

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: P650914

Luminaire Tested: **GALN-SA5C-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650914  
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-SA5C-840-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA 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: 22051.8 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 269  
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

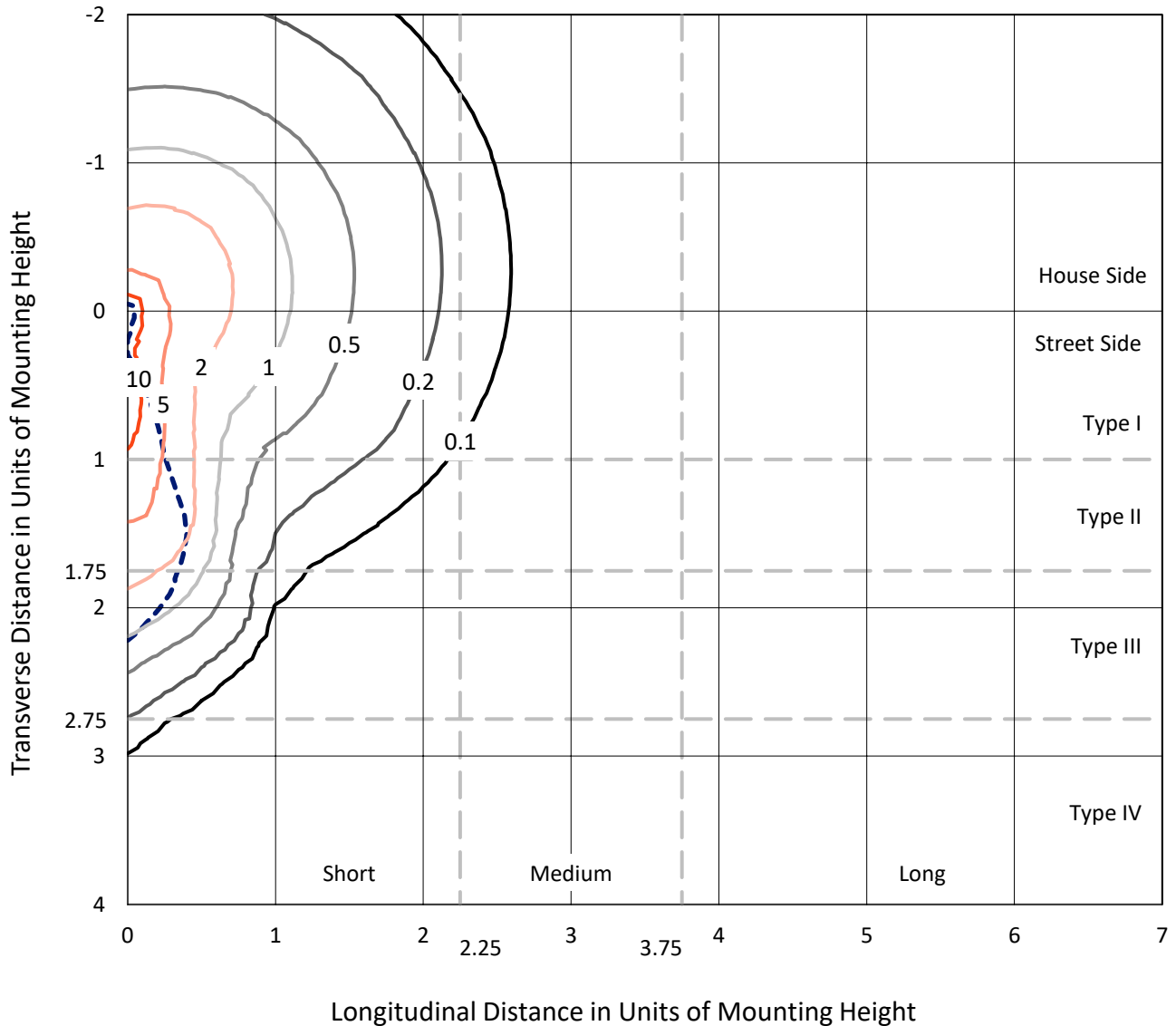




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### Iso-Footcandle Lines of Horizontal Illumination

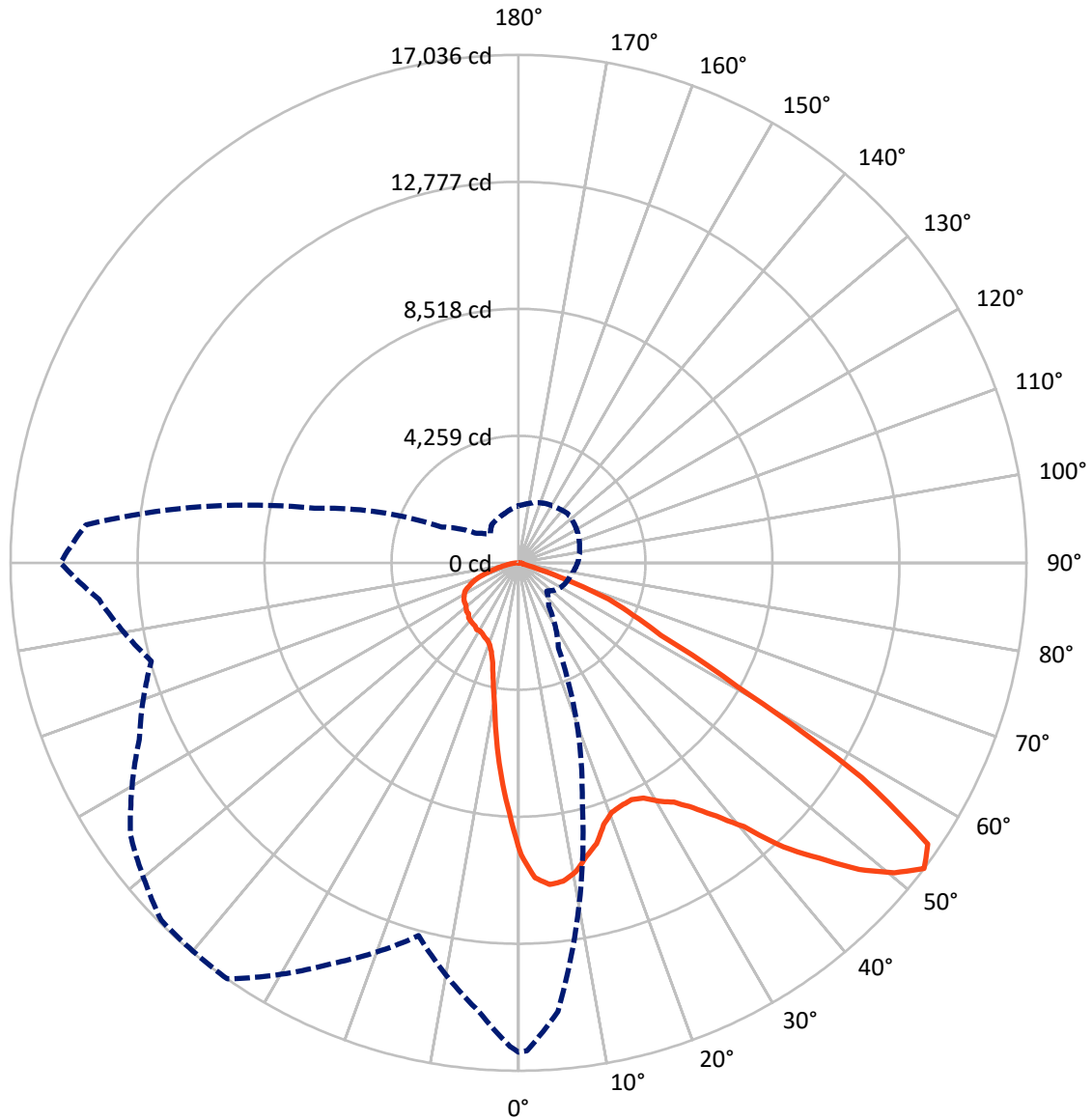
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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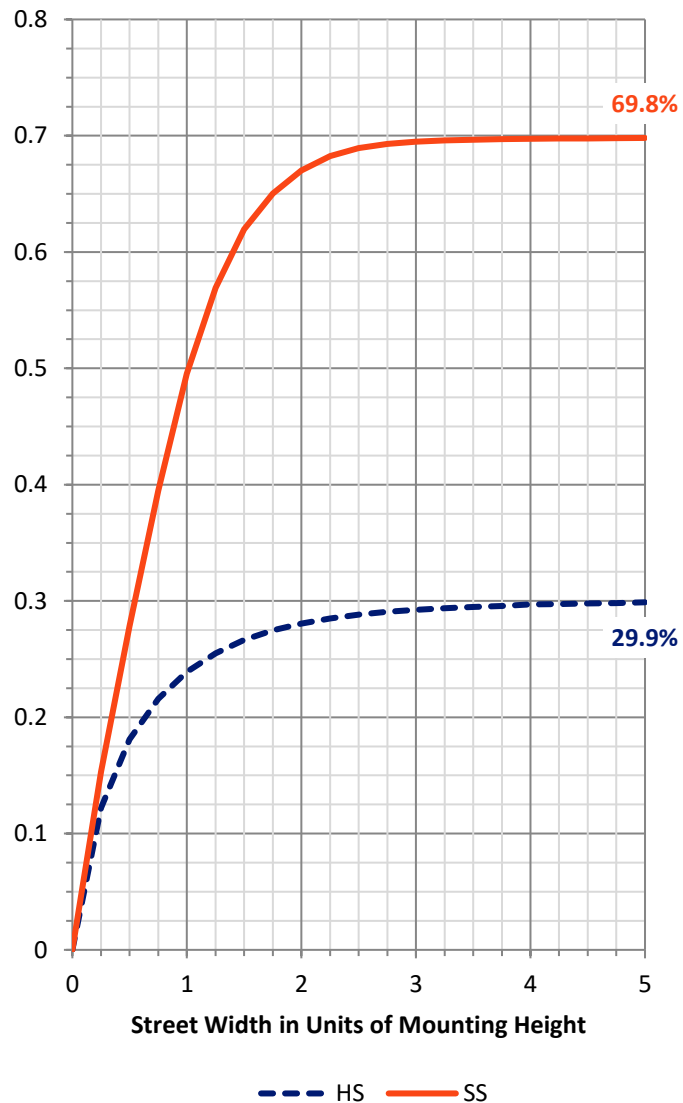
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6647.7   | 0.0    | 6647.7  |
|                    | % Fixture | 30.1     | 0.0    | 30.1    |
| <b>Street Side</b> | Lumens    | 15404.1  | 0.0    | 15404.1 |
|                    | % Fixture | 69.9     | 0.0    | 69.9    |
| <b>Total</b>       | Lumens    | 22051.8  | 0.0    | 22051.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 746.6   | 3.4       |
| 10°-20°   | 1618.6  | 7.3       |
| 20°-30°   | 2445.6  | 11.1      |
| 30°-40°   | 3534.0  | 16.0      |
| 40°-50°   | 4703.1  | 21.3      |
| 50°-60°   | 5260.5  | 23.9      |
| 60°-70°   | 2964.8  | 13.4      |
| 70°-80°   | 660.9   | 3.0       |
| 80°-90°   | 117.7   | 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°    | 22051.8 | 100.0     |
| 0°-180°   | 22051.8 | 100.0     |

**Coefficient of Utilization**



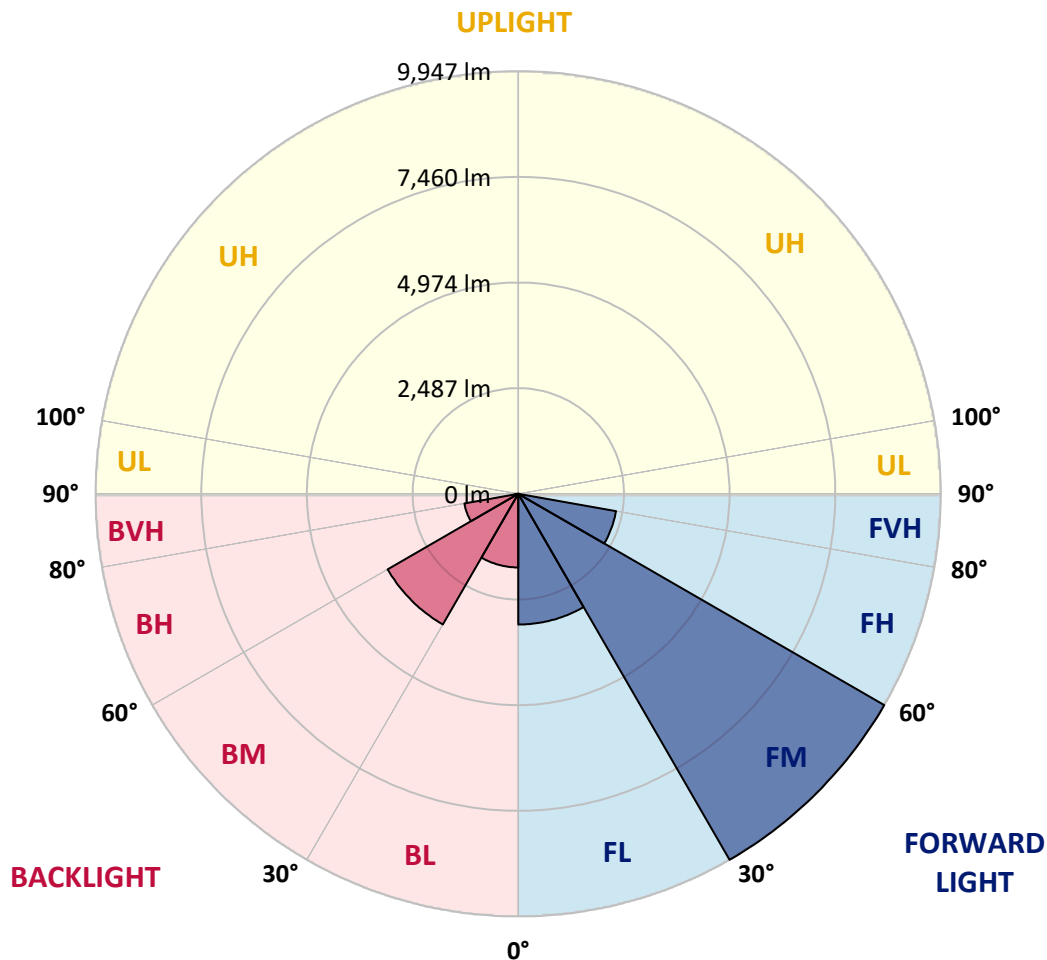
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 3077.3 | 14.0      |                         |      |         |
| FM (30°-60°)   | 9947.1 | 45.1      |                         |      |         |
| FH (60°-80°)   | 2337.2 | 10.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 42.6   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1733.6 | 7.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 3550.5 | 16.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 1288.5 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 75.1   | 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°    | 9786.7  | 9786.7  | 9786.7  | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 |
