

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: P534113

Luminaire Tested: **GALN-SA9C-750-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-750-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35235 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

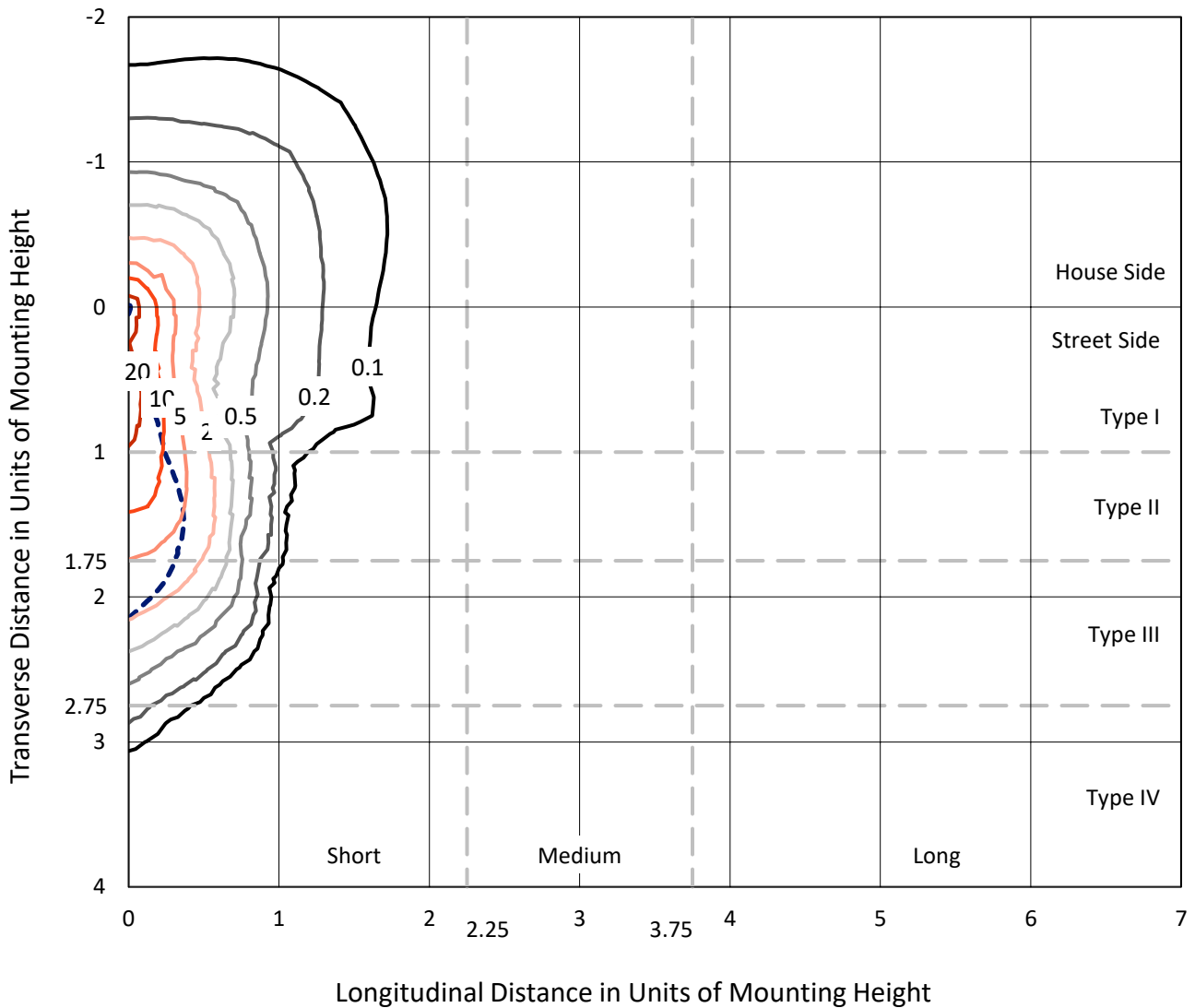
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

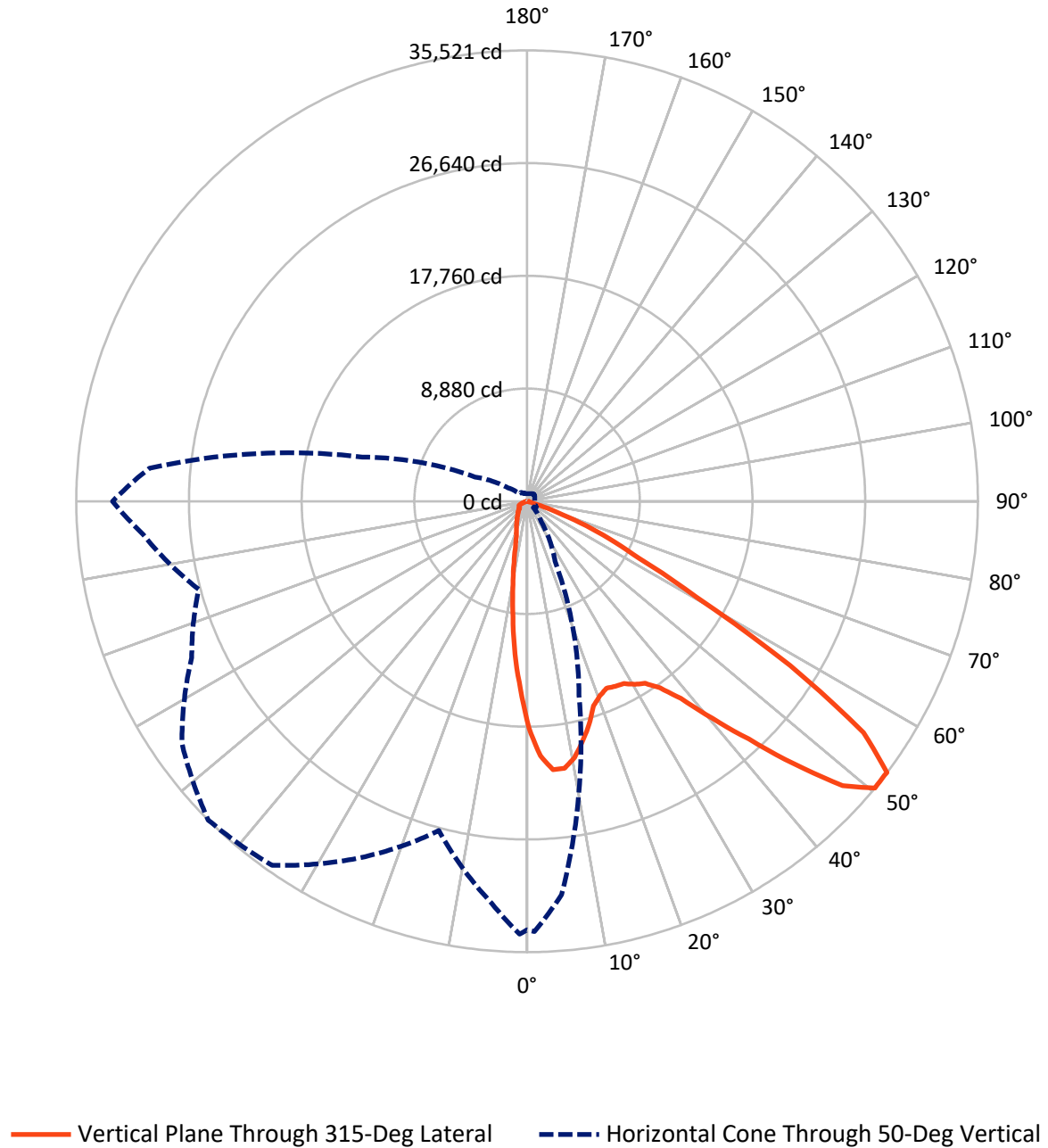
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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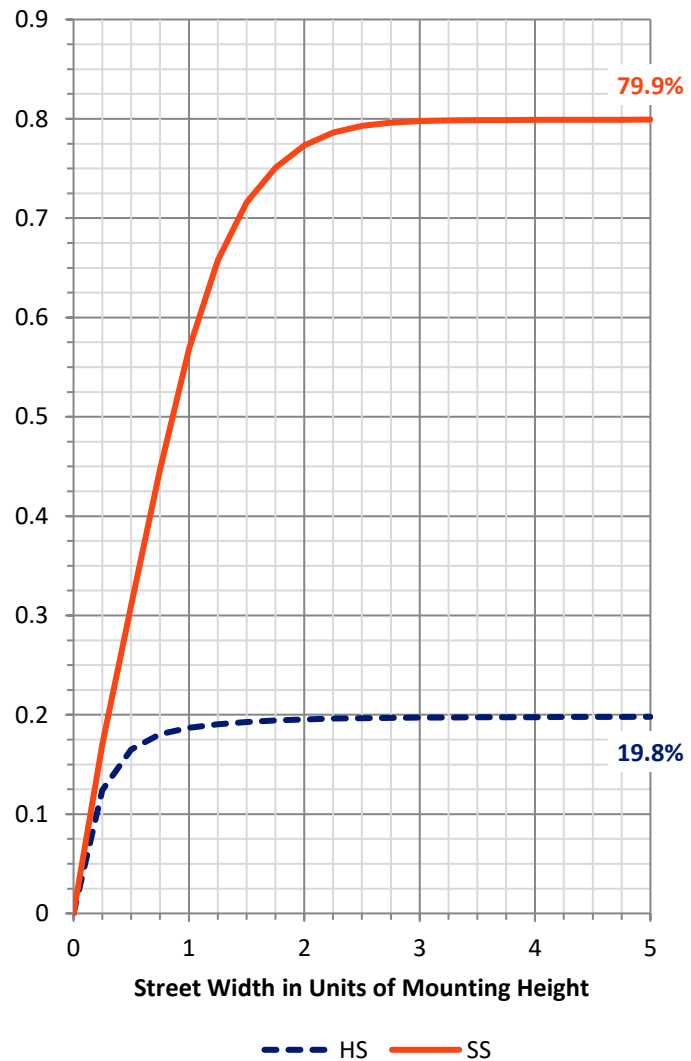
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7057.6   | 0.0    | 7057.6  |
|                    | % Fixture | 20.0     | 0.0    | 20.0    |
| <b>Street Side</b> | Lumens    | 28177.4  | 0.0    | 28177.4 |
|                    | % Fixture | 80.0     | 0.0    | 80.0    |
| <b>Total</b>       | Lumens    | 35235.0  | 0.0    | 35235.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1302.4  | 3.7       |
| 10°-20°   | 2588.5  | 7.3       |
| 20°-30°   | 3888.7  | 11.0      |
| 30°-40°   | 5836.9  | 16.6      |
| 40°-50°   | 8203.4  | 23.3      |
| 50°-60°   | 8848.8  | 25.1      |
| 60°-70°   | 4108.5  | 11.7      |
| 70°-80°   | 386.6   | 1.1       |
| 80°-90°   | 71.3    | 0.2       |
| 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°    | 35235.0 | 100.0     |
| 0°-180°   | 35235.0 | 100.0     |

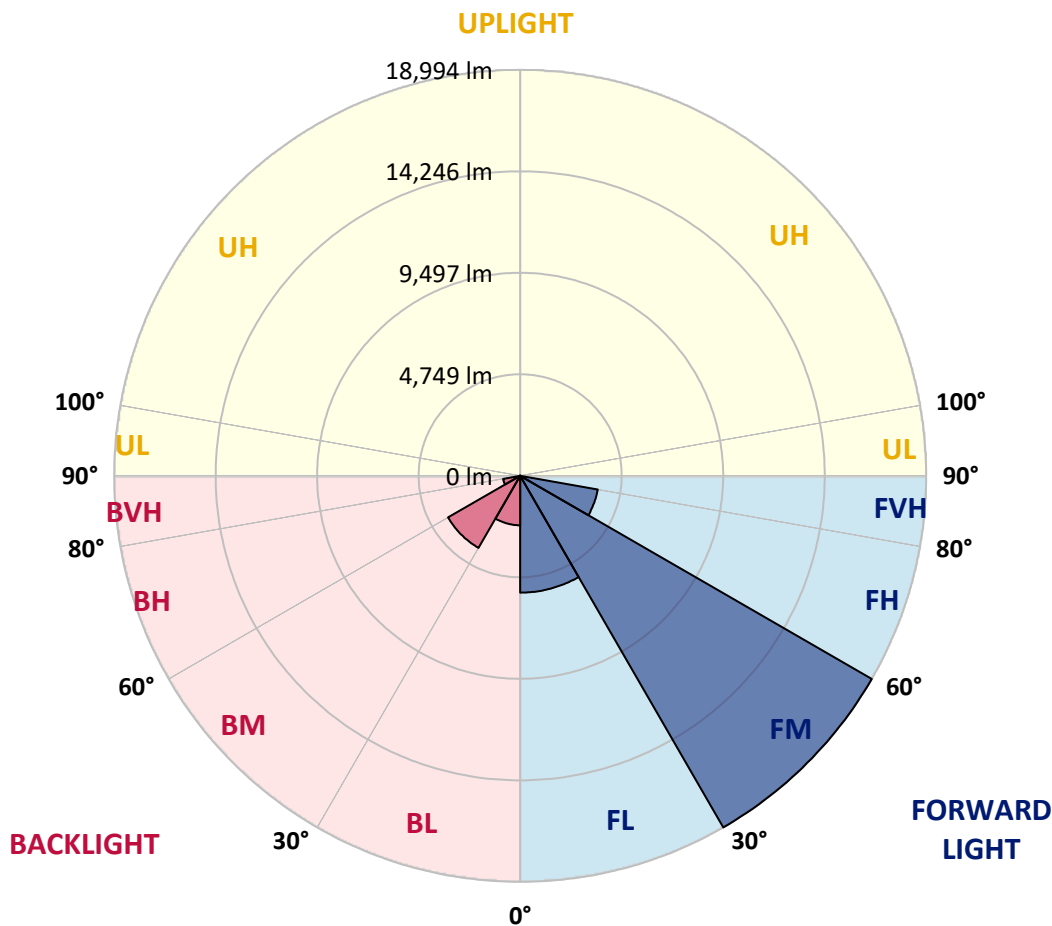


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5466.4  | 15.5      |                         |      |         |
| FM (30°-60°)   | 18994.3 | 53.9      |                         |      |         |
| FH (60°-80°)   | 3684.6  | 10.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 32.1    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2313.3  | 6.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 3894.7  | 11.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 810.4   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 39.2    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 |
| 2.5°  | 18574.7 | 18288.0 | 17924.5 | 17623.9 | 17176.5 | 16274.7 | 16030.0 | 15736.4 | 15491.7 | 15163.1 | 14701.7 |
| 5°    | 16889.9 | 16799.0 | 16631.2 | 15498.7 | 14680.8 | 13590.2 | 12695.4 | 12317.9 | 11821.5 | 11416.0 | 11122.4 |
| 7.5°  | 15603.6 | 15240.0 | 14708.7 | 13569.2 | 12261.9 | 11094.5 | 10101.8 | 9521.5  | 8864.4  | 8640.7  | 8242.2  |
