

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: P532838

Luminaire Tested: **GALN-SA8B-727-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28619 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

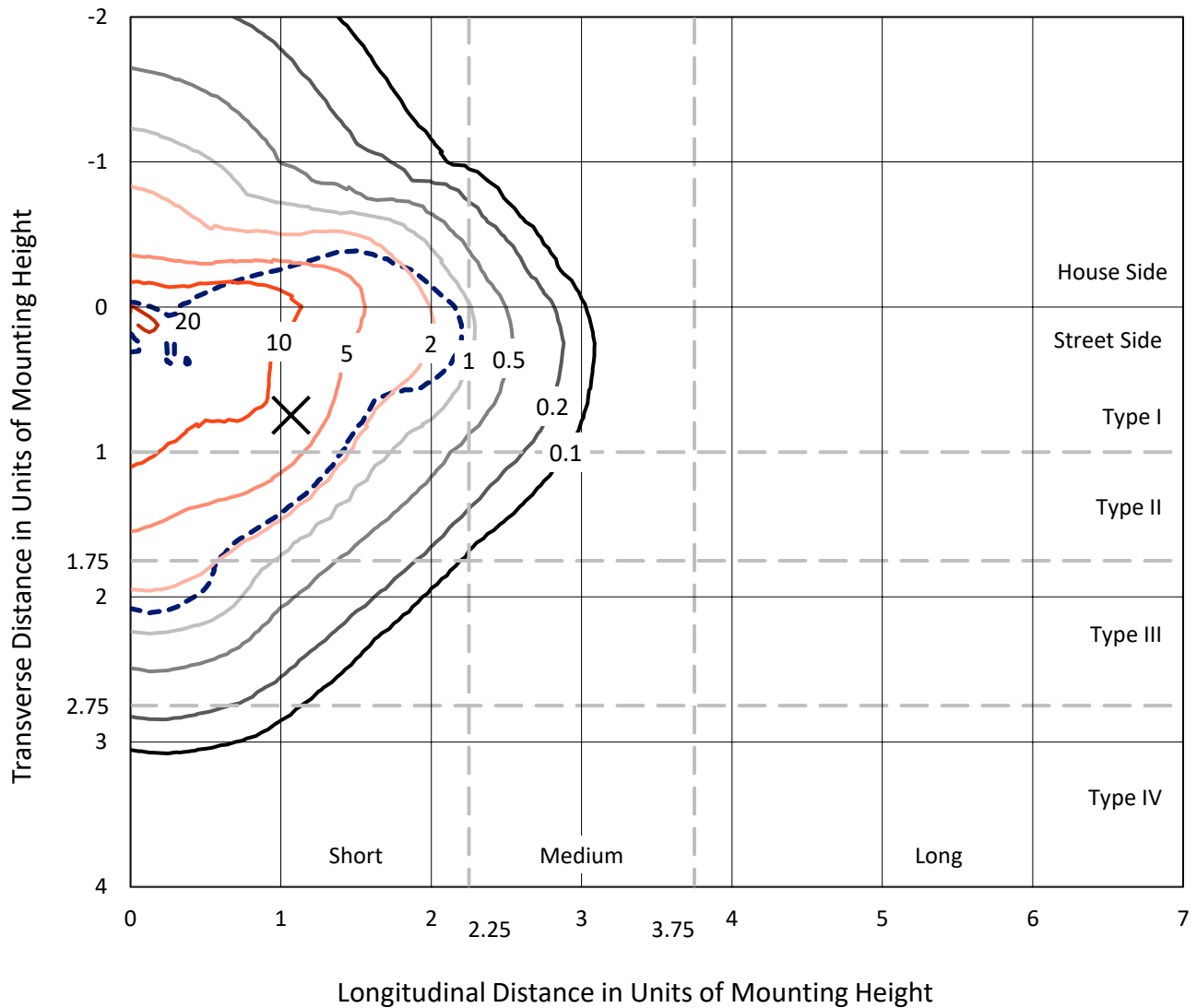
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

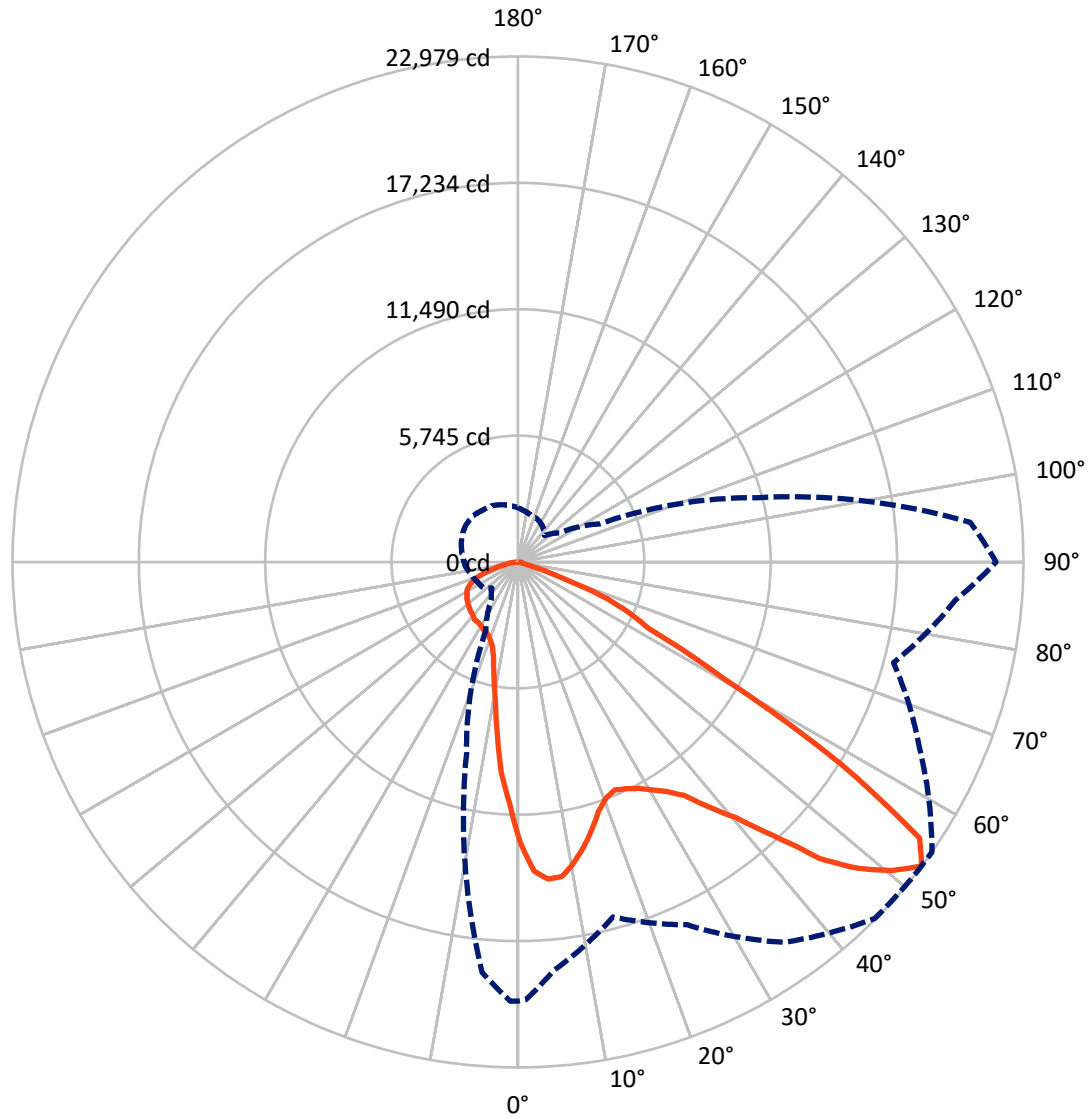
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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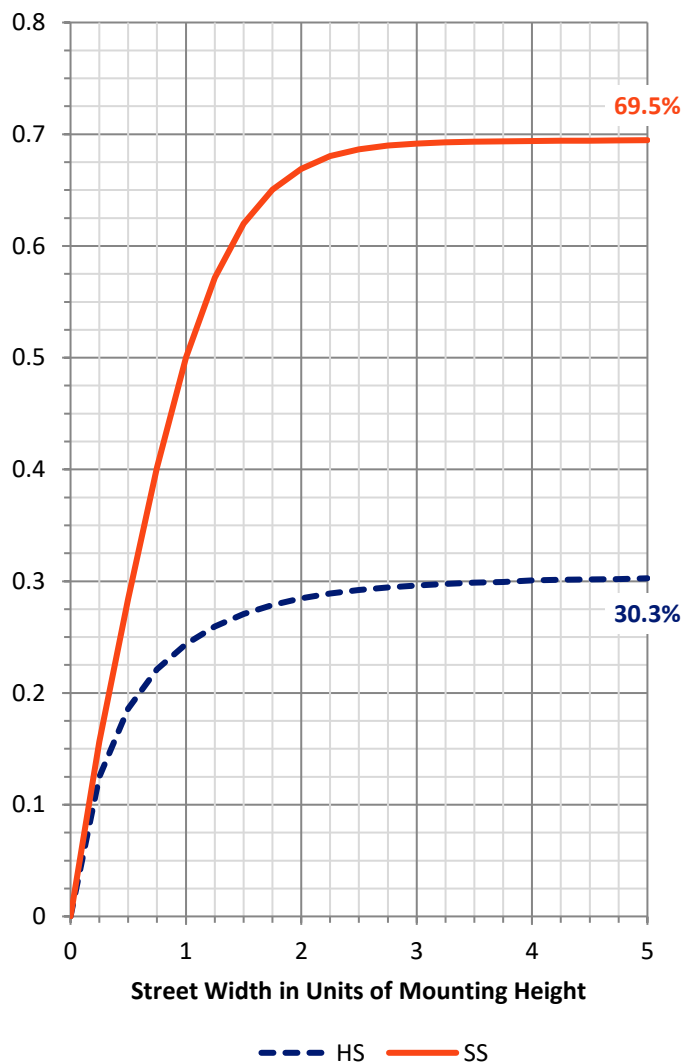
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8730.4   | 0.0    | 8730.4  |
|                    | % Fixture | 30.5     | 0.0    | 30.5    |
| <b>Street Side</b> | Lumens    | 19888.7  | 0.0    | 19888.7 |
|                    | % Fixture | 69.5     | 0.0    | 69.5    |
| <b>Total</b>       | Lumens    | 28619.0  | 0.0    | 28619.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 975.3   | 3.4       |
| 10°-20°   | 2102.9  | 7.3       |
| 20°-30°   | 3188.7  | 11.1      |
| 30°-40°   | 4607.2  | 16.1      |
| 40°-50°   | 6156.5  | 21.5      |
| 50°-60°   | 6872.0  | 24.0      |
| 60°-70°   | 3769.6  | 13.2      |
| 70°-80°   | 815.0   | 2.8       |
| 80°-90°   | 131.8   | 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°    | 28619.0 | 100.0     |
| 0°-180°   | 28619.0 | 100.0     |

**Coefficient of Utilization**



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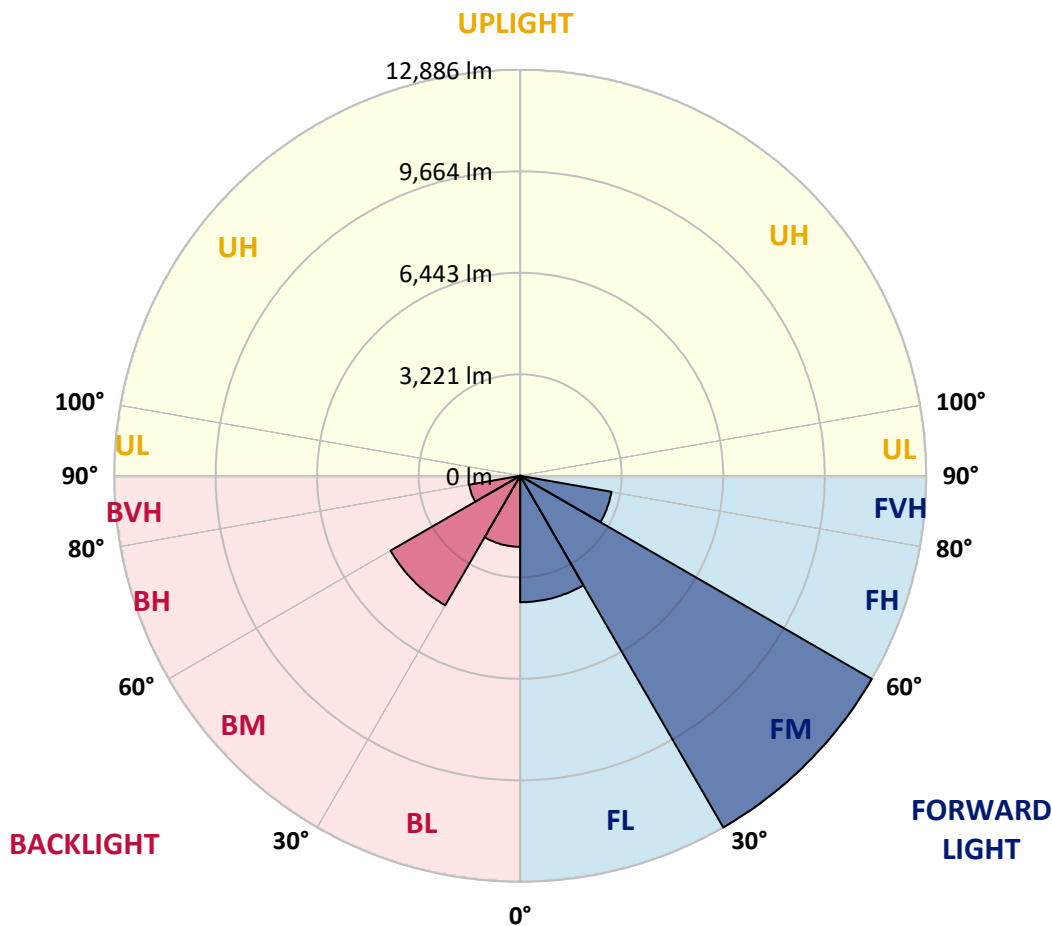
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4012.9  | 14.0      |                         |      |         |
| FM (30°-60°)   | 12885.6 | 45.0      |                         |      |         |
| FH (60°-80°)   | 2941.3  | 10.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 48.8    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2254.0  | 7.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4750.0  | 16.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 1643.3  | 5.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 83.0    | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 |
| 2.5°  | 13397.3 | 13322.1 | 13388.9 | 13706.5 | 13890.4 | 14015.8 | 14095.2 | 14082.6 | 13781.7 | 13489.2 | 13489.2 |
| 5°    | 13004.5 | 12908.4 | 13046.3 | 13765.0 | 14488.0 | 14550.6 | 14655.1 | 14483.8 | 14040.8 | 13505.9 | 12837.3 |
| 7.5°  | 11867.8 | 11938.9 | 12168.7 | 13113.1 | 14053.4 | 14525.6 | 14650.9 | 14433.6 | 13714.9 | 12716.1 | 11734.1 |