| 2.5°  | 9949.8  | 10109.6 | 9937.0  | 9630.1 | 9412.8 | 9214.7 | 9006.9 | 8965.3 | 8693.7 | 8645.7 | 8447.5 |
| 5°    | 9384.0  | 9348.9  | 9137.9  | 8735.2 | 8290.9 | 7888.2 | 7591.0 | 7303.3 | 7108.3 | 6881.4 | 6865.4 |
| 7.5°  | 8696.9  | 8492.3  | 8370.8  | 7760.3 | 7210.6 | 6577.8 | 6306.1 | 5868.2 | 5730.7 | 5526.2 | 5420.7 |
| 10°   | 8083.2  | 7933.0  | 7648.5  | 7038.0 | 6270.9 | 5852.3 | 5561.4 | 5324.9 | 5165.1 | 4954.1 | 4688.8 |
| 12.5° | 7779.5  | 7718.8  | 7399.2  | 6453.2 | 5884.2 | 5436.7 | 5232.2 | 5002.0 | 4730.4 | 4391.5 | 4260.5 |
| 15°   | 7833.9  | 7629.3  | 7386.4  | 6341.2 | 5555.0 | 5123.5 | 4797.5 | 4509.9 | 4161.4 | 3838.7 | 3650.0 |
| 17.5° | 8239.8  | 8083.2  | 7597.3  | 6411.5 | 5430.3 | 4807.1 | 4215.8 | 3790.7 | 3477.5 | 3186.6 | 3055.5 |
| 20°   | 9038.8  | 8811.9  | 8265.3  | 6501.1 | 5161.9 | 4366.0 | 3688.4 | 3164.3 | 2828.6 | 2675.2 | 2630.5 |
| 22.5° | 9924.2  | 9789.9  | 8917.4  | 6702.4 | 4947.7 | 3956.9 | 3129.1 | 2604.9 | 2480.3 | 2438.7 | 2521.8 |
| 25°   | 11001.3 | 10652.9 | 9930.6  | 7031.6 | 4781.5 | 3608.5 | 2656.0 | 2365.1 | 2301.2 | 2342.8 | 2438.7 |
| 27.5° | 11819.5 | 11726.8 | 10640.2 | 7341.7 | 4554.6 | 3189.8 | 2390.8 | 2199.0 | 2218.1 | 2259.7 | 2349.2 |
| 30°   | 12791.2 | 12321.3 | 11327.3 | 7555.8 | 4350.0 | 2902.1 | 2205.4 | 2154.2 | 2173.4 | 2243.7 | 2288.4 |
| 32.5° | 13376.1 | 13200.3 | 11758.8 | 7878.7 | 4113.5 | 2652.9 | 2061.5 | 2013.6 | 2042.4 | 2147.8 | 2253.3 |
| 35°   | 14120.8 | 13772.4 | 12292.6 | 7961.7 | 3947.3 | 2553.8 | 1959.3 | 1924.1 | 1991.2 | 2064.7 | 2183.0 |
| 37.5° | 14990.2 | 14750.5 | 13030.9 | 7904.2 | 3857.8 | 2451.5 | 1873.0 | 1857.0 | 1904.9 | 2007.2 | 2144.6 |
| 40°   | 15504.8 | 15431.3 | 13417.7 | 7939.4 | 3717.1 | 2361.9 | 1773.9 | 1793.1 | 1892.2 | 1972.1 | 2106.3 |
| 42.5° | 16000.2 | 15520.7 | 13989.8 | 7926.6 | 3627.7 | 2240.5 | 1783.5 | 1761.1 | 1837.8 | 1930.5 | 2058.3 |
| 45°   | 16108.9 | 15632.6 | 14124.0 | 7837.1 | 3519.0 | 2122.3 | 1710.0 | 1719.6 | 1812.3 | 1927.3 | 2010.4 |
| 47.5° | 16038.5 | 15686.9 | 14373.3 | 7811.5 | 3416.7 | 2039.2 | 1601.3 | 1716.4 | 1770.7 | 1863.4 | 1981.6 |
| 50°   | 15990.6 | 15971.4 | 14584.2 | 7933.0 | 3279.3 | 1908.1 | 1470.2 | 1674.8 | 1729.2 | 1821.9 | 1949.7 |