| 10°   | 14226.4 | 14310.2 | 13527.3 | 11926.4 | 10346.4 | 9402.7  | 8787.5  | 8228.2  | 7634.0  | 7242.5  | 6676.3  |
| 12.5° | 13785.9 | 13513.3 | 12912.1 | 10933.7 | 9584.4  | 8703.6  | 7955.6  | 7263.5  | 6634.3  | 6005.1  | 5459.8  |
| 15°   | 14072.6 | 13653.1 | 12814.2 | 10723.9 | 8997.2  | 7899.6  | 6962.9  | 6026.1  | 5445.9  | 4641.9  | 4075.7  |
| 17.5° | 15100.2 | 14764.7 | 13639.1 | 10947.7 | 8696.6  | 7130.7  | 5739.5  | 4774.7  | 3886.9  | 3159.9  | 2873.2  |
| 20°   | 16813.0 | 16337.6 | 14925.4 | 11234.3 | 8249.2  | 6200.9  | 4655.9  | 3467.5  | 2628.6  | 2321.0  | 2160.2  |
| 22.5° | 18490.8 | 18232.1 | 16449.4 | 11786.6 | 7850.7  | 5376.0  | 3495.4  | 2334.9  | 1964.4  | 1908.5  | 1803.6  |
| 25°   | 21685.6 | 20909.6 | 18777.4 | 12786.2 | 7543.1  | 4600.0  | 2635.5  | 1880.5  | 1663.8  | 1621.9  | 1635.9  |
| 27.5° | 23587.1 | 22936.9 | 20930.6 | 13450.4 | 7200.6  | 4005.8  | 2230.1  | 1726.7  | 1579.9  | 1489.0  | 1454.1  |
| 30°   | 25411.7 | 24656.7 | 22000.2 | 13841.9 | 6466.5  | 3376.6  | 1978.4  | 1656.8  | 1621.9  | 1489.0  | 1447.1  |
| 32.5° | 26816.9 | 26075.8 | 23545.1 | 14429.1 | 6165.9  | 2971.1  | 1628.9  | 1293.3  | 1202.4  | 1188.4  | 1314.3  |
| 35°   | 28970.0 | 28180.1 | 24866.4 | 14750.7 | 5935.2  | 2761.4  | 1412.1  | 1153.5  | 1048.6  | 1006.7  | 1013.7  |
| 37.5° | 30976.4 | 30438.1 | 26089.8 | 14876.5 | 5690.5  | 2698.5  | 1265.3  | 1034.6  | 943.8   | 915.8   | 908.8   |
| 40°   | 32654.2 | 31451.8 | 27250.3 | 15009.3 | 5585.7  | 2579.6  | 1174.5  | 943.8   | 880.8   | 838.9   | 838.9   |
| 42.5° | 33423.2 | 32199.8 | 28550.6 | 14932.4 | 5557.7  | 2390.9  | 1174.5  | 866.9   | 817.9   | 776.0   | 769.0   |
| 45°   | 33255.4 | 32759.1 | 29130.8 | 14897.5 | 5557.7  | 2202.1  | 1069.6  | 845.9   | 776.0   | 720.1   | 706.1   |
| 47.5° | 33688.9 | 33038.7 | 29857.9 | 15044.3 | 5445.9  | 2069.3  | 901.8   | 887.8   | 734.0   | 664.1   | 650.1   |
| 50°   | 33765.8 | 33891.6 | 31123.2 | 15806.3 | 5201.2  | 1901.5  | 706.1   | 873.9   | 706.1   | 601.2   | 587.2   |
| 52°   | 34269.1 | 33486.1 | 31507.7 | 16211.8 | 4942.5  | 1775.7  | 594.2   | 748.0   | 678.1   | 559.3   | 545.3   |
| 52.5° | 33577.0 | 34087.3 | 31598.6 | 16358.6 | 4970.5  | 1691.8  | 573.2   | 734.0   | 664.1   | 559.3   | 524.3   |
| 55°   | 32801.0 | 33290.4 | 31228.1 | 16673.2 | 4558.0  | 1328.3  | 447.4   | 531.3   | 601.2   | 489.4   | 468.4   |