| 10°   | 10885.8 | 11053.0 | 11583.7 | 12603.3 | 13468.3 | 14082.6 | 14220.5 | 13915.5 | 13347.1 | 12122.7 | 11245.2 |
| 12.5° | 10547.3 | 10442.9 | 11032.1 | 12051.7 | 12879.1 | 13209.2 | 13271.9 | 13292.8 | 12908.4 | 11821.9 | 10752.1 |
| 15°   | 10505.5 | 10572.4 | 11032.1 | 11805.2 | 12315.0 | 12331.7 | 12436.2 | 12599.1 | 12649.3 | 12026.6 | 10981.9 |
| 17.5° | 11107.3 | 11027.9 | 11500.1 | 12114.4 | 11872.0 | 11629.6 | 11654.7 | 11888.7 | 12302.4 | 12202.1 | 11704.9 |
| 20°   | 11997.4 | 12177.1 | 12549.0 | 12486.3 | 11834.4 | 11220.1 | 11224.3 | 11445.8 | 12260.7 | 12929.3 | 12712.0 |
| 22.5° | 13476.7 | 13652.2 | 13928.0 | 13171.6 | 11834.4 | 11098.9 | 10956.9 | 11257.7 | 12528.1 | 13794.3 | 13848.6 |
| 25°   | 14826.4 | 15148.2 | 15223.4 | 14333.3 | 12427.8 | 11211.8 | 11119.8 | 11416.5 | 12795.5 | 14638.4 | 15152.4 |
| 27.5° | 16055.0 | 16172.0 | 16502.2 | 15081.4 | 12757.9 | 11287.0 | 11278.6 | 11658.9 | 13134.0 | 15060.5 | 16318.3 |
| 30°   | 17024.5 | 17012.0 | 17200.0 | 15553.6 | 13284.5 | 11709.0 | 11303.7 | 12022.5 | 13577.0 | 15758.3 | 17396.4 |
| 32.5° | 17684.8 | 17826.8 | 18223.8 | 16209.6 | 13505.9 | 12110.2 | 11792.6 | 12448.7 | 14116.0 | 16088.4 | 18157.0 |
| 35°   | 18846.5 | 19093.0 | 18591.6 | 16573.2 | 14208.0 | 12507.2 | 12135.3 | 13029.6 | 14383.5 | 16447.8 | 19088.8 |
| 37.5° | 19941.3 | 19753.3 | 19243.5 | 16769.6 | 14663.5 | 13242.7 | 12895.8 | 14153.7 | 15215.1 | 17229.3 | 19707.3 |
| 40°   | 20643.4 | 20639.2 | 19732.4 | 16928.4 | 14985.2 | 14366.8 | 14345.9 | 15294.5 | 16234.7 | 17722.4 | 20401.0 |
| 42.5° | 20948.4 | 21240.9 | 19933.0 | 16911.7 | 15662.2 | 15729.1 | 16151.1 | 16999.4 | 16957.6 | 17822.7 | 20384.3 |
| 44°   | 21366.3 | 21541.8 | 20279.8 | 16949.3 | 16113.5 | 16648.4 | 17643.0 | 18182.0 | 17588.6 | 17768.3 | 20363.4 |
| 45°   | 21349.6 | 21362.1 | 19786.7 | 16999.4 | 16498.0 | 17417.3 | 18307.4 | 19218.4 | 18144.4 | 17651.3 | 20639.2 |
| 47.5° | 20860.7 | 20718.6 | 19368.8 | 16627.5 | 17697.3 | 19448.2 | 20271.4 | 20823.0 | 18829.8 | 17400.6 | 20296.5 |
| 50°   | 19895.4 | 19732.4 | 18353.4 | 16468.7 | 17948.0 | 20710.2 | 21846.9 | 22047.4 | 19452.4 | 17154.0 | 19958.0 |
| 52.5° | 19962.2 | 19916.2 | 18641.7 | 16706.9 | 18198.8 | 21107.2 | 22929.2 | 22979.3 | 20158.6 | 17672.2 | 19962.2 |
| 55°   | 21157.4 | 20998.6 | 19469.1 | 17003.6 | 18014.9 | 20643.4 | 22239.7 | 22151.9 | 19920.4 | 17358.8 | 20329.9 |