| 52.5° | 16412.5 | 16370.9 | 15111.6 | 8252.6 | 3170.7 | 1767.5 | 1336.0 | 1569.3 | 1700.4 | 1789.9 | 1914.5 |
| 55°   | 16668.2 | 16486.0 | 16016.2 | 8645.7 | 2988.4 | 1582.1 | 1243.3 | 1438.3 | 1630.0 | 1710.0 | 1837.8 |
| 57.5° | 14993.3 | 14868.7 | 14488.3 | 8070.4 | 2681.6 | 1339.2 | 1128.3 | 1304.1 | 1534.2 | 1658.8 | 1789.9 |
| 60°   | 12474.7 | 12279.8 | 11305.0 | 6859.0 | 1978.5 | 1042.0 | 1058.0 | 1198.6 | 1508.6 | 1556.5 | 1710.0 |
| 62.5° | 11762.0 | 11279.4 | 9953.0  | 5519.8 | 1518.2 | 894.9  | 949.2  | 1102.7 | 1374.4 | 1454.3 | 1607.7 |
| 65°   | 9332.9  | 8974.9  | 7121.1  | 3985.7 | 1016.3 | 776.7  | 866.1  | 994.0  | 1185.8 | 1342.4 | 1483.0 |
| 67.5° | 5842.7  | 5500.6  | 3800.3  | 1885.8 | 709.6  | 664.8  | 773.5  | 907.7  | 1064.4 | 1205.0 | 1361.6 |
| 70°   | 3052.3  | 2678.4  | 1754.7  | 680.8  | 489.0  | 543.4  | 645.6  | 773.5  | 926.9  | 1042.0 | 1163.4 |
| 72.5° | 1137.9  | 923.7   | 572.1   | 294.0  | 338.8  | 415.5  | 524.2  | 616.9  | 725.5  | 866.1  | 933.3  |
| 75°   | 175.8   | 150.2   | 147.0   | 179.0  | 230.1  | 300.4  | 374.0  | 466.7  | 562.5  | 652.0  | 696.8  |
| 77.5° | 83.1    | 79.9    | 89.5    | 118.2  | 153.4  | 214.1  | 271.6  | 361.2  | 437.9  | 495.4  | 521.0  |
| 80°   | 54.3    | 51.1    | 57.5    | 79.9   | 115.0  | 159.8  | 217.3  | 278.0  | 348.4  | 396.4  | 390.0  |
| 82.5° | 32.0    | 35.2    | 35.2    | 54.3   | 79.9   | 115.0  | 156.6  | 210.9  | 258.9  | 300.4  | 274.8  |
| 85°   | 19.2    | 16.0    | 16.0    | 32.0   | 54.3   | 92.7   | 131.0  | 89.5   | 92.7   | 92.7   | 105.5  |
| 87.5° | 6.4     | 6.4     | 6.4     | 3.2    | 6.4    | 6.4    | 9.6    | 16.0   | 19.2   | 22.4   | 28.8   |
| 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°    | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 |
| 2.5°  | 8441.1 | 8540.3 | 8505.1 | 8380.4 | 8476.3 | 8492.3 | 8428.3 | 8648.9 | 8690.5 | 8623.4 | 8642.5 |
| 5°    | 6843.0 | 6868.6 | 6926.1 | 7047.6 | 7134.0 | 7236.2 | 7236.2 | 7242.6 | 7156.3 | 7373.6 | 7309.7 |
| 7.5°  | 5331.3 | 5347.2 | 5414.4 | 5673.2 | 5746.7 | 5941.7 | 6024.8 | 5967.3 | 5794.7 | 5721.2 | 5782.0 |
| 10°   | 4602.5 | 4509.9 | 4487.5 | 4519.4 | 4685.6 | 4768.7 | 4839.0 | 4819.9 | 4791.1 | 4733.6 | 4669.7 |