| 57.5° | 28508.6 | 29005.0 | 27138.4 | 15268.0 | 3712.1  | 936.8   | 370.5   | 398.5   | 531.3   | 454.4   | 433.4   |
| 60°   | 25341.8 | 24985.3 | 22776.2 | 12737.3 | 2635.5  | 524.3   | 293.6   | 307.6   | 580.2   | 419.5   | 412.5   |
| 62.5° | 23160.7 | 22398.7 | 19036.1 | 9836.1  | 1607.9  | 349.5   | 230.7   | 237.7   | 447.4   | 391.5   | 391.5   |
| 65°   | 17134.5 | 16281.7 | 12646.4 | 5949.2  | 790.0   | 244.7   | 174.8   | 188.8   | 279.6   | 335.6   | 335.6   |
| 67.5° | 9780.2  | 9451.6  | 6110.0  | 2684.5  | 328.6   | 153.8   | 132.8   | 146.8   | 216.7   | 272.6   | 258.7   |
| 70°   | 4495.1  | 4033.7  | 2348.9  | 566.3   | 153.8   | 104.9   | 104.9   | 118.8   | 174.8   | 202.7   | 188.8   |
| 72.5° | 1314.3  | 1244.4  | 573.2   | 90.9    | 62.9    | 62.9    | 69.9    | 90.9    | 132.8   | 153.8   | 139.8   |
| 75°   | 97.9    | 62.9    | 41.9    | 28.0    | 28.0    | 41.9    | 55.9    | 90.9    | 132.8   | 146.8   | 118.8   |
| 77.5° | 7.0     | 14.0    | 7.0     | 7.0     | 21.0    | 41.9    | 62.9    | 111.9   | 174.8   | 181.8   | 132.8   |
| 80°   | 7.0     | 7.0     | 0.0     | 7.0     | 21.0    | 41.9    | 69.9    | 125.8   | 195.7   | 209.7   | 111.9   |
| 82.5° | 0.0     | 0.0     | 0.0     | 7.0     | 28.0    | 55.9    | 83.9    | 132.8   | 181.8   | 223.7   | 118.8   |
| 85°   | 0.0     | 0.0     | 0.0     | 7.0     | 41.9    | 76.9    | 97.9    | 35.0    | 21.0    | 0.0     | 0.0     |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 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°    | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 |
| 2.5°  | 15030.3 | 14848.5 | 14778.6 | 14841.6 | 14820.6 | 14799.6 | 15184.1 | 15100.2 | 15086.2 | 15212.1 | 15184.1 |
| 5°    | 11283.2 | 10961.6 | 11842.5 | 11485.9 | 11856.5 | 12080.2 | 12122.1 | 12143.1 | 12401.7 | 12129.1 | 12485.6 |
| 7.5°  | 8039.5  | 8123.4  | 8116.4  | 8354.1  | 8780.5  | 9158.0  | 9381.7  | 9206.9  | 9193.0  | 9158.0  | 9004.2  |
| 10°   | 6424.6  | 6277.8  | 6249.8  | 6193.9  | 6326.7  | 6648.3  | 6920.9  | 6704.2  | 6550.4  | 6760.1  | 6697.2  |
| 12.5° | 5250.1  | 5047.4  | 4935.5  | 4711.8  | 4718.8  | 4935.5  | 4935.5  | 4935.5  | 5089.3  | 5208.2  | 5299.1  |
| 15°   | 4026.7  | 3858.9  | 3858.9  | 3635.2  | 3586.3  | 3593.3  | 3705.1  | 3719.1  | 3963.8  | 4033.7  | 4068.7  |
| 17.5° | 2817.3  | 2726.4  | 2831.3  | 2922.2  | 2866.2  | 2880.2  | 2922.2  | 2936.2  | 2971.1  | 2943.1  | 3013.1  |
