

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: P453857

Luminaire Tested: **GALN-SA4D-830-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4D-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20962 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 245  
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

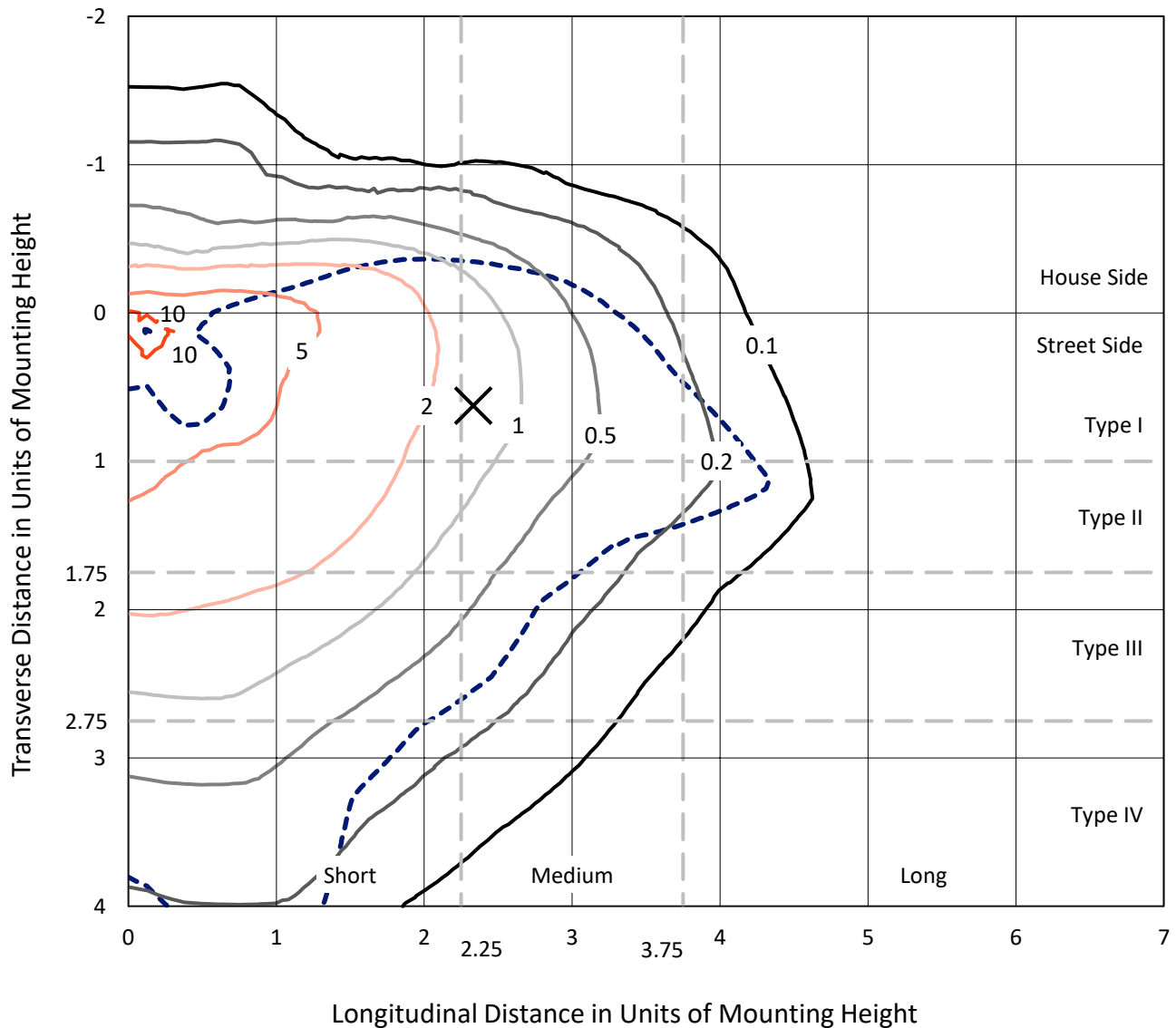


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## Iso-Footcandle Lines of Horizontal Illumination

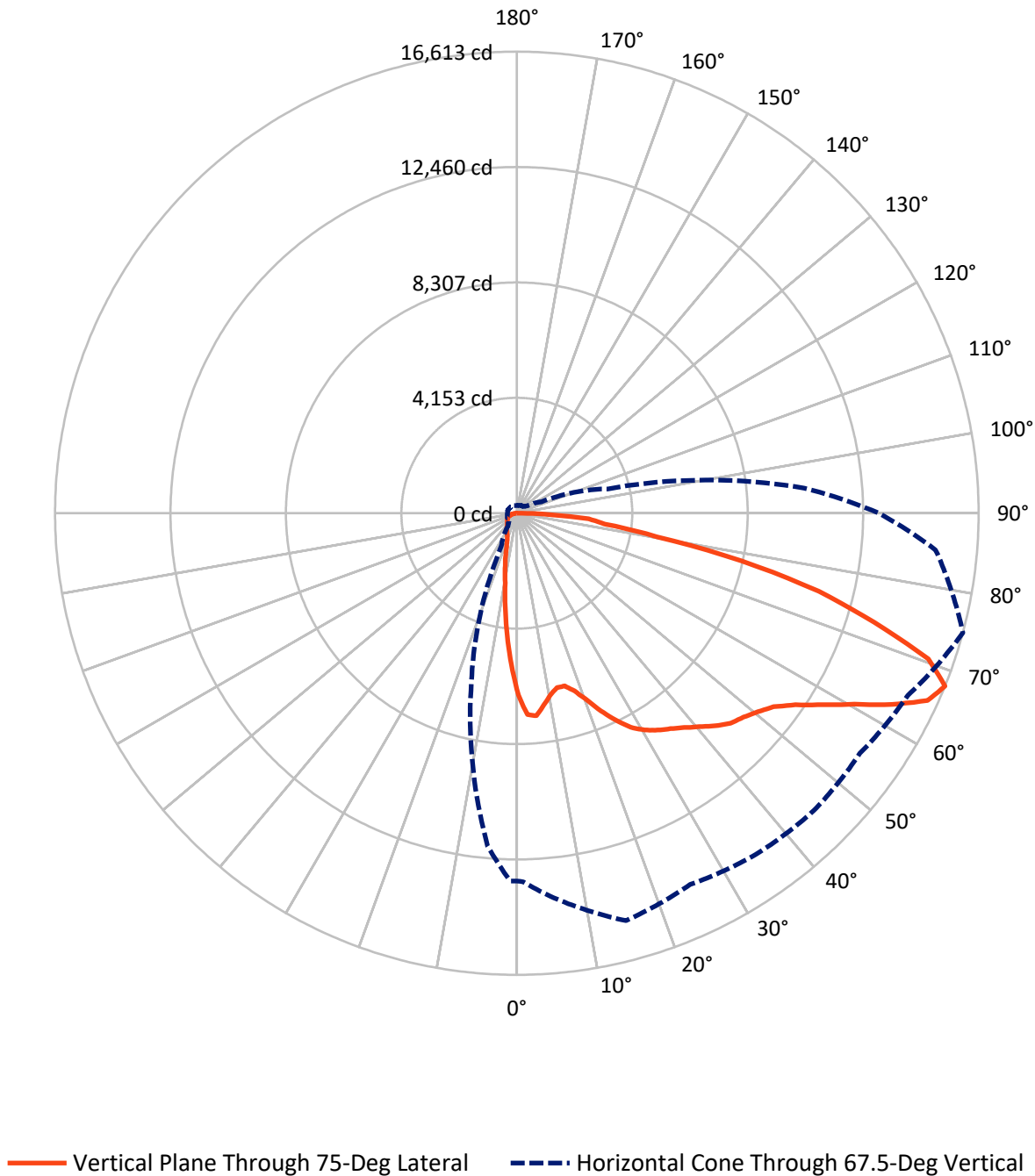
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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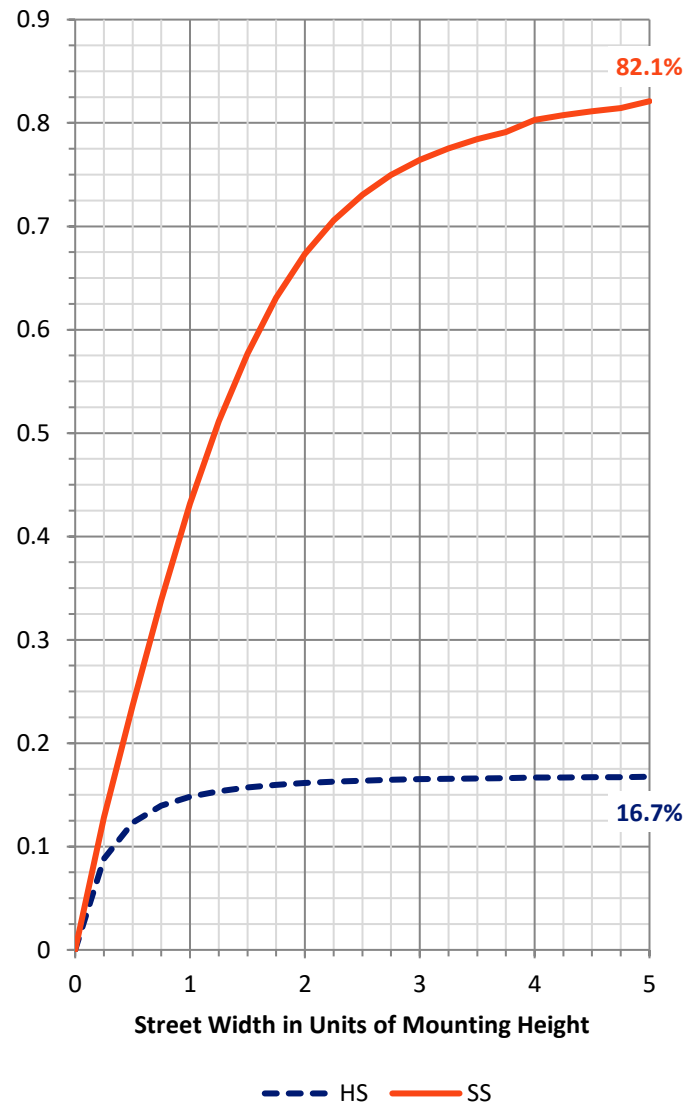
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3543.0   | 0.0    | 3543.0  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 17419.0  | 0.0    | 17419.0 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 20962.0  | 0.0    | 20962.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 496.7   | 2.4       |
| 10°-20°   | 1035.9  | 4.9       |
| 20°-30°   | 1490.7  | 7.1       |
| 30°-40°   | 2147.1  | 10.2      |
| 40°-50°   | 3016.0  | 14.4      |
| 50°-60°   | 4206.3  | 20.1      |
| 60°-70°   | 5001.0  | 23.9      |
| 70°-80°   | 2945.3  | 14.1      |
| 80°-90°   | 622.8   | 3.0       |
| 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°    | 20962.0 | 100.0     |
| 0°-180°   | 20962.0 | 100.0     |

**Coefficient of Utilization**



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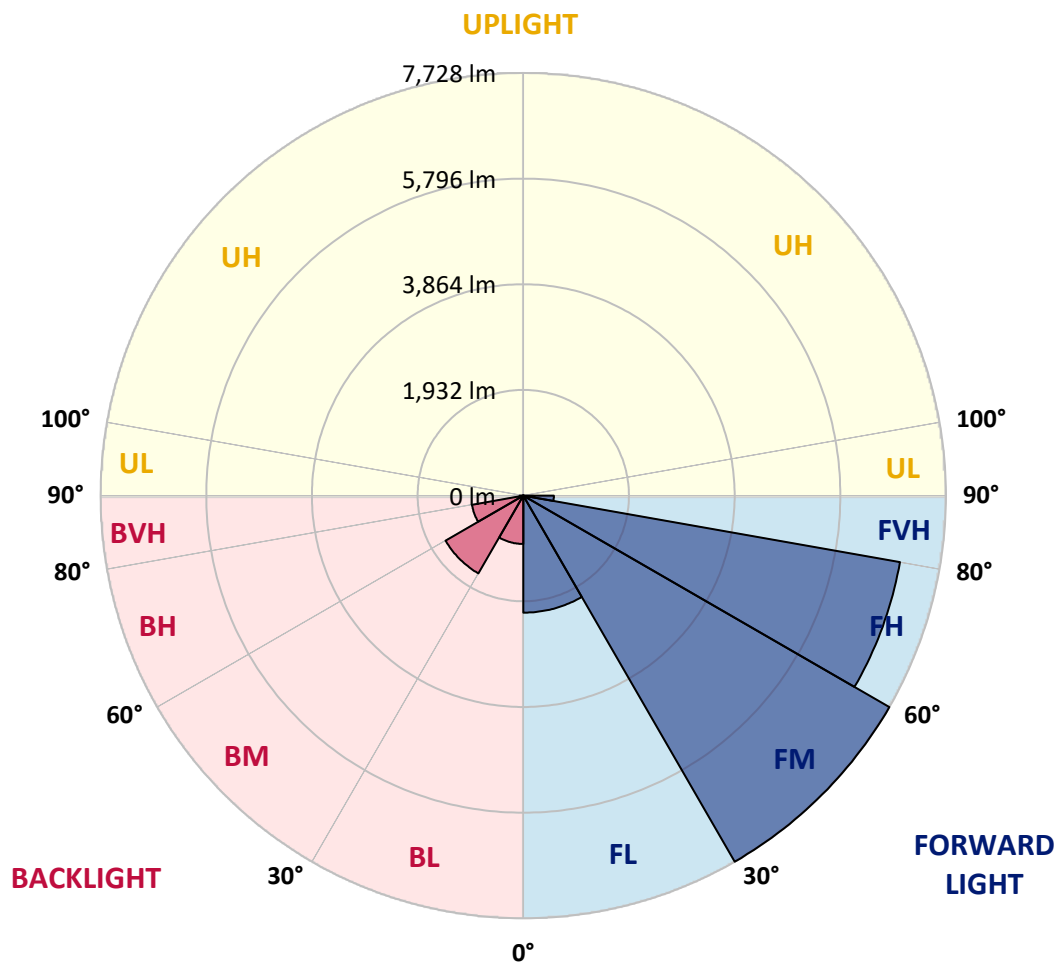
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2139.6 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 7727.9 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 6993.0 | 33.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 558.4  | 2.7       |                         |      | G4/750  |
| BL   | (0°-30°)    | 883.7  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1641.5 | 7.8       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 953.4  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 64.4   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  | 6549.0  |
| 2.5°  | 7061.2  | 7070.6  | 7131.1  | 7307.2  | 7428.1  | 7472.5  | 7503.4  | 7445.6  | 7389.2  | 7252.1  | 7045.0  |