| 12.5° | 4116.7 | 4049.6 | 3995.3 | 3918.6 | 3928.1 | 4008.0 | 4062.4 | 4017.6 | 4030.4 | 4043.2 | 4062.4 |
| 15°   | 3589.3 | 3541.4 | 3512.6 | 3397.6 | 3384.8 | 3439.1 | 3458.3 | 3483.8 | 3531.8 | 3535.0 | 3512.6 |
| 17.5° | 3030.0 | 2988.4 | 3052.3 | 3116.3 | 3071.6 | 3074.8 | 3109.9 | 3132.3 | 3119.5 | 3062.0 | 3033.2 |
| 20°   | 2646.5 | 2691.2 | 2755.1 | 2815.8 | 2863.8 | 2892.5 | 2905.3 | 2870.2 | 2828.6 | 2710.4 | 2707.2 |
| 22.5° | 2534.6 | 2592.1 | 2646.5 | 2739.1 | 2783.9 | 2857.4 | 2790.3 | 2710.4 | 2652.9 | 2595.3 | 2528.2 |
| 25°   | 2451.5 | 2499.5 | 2608.1 | 2643.3 | 2729.5 | 2790.3 | 2742.3 | 2662.4 | 2563.4 | 2480.3 | 2429.1 |
| 27.5° | 2390.8 | 2445.1 | 2515.4 | 2611.3 | 2678.4 | 2713.6 | 2665.6 | 2633.7 | 2531.4 | 2432.3 | 2358.8 |
| 30°   | 2352.4 | 2410.0 | 2537.8 | 2617.7 | 2675.2 | 2704.0 | 2620.9 | 2582.5 | 2509.0 | 2425.9 | 2361.9 |
| 32.5° | 2326.8 | 2378.0 | 2486.7 | 2588.9 | 2627.3 | 2627.3 | 2640.1 | 2595.3 | 2493.1 | 2352.4 | 2298.0 |
| 35°   | 2243.7 | 2314.0 | 2403.6 | 2521.8 | 2592.1 | 2633.7 | 2569.8 | 2518.6 | 2451.5 | 2307.6 | 2208.6 |
| 37.5° | 2195.8 | 2243.7 | 2358.8 | 2470.7 | 2531.4 | 2576.2 | 2550.6 | 2461.1 | 2371.5 | 2253.3 | 2173.4 |
| 40°   | 2144.6 | 2221.3 | 2323.6 | 2429.1 | 2496.3 | 2541.0 | 2521.8 | 2416.4 | 2307.6 | 2195.8 | 2141.4 |
| 42.5° | 2109.5 | 2160.6 | 2266.1 | 2384.4 | 2464.3 | 2550.6 | 2493.1 | 2361.9 | 2285.2 | 2131.9 | 2071.1 |
| 45°   | 2080.7 | 2163.8 | 2275.7 | 2323.6 | 2406.8 | 2496.3 | 2394.0 | 2314.0 | 2224.5 | 2112.7 | 2061.5 |
| 47.5° | 2045.6 | 2122.3 | 2195.8 | 2323.6 | 2361.9 | 2403.6 | 2384.4 | 2256.5 | 2179.8 | 2058.3 | 2023.2 |
| 50°   | 2032.8 | 2061.5 | 2195.8 | 2266.1 | 2320.4 | 2361.9 | 2310.8 | 2214.9 | 2141.4 | 2016.8 | 1940.1 |
| 52.5° | 1981.6 | 2036.0 | 2122.3 | 2214.9 | 2282.1 | 2333.2 | 2250.1 | 2189.4 | 2090.3 | 1959.3 | 1911.3 |
| 55°   | 1917.7 | 1949.7 | 2103.1 | 2199.0 | 2234.1 | 2269.3 | 2237.3 | 2138.2 | 2036.0 | 1901.8 | 1853.8 |
| 57.5° | 1834.6 | 1908.1 | 2032.8 | 2167.0 | 2211.7 | 2230.9 | 2179.8 | 2099.9 | 1972.1 | 1853.8 | 1777.1 |
| 60°   | 1748.4 | 1825.1 | 1962.5 | 2071.1 | 2115.9 | 2186.2 | 2109.5 | 2061.5 | 1914.5 | 1783.5 | 1700.4 |
| 62.5° | 1662.0 | 1748.4 | 1850.6 | 1988.0 | 2026.4 | 2055.2 | 2036.0 | 1968.9 | 1850.6 | 1703.6 | 1601.3 |