| 57.5° | 19360.5 | 19464.9 | 18324.1 | 15829.4 | 15766.7 | 16782.1 | 17484.2 | 17266.9 | 16623.3 | 15666.4 | 18913.3 |
| 60°   | 15620.4 | 15917.1 | 16025.8 | 13238.5 | 11897.1 | 11374.7 | 11165.8 | 10781.3 | 10890.0 | 12870.8 | 16615.0 |
| 62.5° | 13397.3 | 13380.6 | 14061.7 | 12001.6 | 7793.5  | 6702.8  | 6602.5  | 6690.3  | 7943.9  | 12670.2 | 16272.3 |
| 65°   | 10622.6 | 10906.7 | 11115.7 | 10171.2 | 6167.9  | 4977.0  | 4972.8  | 5528.6  | 6874.2  | 10589.1 | 13138.2 |
| 67.5° | 6744.6  | 7116.5  | 7375.6  | 6506.4  | 4124.5  | 3543.6  | 3447.5  | 4116.1  | 4763.9  | 6945.2  | 7910.5  |
| 70°   | 3802.7  | 3978.2  | 4095.2  | 3752.6  | 2624.3  | 1838.7  | 1730.0  | 1888.8  | 2879.2  | 4496.4  | 4688.6  |
| 72.5° | 1466.8  | 1546.2  | 1705.0  | 1717.5  | 990.4   | 593.4   | 480.6   | 576.7   | 1211.9  | 1780.2  | 1696.6  |
| 75°   | 225.7   | 242.4   | 342.7   | 409.5   | 284.2   | 217.3   | 229.8   | 238.2   | 338.5   | 459.7   | 384.5   |
| 77.5° | 108.6   | 108.6   | 104.5   | 121.2   | 142.1   | 154.6   | 167.2   | 183.9   | 200.6   | 221.5   | 213.1   |
| 80°   | 71.0    | 71.0    | 71.0    | 83.6    | 104.5   | 125.4   | 142.1   | 150.4   | 158.8   | 175.5   | 167.2   |
| 82.5° | 46.0    | 46.0    | 46.0    | 62.7    | 83.6    | 104.5   | 112.8   | 133.7   | 150.4   | 175.5   | 163.0   |
| 85°   | 25.1    | 25.1    | 25.1    | 41.8    | 62.7    | 87.8    | 83.6    | 66.9    | 37.6    | 4.2     | 8.4     |
| 87.5° | 8.4     | 8.4     | 8.4     | 8.4     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 |
| 2.5°  | 13138.2 | 12946.0 | 12929.3 | 12536.5 | 12185.4 | 12014.1 | 11876.2 | 11491.7 | 11575.3 | 11353.8 | 11349.7 |
| 5°    | 12503.0 | 12110.2 | 11475.0 | 10952.7 | 10430.3 | 10325.9 | 9870.4  | 9473.4  | 9485.9  | 9201.8  | 9251.9  |
| 7.5°  | 11362.2 | 11090.6 | 10317.5 | 9498.5  | 8804.8  | 8311.7  | 7881.3  | 7622.2  | 7292.0  | 7179.2  | 7120.7  |
| 10°   | 10639.3 | 10305.0 | 9435.8  | 8407.8  | 7630.5  | 7367.3  | 6953.6  | 6723.7  | 6385.2  | 6218.1  | 6101.1  |
| 12.5° | 10321.7 | 9832.8  | 8746.3  | 7701.6  | 7183.4  | 6911.8  | 6560.7  | 6142.9  | 5741.7  | 5587.1  | 5374.0  |
| 15°   | 10355.1 | 9770.1  | 8545.7  | 7417.4  | 6794.8  | 6268.2  | 5954.8  | 5491.0  | 5081.4  | 4809.8  | 4655.2  |
| 17.5° | 10860.7 | 10150.3 | 8637.6  | 7200.1  | 6305.8  | 5645.6  | 5031.3  | 4529.8  | 4203.9  | 3999.1  | 3949.0  |