| 5°    | 7039.7  | 7094.8  | 7252.1  | 7647.3  | 7959.1  | 8093.5  | 8133.9  | 7960.5  | 7674.1  | 7321.9  | 6898.5  |
| 7.5°  | 6628.3  | 6702.3  | 6944.2  | 7606.9  | 8156.7  | 8471.3  | 8429.6  | 8116.4  | 7600.2  | 6972.5  | 6381.0  |
| 10°   | 6140.4  | 6222.4  | 6514.1  | 7315.2  | 8023.6  | 8456.5  | 8456.5  | 8074.7  | 7389.2  | 6643.1  | 5961.6  |
| 12.5° | 5753.2  | 5839.3  | 6172.6  | 7015.5  | 7746.7  | 8156.7  | 8225.3  | 7897.3  | 7237.3  | 6434.8  | 5686.0  |
| 15°   | 5625.5  | 5708.9  | 6067.8  | 6834.0  | 7453.7  | 7703.7  | 7726.6  | 7619.0  | 7163.3  | 6449.6  | 5673.9  |
| 17.5° | 5784.2  | 5891.7  | 6254.6  | 6887.8  | 7184.8  | 7199.6  | 7217.1  | 7301.8  | 7171.4  | 6719.7  | 5918.6  |
| 20°   | 6242.5  | 6358.1  | 6737.2  | 7061.2  | 6949.6  | 6796.4  | 6805.8  | 7023.5  | 7266.8  | 7166.0  | 6503.3  |
| 22.5° | 6903.9  | 7004.7  | 7393.2  | 7366.3  | 6850.1  | 6534.2  | 6468.4  | 6772.2  | 7408.0  | 7722.5  | 7125.7  |
| 25°   | 7617.7  | 7736.0  | 8182.2  | 7819.3  | 6878.4  | 6378.3  | 6336.6  | 6624.3  | 7554.5  | 8242.7  | 7844.8  |
| 27.5° | 8435.0  | 8550.6  | 8902.7  | 8276.3  | 7026.2  | 6366.2  | 6316.5  | 6610.9  | 7686.2  | 8724.0  | 8531.7  |
| 30°   | 9042.5  | 9148.7  | 9388.0  | 8660.8  | 7207.7  | 6446.9  | 6385.0  | 6717.1  | 7799.1  | 9053.3  | 9201.2  |
| 32.5° | 9519.7  | 9630.0  | 9760.4  | 8900.1  | 7447.0  | 6593.4  | 6479.1  | 6910.6  | 7947.0  | 9304.7  | 9697.2  |
| 35°   | 10017.1 | 10147.5 | 10138.1 | 9112.4  | 7670.1  | 6762.8  | 6651.2  | 7190.2  | 8179.6  | 9523.8  | 10326.3 |
| 37.5° | 10647.5 | 10700.0 | 10632.8 | 9303.3  | 7937.6  | 7067.9  | 7006.1  | 7605.6  | 8510.2  | 9788.6  | 11061.6 |
| 40°   | 11287.4 | 11392.2 | 11046.8 | 9534.5  | 8262.9  | 7641.9  | 7635.2  | 8219.9  | 8902.7  | 10099.1 | 11774.0 |
| 42.5° | 11835.8 | 11924.5 | 11433.9 | 9736.2  | 8656.8  | 8342.2  | 8393.3  | 9043.9  | 9417.6  | 10459.4 | 12346.6 |
| 45°   | 12248.5 | 12327.8 | 11791.5 | 9931.1  | 9175.6  | 9151.4  | 9452.5  | 9927.0  | 10066.8 | 10783.3 | 12682.7 |
| 47.5° | 12599.3 | 12676.0 | 12040.2 | 10226.8 | 9816.8  | 10117.9 | 10642.2 | 10847.8 | 10622.0 | 10968.8 | 13059.1 |
| 50°   | 12895.1 | 12917.9 | 12210.9 | 10579.0 | 10612.6 | 11302.2 | 11810.3 | 11943.4 | 11170.4 | 11235.0 | 13385.7 |
