

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: P533255

Luminaire Tested: **GALN-SA8C-830-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533255  
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-SA8C-830-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 24940 lumens  
Efficiency: N/A  
Efficacy: 58.1 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

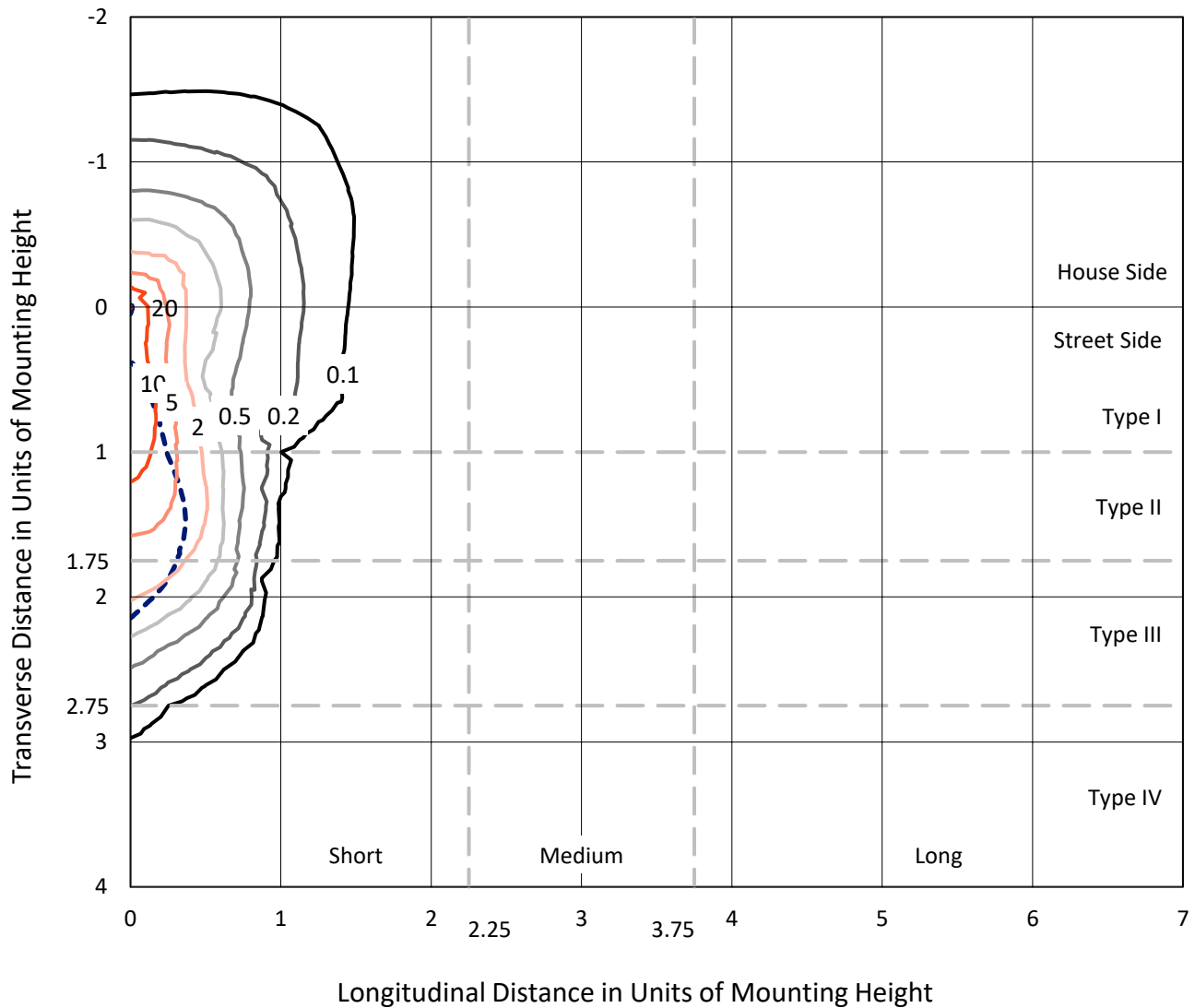
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

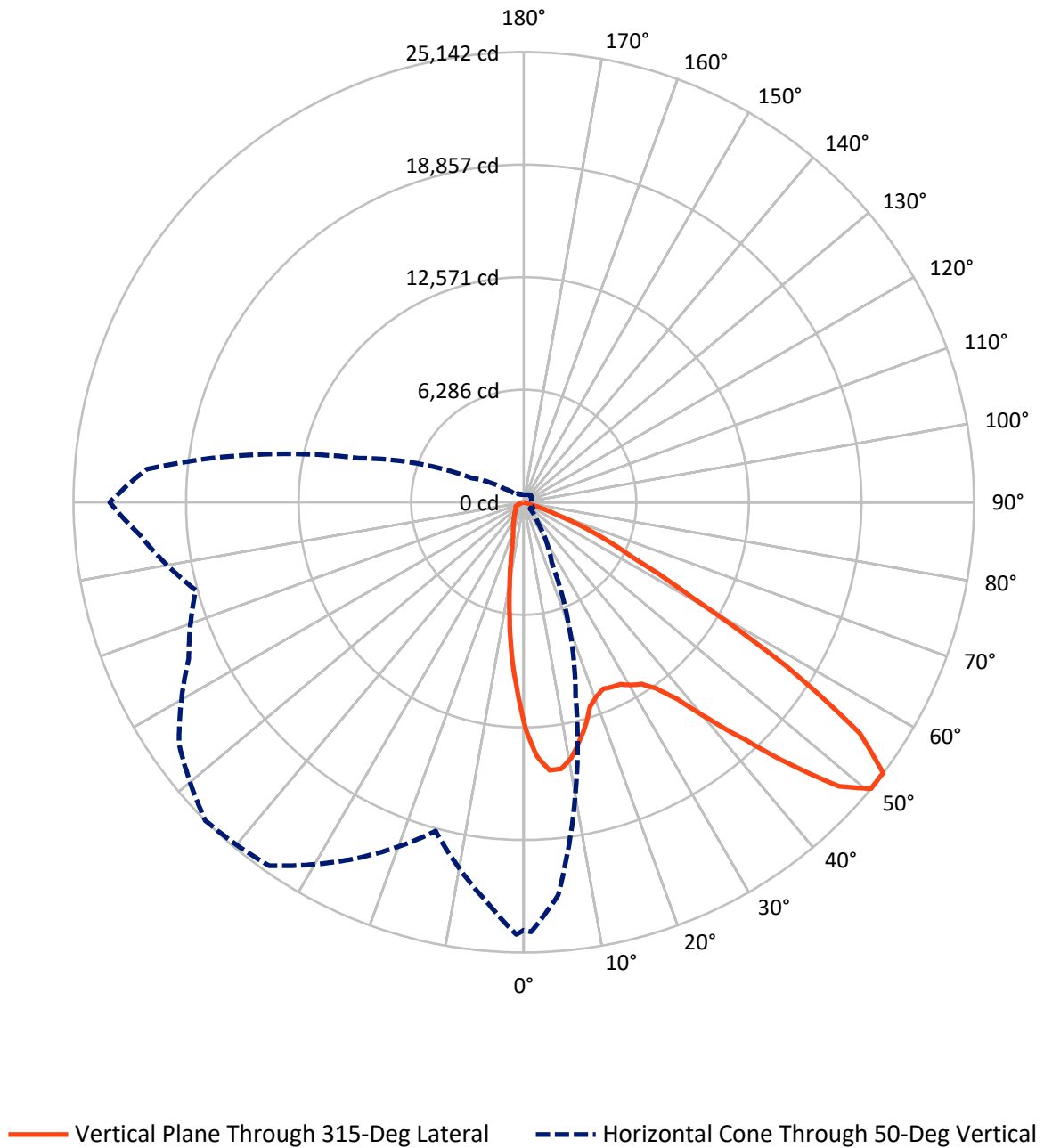


Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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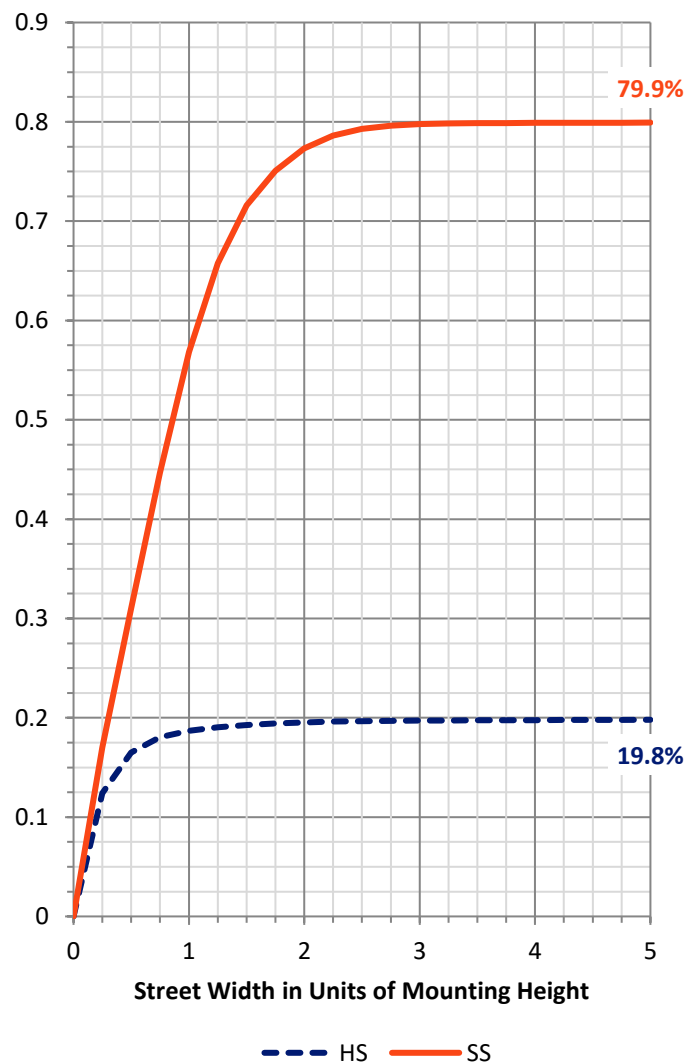
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4995.5   | 0.0    | 4995.5  |
|                    | % Fixture | 20.0     | 0.0    | 20.0    |
| <b>Street Side</b> | Lumens    | 19944.5  | 0.0    | 19944.5 |
|                    | % Fixture | 80.0     | 0.0    | 80.0    |
| <b>Total</b>       | Lumens    | 24940.0  | 0.0    | 24940.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 921.9   | 3.7       |
| 10°-20°   | 1832.2  | 7.3       |
| 20°-30°   | 2752.5  | 11.0      |
| 30°-40°   | 4131.5  | 16.6      |
| 40°-50°   | 5806.5  | 23.3      |
| 50°-60°   | 6263.3  | 25.1      |
| 60°-70°   | 2908.0  | 11.7      |
| 70°-80°   | 273.6   | 1.1       |
| 80°-90°   | 50.4    | 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°    | 24940.0 | 100.0     |
| 0°-180°   | 24940.0 | 100.0     |

**Coefficient of Utilization**



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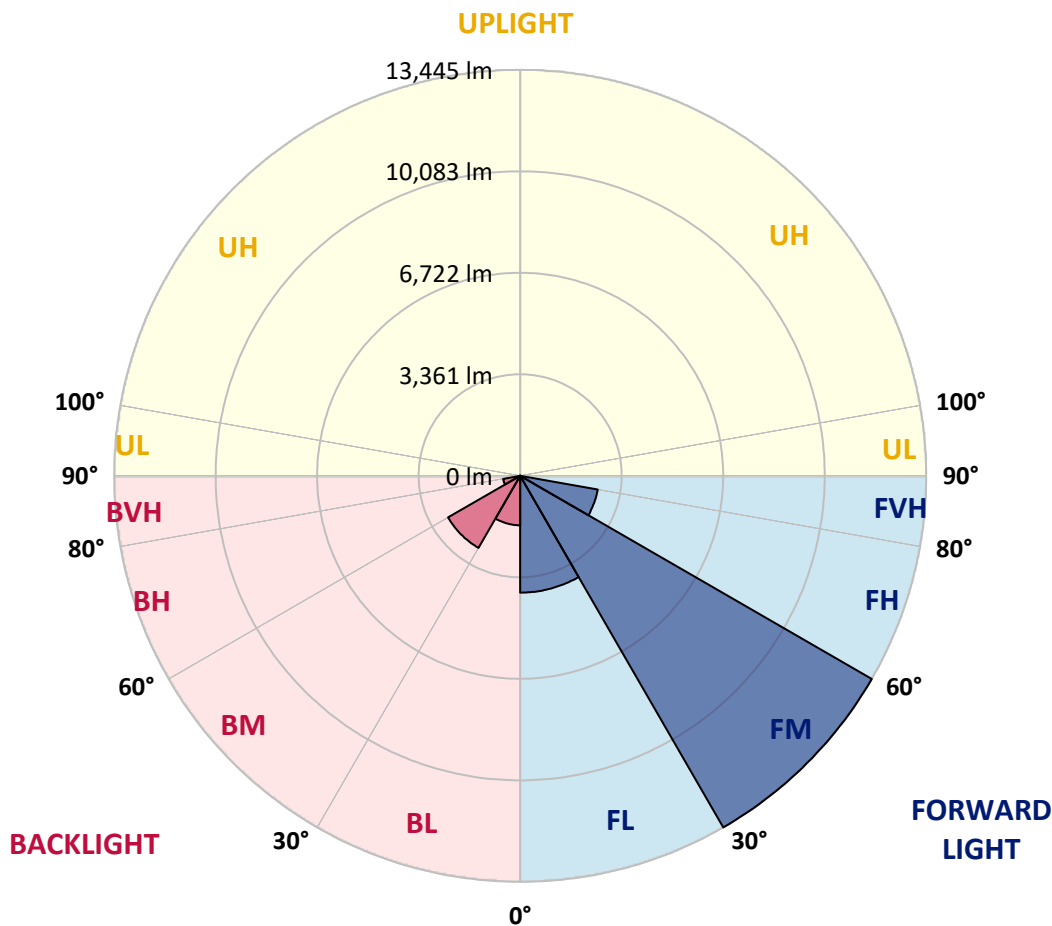
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3869.2  | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 13444.5 | 53.9      |                         |      |         |
| FH   | (60°-80°)   | 2608.0  | 10.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 22.7    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1637.4  | 6.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2756.8  | 11.1      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 573.6   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 27.7    | 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°    | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 |
| 2.5°  | 13147.5 | 12944.6 | 12687.3 | 12474.5 | 12157.8 | 11519.5 | 11346.3 | 11138.5 | 10965.3 | 10732.8 | 10406.2 |