| 20°   | 12055.9 | 11090.6 | 8792.2  | 6849.1  | 5816.9  | 4993.7  | 4237.3  | 3715.0  | 3464.2  | 3460.1  | 3464.2  |
| 22.5° | 13050.4 | 12093.5 | 9105.6  | 6640.1  | 5328.0  | 4157.9  | 3405.7  | 3238.6  | 3188.4  | 3292.9  | 3305.4  |
| 25°   | 14391.8 | 13221.8 | 9644.7  | 6531.5  | 4876.7  | 3543.6  | 3079.8  | 3017.1  | 3012.9  | 3146.6  | 3150.8  |
| 27.5° | 15766.7 | 14208.0 | 9966.5  | 6213.9  | 4417.0  | 3226.0  | 2883.4  | 2870.8  | 2937.7  | 3079.8  | 3067.3  |
| 30°   | 16702.7 | 15035.4 | 10547.3 | 5833.6  | 3873.8  | 2946.1  | 2804.0  | 2820.7  | 2912.6  | 3021.3  | 3038.0  |
| 32.5° | 17793.4 | 15850.3 | 10697.8 | 5624.7  | 3539.5  | 2712.1  | 2611.8  | 2649.4  | 2766.4  | 2937.7  | 3029.6  |
| 35°   | 19042.9 | 16426.9 | 10927.6 | 5340.5  | 3414.1  | 2532.4  | 2482.2  | 2524.0  | 2666.1  | 2778.9  | 2879.2  |
| 37.5° | 19966.4 | 17446.6 | 10969.4 | 5119.1  | 3276.2  | 2432.1  | 2352.7  | 2490.6  | 2574.2  | 2732.9  | 2783.1  |
| 40°   | 20651.7 | 18186.2 | 11078.0 | 4981.2  | 3167.5  | 2302.5  | 2302.5  | 2394.5  | 2507.3  | 2653.5  | 2753.8  |
| 42.5° | 21090.5 | 18725.3 | 11157.4 | 4855.8  | 2958.6  | 2264.9  | 2244.0  | 2336.0  | 2486.4  | 2628.5  | 2674.4  |
| 44°   | 21357.9 | 18955.1 | 11078.0 | 4738.8  | 2900.1  | 2219.0  | 2219.0  | 2298.3  | 2415.4  | 2582.5  | 2636.8  |
| 45°   | 21424.8 | 19243.5 | 10902.5 | 4734.6  | 2829.1  | 2164.6  | 2156.3  | 2306.7  | 2386.1  | 2590.9  | 2624.3  |
| 47.5° | 21683.9 | 19598.7 | 10923.4 | 4600.9  | 2657.7  | 2035.1  | 2181.3  | 2248.2  | 2319.2  | 2498.9  | 2611.8  |
| 50°   | 21675.5 | 19820.1 | 10877.5 | 4404.5  | 2532.4  | 1888.8  | 2131.2  | 2206.4  | 2277.5  | 2461.3  | 2507.3  |
| 52.5° | 21734.0 | 20647.5 | 11299.5 | 4091.1  | 2306.7  | 1700.8  | 1964.0  | 2131.2  | 2219.0  | 2373.6  | 2469.7  |
| 55°   | 21704.8 | 21119.7 | 11717.4 | 3857.0  | 1989.1  | 1588.0  | 1822.0  | 2018.4  | 2143.7  | 2306.7  | 2352.7  |
| 57.5° | 19824.3 | 18666.8 | 10844.0 | 3418.3  | 1646.5  | 1454.2  | 1621.4  | 1901.4  | 2060.2  | 2227.3  | 2285.8  |
| 60°   | 16197.1 | 14387.7 | 8942.7  | 2515.6  | 1353.9  | 1337.2  | 1508.6  | 1863.8  | 1930.6  | 2076.9  | 2177.2  |
| 62.5° | 14968.5 | 12620.0 | 7091.5  | 1922.3  | 1157.5  | 1224.4  | 1391.5  | 1684.1  | 1788.5  | 1968.2  | 2060.2  |
| 65°   | 11713.2 | 8382.7  | 4391.9  | 1299.6  | 1019.6  | 1099.0  | 1257.8  | 1475.1  | 1646.5  | 1813.6  | 1922.3  |