| 65°   | 1559.7 | 1623.6 | 1751.6 | 1821.9 | 1847.4 | 1914.5 | 1847.4 | 1821.9 | 1716.4 | 1575.7 | 1489.4 |
| 67.5° | 1406.3 | 1460.6 | 1572.5 | 1639.6 | 1658.8 | 1687.6 | 1684.4 | 1655.6 | 1537.3 | 1441.5 | 1364.8 |
| 70°   | 1230.6 | 1278.5 | 1348.8 | 1428.7 | 1438.3 | 1473.4 | 1441.5 | 1435.1 | 1358.4 | 1227.4 | 1185.8 |
| 72.5° | 987.6  | 1032.4 | 1125.1 | 1160.2 | 1163.4 | 1176.2 | 1160.2 | 1137.9 | 1118.7 | 981.2  | 939.6  |
| 75°   | 757.5  | 783.1  | 827.8  | 859.8  | 859.8  | 875.7  | 866.1  | 843.8  | 792.6  | 706.4  | 664.8  |
| 77.5° | 527.4  | 553.0  | 610.5  | 629.7  | 626.5  | 632.9  | 604.1  | 581.7  | 505.0  | 460.3  | 425.1  |
| 80°   | 383.6  | 399.6  | 428.3  | 441.1  | 444.3  | 453.9  | 418.7  | 399.6  | 354.8  | 303.6  | 287.6  |
| 82.5° | 278.0  | 287.6  | 290.8  | 306.8  | 306.8  | 290.8  | 281.2  | 262.1  | 230.1  | 198.1  | 185.4  |
| 85°   | 115.0  | 118.2  | 121.4  | 140.6  | 143.8  | 172.6  | 159.8  | 150.2  | 131.0  | 111.9  | 102.3  |
| 87.5° | 28.8   | 32.0   | 41.5   | 35.2   | 41.5   | 41.5   | 44.7   | 51.1   | 51.1   | 41.5   | 41.5   |
| 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°    | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7 | 9786.7  | 9786.7  | 9786.7  |
| 2.5°  | 8716.0 | 8741.6 | 9067.6 | 9109.1 | 9269.0 | 9432.0 | 9761.2 | 9997.7 | 10189.5 | 10314.1 | 10349.3 |
| 5°    | 7376.8 | 7539.8 | 7690.0 | 7933.0 | 8153.5 | 8466.7 | 8827.9 | 9275.4 | 9837.8  | 10125.6 | 10240.6 |
| 7.5°  | 5775.6 | 5967.3 | 6184.6 | 6421.1 | 6744.0 | 7306.5 | 7789.1 | 8306.9 | 9026.0  | 9323.3  | 9773.9  |
| 10°   | 4714.4 | 4928.5 | 5216.2 | 5398.4 | 5788.4 | 6325.2 | 6887.8 | 7485.5 | 8172.7  | 8601.0  | 9121.9  |
| 12.5° | 4167.8 | 4343.6 | 4608.9 | 4992.4 | 5283.3 | 5631.7 | 6050.4 | 6804.7 | 7789.1  | 8195.0  | 8553.1  |
| 15°   | 3563.7 | 3758.8 | 4065.6 | 4490.7 | 4839.0 | 5254.6 | 5724.4 | 6545.8 | 7594.1  | 8220.6  | 8524.3  |
| 17.5° | 3065.2 | 3205.8 | 3528.6 | 3896.2 | 4295.7 | 4749.5 | 5423.9 | 6533.1 | 7798.7  | 8601.0  | 9096.3  |
| 20°   | 2720.0 | 2739.1 | 2914.9 | 3228.2 | 3771.5 | 4362.8 | 5238.6 | 6469.1 | 8453.9  | 9256.2  | 9882.7  |
| 22.5° | 2502.6 | 2483.5 | 2486.7 | 2751.9 | 3132.3 | 3982.5 | 4947.7 | 6686.5 | 9198.7  | 10298.1 | 10720.1 |
| 25°   | 2394.0 | 2342.8 | 2310.8 | 2368.3 | 2713.6 | 3531.8 | 4727.2 | 6974.1 | 10000.9 | 11157.9 | 11675.7 |