| 5°    | 11955.0 | 11890.6 | 11771.9 | 10970.3 | 10391.3 | 9619.4  | 8986.0  | 8718.8  | 8367.5  | 8080.5  | 7872.7  |
| 7.5°  | 11044.5 | 10787.2 | 10411.1 | 9604.6  | 8679.2  | 7852.9  | 7150.2  | 6739.5  | 6274.4  | 6116.0  | 5834.0  |
| 10°   | 10069.7 | 10129.1 | 9574.9  | 8441.7  | 7323.4  | 6655.4  | 6219.9  | 5824.1  | 5403.5  | 5126.4  | 4725.6  |
| 12.5° | 9757.9  | 9565.0  | 9139.4  | 7739.1  | 6784.0  | 6160.6  | 5631.1  | 5141.2  | 4695.9  | 4250.5  | 3864.6  |
| 15°   | 9960.8  | 9663.9  | 9070.1  | 7590.6  | 6368.4  | 5591.5  | 4928.5  | 4265.4  | 3854.7  | 3285.6  | 2884.8  |
| 17.5° | 10688.2 | 10450.7 | 9654.0  | 7749.0  | 6155.6  | 5047.2  | 4062.5  | 3379.7  | 2751.2  | 2236.6  | 2033.7  |
| 20°   | 11900.5 | 11564.1 | 10564.5 | 7951.8  | 5838.9  | 4389.1  | 3295.5  | 2454.3  | 1860.5  | 1642.8  | 1529.0  |
| 22.5° | 13088.1 | 12905.0 | 11643.2 | 8342.7  | 5556.9  | 3805.2  | 2474.1  | 1652.7  | 1390.5  | 1350.9  | 1276.6  |
| 25°   | 15349.5 | 14800.2 | 13291.0 | 9050.3  | 5339.2  | 3255.9  | 1865.5  | 1331.1  | 1177.7  | 1148.0  | 1157.9  |
| 27.5° | 16695.4 | 16235.2 | 14815.1 | 9520.4  | 5096.7  | 2835.3  | 1578.5  | 1222.2  | 1118.3  | 1054.0  | 1029.2  |
| 30°   | 17986.9 | 17452.5 | 15572.1 | 9797.5  | 4577.1  | 2390.0  | 1400.4  | 1172.7  | 1148.0  | 1054.0  | 1024.3  |
| 32.5° | 18981.5 | 18457.0 | 16665.7 | 10213.2 | 4364.4  | 2103.0  | 1152.9  | 915.4   | 851.1   | 841.2   | 930.3   |
| 35°   | 20505.5 | 19946.4 | 17600.9 | 10440.8 | 4201.1  | 1954.6  | 999.5   | 816.5   | 742.2   | 712.5   | 717.5   |
| 37.5° | 21925.7 | 21544.7 | 18466.9 | 10529.9 | 4027.9  | 1910.0  | 895.6   | 732.3   | 668.0   | 648.2   | 643.3   |
| 40°   | 23113.3 | 22262.2 | 19288.3 | 10623.9 | 3953.7  | 1825.9  | 831.3   | 668.0   | 623.5   | 593.8   | 593.8   |
| 42.5° | 23657.6 | 22791.6 | 20208.6 | 10569.5 | 3933.9  | 1692.3  | 831.3   | 613.6   | 578.9   | 549.3   | 544.3   |
| 45°   | 23538.8 | 23187.5 | 20619.4 | 10544.7 | 3933.9  | 1558.7  | 757.1   | 598.7   | 549.3   | 509.7   | 499.8   |
| 47.5° | 23845.6 | 23385.4 | 21134.0 | 10648.6 | 3854.7  | 1464.7  | 638.3   | 628.4   | 519.6   | 470.1   | 460.2   |
| 50°   | 23900.0 | 23989.1 | 22029.6 | 11188.0 | 3681.5  | 1345.9  | 499.8   | 618.5   | 499.8   | 425.5   | 415.7   |
| 52°   | 24256.3 | 23702.1 | 22301.8 | 11475.0 | 3498.4  | 1256.9  | 420.6   | 529.5   | 480.0   | 395.9   | 386.0   |