| 20°   | 2167.2  | 2153.2  | 2181.1  | 2341.9  | 2460.8  | 2530.7  | 2481.7  | 2411.8  | 2369.9  | 2272.0  | 2272.0  |
| 22.5° | 1838.6  | 1866.6  | 1915.5  | 2048.3  | 2202.1  | 2244.1  | 2188.1  | 2027.3  | 1901.5  | 1887.5  | 1894.5  |
| 25°   | 1635.9  | 1663.8  | 1740.7  | 1824.6  | 1908.5  | 1978.4  | 1922.5  | 1803.6  | 1733.7  | 1670.8  | 1670.8  |
| 27.5° | 1510.0  | 1524.0  | 1565.9  | 1628.9  | 1698.8  | 1754.7  | 1733.7  | 1670.8  | 1593.9  | 1565.9  | 1503.0  |
| 30°   | 1412.1  | 1433.1  | 1482.1  | 1496.0  | 1559.0  | 1586.9  | 1552.0  | 1538.0  | 1489.0  | 1454.1  | 1433.1  |
| 32.5° | 1363.2  | 1356.2  | 1391.2  | 1405.2  | 1412.1  | 1433.1  | 1391.2  | 1412.1  | 1405.2  | 1349.2  | 1328.3  |
| 35°   | 1027.7  | 1083.6  | 1174.5  | 1251.4  | 1272.3  | 1300.3  | 1293.3  | 1265.3  | 1188.4  | 1125.5  | 1048.6  |
| 37.5° | 922.8   | 957.7   | 1006.7  | 1069.6  | 1153.5  | 1188.4  | 1174.5  | 1104.6  | 1013.7  | 971.7   | 957.7   |
| 40°   | 852.9   | 873.9   | 915.8   | 957.7   | 1041.6  | 1104.6  | 1055.6  | 992.7   | 922.8   | 887.8   | 866.9   |
| 42.5° | 790.0   | 797.0   | 817.9   | 859.9   | 922.8   | 1020.7  | 936.8   | 852.9   | 824.9   | 803.9   | 790.0   |
| 45°   | 720.1   | 720.1   | 748.0   | 769.0   | 838.9   | 929.8   | 845.9   | 769.0   | 755.0   | 741.0   | 734.0   |
| 47.5° | 664.1   | 671.1   | 685.1   | 713.1   | 769.0   | 831.9   | 776.0   | 713.1   | 678.1   | 671.1   | 657.1   |
| 50°   | 594.2   | 601.2   | 629.2   | 657.1   | 727.0   | 762.0   | 727.0   | 657.1   | 622.2   | 601.2   | 601.2   |
| 52°   | 538.3   | 559.3   | 587.2   | 643.2   | 692.1   | 748.0   | 706.1   | 629.2   | 587.2   | 566.3   | 552.3   |
| 52.5° | 531.3   | 545.3   | 573.2   | 636.2   | 692.1   | 741.0   | 699.1   | 622.2   | 573.2   | 559.3   | 545.3   |
| 55°   | 475.4   | 496.3   | 545.3   | 622.2   | 685.1   | 741.0   | 685.1   | 615.2   | 545.3   | 510.3   | 496.3   |
| 57.5° | 454.4   | 468.4   | 531.3   | 629.2   | 678.1   | 741.0   | 685.1   | 615.2   | 545.3   | 482.4   | 468.4   |
| 60°   | 433.4   | 461.4   | 531.3   | 608.2   | 671.1   | 748.0   | 692.1   | 608.2   | 531.3   | 454.4   | 454.4   |
| 62.5° | 412.5   | 433.4   | 524.3   | 594.2   | 643.2   | 720.1   | 664.1   | 594.2   | 510.3   | 433.4   | 426.4   |
| 65°   | 356.5   | 391.5   | 461.4   | 496.3   | 552.3   | 622.2   | 566.3   | 517.3   | 447.4   | 384.5   | 377.5   |