| 52.5° | 13202.9 | 13173.3 | 12505.3 | 11022.6 | 11472.9 | 12425.9 | 12795.6 | 12934.1 | 11696.0 | 11563.0 | 13861.6 |
| 55°   | 13892.5 | 13920.7 | 13165.3 | 11581.8 | 12342.6 | 13529.5 | 14016.1 | 13883.1 | 12278.1 | 12166.5 | 14466.5 |
| 57.5° | 14725.9 | 14701.7 | 14094.1 | 12456.9 | 13228.4 | 14556.5 | 14919.5 | 14705.7 | 13055.0 | 12995.9 | 15079.4 |
| 60°   | 15049.9 | 15082.1 | 14871.1 | 13397.8 | 14102.2 | 15455.8 | 15826.8 | 15494.8 | 13986.6 | 13959.7 | 15541.8 |
| 62.5° | 14724.6 | 14906.0 | 15048.5 | 14235.3 | 14846.9 | 16117.2 | 16485.5 | 16106.4 | 14958.4 | 15153.4 | 15865.8 |
| 65°   | 14076.6 | 14115.6 | 14600.9 | 14945.0 | 15205.8 | 16226.0 | 16418.3 | 16216.6 | 15770.4 | 16240.8 | 15851.0 |
| 67.5° | 13235.2 | 13268.8 | 13837.4 | 15177.6 | 14743.4 | 14989.4 | 15123.8 | 15064.6 | 15519.0 | 16613.2 | 15121.1 |
| 70°   | 12434.0 | 12407.1 | 13008.0 | 14584.8 | 12834.6 | 12460.9 | 12572.5 | 12387.0 | 13391.1 | 15703.1 | 13689.5 |
| 72.5° | 10874.7 | 10971.5 | 11616.7 | 12936.7 | 10162.3 | 9554.7  | 9798.0  | 9318.1  | 10299.4 | 13448.9 | 11111.3 |
| 75°   | 8518.3  | 8541.2  | 9617.9  | 10857.2 | 7666.1  | 6707.6  | 7037.0  | 6836.7  | 7889.2  | 11218.8 | 7672.8  |
| 77.5° | 5898.4  | 5847.3  | 7004.7  | 8292.5  | 5466.9  | 4910.4  | 4915.8  | 4820.4  | 5508.6  | 8260.2  | 5212.9  |
| 80°   | 3746.3  | 3668.4  | 4384.8  | 5122.8  | 3757.1  | 4019.2  | 3887.5  | 3883.4  | 3586.4  | 5095.9  | 3152.2  |
| 82.5° | 2024.4  | 2110.4  | 2770.4  | 3211.3  | 2695.2  | 3106.5  | 2847.1  | 2763.7  | 2461.3  | 3189.8  | 2016.3  |
| 85°   | 922.1   | 1002.8  | 1477.3  | 2184.4  | 2047.2  | 2070.1  | 1383.2  | 1631.9  | 2036.5  | 2590.3  | 1076.7  |
| 87.5° | 90.1    | 115.6   | 305.1   | 1031.0  | 699.0   | 551.1   | 205.7   | 396.5   | 512.1   | 920.8   | 86.0    |
| 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°    | 6549.0  | 6549.0  | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 |
| 2.5°  | 6960.4  | 6890.5  | 6652.5 | 6456.3 | 6247.9 | 6089.3 | 5882.3 | 5743.8 | 5648.4 | 5504.6 | 5487.1 |
| 5°    | 6640.4  | 6469.7  | 6055.7 | 5633.6 | 5269.3 | 4995.1 | 4716.9 | 4461.5 | 4310.9 | 4263.9 | 4203.4 |