| 27.5° | 2336.4 | 2246.9 | 2183.0 | 2192.6 | 2445.1 | 3304.9 | 4589.8 | 7098.7 | 10796.8 | 12356.5 | 12538.6 |
| 30°   | 2314.0 | 2202.2 | 2109.5 | 2077.5 | 2243.7 | 2988.4 | 4295.7 | 7312.9 | 11509.5 | 13014.9 | 13171.5 |
| 32.5° | 2234.1 | 2096.7 | 2007.2 | 1978.5 | 2045.6 | 2710.4 | 4084.7 | 7466.3 | 12139.2 | 13730.8 | 13676.5 |
| 35°   | 2141.4 | 2026.4 | 1914.5 | 1860.2 | 1908.1 | 2531.4 | 3915.4 | 7392.8 | 12880.7 | 14287.0 | 14258.2 |
| 37.5° | 2131.9 | 1981.6 | 1889.0 | 1799.5 | 1796.3 | 2310.8 | 3685.2 | 7463.1 | 13353.7 | 15284.2 | 14891.1 |
| 40°   | 2048.8 | 1952.9 | 1831.4 | 1757.9 | 1716.4 | 2199.0 | 3461.5 | 7296.9 | 14047.3 | 15686.9 | 15300.2 |
| 42.5° | 2052.0 | 1908.1 | 1802.7 | 1716.4 | 1674.8 | 2036.0 | 3308.1 | 7252.2 | 14290.2 | 16342.1 | 15492.0 |
| 45°   | 2000.8 | 1860.2 | 1770.7 | 1668.4 | 1646.0 | 1911.3 | 3161.1 | 7044.4 | 14718.5 | 16374.1 | 15252.2 |
| 47.5° | 1949.7 | 1825.1 | 1729.2 | 1607.7 | 1556.5 | 1866.6 | 3045.9 | 6871.8 | 14494.7 | 16073.7 | 14919.8 |
| 50°   | 1914.5 | 1770.7 | 1681.2 | 1594.9 | 1451.1 | 1789.9 | 2895.7 | 6830.3 | 14181.5 | 15667.7 | 14303.0 |
| 52.5° | 1853.8 | 1726.0 | 1633.2 | 1566.1 | 1336.0 | 1719.6 | 2838.2 | 7073.1 | 14565.0 | 15364.1 | 14124.0 |
| 55°   | 1796.3 | 1665.2 | 1546.9 | 1415.9 | 1240.1 | 1534.2 | 2678.4 | 7300.1 | 15124.4 | 16064.1 | 14935.8 |
| 57.5° | 1735.6 | 1610.9 | 1483.0 | 1326.4 | 1147.5 | 1342.4 | 2512.2 | 7341.7 | 14076.1 | 14846.3 | 14178.3 |
| 60°   | 1655.6 | 1495.8 | 1399.9 | 1195.4 | 1048.4 | 1112.3 | 1991.2 | 6472.3 | 10918.2 | 12398.0 | 12420.4 |
| 62.5° | 1566.1 | 1393.5 | 1310.4 | 1070.8 | 946.0  | 958.8  | 1623.6 | 5439.9 | 8856.7  | 10263.0 | 10873.5 |
| 65°   | 1447.9 | 1281.7 | 1182.6 | 990.8  | 872.5  | 831.0  | 1189.0 | 3985.7 | 6728.0  | 8326.1  | 9019.6  |
| 67.5° | 1294.5 | 1137.9 | 1013.2 | 863.0  | 779.9  | 712.7  | 811.8  | 2243.7 | 3972.9  | 5590.1  | 5801.1  |
| 70°   | 1131.5 | 997.2  | 866.1  | 741.5  | 648.8  | 600.9  | 594.5  | 994.0  | 1898.6  | 3007.6  | 3423.1  |
| 72.5° | 891.7  | 795.8  | 690.4  | 597.7  | 537.0  | 466.7  | 425.1  | 412.3  | 642.4   | 1224.2  | 1690.7  |
| 75°   | 639.2  | 559.3  | 498.6  | 437.9  | 393.2  | 354.8  | 322.8  | 294.0  | 268.4   | 306.8   | 421.9   |