| 67.5° | 272.6   | 286.6   | 342.6   | 384.5   | 419.5   | 482.4   | 454.4   | 391.5   | 342.6   | 293.6   | 293.6   |
| 70°   | 188.8   | 202.7   | 244.7   | 265.7   | 300.6   | 335.6   | 314.6   | 265.7   | 230.7   | 202.7   | 195.7   |
| 72.5° | 132.8   | 139.8   | 153.8   | 167.8   | 181.8   | 195.7   | 188.8   | 153.8   | 132.8   | 125.8   | 118.8   |
| 75°   | 104.9   | 118.8   | 125.8   | 118.8   | 111.9   | 104.9   | 104.9   | 90.9    | 76.9    | 69.9    | 69.9    |
| 77.5° | 104.9   | 111.9   | 104.9   | 90.9    | 76.9    | 69.9    | 62.9    | 55.9    | 41.9    | 35.0    | 41.9    |
| 80°   | 90.9    | 90.9    | 90.9    | 76.9    | 69.9    | 62.9    | 55.9    | 48.9    | 41.9    | 35.0    | 35.0    |
| 82.5° | 97.9    | 97.9    | 90.9    | 76.9    | 76.9    | 62.9    | 62.9    | 55.9    | 48.9    | 35.0    | 35.0    |
| 85°   | 0.0     | 0.0     | 0.0     | 14.0    | 35.0    | 62.9    | 62.9    | 55.9    | 48.9    | 41.9    | 41.9    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 7.0     | 14.0    | 28.0    | 35.0    | 41.9    | 41.9    | 41.9    |
| 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):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 |
| 2.5°  | 15435.8 | 15701.4 | 16204.8 | 16708.1 | 17015.7 | 17379.2 | 18036.4 | 18385.9 | 18840.3 | 19064.0 | 19504.4 |
| 5°    | 12436.7 | 13065.9 | 13289.6 | 13862.8 | 14478.0 | 15093.2 | 16071.9 | 17148.5 | 18043.4 | 18658.6 | 19455.5 |
| 7.5°  | 9074.1  | 9220.9  | 10087.8 | 10472.3 | 11479.0 | 12597.5 | 13932.7 | 15289.0 | 16421.5 | 17428.2 | 18036.4 |
| 10°   | 6802.1  | 7340.4  | 7885.7  | 8619.7  | 9430.6  | 10584.1 | 11863.5 | 13359.5 | 14827.6 | 15834.3 | 16603.2 |
| 12.5° | 5466.8  | 5893.3  | 6620.3  | 7410.3  | 8410.0  | 9172.0  | 10458.3 | 11940.4 | 13841.9 | 14827.6 | 15841.2 |
| 15°   | 4138.6  | 4683.9  | 5508.8  | 6326.7  | 7382.3  | 8186.3  | 9486.6  | 11353.1 | 13799.9 | 15156.1 | 16030.0 |
| 17.5° | 3069.0  | 3439.5  | 4180.5  | 5096.3  | 6172.9  | 7305.4  | 9060.1  | 11290.2 | 14268.3 | 15883.2 | 16785.0 |
| 20°   | 2348.9  | 2474.8  | 2943.1  | 3761.1  | 4928.5  | 6410.6  | 8368.0  | 11562.8 | 15652.5 | 17651.9 | 18567.7 |
| 22.5° | 1901.5  | 1957.4  | 2139.2  | 2705.5  | 3838.0  | 5627.6  | 8039.5  | 11751.6 | 17211.4 | 19770.1 | 20993.5 |
| 25°   | 1656.8  | 1642.8  | 1761.7  | 2006.4  | 2999.1  | 4893.6  | 7620.0  | 12464.7 | 19119.9 | 22258.8 | 23356.4 |