| 52.5° | 23766.4 | 24127.7 | 22366.1 | 11578.9 | 3518.2  | 1197.5  | 405.8   | 519.6   | 470.1   | 395.9   | 371.1   |
| 55°   | 23217.2 | 23563.6 | 22103.8 | 11801.6 | 3226.3  | 940.2   | 316.7   | 376.1   | 425.5   | 346.4   | 331.5   |
| 57.5° | 20179.0 | 20530.3 | 19209.1 | 10807.0 | 2627.5  | 663.1   | 262.3   | 282.1   | 376.1   | 321.6   | 306.8   |
| 60°   | 17937.4 | 17685.0 | 16121.4 | 9015.7  | 1865.5  | 371.1   | 207.8   | 217.7   | 410.7   | 296.9   | 291.9   |
| 62.5° | 16393.5 | 15854.2 | 13474.1 | 6962.2  | 1138.1  | 247.4   | 163.3   | 168.2   | 316.7   | 277.1   | 277.1   |
| 65°   | 12128.2 | 11524.5 | 8951.4  | 4211.0  | 559.2   | 173.2   | 123.7   | 133.6   | 197.9   | 237.5   | 237.5   |
| 67.5° | 6922.6  | 6690.0  | 4324.8  | 1900.1  | 232.6   | 108.9   | 94.0    | 103.9   | 153.4   | 193.0   | 183.1   |
| 70°   | 3181.7  | 2855.1  | 1662.6  | 400.8   | 108.9   | 74.2    | 74.2    | 84.1    | 123.7   | 143.5   | 133.6   |
| 72.5° | 930.3   | 880.8   | 405.8   | 64.3    | 44.5    | 44.5    | 49.5    | 64.3    | 94.0    | 108.9   | 99.0    |
| 75°   | 69.3    | 44.5    | 29.7    | 19.8    | 19.8    | 29.7    | 39.6    | 64.3    | 94.0    | 103.9   | 84.1    |
| 77.5° | 4.9     | 9.9     | 4.9     | 4.9     | 14.8    | 29.7    | 44.5    | 79.2    | 123.7   | 128.7   | 94.0    |
| 80°   | 4.9     | 4.9     | 0.0     | 4.9     | 14.8    | 29.7    | 49.5    | 89.1    | 138.6   | 148.4   | 79.2    |
| 82.5° | 0.0     | 0.0     | 0.0     | 4.9     | 19.8    | 39.6    | 59.4    | 94.0    | 128.7   | 158.3   | 84.1    |
| 85°   | 0.0     | 0.0     | 0.0     | 4.9     | 29.7    | 54.4    | 69.3    | 24.7    | 14.8    | 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°    | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 |
| 2.5°  | 10638.7 | 10510.1 | 10460.6 | 10505.1 | 10490.3 | 10475.4 | 10747.6 | 10688.2 | 10678.3 | 10767.4 | 10747.6 |
| 5°    | 7986.5  | 7758.9  | 8382.3  | 8130.0  | 8392.2  | 8550.6  | 8580.3  | 8595.1  | 8778.2  | 8585.2  | 8837.6  |
| 7.5°  | 5690.5  | 5749.9  | 5744.9  | 5913.2  | 6215.0  | 6482.2  | 6640.5  | 6516.8  | 6506.9  | 6482.2  | 6373.3  |
| 10°   | 4547.4  | 4443.5  | 4423.7  | 4384.1  | 4478.2  | 4705.8  | 4898.8  | 4745.4  | 4636.5  | 4785.0  | 4740.4  |
| 12.5° | 3716.1  | 3572.6  | 3493.5  | 3335.1  | 3340.1  | 3493.5  | 3493.5  | 3493.5  | 3602.3  | 3686.4  | 3750.8  |
| 15°   | 2850.2  | 2731.4  | 2731.4  | 2573.1  | 2538.5  | 2543.4  | 2622.6  | 2632.5  | 2805.7  | 2855.1  | 2879.9  |