| 77.5° | 402.8  | 374.0  | 326.0  | 310.0  | 284.4  | 274.8  | 262.1  | 246.1  | 226.9   | 214.1   | 214.1   |
| 80°   | 271.6  | 252.5  | 236.5  | 233.3  | 223.7  | 220.5  | 223.7  | 207.7  | 188.6   | 172.6   | 179.0   |
| 82.5° | 182.2  | 179.0  | 175.8  | 172.6  | 175.8  | 179.0  | 185.4  | 182.2  | 166.2   | 156.6   | 159.8   |
| 85°   | 108.7  | 115.0  | 121.4  | 127.8  | 140.6  | 124.6  | 102.3  | 86.3   | 76.7    | 70.3    | 67.1    |
| 87.5° | 41.5   | 57.5   | 51.1   | 47.9   | 51.1   | 47.9   | 44.7   | 41.5   | 35.2    | 32.0    | 32.0    |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9786.7  | 9786.7  | 9786.7  | 9786.7  | 9786.7  | 9786.7  | 9786.7  | 9786.7  | 9786.7  | 9786.7  |
| 2.5°  | 10582.6 | 10646.6 | 10700.9 | 10688.1 | 10576.2 | 10426.0 | 10365.2 | 10055.2 | 9991.3  | 9949.8  |
| 5°    | 10726.5 | 11097.2 | 11177.1 | 11129.1 | 10838.3 | 10470.7 | 10112.8 | 9658.9  | 9393.6  | 9384.0  |
| 7.5°  | 10461.1 | 10918.2 | 11062.0 | 11170.7 | 10784.0 | 10144.7 | 9531.1  | 8850.3  | 8684.1  | 8696.9  |
| 10°   | 9786.7  | 10515.4 | 10870.3 | 10982.1 | 10537.9 | 9984.9  | 9134.7  | 8444.3  | 8089.6  | 8083.2  |
| 12.5° | 9412.8  | 9984.9  | 10084.0 | 10240.6 | 10109.6 | 9550.2  | 8904.6  | 8131.1  | 7785.9  | 7779.5  |
| 15°   | 9080.4  | 9457.5  | 9486.3  | 9706.8  | 9777.1  | 9400.0  | 8965.3  | 8140.7  | 7862.7  | 7833.9  |
| 17.5° | 9371.3  | 9109.1  | 9000.5  | 9029.2  | 9237.0  | 9374.5  | 9316.9  | 8684.1  | 8399.6  | 8239.8  |
| 20°   | 9566.2  | 8981.3  | 8652.1  | 8684.1  | 8930.2  | 9432.0  | 9841.0  | 9470.3  | 9019.6  | 9038.8  |
| 22.5° | 10087.2 | 9000.5  | 8485.9  | 8450.7  | 8840.7  | 9732.4  | 10432.4 | 10464.3 | 10029.7 | 9924.2  |
| 25°   | 10867.1 | 9221.1  | 8434.7  | 8425.1  | 8799.1  | 10055.2 | 11122.7 | 11640.5 | 11196.2 | 11001.3 |
| 27.5° | 11493.5 | 9566.2  | 8594.6  | 8626.6  | 8930.2  | 10317.3 | 11710.8 | 12398.0 | 12059.3 | 11819.5 |
| 30°   | 12043.3 | 9924.2  | 8818.3  | 8671.3  | 9281.8  | 10454.7 | 11963.4 | 13261.1 | 12989.3 | 12791.2 |
| 32.5° | 12270.2 | 10432.4 | 9173.1  | 8930.2  | 9572.6  | 10621.0 | 12487.5 | 14098.4 | 13865.1 | 13376.1 |
| 35°   | 12653.8 | 10716.9 | 9364.9  | 9345.7  | 10080.8 | 11020.5 | 12733.7 | 14651.4 | 14555.4 | 14120.8 |
| 37.5° | 12960.6 | 11004.5 | 10045.7 | 9834.7  | 10777.6 | 11691.7 | 13129.9 | 15415.3 | 15194.7 | 14990.2 |