| 27.5° | 1510.0  | 1510.0  | 1565.9  | 1740.7  | 2488.7  | 4418.2  | 7354.4  | 12975.0 | 21042.4 | 24447.0 | 25041.2 |
| 30°   | 1433.1  | 1447.1  | 1607.9  | 1663.8  | 2069.3  | 3852.0  | 6913.9  | 13492.3 | 22881.0 | 25845.1 | 26663.1 |
| 32.5° | 1328.3  | 1272.3  | 1237.4  | 1377.2  | 1740.7  | 3341.6  | 6473.5  | 13709.0 | 24370.1 | 27557.9 | 28257.0 |
| 35°   | 1020.7  | 992.7   | 1034.6  | 1139.5  | 1496.0  | 2908.2  | 5984.2  | 13953.7 | 26082.8 | 29543.3 | 29683.1 |
| 37.5° | 922.8   | 915.8   | 943.8   | 1034.6  | 1258.4  | 2530.7  | 5634.6  | 13890.8 | 27390.1 | 31186.1 | 30808.6 |
| 40°   | 852.9   | 852.9   | 873.9   | 950.8   | 1125.5  | 2265.0  | 5271.1  | 13834.9 | 28655.5 | 33031.7 | 31927.2 |
| 42.5° | 797.0   | 797.0   | 831.9   | 880.8   | 1069.6  | 2090.3  | 4998.5  | 13758.0 | 29718.1 | 34164.2 | 32584.3 |
| 45°   | 720.1   | 741.0   | 797.0   | 845.9   | 1083.6  | 1971.4  | 4795.7  | 13464.4 | 30081.6 | 34150.3 | 32269.7 |
| 47.5° | 664.1   | 692.1   | 748.0   | 817.9   | 978.7   | 1936.5  | 4655.9  | 13205.7 | 29955.7 | 33311.4 | 31284.0 |
| 50°   | 601.2   | 636.2   | 713.1   | 831.9   | 831.9   | 1866.6  | 4509.1  | 13436.4 | 29864.9 | 32661.2 | 30340.2 |
| 52°   | 559.3   | 587.2   | 685.1   | 810.9   | 727.0   | 1719.7  | 4418.2  | 13883.8 | 30235.4 | 32577.3 | 29920.8 |
| 52.5° | 552.3   | 573.2   | 664.1   | 797.0   | 692.1   | 1691.8  | 4355.3  | 13988.7 | 30354.2 | 32367.6 | 30207.4 |
| 55°   | 489.4   | 517.3   | 608.2   | 622.2   | 566.3   | 1391.2  | 4152.6  | 14226.4 | 29767.0 | 31955.1 | 29934.8 |
| 57.5° | 461.4   | 475.4   | 538.3   | 510.3   | 489.4   | 1048.6  | 3572.3  | 13855.8 | 26439.4 | 28382.8 | 27851.5 |
| 60°   | 426.4   | 440.4   | 503.3   | 398.5   | 412.5   | 734.0   | 2684.5  | 12031.2 | 21231.2 | 23650.0 | 24607.8 |
| 62.5° | 412.5   | 405.5   | 475.4   | 321.6   | 349.5   | 531.3   | 1894.5  | 9780.2  | 16358.6 | 19469.5 | 21126.3 |
| 65°   | 363.5   | 356.5   | 342.6   | 272.6   | 300.6   | 412.5   | 1132.5  | 6382.6  | 11527.9 | 14729.7 | 15638.5 |
| 67.5° | 279.6   | 293.6   | 251.7   | 216.7   | 251.7   | 321.6   | 629.2   | 2859.3  | 6047.1  | 8836.4  | 9570.5  |
| 70°   | 195.7   | 209.7   | 202.7   | 188.8   | 223.7   | 265.7   | 363.5   | 978.7   | 2502.7  | 4641.9  | 5117.3  |
| 72.5° | 118.8   | 146.8   | 153.8   | 160.8   | 195.7   | 230.7   | 258.7   | 314.6   | 664.1   | 1642.8  | 2041.3  |