| 67.5° | 6936.8  | 4580.0  | 2173.0  | 911.0   | 890.1   | 973.7   | 1136.6  | 1299.6  | 1496.0  | 1679.9  | 1734.2  |
| 70°   | 3777.7  | 2252.4  | 927.7   | 693.7   | 756.4   | 831.6   | 990.4   | 1103.2  | 1291.3  | 1433.3  | 1525.3  |
| 72.5° | 1211.9  | 685.3   | 463.8   | 514.0   | 576.7   | 664.4   | 760.5   | 898.4   | 1032.2  | 1115.7  | 1191.0  |
| 75°   | 292.5   | 288.3   | 330.1   | 359.4   | 417.9   | 484.7   | 564.1   | 635.2   | 739.7   | 819.0   | 885.9   |
| 77.5° | 204.8   | 221.5   | 254.9   | 296.7   | 317.6   | 342.7   | 392.8   | 447.1   | 493.1   | 551.6   | 593.4   |
| 80°   | 158.8   | 171.3   | 196.4   | 217.3   | 238.2   | 259.1   | 284.2   | 305.1   | 334.3   | 371.9   | 392.8   |
| 82.5° | 150.4   | 158.8   | 183.9   | 196.4   | 188.0   | 183.9   | 200.6   | 208.9   | 213.1   | 225.7   | 238.2   |
| 85°   | 12.5    | 0.0     | 8.4     | 29.3    | 71.0    | 104.5   | 112.8   | 112.8   | 108.6   | 117.0   | 117.0   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 4.2     | 16.7    | 12.5    |
| 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°    | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 |
| 2.5°  | 11299.5 | 11157.4 | 11211.8 | 11278.6 | 11182.5 | 10961.0 | 11019.5 | 10994.5 | 11220.1 | 11203.4 | 11429.1 |
| 5°    | 9473.4  | 9251.9  | 9277.0  | 9602.9  | 9498.5  | 9611.3  | 9385.6  | 9356.4  | 9398.2  | 9419.1  | 9456.7  |
| 7.5°  | 7250.2  | 7221.0  | 7471.7  | 7747.5  | 7877.1  | 7743.3  | 7521.9  | 7471.7  | 7425.8  | 7333.8  | 7542.8  |
| 10°   | 5917.2  | 5925.6  | 5908.8  | 6117.8  | 6264.0  | 6234.8  | 6101.1  | 6084.4  | 5996.6  | 5963.2  | 6080.2  |
| 12.5° | 5282.0  | 5169.2  | 5114.9  | 5048.0  | 5160.8  | 5236.1  | 5177.6  | 5135.8  | 5139.9  | 5181.7  | 5198.4  |
| 15°   | 4667.7  | 4596.7  | 4479.7  | 4404.5  | 4458.8  | 4421.2  | 4400.3  | 4483.9  | 4463.0  | 4454.6  | 4554.9  |
| 17.5° | 3978.2  | 4036.7  | 4028.4  | 3944.8  | 4015.8  | 3986.6  | 3982.4  | 3923.9  | 3844.5  | 3786.0  | 3819.4  |
| 20°   | 3522.7  | 3631.4  | 3715.0  | 3719.1  | 3756.8  | 3752.6  | 3689.9  | 3510.2  | 3451.7  | 3439.2  | 3447.5  |
| 22.5° | 3359.8  | 3418.3  | 3518.6  | 3660.6  | 3660.6  | 3593.8  | 3518.6  | 3309.6  | 3255.3  | 3196.8  | 3171.7  |
| 25°   | 3230.2  | 3343.1  | 3472.6  | 3489.3  | 3556.2  | 3493.5  | 3372.3  | 3267.8  | 3155.0  | 3075.6  | 3075.6  |