| 17.5° | 1994.1  | 1929.8  | 2004.0  | 2068.4  | 2028.8  | 2038.7  | 2068.4  | 2078.3  | 2103.0  | 2083.2  | 2132.7  |
| 20°   | 1534.0  | 1524.1  | 1543.9  | 1657.7  | 1741.8  | 1791.3  | 1756.6  | 1707.1  | 1677.5  | 1608.2  | 1608.2  |
| 22.5° | 1301.4  | 1321.2  | 1355.8  | 1449.8  | 1558.7  | 1588.4  | 1548.8  | 1435.0  | 1345.9  | 1336.0  | 1341.0  |
| 25°   | 1157.9  | 1177.7  | 1232.1  | 1291.5  | 1350.9  | 1400.4  | 1360.8  | 1276.6  | 1227.2  | 1182.6  | 1182.6  |
| 27.5° | 1068.8  | 1078.7  | 1108.4  | 1152.9  | 1202.4  | 1242.0  | 1227.2  | 1182.6  | 1128.2  | 1108.4  | 1063.9  |
| 30°   | 999.5   | 1014.4  | 1049.0  | 1058.9  | 1103.5  | 1123.3  | 1098.5  | 1088.6  | 1054.0  | 1029.2  | 1014.4  |
| 32.5° | 964.9   | 960.0   | 984.7   | 994.6   | 999.5   | 1014.4  | 984.7   | 999.5   | 994.6   | 955.0   | 940.2   |
| 35°   | 727.4   | 767.0   | 831.3   | 885.7   | 900.6   | 920.4   | 915.4   | 895.6   | 841.2   | 796.7   | 742.2   |
| 37.5° | 653.2   | 677.9   | 712.5   | 757.1   | 816.5   | 841.2   | 831.3   | 781.8   | 717.5   | 687.8   | 677.9   |
| 40°   | 603.7   | 618.5   | 648.2   | 677.9   | 737.3   | 781.8   | 747.2   | 702.7   | 653.2   | 628.4   | 613.6   |
| 42.5° | 559.2   | 564.1   | 578.9   | 608.6   | 653.2   | 722.4   | 663.1   | 603.7   | 583.9   | 569.0   | 559.2   |
| 45°   | 509.7   | 509.7   | 529.5   | 544.3   | 593.8   | 658.1   | 598.7   | 544.3   | 534.4   | 524.5   | 519.6   |
| 47.5° | 470.1   | 475.0   | 484.9   | 504.7   | 544.3   | 588.8   | 549.3   | 504.7   | 480.0   | 475.0   | 465.1   |
| 50°   | 420.6   | 425.5   | 445.3   | 465.1   | 514.6   | 539.4   | 514.6   | 465.1   | 440.4   | 425.5   | 425.5   |
| 52°   | 381.0   | 395.9   | 415.7   | 455.2   | 489.9   | 529.5   | 499.8   | 445.3   | 415.7   | 400.8   | 390.9   |
| 52.5° | 376.1   | 386.0   | 405.8   | 450.3   | 489.9   | 524.5   | 494.8   | 440.4   | 405.8   | 395.9   | 386.0   |
| 55°   | 336.5   | 351.3   | 386.0   | 440.4   | 484.9   | 524.5   | 484.9   | 435.4   | 386.0   | 361.2   | 351.3   |
| 57.5° | 321.6   | 331.5   | 376.1   | 445.3   | 480.0   | 524.5   | 484.9   | 435.4   | 386.0   | 341.4   | 331.5   |
| 60°   | 306.8   | 326.6   | 376.1   | 430.5   | 475.0   | 529.5   | 489.9   | 430.5   | 376.1   | 321.6   | 321.6   |
| 62.5° | 291.9   | 306.8   | 371.1   | 420.6   | 455.2   | 509.7   | 470.1   | 420.6   | 361.2   | 306.8   | 301.8   |