| 75°   | 69.9    | 97.9    | 118.8   | 139.8   | 160.8   | 195.7   | 216.7   | 223.7   | 230.7   | 307.6   | 496.3   |
| 77.5° | 48.9    | 69.9    | 104.9   | 132.8   | 160.8   | 195.7   | 230.7   | 244.7   | 230.7   | 216.7   | 230.7   |
| 80°   | 41.9    | 69.9    | 97.9    | 125.8   | 167.8   | 202.7   | 230.7   | 230.7   | 223.7   | 195.7   | 209.7   |
| 82.5° | 41.9    | 69.9    | 104.9   | 132.8   | 160.8   | 195.7   | 223.7   | 230.7   | 209.7   | 195.7   | 202.7   |
| 85°   | 48.9    | 76.9    | 111.9   | 139.8   | 174.8   | 160.8   | 146.8   | 118.8   | 111.9   | 90.9    | 97.9    |
| 87.5° | 48.9    | 69.9    | 69.9    | 76.9    | 83.9    | 83.9    | 83.9    | 76.9    | 62.9    | 55.9    | 55.9    |
| 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):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 | 17868.6 |
| 2.5°  | 19525.4 | 20084.7 | 20063.7 | 20077.7 | 19993.8 | 19427.5 | 19154.9 | 18462.8 | 18658.6 | 18574.7 |
| 5°    | 20273.4 | 20825.7 | 21301.1 | 21245.2 | 20602.0 | 19833.0 | 18693.5 | 17616.9 | 17323.3 | 16889.9 |
| 7.5°  | 19525.4 | 20853.7 | 21294.1 | 21231.2 | 20280.4 | 19294.7 | 17477.1 | 16400.5 | 15890.2 | 15603.6 |
| 10°   | 18337.0 | 19875.0 | 20420.2 | 20532.1 | 19888.9 | 18392.9 | 16722.1 | 14995.4 | 14722.7 | 14226.4 |
| 12.5° | 17658.9 | 18777.4 | 19113.0 | 19413.6 | 19189.9 | 18071.3 | 16148.8 | 14492.0 | 14114.5 | 13785.9 |
| 15°   | 17106.6 | 17770.7 | 17910.5 | 18253.1 | 18385.9 | 17784.7 | 16449.4 | 15037.3 | 14107.5 | 14072.6 |
| 17.5° | 17616.9 | 17344.3 | 16833.9 | 16938.8 | 17358.3 | 17791.7 | 17225.4 | 16113.9 | 15212.1 | 15100.2 |
| 20°   | 18462.8 | 17260.4 | 16106.9 | 16365.6 | 16715.1 | 18043.4 | 18399.9 | 17616.9 | 17099.6 | 16813.0 |
| 22.5° | 19434.5 | 17407.2 | 15876.2 | 16002.0 | 16666.2 | 18609.6 | 20301.4 | 19868.0 | 18903.2 | 18490.8 |
| 25°   | 21231.2 | 17812.7 | 16058.0 | 16141.8 | 17050.7 | 19399.6 | 22021.1 | 22342.7 | 21769.5 | 21685.6 |
| 27.5° | 22985.9 | 18861.3 | 16456.4 | 16267.7 | 17246.4 | 20168.6 | 23062.8 | 24789.5 | 23782.8 | 23587.1 |
| 30°   | 23880.7 | 19714.2 | 17050.7 | 16729.1 | 18057.3 | 20637.0 | 23692.0 | 26383.4 | 25502.6 | 25411.7 |
| 32.5° | 25250.9 | 20490.2 | 17512.1 | 17099.6 | 18511.7 | 21217.2 | 24866.4 | 28124.1 | 27271.3 | 26816.9 |
| 35°   | 25824.2 | 21336.0 | 18525.7 | 18043.4 | 19812.0 | 22028.1 | 25467.6 | 29676.1 | 29410.5 | 28970.0 |
| 37.5° | 26928.7 | 22244.9 | 19721.2 | 19693.2 | 21385.0 | 23083.8 | 26551.2 | 31787.3 | 31738.4 | 30976.4 |