| 27.5° | 3163.4  | 3288.7  | 3384.8  | 3414.1  | 3506.0  | 3455.9  | 3330.5  | 3196.8  | 3063.1  | 3058.9  | 2987.9  |
| 30°   | 3134.1  | 3251.1  | 3313.8  | 3384.8  | 3426.6  | 3347.2  | 3309.6  | 3167.5  | 3033.8  | 3000.4  | 2883.4  |
| 32.5° | 3046.4  | 3213.5  | 3330.5  | 3313.8  | 3347.2  | 3313.8  | 3259.5  | 3142.5  | 2992.0  | 2916.8  | 2904.3  |
| 35°   | 2946.1  | 3113.2  | 3238.6  | 3326.3  | 3347.2  | 3276.2  | 3242.8  | 3084.0  | 2879.2  | 2841.6  | 2712.1  |
| 37.5° | 2891.7  | 2992.0  | 3146.6  | 3288.7  | 3318.0  | 3280.4  | 3167.5  | 3004.6  | 2799.8  | 2758.0  | 2645.2  |
| 40°   | 2824.9  | 2954.4  | 3075.6  | 3192.6  | 3280.4  | 3188.4  | 3058.9  | 2900.1  | 2808.2  | 2682.8  | 2649.4  |
| 42.5° | 2774.7  | 2921.0  | 3021.3  | 3150.8  | 3251.1  | 3129.9  | 2979.5  | 2870.8  | 2741.3  | 2657.7  | 2561.6  |
| 44°   | 2758.0  | 2891.7  | 2958.6  | 3117.4  | 3201.0  | 3109.0  | 2983.7  | 2870.8  | 2720.4  | 2645.2  | 2561.6  |
| 45°   | 2699.5  | 2883.4  | 2954.4  | 3096.5  | 3167.5  | 3092.3  | 2933.5  | 2820.7  | 2712.1  | 2620.1  | 2532.4  |
| 47.5° | 2641.0  | 2766.4  | 2887.6  | 3000.4  | 3050.5  | 3025.5  | 2891.7  | 2753.8  | 2624.3  | 2570.0  | 2486.4  |
| 50°   | 2624.3  | 2749.7  | 2862.5  | 2967.0  | 3025.5  | 2975.3  | 2854.1  | 2720.4  | 2570.0  | 2482.2  | 2411.2  |
| 52.5° | 2540.7  | 2695.3  | 2820.7  | 2854.1  | 2929.4  | 2900.1  | 2808.2  | 2661.9  | 2519.8  | 2444.6  | 2386.1  |
| 55°   | 2419.5  | 2582.5  | 2753.8  | 2795.6  | 2904.3  | 2858.3  | 2720.4  | 2582.5  | 2461.3  | 2348.5  | 2273.3  |
| 57.5° | 2373.6  | 2532.4  | 2699.5  | 2753.8  | 2820.7  | 2745.5  | 2712.1  | 2565.8  | 2373.6  | 2315.1  | 2198.1  |
| 60°   | 2256.6  | 2457.1  | 2595.0  | 2720.4  | 2724.6  | 2703.7  | 2645.2  | 2478.0  | 2319.2  | 2210.6  | 2127.0  |
| 62.5° | 2164.6  | 2352.7  | 2461.3  | 2578.3  | 2649.4  | 2590.9  | 2532.4  | 2377.7  | 2206.4  | 2085.2  | 1989.1  |
| 65°   | 2030.9  | 2202.2  | 2294.2  | 2365.2  | 2444.6  | 2436.3  | 2336.0  | 2223.1  | 2043.4  | 1947.3  | 1855.4  |
| 67.5° | 1826.1  | 1976.6  | 2101.9  | 2168.8  | 2219.0  | 2206.4  | 2131.2  | 2051.8  | 1867.9  | 1771.8  | 1705.0  |
| 70°   | 1579.6  | 1734.2  | 1813.6  | 1851.2  | 1901.4  | 1926.4  | 1867.9  | 1830.3  | 1667.3  | 1542.0  | 1479.3  |
| 72.5° | 1270.4  | 1370.7  | 1487.7  | 1521.1  | 1542.0  | 1558.7  | 1558.7  | 1525.3  | 1358.1  | 1308.0  | 1199.3  |