| 65°   | 252.4   | 277.1   | 326.6   | 351.3   | 390.9   | 440.4   | 400.8   | 366.2   | 316.7   | 272.2   | 267.2   |
| 67.5° | 193.0   | 202.9   | 242.5   | 272.2   | 296.9   | 341.4   | 321.6   | 277.1   | 242.5   | 207.8   | 207.8   |
| 70°   | 133.6   | 143.5   | 173.2   | 188.0   | 212.8   | 237.5   | 222.7   | 188.0   | 163.3   | 143.5   | 138.6   |
| 72.5° | 94.0    | 99.0    | 108.9   | 118.8   | 128.7   | 138.6   | 133.6   | 108.9   | 94.0    | 89.1    | 84.1    |
| 75°   | 74.2    | 84.1    | 89.1    | 84.1    | 79.2    | 74.2    | 74.2    | 64.3    | 54.4    | 49.5    | 49.5    |
| 77.5° | 74.2    | 79.2    | 74.2    | 64.3    | 54.4    | 49.5    | 44.5    | 39.6    | 29.7    | 24.7    | 29.7    |
| 80°   | 64.3    | 64.3    | 64.3    | 54.4    | 49.5    | 44.5    | 39.6    | 34.6    | 29.7    | 24.7    | 24.7    |
| 82.5° | 69.3    | 69.3    | 64.3    | 54.4    | 54.4    | 44.5    | 44.5    | 39.6    | 34.6    | 24.7    | 24.7    |
| 85°   | 0.0     | 0.0     | 0.0     | 9.9     | 24.7    | 44.5    | 44.5    | 39.6    | 34.6    | 29.7    | 29.7    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 4.9     | 9.9     | 19.8    | 24.7    | 29.7    | 29.7    | 29.7    |
| 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°    | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 |
| 2.5°  | 10925.7 | 11113.8 | 11470.0 | 11826.3 | 12044.0 | 12301.3 | 12766.5 | 13013.9 | 13335.5 | 13493.9 | 13805.6 |
| 5°    | 8802.9  | 9248.3  | 9406.6  | 9812.4  | 10247.8 | 10683.3 | 11376.0 | 12138.1 | 12771.4 | 13206.9 | 13771.0 |
| 7.5°  | 6422.8  | 6526.7  | 7140.3  | 7412.5  | 8125.0  | 8916.7  | 9861.9  | 10821.8 | 11623.4 | 12336.0 | 12766.5 |
| 10°   | 4814.6  | 5195.7  | 5581.6  | 6101.2  | 6675.2  | 7491.6  | 8397.2  | 9456.1  | 10495.2 | 11207.8 | 11752.1 |
| 12.5° | 3869.5  | 4171.4  | 4686.0  | 5245.1  | 5952.7  | 6492.1  | 7402.6  | 8451.6  | 9797.5  | 10495.2 | 11212.7 |
| 15°   | 2929.4  | 3315.3  | 3899.2  | 4478.2  | 5225.4  | 5794.4  | 6714.8  | 8036.0  | 9767.8  | 10727.8 | 11346.3 |
| 17.5° | 2172.3  | 2434.5  | 2959.1  | 3607.3  | 4369.3  | 5170.9  | 6412.9  | 7991.4  | 10099.4 | 11242.4 | 11880.7 |
| 20°   | 1662.6  | 1751.7  | 2083.2  | 2662.2  | 3488.5  | 4537.5  | 5923.1  | 8184.4  | 11079.1 | 12494.3 | 13142.5 |
| 22.5° | 1345.9  | 1385.5  | 1514.2  | 1915.0  | 2716.6  | 3983.3  | 5690.5  | 8318.0  | 12182.6 | 13993.6 | 14859.6 |