| 7.5°  | 6101.4  | 5813.7  | 5281.4 | 4797.5 | 4379.5 | 3970.8 | 3656.3 | 3433.1 | 3283.9 | 3196.5 | 3091.7 |
| 10°   | 5657.8  | 5324.4  | 4676.5 | 4083.7 | 3739.6 | 3485.6 | 3208.6 | 2969.4 | 2785.2 | 2627.9 | 2541.9 |
| 12.5° | 5359.4  | 4983.0  | 4254.4 | 3773.2 | 3507.1 | 3236.9 | 2912.9 | 2644.1 | 2372.5 | 2193.8 | 2117.1 |
| 15°   | 5269.3  | 4871.4  | 4124.1 | 3618.6 | 3236.9 | 2883.3 | 2520.4 | 2169.6 | 1900.7 | 1731.4 | 1674.9 |
| 17.5° | 5489.8  | 5008.6  | 4122.7 | 3413.0 | 2919.6 | 2497.6 | 2032.5 | 1703.1 | 1427.6 | 1301.2 | 1260.9 |
| 20°   | 5901.1  | 5272.0  | 4134.8 | 3210.0 | 2575.5 | 1981.4 | 1478.6 | 1208.5 | 1076.7 | 1022.9 | 1002.8 |
| 22.5° | 6475.1  | 5673.9  | 4171.1 | 3009.7 | 2199.1 | 1521.7 | 1107.6 | 970.5  | 923.5  | 914.1  | 910.0  |
| 25°   | 7182.2  | 6171.3  | 4293.4 | 2829.6 | 1881.9 | 1161.4 | 926.2  | 864.3  | 837.4  | 828.0  | 826.7  |
| 27.5° | 7832.8  | 6813.8  | 4441.3 | 2675.0 | 1575.4 | 1001.4 | 837.4  | 785.0  | 758.1  | 756.8  | 759.5  |
| 30°   | 8420.2  | 7351.5  | 4565.0 | 2501.6 | 1342.9 | 889.9  | 779.6  | 727.2  | 701.7  | 700.3  | 708.4  |
| 32.5° | 8928.3  | 7793.8  | 4656.4 | 2330.9 | 1213.8 | 821.3  | 727.2  | 670.8  | 649.3  | 645.2  | 649.3  |
| 35°   | 9471.4  | 8234.7  | 4614.7 | 2197.8 | 1139.9 | 764.9  | 688.2  | 633.1  | 607.6  | 595.5  | 595.5  |
| 37.5° | 10091.0 | 8689.0  | 4543.5 | 2087.6 | 1106.3 | 717.8  | 654.6  | 600.9  | 575.3  | 563.2  | 561.9  |
| 40°   | 10767.2 | 9143.4  | 4445.3 | 1989.4 | 1072.7 | 689.6  | 631.8  | 575.3  | 544.4  | 532.3  | 529.6  |
| 42.5° | 11364.0 | 9531.8  | 4364.7 | 1924.9 | 1017.6 | 695.0  | 611.6  | 556.5  | 517.5  | 501.4  | 500.0  |
| 45°   | 11882.9 | 9923.0  | 4349.9 | 1887.3 | 971.9  | 686.9  | 606.2  | 541.7  | 496.0  | 478.5  | 475.9  |
| 47.5° | 12288.8 | 10330.3 | 4434.6 | 1865.8 | 922.1  | 643.9  | 641.2  | 532.3  | 477.2  | 458.4  | 455.7  |
| 50°   | 12783.5 | 10908.3 | 4628.1 | 1821.4 | 876.4  | 603.6  | 677.5  | 531.0  | 462.4  | 438.2  | 431.5  |
| 52.5° | 13442.2 | 11661.1 | 4890.3 | 1742.1 | 810.6  | 565.9  | 646.6  | 531.0  | 444.9  | 420.7  | 412.7  |
| 55°   | 14438.2 | 12620.9 | 5147.0 | 1630.5 | 717.8  | 516.2  | 583.4  | 514.8  | 419.4  | 397.9  | 392.5  |
| 57.5° | 15098.2 | 13322.5 | 5311.0 | 1476.0 | 602.2  | 479.9  | 502.7  | 489.3  | 393.9  | 371.0  | 371.0  |