| 75°   | 936.1   | 1015.5  | 1103.2  | 1103.2  | 1140.8  | 1145.0  | 1153.4  | 1132.5  | 1007.1  | 940.2   | 915.2   |
| 77.5° | 635.2   | 693.7   | 764.7   | 794.0   | 819.0   | 814.9   | 810.7   | 752.2   | 685.3   | 656.1   | 631.0   |
| 80°   | 413.7   | 472.2   | 505.6   | 543.2   | 568.3   | 564.1   | 572.5   | 530.7   | 501.5   | 451.3   | 459.7   |
| 82.5° | 246.6   | 292.5   | 325.9   | 371.9   | 371.9   | 384.5   | 384.5   | 371.9   | 342.7   | 317.6   | 317.6   |
| 85°   | 117.0   | 154.6   | 175.5   | 204.8   | 221.5   | 225.7   | 200.6   | 171.3   | 142.1   | 129.5   | 142.1   |
| 87.5° | 20.9    | 29.3    | 41.8    | 37.6    | 46.0    | 41.8    | 41.8    | 41.8    | 41.8    | 33.4    | 37.6    |
| 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°    | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 | 12766.3 |
| 2.5°  | 11345.5 | 11554.4 | 11700.7 | 11943.1 | 12360.9 | 12695.2 | 13037.9 | 13292.8 | 13322.1 | 13397.3 |
| 5°    | 9594.6  | 9707.4  | 10079.3 | 10564.1 | 10906.7 | 11470.9 | 11834.4 | 12494.7 | 12741.2 | 13004.5 |
| 7.5°  | 7492.6  | 7676.5  | 8173.8  | 8499.7  | 9251.9  | 9958.1  | 10689.4 | 11504.3 | 11830.2 | 11867.8 |
| 10°   | 6318.4  | 6585.8  | 6924.3  | 7446.7  | 7856.2  | 8641.8  | 9552.8  | 10459.6 | 10823.1 | 10885.8 |
| 12.5° | 5549.5  | 5892.1  | 6343.4  | 6719.5  | 7112.3  | 7797.7  | 8671.0  | 9791.0  | 10263.2 | 10547.3 |
| 15°   | 4809.8  | 5165.0  | 5662.3  | 6184.7  | 6531.5  | 7350.5  | 8378.5  | 9640.5  | 10254.8 | 10505.5 |
| 17.5° | 4049.3  | 4379.4  | 4788.9  | 5353.1  | 6050.9  | 6970.3  | 8332.6  | 10142.0 | 10814.8 | 11107.3 |
| 20°   | 3397.4  | 3581.2  | 4057.6  | 4638.5  | 5511.9  | 6581.6  | 8349.3  | 10881.6 | 11867.8 | 11997.4 |
| 22.5° | 3142.5  | 3184.3  | 3372.3  | 3907.2  | 4864.1  | 6184.7  | 8646.0  | 11930.5 | 13050.4 | 13476.7 |
| 25°   | 2946.1  | 2937.7  | 2987.9  | 3347.2  | 4391.9  | 6030.0  | 8938.5  | 12895.8 | 14362.6 | 14826.4 |
| 27.5° | 2837.4  | 2753.8  | 2758.0  | 3096.5  | 4057.6  | 5779.3  | 9314.6  | 14003.2 | 15850.3 | 16055.0 |
| 30°   | 2783.1  | 2766.4  | 2716.2  | 2854.1  | 3694.1  | 5403.2  | 9377.3  | 15093.9 | 16727.8 | 17024.5 |
| 32.5° | 2749.7  | 2586.7  | 2524.0  | 2574.2  | 3351.4  | 4993.7  | 9611.3  | 15812.6 | 17814.3 | 17684.8 |
| 35°   | 2582.5  | 2436.3  | 2394.5  | 2444.6  | 3109.0  | 4763.9  | 9456.7  | 16439.5 | 18629.2 | 18846.5 |
| 37.5° | 2519.8  | 2390.3  | 2306.7  | 2264.9  | 2883.4  | 4571.6  | 9377.3  | 17404.8 | 19419.0 | 19941.3 |