| 25°   | 1172.7  | 1162.8  | 1247.0  | 1420.1  | 2122.8  | 3463.8  | 5393.6  | 8822.7  | 13533.5 | 15755.2 | 16532.1 |
| 27.5° | 1068.8  | 1068.8  | 1108.4  | 1232.1  | 1761.6  | 3127.3  | 5205.6  | 9183.9  | 14894.2 | 17304.0 | 17724.6 |
| 30°   | 1014.4  | 1024.3  | 1138.1  | 1177.7  | 1464.7  | 2726.5  | 4893.8  | 9550.1  | 16195.6 | 18293.7 | 18872.6 |
| 32.5° | 940.2   | 900.6   | 875.8   | 974.8   | 1232.1  | 2365.3  | 4582.1  | 9703.5  | 17249.6 | 19506.0 | 20000.8 |
| 35°   | 722.4   | 702.7   | 732.3   | 806.6   | 1058.9  | 2058.5  | 4235.7  | 9876.7  | 18461.9 | 20911.3 | 21010.3 |
| 37.5° | 653.2   | 648.2   | 668.0   | 732.3   | 890.7   | 1791.3  | 3988.3  | 9832.2  | 19387.2 | 22074.1 | 21806.9 |
| 40°   | 603.7   | 603.7   | 618.5   | 673.0   | 796.7   | 1603.2  | 3731.0  | 9792.6  | 20282.9 | 23380.5 | 22598.7 |
| 42.5° | 564.1   | 564.1   | 588.8   | 623.5   | 757.1   | 1479.5  | 3538.0  | 9738.2  | 21035.0 | 24182.1 | 23063.8 |
| 45°   | 509.7   | 524.5   | 564.1   | 598.7   | 767.0   | 1395.4  | 3394.5  | 9530.3  | 21292.3 | 24172.2 | 22841.1 |
| 47.5° | 470.1   | 489.9   | 529.5   | 578.9   | 692.8   | 1370.7  | 3295.5  | 9347.2  | 21203.2 | 23578.4 | 22143.4 |
| 50°   | 425.5   | 450.3   | 504.7   | 588.8   | 588.8   | 1321.2  | 3191.6  | 9510.5  | 21138.9 | 23118.2 | 21475.4 |
| 52°   | 395.9   | 415.7   | 484.9   | 574.0   | 514.6   | 1217.3  | 3127.3  | 9827.2  | 21401.2 | 23058.8 | 21178.5 |
| 52.5° | 390.9   | 405.8   | 470.1   | 564.1   | 489.9   | 1197.5  | 3082.8  | 9901.4  | 21485.3 | 22910.4 | 21381.4 |
| 55°   | 346.4   | 366.2   | 430.5   | 440.4   | 400.8   | 984.7   | 2939.3  | 10069.7 | 21069.6 | 22618.4 | 21188.4 |
| 57.5° | 326.6   | 336.5   | 381.0   | 361.2   | 346.4   | 742.2   | 2528.6  | 9807.4  | 18714.3 | 20089.9 | 19713.8 |
| 60°   | 301.8   | 311.7   | 356.3   | 282.1   | 291.9   | 519.6   | 1900.1  | 8515.9  | 15027.8 | 16739.9 | 17417.8 |
| 62.5° | 291.9   | 287.0   | 336.5   | 227.6   | 247.4   | 376.1   | 1341.0  | 6922.6  | 11578.9 | 13780.9 | 14953.6 |
| 65°   | 257.3   | 252.4   | 242.5   | 193.0   | 212.8   | 291.9   | 801.6   | 4517.8  | 8159.7  | 10426.0 | 11069.2 |
| 67.5° | 197.9   | 207.8   | 178.1   | 153.4   | 178.1   | 227.6   | 445.3   | 2023.8  | 4280.2  | 6254.6  | 6774.2  |
| 70°   | 138.6   | 148.4   | 143.5   | 133.6   | 158.3   | 188.0   | 257.3   | 692.8   | 1771.5  | 3285.6  | 3622.1  |
