 13942.2 | 11837.9 | 10806.5 | 10579.5 | 11593.8 | 12577.2 | 14124.4 | 16582.8 | 16345.5 | 16125.5 |
| 40°   | 14196.6 | 12391.5 | 11490.7 | 11789.8 | 12515.3 | 13233.9 | 14516.4 | 16634.3 | 17318.5 | 16679.0 |
| 42.5° | 13962.8 | 12886.6 | 12615.0 | 13330.2 | 14017.8 | 13983.4 | 14561.1 | 17033.2 | 17545.5 | 17212.0 |
| 45°   | 13904.3 | 13725.6 | 14392.6 | 15042.4 | 15200.6 | 14605.8 | 14241.3 | 16593.1 | 17476.7 | 17328.9 |
| 47.5° | 13763.4 | 14550.7 | 15712.9 | 16771.9 | 16531.2 | 15021.8 | 13859.6 | 16514.0 | 17518.0 | 17253.2 |
| 50°   | 13715.2 | 14729.5 | 16689.3 | 17720.8 | 17576.4 | 15382.8 | 13680.9 | 16005.1 | 17225.7 | 17201.6 |
| 52.5° | 13711.8 | 15097.4 | 17095.1 | 18236.6 | 18326.0 | 15953.6 | 13925.0 | 16263.0 | 17452.6 | 17655.5 |
| 55°   | 13866.5 | 14980.5 | 17043.5 | 17951.2 | 17916.8 | 15699.1 | 13952.5 | 16434.9 | 17731.1 | 17930.6 |
| 57.5° | 13079.2 | 13419.6 | 14065.9 | 14784.5 | 14598.9 | 13003.5 | 12460.3 | 15193.7 | 16273.3 | 16128.9 |
| 60°   | 11294.7 | 10228.8 | 9499.9  | 9465.5  | 9104.5  | 8606.0  | 10197.9 | 13560.5 | 13560.5 | 13419.6 |
| 62.5° | 9891.9  | 6714.9  | 5769.4  | 5501.2  | 5759.1  | 6333.3  | 9836.9  | 13189.2 | 12814.4 | 12652.8 |
| 65°   | 8650.7  | 5126.5  | 4170.6  | 4095.0  | 4541.9  | 5408.4  | 8894.8  | 11236.3 | 10576.1 | 10039.7 |
| 67.5° | 5566.6  | 3754.6  | 3101.3  | 2967.2  | 3507.0  | 3971.2  | 5920.7  | 6910.9  | 6494.9  | 6285.1  |
| 70°   | 3589.5  | 2444.6  | 1726.0  | 1619.4  | 1829.2  | 2448.0  | 3782.1  | 4029.6  | 3424.5  | 3283.5  |
| 72.5° | 1698.5  | 1055.5  | 605.1   | 498.5   | 560.4   | 935.2   | 1495.6  | 1609.1  | 1337.5  | 1224.0  |
| 75°   | 539.8   | 388.5   | 247.6   | 213.2   | 202.9   | 240.7   | 343.8   | 264.7   | 192.5   | 189.1   |
| 77.5° | 240.7   | 230.4   | 196.0   | 165.0   | 144.4   | 120.3   | 99.7    | 82.5    | 86.0    | 89.4    |
| 80°   | 199.4   | 182.2   | 161.6   | 144.4   | 120.3   | 92.8    | 72.2    | 55.0    | 55.0    | 58.5    |
| 82.5° | 175.4   | 158.2   | 141.0   | 120.3   | 103.1   | 75.6    | 55.0    | 37.8    | 34.4    | 34.4    |
| 85°   | 75.6    | 89.4    | 96.3    | 103.1   | 82.5    | 61.9    | 37.8    | 24.1    | 20.6    | 20.6    |
| 87.5° | 30.9    | 27.5    | 24.1    | 20.6    | 17.2    | 17.2    | 13.8    | 10.3    | 6.9     | 6.9     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)