| 40°   | 13197.1 | 11519.1 | 10681.7 | 10959.7 | 11634.1 | 12302.1 | 13494.3 | 15463.2 | 16099.3 | 15504.8 |
| 42.5° | 12979.7 | 11979.4 | 11726.8 | 12391.6 | 13030.9 | 12998.9 | 13535.9 | 15833.9 | 16310.2 | 16000.2 |
| 45°   | 12925.4 | 12759.2 | 13379.3 | 13983.4 | 14130.4 | 13577.4 | 13238.6 | 15424.9 | 16246.3 | 16108.9 |
| 47.5° | 12794.4 | 13526.3 | 14606.7 | 15591.0 | 15367.3 | 13964.2 | 12883.9 | 15351.4 | 16284.6 | 16038.5 |
| 50°   | 12749.6 | 13692.5 | 15514.3 | 16473.2 | 16338.9 | 14299.8 | 12717.7 | 14878.3 | 16013.0 | 15990.6 |
| 52.5° | 12746.4 | 14034.5 | 15891.5 | 16952.6 | 17035.7 | 14830.4 | 12944.6 | 15118.0 | 16223.9 | 16412.5 |
| 55°   | 12890.3 | 13925.9 | 15843.5 | 16687.4 | 16655.4 | 14593.8 | 12970.2 | 15277.8 | 16482.8 | 16668.2 |
| 57.5° | 12158.3 | 12474.7 | 13075.6 | 13743.6 | 13571.0 | 12088.0 | 11583.0 | 14124.0 | 15127.6 | 14993.3 |
| 60°   | 10499.5 | 9508.7  | 8831.1  | 8799.1  | 8463.5  | 8000.1  | 9479.9  | 12605.8 | 12605.8 | 12474.7 |
| 62.5° | 9195.5  | 6242.2  | 5363.2  | 5114.0  | 5353.6  | 5887.4  | 9144.3  | 12260.6 | 11912.3 | 11762.0 |
| 65°   | 8041.6  | 4765.5  | 3877.0  | 3806.7  | 4222.2  | 5027.6  | 8268.5  | 10445.1 | 9831.5  | 9332.9  |
| 67.5° | 5174.7  | 3490.2  | 2882.9  | 2758.3  | 3260.1  | 3691.6  | 5503.8  | 6424.3  | 6037.6  | 5842.7  |
| 70°   | 3336.8  | 2272.5  | 1604.5  | 1505.4  | 1700.4  | 2275.7  | 3515.8  | 3746.0  | 3183.4  | 3052.3  |
| 72.5° | 1578.9  | 981.2   | 562.5   | 463.5   | 521.0   | 869.3   | 1390.3  | 1495.8  | 1243.3  | 1137.9  |
| 75°   | 501.8   | 361.2   | 230.1   | 198.1   | 188.6   | 223.7   | 319.6   | 246.1   | 179.0   | 175.8   |
| 77.5° | 223.7   | 214.1   | 182.2   | 153.4   | 134.2   | 111.9   | 92.7    | 76.7    | 79.9    | 83.1    |
| 80°   | 185.4   | 169.4   | 150.2   | 134.2   | 111.9   | 86.3    | 67.1    | 51.1    | 51.1    | 54.3    |
| 82.5° | 163.0   | 147.0   | 131.0   | 111.9   | 95.9    | 70.3    | 51.1    | 35.2    | 32.0    | 32.0    |
| 85°   | 70.3    | 83.1    | 89.5    | 95.9    | 76.7    | 57.5    | 35.2    | 22.4    | 19.2    | 19.2    |
| 87.5° | 28.8    | 25.6    | 22.4    | 19.2    | 16.0    | 16.0    | 12.8    | 9.6     | 6.4     | 6.4     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)