| 60°   | 15131.8 | 13510.7 | 5233.0 | 1281.0 | 529.6  | 446.3  | 436.9  | 493.3  | 371.0  | 346.8  | 344.1  |
| 62.5° | 14744.7 | 13049.7 | 4827.1 | 1106.3 | 490.6  | 410.0  | 395.2  | 432.8  | 348.2  | 324.0  | 319.9  |
| 65°   | 14139.8 | 11873.5 | 4122.7 | 1022.9 | 469.1  | 377.7  | 356.2  | 354.9  | 324.0  | 301.1  | 295.7  |
| 67.5° | 13028.2 | 10376.0 | 3387.4 | 974.6  | 458.4  | 341.4  | 321.3  | 314.5  | 295.7  | 276.9  | 274.2  |
| 70°   | 11389.5 | 8690.4  | 2716.7 | 954.4  | 453.0  | 303.8  | 287.7  | 279.6  | 263.5  | 248.7  | 247.3  |
| 72.5° | 8861.1  | 7049.1  | 2242.2 | 941.0  | 450.3  | 268.8  | 251.4  | 240.6  | 231.2  | 217.8  | 217.8  |
| 75°   | 6364.9  | 5186.0  | 1711.2 | 848.2  | 416.7  | 231.2  | 212.4  | 205.7  | 192.2  | 181.5  | 184.2  |
| 77.5° | 4012.5  | 3492.3  | 1126.5 | 623.7  | 322.6  | 185.5  | 169.4  | 165.3  | 154.6  | 139.8  | 149.2  |
| 80°   | 2709.9  | 2455.9  | 657.3  | 392.5  | 203.0  | 135.8  | 130.4  | 129.0  | 116.9  | 100.8  | 102.2  |
| 82.5° | 1844.3  | 1809.3  | 341.4  | 223.1  | 116.9  | 79.3   | 76.6   | 79.3   | 65.9   | 53.8   | 53.8   |
| 85°   | 720.5   | 984.0   | 161.3  | 87.4   | 37.6   | 12.1   | 17.5   | 18.8   | 10.8   | 5.4    | 6.7    |
| 87.5° | 13.4    | 100.8   | 4.0    | 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 |
| 2.5°  | 5460.2 | 5448.1 | 5468.3 | 5382.2 | 5399.7 | 5432.0 | 5448.1 | 5457.5 | 5590.6 | 5559.7 | 5644.4 |
| 5°    | 4259.8 | 4247.7 | 4325.7 | 4336.4 | 4376.8 | 4368.7 | 4407.7 | 4417.1 | 4465.5 | 4483.0 | 4601.3 |
| 7.5°  | 3098.4 | 3150.8 | 3239.6 | 3285.3 | 3353.8 | 3375.3 | 3355.2 | 3404.9 | 3304.1 | 3376.7 | 3398.2 |
| 10°   | 2489.5 | 2426.3 | 2388.7 | 2493.5 | 2507.0 | 2606.4 | 2566.1 | 2533.8 | 2593.0 | 2595.7 | 2652.1 |
| 12.5° | 2072.8 | 1937.0 | 1847.0 | 1876.5 | 1908.8 | 1951.8 | 1958.5 | 2023.0 | 2066.1 | 2106.4 | 2140.0 |
| 15°   | 1625.2 | 1578.1 | 1496.1 | 1455.8 | 1501.5 | 1519.0 | 1560.6 | 1614.4 | 1660.1 | 1672.2 | 1717.9 |
| 17.5° | 1247.4 | 1255.5 | 1242.1 | 1217.9 | 1246.1 | 1259.5 | 1262.2 | 1263.6 | 1275.7 | 1267.6 | 1334.8 |
| 20°   | 1004.1 | 1032.4 | 1066.0 | 1071.3 | 1080.8 | 1087.5 | 1075.4 | 1029.7 | 1031.0 | 1059.2 | 1080.8 |