| 40°   | 27019.6 | 23237.6 | 21608.7 | 22489.5 | 23817.8 | 24922.3 | 27502.0 | 32374.6 | 33171.5 | 32654.2 |
| 42.5° | 27159.4 | 24978.3 | 24873.4 | 25600.5 | 26740.0 | 26502.3 | 27536.9 | 32514.4 | 33730.8 | 33423.2 |
| 45°   | 27222.3 | 26719.0 | 28194.1 | 29536.3 | 30011.7 | 28571.6 | 27208.3 | 32248.7 | 34024.4 | 33255.4 |
| 47.5° | 26719.0 | 28215.0 | 30878.5 | 33472.1 | 33612.0 | 29843.9 | 27068.5 | 31976.1 | 34199.2 | 33688.9 |
| 50°   | 26788.9 | 29151.8 | 33199.5 | 35520.5 | 35010.1 | 30969.4 | 26851.8 | 31808.3 | 34108.3 | 33765.8 |
| 52°   | 26621.1 | 29172.8 | 33528.1 | 35478.5 | 35122.0 | 30347.2 | 26481.3 | 31165.2 | 34024.4 | 34269.1 |
| 52.5° | 26809.9 | 29046.9 | 33185.5 | 35506.5 | 35045.1 | 30654.8 | 26432.4 | 31521.7 | 34073.4 | 33577.0 |
| 55°   | 26159.7 | 27550.9 | 31179.1 | 32164.9 | 32094.9 | 27823.5 | 24929.3 | 30340.2 | 32794.0 | 32801.0 |
| 57.5° | 23643.0 | 23880.7 | 24454.0 | 24433.0 | 24111.4 | 21874.3 | 21322.1 | 27900.4 | 29235.7 | 28508.6 |
| 60°   | 20832.7 | 17484.1 | 15939.1 | 15309.9 | 14953.4 | 14589.9 | 18861.3 | 25523.6 | 25649.4 | 25341.8 |
| 62.5° | 18001.4 | 12122.1 | 10066.8 | 9892.0  | 9975.9  | 11304.2 | 18232.1 | 24579.8 | 23824.8 | 23160.7 |
| 65°   | 14527.0 | 8836.4  | 7312.4  | 7081.7  | 7899.6  | 9332.8  | 14757.7 | 18847.3 | 17686.8 | 17134.5 |
| 67.5° | 9123.0  | 6445.6  | 4942.5  | 4509.1  | 5494.8  | 6424.6  | 9696.3  | 11842.5 | 10542.2 | 9780.2  |
| 70°   | 5410.9  | 3600.3  | 2237.1  | 2006.4  | 2258.0  | 3425.5  | 5431.9  | 5907.3  | 4886.6  | 4495.1  |
| 72.5° | 2132.2  | 1321.3  | 622.2   | 531.3   | 552.3   | 1202.4  | 1999.4  | 1950.4  | 1475.1  | 1314.3  |
| 75°   | 573.2   | 398.5   | 216.7   | 174.8   | 146.8   | 223.7   | 321.6   | 209.7   | 76.9    | 97.9    |
| 77.5° | 265.7   | 237.7   | 188.8   | 146.8   | 111.9   | 83.9    | 41.9    | 14.0    | 14.0    | 7.0     |
| 80°   | 230.7   | 202.7   | 174.8   | 146.8   | 111.9   | 69.9    | 35.0    | 7.0     | 7.0     | 7.0     |
| 82.5° | 216.7   | 188.8   | 160.8   | 132.8   | 104.9   | 69.9    | 35.0    | 7.0     | 0.0     | 0.0     |
| 85°   | 90.9    | 118.8   | 132.8   | 125.8   | 111.9   | 69.9    | 35.0    | 7.0     | 0.0     | 0.0     |
| 87.5° | 48.9    | 41.9    | 35.0    | 28.0    | 21.0    | 14.0    | 14.0    | 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     |

(END OF REPORT)