| 40°   | 2461.3  | 2323.4  | 2223.1  | 2181.3  | 2707.9  | 4316.7  | 9352.2  | 18148.6 | 20329.9 | 20643.4 |
| 42.5° | 2394.5  | 2306.7  | 2193.9  | 2118.7  | 2494.8  | 4061.8  | 9063.9  | 18378.4 | 20609.9 | 20948.4 |
| 44°   | 2373.6  | 2239.8  | 2122.8  | 2097.8  | 2411.2  | 3932.3  | 9005.4  | 18587.4 | 20852.3 | 21366.3 |
| 45°   | 2352.7  | 2227.3  | 2093.6  | 2060.2  | 2381.9  | 3861.2  | 8926.0  | 18637.5 | 21253.5 | 21349.6 |
| 47.5° | 2294.2  | 2214.8  | 2085.2  | 1993.3  | 2319.2  | 3706.6  | 8687.8  | 18353.4 | 20843.9 | 20860.7 |
| 50°   | 2248.2  | 2156.3  | 2022.5  | 1842.9  | 2235.7  | 3577.1  | 8796.4  | 18248.9 | 19857.7 | 19895.4 |
| 52.5° | 2198.1  | 2060.2  | 1984.9  | 1675.7  | 2097.8  | 3468.4  | 9026.2  | 18721.1 | 19970.6 | 19962.2 |
| 55°   | 2139.6  | 1989.1  | 1805.2  | 1533.6  | 1867.9  | 3330.5  | 9582.0  | 19653.0 | 21015.3 | 21157.4 |
| 57.5° | 2047.6  | 1918.1  | 1654.8  | 1408.3  | 1604.7  | 3067.3  | 9402.3  | 17868.6 | 19335.4 | 19360.5 |
| 60°   | 1926.4  | 1805.2  | 1500.2  | 1312.1  | 1316.3  | 2419.5  | 8407.8  | 13923.8 | 15256.9 | 15620.4 |
| 62.5° | 1809.4  | 1742.6  | 1370.7  | 1174.2  | 1119.9  | 1926.4  | 7108.2  | 11571.1 | 13096.4 | 13397.3 |
| 65°   | 1671.5  | 1508.6  | 1257.8  | 1069.8  | 961.1   | 1349.8  | 5035.5  | 8646.0  | 10217.2 | 10622.6 |
| 67.5° | 1496.0  | 1320.5  | 1107.4  | 940.2   | 823.2   | 902.6   | 2599.2  | 4914.3  | 6506.4  | 6744.6  |
| 70°   | 1308.0  | 1145.0  | 931.9   | 794.0   | 664.4   | 622.6   | 1145.0  | 2344.3  | 3556.2  | 3802.7  |
| 72.5° | 1074.0  | 923.5   | 743.8   | 626.8   | 497.3   | 430.4   | 384.5   | 626.8   | 1262.0  | 1466.8  |
| 75°   | 777.3   | 672.8   | 560.0   | 447.1   | 351.0   | 275.8   | 225.7   | 188.0   | 208.9   | 225.7   |
| 77.5° | 572.5   | 488.9   | 413.7   | 317.6   | 246.6   | 196.4   | 154.6   | 117.0   | 112.8   | 108.6   |
| 80°   | 447.1   | 397.0   | 330.1   | 254.9   | 192.2   | 146.3   | 108.6   | 79.4    | 71.0    | 71.0    |
| 82.5° | 351.0   | 325.9   | 271.6   | 208.9   | 158.8   | 117.0   | 79.4    | 54.3    | 46.0    | 46.0    |
| 85°   | 133.7   | 133.7   | 196.4   | 171.3   | 121.2   | 83.6    | 54.3    | 29.3    | 25.1    | 25.1    |
| 87.5° | 33.4    | 33.4    | 33.4    | 33.4    | 29.3    | 25.1    | 25.1    | 12.5    | 8.4     | 8.4     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)