| 72.5° | 84.1    | 103.9   | 108.9   | 113.8   | 138.6   | 163.3   | 183.1   | 222.7   | 470.1   | 1162.8  | 1444.9  |
| 75°   | 49.5    | 69.3    | 84.1    | 99.0    | 113.8   | 138.6   | 153.4   | 158.3   | 163.3   | 217.7   | 351.3   |
| 77.5° | 34.6    | 49.5    | 74.2    | 94.0    | 113.8   | 138.6   | 163.3   | 173.2   | 163.3   | 153.4   | 163.3   |
| 80°   | 29.7    | 49.5    | 69.3    | 89.1    | 118.8   | 143.5   | 163.3   | 163.3   | 158.3   | 138.6   | 148.4   |
| 82.5° | 29.7    | 49.5    | 74.2    | 94.0    | 113.8   | 138.6   | 158.3   | 163.3   | 148.4   | 138.6   | 143.5   |
| 85°   | 34.6    | 54.4    | 79.2    | 99.0    | 123.7   | 113.8   | 103.9   | 84.1    | 79.2    | 64.3    | 69.3    |
| 87.5° | 34.6    | 49.5    | 49.5    | 54.4    | 59.4    | 59.4    | 59.4    | 54.4    | 44.5    | 39.6    | 39.6    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 | 12647.7 |
| 2.5°  | 13820.5 | 14216.3 | 14201.5 | 14211.4 | 14152.0 | 13751.2 | 13558.2 | 13068.3 | 13206.9 | 13147.5 |
| 5°    | 14349.9 | 14740.8 | 15077.3 | 15037.7 | 14582.5 | 14038.2 | 13231.6 | 12469.6 | 12261.8 | 11955.0 |
| 7.5°  | 13820.5 | 14760.6 | 15072.4 | 15027.8 | 14354.9 | 13657.2 | 12370.6 | 11608.6 | 11247.4 | 11044.5 |
| 10°   | 12979.3 | 14067.9 | 14453.8 | 14533.0 | 14077.8 | 13018.8 | 11836.2 | 10614.0 | 10421.0 | 10069.7 |
| 12.5° | 12499.3 | 13291.0 | 13528.5 | 13741.3 | 13582.9 | 12791.2 | 11430.5 | 10257.7 | 9990.5  | 9757.9  |
| 15°   | 12108.4 | 12578.4 | 12677.4 | 12919.9 | 13013.9 | 12588.3 | 11643.2 | 10643.7 | 9985.6  | 9960.8  |
| 17.5° | 12469.6 | 12276.6 | 11915.4 | 11989.6 | 12286.5 | 12593.3 | 12192.5 | 11405.7 | 10767.4 | 10688.2 |
| 20°   | 13068.3 | 12217.2 | 11400.8 | 11583.9 | 11831.3 | 12771.4 | 13023.8 | 12469.6 | 12103.4 | 11900.5 |
| 22.5° | 13756.1 | 12321.1 | 11237.5 | 11326.5 | 11796.6 | 13172.2 | 14369.7 | 14062.9 | 13380.1 | 13088.1 |
| 25°   | 15027.8 | 12608.1 | 11366.1 | 11425.5 | 12068.8 | 13731.4 | 15587.0 | 15814.6 | 15408.8 | 15349.5 |
| 27.5° | 16269.8 | 13350.4 | 11648.2 | 11514.6 | 12207.3 | 14275.7 | 16324.3 | 17546.5 | 16833.9 | 16695.4 |
| 30°   | 16903.2 | 13954.1 | 12068.8 | 11841.2 | 12781.3 | 14607.2 | 16769.6 | 18674.7 | 18051.2 | 17986.9 |
| 32.5° | 17873.1 | 14503.3 | 12395.4 | 12103.4 | 13103.0 | 15017.9 | 17600.9 | 19906.8 | 19303.1 | 18981.5 |
| 35°   | 18278.8 | 15102.1 | 13112.9 | 12771.4 | 14023.3 | 15591.9 | 18026.5 | 21005.3 | 20817.3 | 20505.5 |