| 22.5° | 908.7  | 914.1  | 951.7  | 963.8  | 993.4  | 981.3  | 946.3  | 924.8  | 922.1  | 928.9  | 939.6  |
| 25°   | 833.4  | 841.5  | 868.4  | 887.2  | 910.0  | 888.5  | 863.0  | 842.8  | 840.1  | 846.9  | 857.6  |
| 27.5° | 766.2  | 778.3  | 802.5  | 821.3  | 842.8  | 822.7  | 798.5  | 781.0  | 779.6  | 778.3  | 785.0  |
| 30°   | 712.4  | 725.9  | 743.4  | 764.9  | 779.6  | 762.2  | 739.3  | 729.9  | 728.6  | 725.9  | 728.6  |
| 32.5° | 658.7  | 680.2  | 697.6  | 708.4  | 723.2  | 709.7  | 692.3  | 686.9  | 677.5  | 669.4  | 665.4  |
| 35°   | 598.2  | 621.0  | 647.9  | 661.4  | 676.1  | 662.7  | 650.6  | 627.7  | 611.6  | 610.3  | 613.0  |
| 37.5° | 563.2  | 572.6  | 594.1  | 617.0  | 631.8  | 625.1  | 602.2  | 579.4  | 575.3  | 575.3  | 578.0  |
| 40°   | 532.3  | 536.3  | 545.8  | 575.3  | 602.2  | 582.0  | 553.8  | 547.1  | 547.1  | 545.8  | 547.1  |
| 42.5° | 501.4  | 505.4  | 505.4  | 528.3  | 571.3  | 539.0  | 517.5  | 517.5  | 517.5  | 518.9  | 522.9  |
| 45°   | 473.2  | 474.5  | 473.2  | 489.3  | 529.6  | 502.7  | 488.0  | 492.0  | 494.7  | 497.4  | 500.0  |
| 47.5° | 449.0  | 450.3  | 449.0  | 462.4  | 482.6  | 471.8  | 463.8  | 469.1  | 474.5  | 478.5  | 481.2  |
| 50°   | 427.5  | 426.1  | 428.8  | 436.9  | 446.3  | 449.0  | 443.6  | 451.7  | 454.3  | 459.7  | 466.4  |
| 52.5° | 408.6  | 407.3  | 410.0  | 414.0  | 427.5  | 427.5  | 427.5  | 434.2  | 439.6  | 444.9  | 454.3  |
| 55°   | 387.1  | 388.5  | 392.5  | 397.9  | 415.4  | 412.7  | 414.0  | 419.4  | 424.8  | 432.8  | 438.2  |
| 57.5° | 367.0  | 369.7  | 375.0  | 383.1  | 400.6  | 399.2  | 400.6  | 403.3  | 410.0  | 414.0  | 419.4  |
| 60°   | 344.1  | 349.5  | 356.2  | 361.6  | 379.1  | 377.7  | 384.4  | 389.8  | 393.9  | 393.9  | 396.5  |
| 62.5° | 321.3  | 329.3  | 336.1  | 340.1  | 358.9  | 360.3  | 369.7  | 373.7  | 376.4  | 373.7  | 377.7  |
| 65°   | 298.4  | 310.5  | 313.2  | 318.6  | 337.4  | 338.7  | 349.5  | 358.9  | 356.2  | 353.5  | 360.3  |
| 67.5° | 275.6  | 290.4  | 289.0  | 295.7  | 314.5  | 317.2  | 326.6  | 342.8  | 337.4  | 334.7  | 340.1  |
| 70°   | 250.0  | 260.8  | 262.1  | 266.2  | 291.7  | 287.7  | 302.4  | 317.2  | 313.2  | 314.5  | 314.5  |
| 72.5° | 221.8  | 231.2  | 231.2  | 239.3  | 266.2  | 259.4  | 271.5  | 287.7  | 287.7  | 286.3  | 286.3  |