| 37.5° | 19060.7 | 15745.3 | 13959.0 | 13939.2 | 15136.7 | 16339.1 | 18793.4 | 22499.7 | 22465.0 | 21925.7 |
| 40°   | 19125.0 | 16448.0 | 15295.0 | 15918.5 | 16858.7 | 17640.5 | 19466.4 | 22915.3 | 23479.4 | 23113.3 |
| 42.5° | 19223.9 | 17680.1 | 17605.9 | 18120.5 | 18927.1 | 18758.8 | 19491.2 | 23014.3 | 23875.3 | 23657.6 |
| 45°   | 19268.5 | 18912.2 | 19956.3 | 20906.4 | 21242.8 | 20223.5 | 19258.6 | 22826.3 | 24083.1 | 23538.8 |
| 47.5° | 18912.2 | 19971.1 | 21856.4 | 23692.2 | 23791.2 | 21124.1 | 19159.6 | 22633.3 | 24206.8 | 23845.6 |
| 50°   | 18961.7 | 20634.2 | 23499.2 | 25142.1 | 24780.8 | 21920.7 | 19006.2 | 22514.5 | 24142.5 | 23900.0 |
| 52°   | 18842.9 | 20649.0 | 23731.8 | 25112.4 | 24860.0 | 21480.3 | 18744.0 | 22059.3 | 24083.1 | 24256.3 |
| 52.5° | 18976.5 | 20560.0 | 23489.3 | 25132.2 | 24805.6 | 21698.1 | 18709.3 | 22311.7 | 24117.8 | 23766.4 |
| 55°   | 18516.3 | 19501.0 | 22069.2 | 22766.9 | 22717.4 | 19694.0 | 17645.5 | 21475.4 | 23212.2 | 23217.2 |
| 57.5° | 16735.0 | 16903.2 | 17309.0 | 17294.1 | 17066.5 | 15483.1 | 15092.2 | 19748.5 | 20693.6 | 20179.0 |
| 60°   | 14745.8 | 12375.6 | 11282.0 | 10836.7 | 10584.3 | 10327.0 | 13350.4 | 18066.1 | 18155.1 | 17937.4 |
| 62.5° | 12741.7 | 8580.3  | 7125.5  | 7001.8  | 7061.2  | 8001.3  | 12905.0 | 17398.0 | 16863.6 | 16393.5 |
| 65°   | 10282.5 | 6254.6  | 5175.9  | 5012.6  | 5591.5  | 6605.9  | 10445.8 | 13340.5 | 12519.1 | 12128.2 |
| 67.5° | 6457.5  | 4562.3  | 3498.4  | 3191.6  | 3889.3  | 4547.4  | 6863.2  | 8382.3  | 7462.0  | 6922.6  |
| 70°   | 3829.9  | 2548.3  | 1583.4  | 1420.1  | 1598.3  | 2424.6  | 3844.8  | 4181.3  | 3458.8  | 3181.7  |
| 72.5° | 1509.2  | 935.2   | 440.4   | 376.1   | 390.9   | 851.1   | 1415.2  | 1380.6  | 1044.1  | 930.3   |
| 75°   | 405.8   | 282.1   | 153.4   | 123.7   | 103.9   | 158.3   | 227.6   | 148.4   | 54.4    | 69.3    |
| 77.5° | 188.0   | 168.2   | 133.6   | 103.9   | 79.2    | 59.4    | 29.7    | 9.9     | 9.9     | 4.9     |
| 80°   | 163.3   | 143.5   | 123.7   | 103.9   | 79.2    | 49.5    | 24.7    | 4.9     | 4.9     | 4.9     |
| 82.5° | 153.4   | 133.6   | 113.8   | 94.0    | 74.2    | 49.5    | 24.7    | 4.9     | 0.0     | 0.0     |
| 85°   | 64.3    | 84.1    | 94.0    | 89.1    | 79.2    | 49.5    | 24.7    | 4.9     | 0.0     | 0.0     |
| 87.5° | 34.6    | 29.7    | 24.7    | 19.8    | 14.8    | 9.9     | 9.9     | 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)