| 75°   | 188.2  | 193.6  | 198.9  | 211.0  | 239.3  | 231.2  | 239.3  | 254.1  | 256.7  | 254.1  | 254.1  |
| 77.5° | 151.9  | 160.0  | 162.7  | 178.8  | 198.9  | 197.6  | 205.7  | 212.4  | 217.8  | 215.1  | 215.1  |
| 80°   | 107.5  | 115.6  | 126.4  | 143.8  | 155.9  | 160.0  | 164.0  | 169.4  | 172.1  | 172.1  | 174.7  |
| 82.5° | 60.5   | 72.6   | 82.0   | 99.5   | 104.8  | 125.0  | 123.7  | 127.7  | 123.7  | 108.9  | 121.0  |
| 85°   | 13.4   | 25.5   | 36.3   | 45.7   | 52.4   | 72.6   | 76.6   | 86.0   | 71.2   | 65.9   | 65.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 10.8   | 21.5   | 29.6   | 25.5   | 21.5   | 21.5   |
| 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):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0 | 6549.0  | 6549.0  | 6549.0  |
| 2.5°  | 5715.6 | 5832.6 | 5973.7 | 6217.0 | 6387.7 | 6571.9 | 6757.4 | 6955.0  | 7007.4  | 7061.2  |
| 5°    | 4633.5 | 4863.4 | 4988.4 | 5315.0 | 5657.8 | 6093.3 | 6449.6 | 6839.4  | 7002.0  | 7039.7  |
| 7.5°  | 3509.8 | 3665.7 | 3993.7 | 4324.3 | 4749.1 | 5206.2 | 5751.9 | 6359.5  | 6549.0  | 6628.3  |
| 10°   | 2782.5 | 2994.9 | 3282.6 | 3637.5 | 4009.8 | 4501.8 | 5117.4 | 5827.2  | 6096.0  | 6140.4  |
| 12.5° | 2368.5 | 2605.1 | 2918.3 | 3293.3 | 3645.5 | 4016.5 | 4637.5 | 5370.1  | 5657.8  | 5753.2  |
| 15°   | 1894.0 | 2180.3 | 2541.9 | 2937.1 | 3320.2 | 3726.2 | 4355.3 | 5182.0  | 5514.0  | 5625.5  |
| 17.5° | 1488.0 | 1719.3 | 2110.4 | 2539.2 | 2993.6 | 3507.1 | 4296.1 | 5272.0  | 5680.7  | 5784.2  |
| 20°   | 1138.6 | 1303.9 | 1633.2 | 2086.2 | 2618.5 | 3290.6 | 4310.9 | 5612.1  | 6101.4  | 6242.5  |
| 22.5° | 984.0  | 1068.7 | 1268.9 | 1700.4 | 2295.9 | 3102.5 | 4371.4 | 6078.5  | 6668.7  | 6903.9  |
| 25°   | 891.2  | 935.6  | 1048.5 | 1330.8 | 1988.1 | 2919.6 | 4509.8 | 6706.3  | 7461.7  | 7617.7  |
| 27.5° | 811.9  | 844.2  | 914.1  | 1117.0 | 1708.5 | 2750.3 | 4671.2 | 7402.6  | 8202.4  | 8435.0  |
| 30°   | 736.6  | 779.6  | 845.5  | 992.0  | 1529.7 | 2595.7 | 4874.1 | 7967.2  | 8826.1  | 9042.5  |
| 32.5° | 678.8  | 721.8  | 782.3  | 904.7  | 1377.8 | 2433.0 | 4995.1 | 8463.2  | 9335.6  | 9519.7  |
| 35°   | 631.8  | 668.1  | 731.3  | 834.8  | 1262.2 | 2309.4 | 4970.9 | 8857.0  | 9828.9  | 10017.1 |
| 37.5° | 598.2  | 629.1  | 692.3  | 768.9  | 1174.8 | 2180.3 | 4958.8 | 9377.3  | 10429.8 | 10647.5 |
| 40°   | 567.3  | 599.5  | 657.3  | 725.9  | 1087.5 | 2028.4 | 4965.5 | 9893.4  | 11069.6 | 11287.4 |
| 42.5° | 543.1  | 579.4  | 626.4  | 713.8  | 997.4  | 1906.1 | 4965.5 | 10342.4 | 11626.1 | 11835.8 |
| 45°   | 522.9  | 561.9  | 607.6  | 712.4  | 926.2  | 1813.3 | 4931.9 | 10728.2 | 12069.7 | 12248.5 |
| 47.5° | 505.4  | 548.4  | 614.3  | 688.2  | 908.7  | 1746.1 | 4902.4 | 11037.4 | 12431.3 | 12599.3 |
| 50°   | 493.3  | 544.4  | 653.3  | 660.0  | 914.1  | 1726.0 | 5044.8 | 11427.2 | 12749.9 | 12895.1 |
| 52.5° | 483.9  | 545.8  | 651.9  | 618.3  | 904.7  | 1739.4 | 5341.9 | 12036.1 | 13192.1 | 13202.9 |
| 55°   | 465.1  | 544.4  | 618.3  | 571.3  | 865.7  | 1762.3 | 5723.7 | 12920.6 | 13884.4 | 13892.5 |
| 57.5° | 446.3  | 529.6  | 574.0  | 531.0  | 786.4  | 1762.3 | 6183.4 | 13758.1 | 14719.2 | 14725.9 |
| 60°   | 427.5  | 551.1  | 504.1  | 496.0  | 682.9  | 1730.0 | 6668.7 | 14126.4 | 14981.3 | 15049.9 |
| 62.5° | 408.6  | 555.2  | 450.3  | 465.1  | 607.6  | 1652.0 | 7030.3 | 13719.1 | 14626.4 | 14724.6 |
| 65°   | 387.1  | 447.6  | 415.4  | 432.8  | 568.6  | 1521.7 | 6916.0 | 12973.0 | 13959.7 | 14076.6 |
| 67.5° | 361.6  | 379.1  | 377.7  | 399.2  | 555.2  | 1329.4 | 6313.8 | 12029.4 | 13241.9 | 13235.2 |
| 70°   | 330.7  | 340.1  | 344.1  | 367.0  | 529.6  | 1180.2 | 5261.3 | 10804.8 | 12283.5 | 12434.0 |
| 72.5° | 298.4  | 306.5  | 310.5  | 330.7  | 504.1  | 1095.5 | 4083.7 | 9117.8  | 10639.5 | 10874.7 |
| 75°   | 263.5  | 268.8  | 274.2  | 291.7  | 477.2  | 970.5  | 2908.9 | 6960.4  | 8148.6  | 8518.3  |
| 77.5° | 227.2  | 227.2  | 233.9  | 251.4  | 401.9  | 801.2  | 1951.8 | 4882.2  | 5520.7  | 5898.4  |
| 80°   | 184.2  | 185.5  | 182.8  | 201.6  | 295.7  | 548.4  | 1109.0 | 3261.1  | 3673.7  | 3746.3  |
| 82.5° | 141.1  | 137.1  | 138.5  | 147.9  | 220.5  | 373.7  | 591.5  | 2025.7  | 2064.7  | 2024.4  |
| 85°   | 88.7   | 88.7   | 86.0   | 96.8   | 141.1  | 194.9  | 322.6  | 1240.7  | 969.2   | 922.1   |
| 87.5° | 36.3   | 29.6   | 33.6   | 39.0   | 67.2   | 79.3   | 126.4  | 255.4   | 98.1    | 90.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)