

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: STREETWORKS

Report Number: P455800

Luminaire Tested: **GLAN-SA7A-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455800  
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: STREETWORKS  
Catalog Number: GLAN-SA7A-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA 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: 25005 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



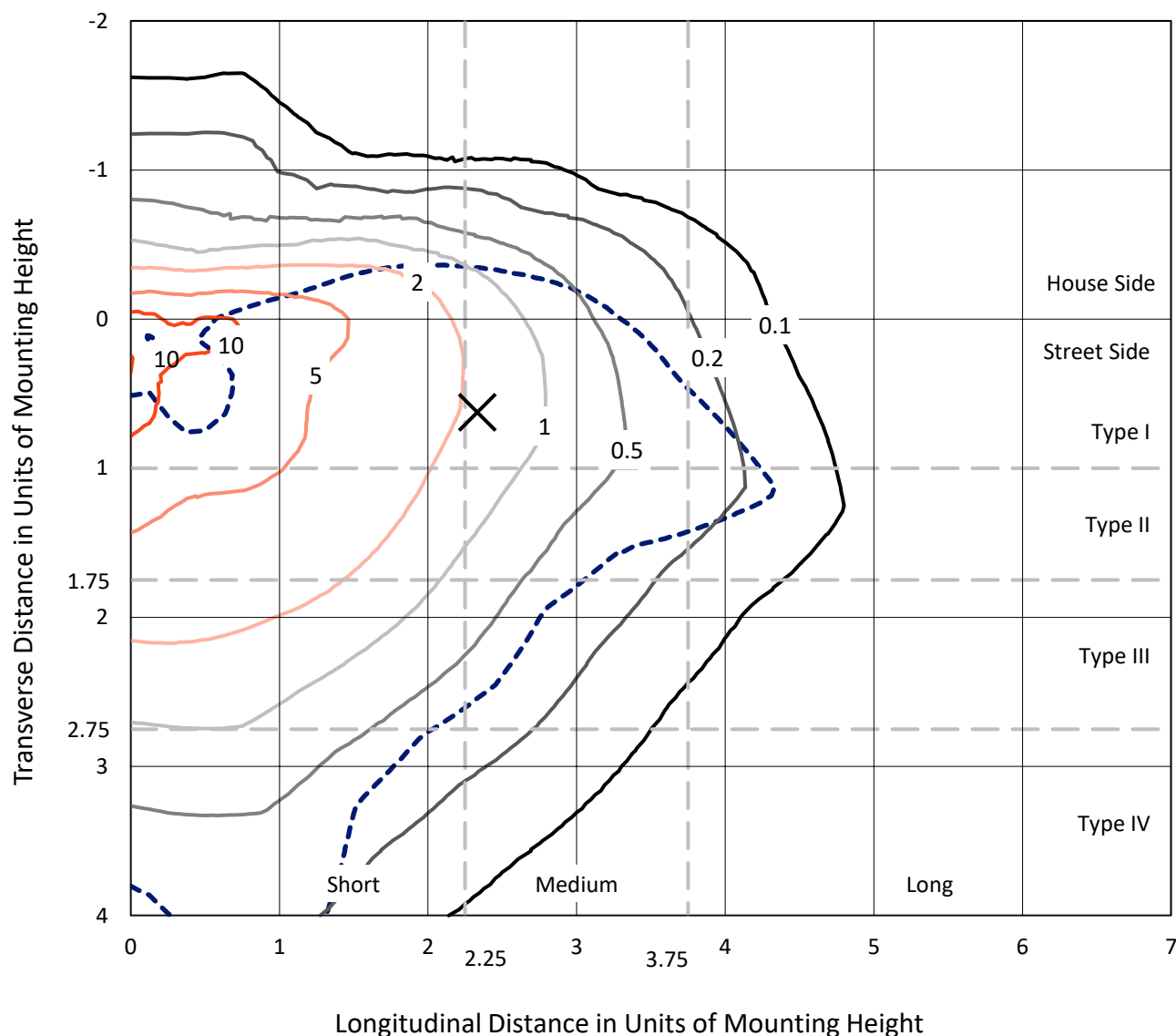
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

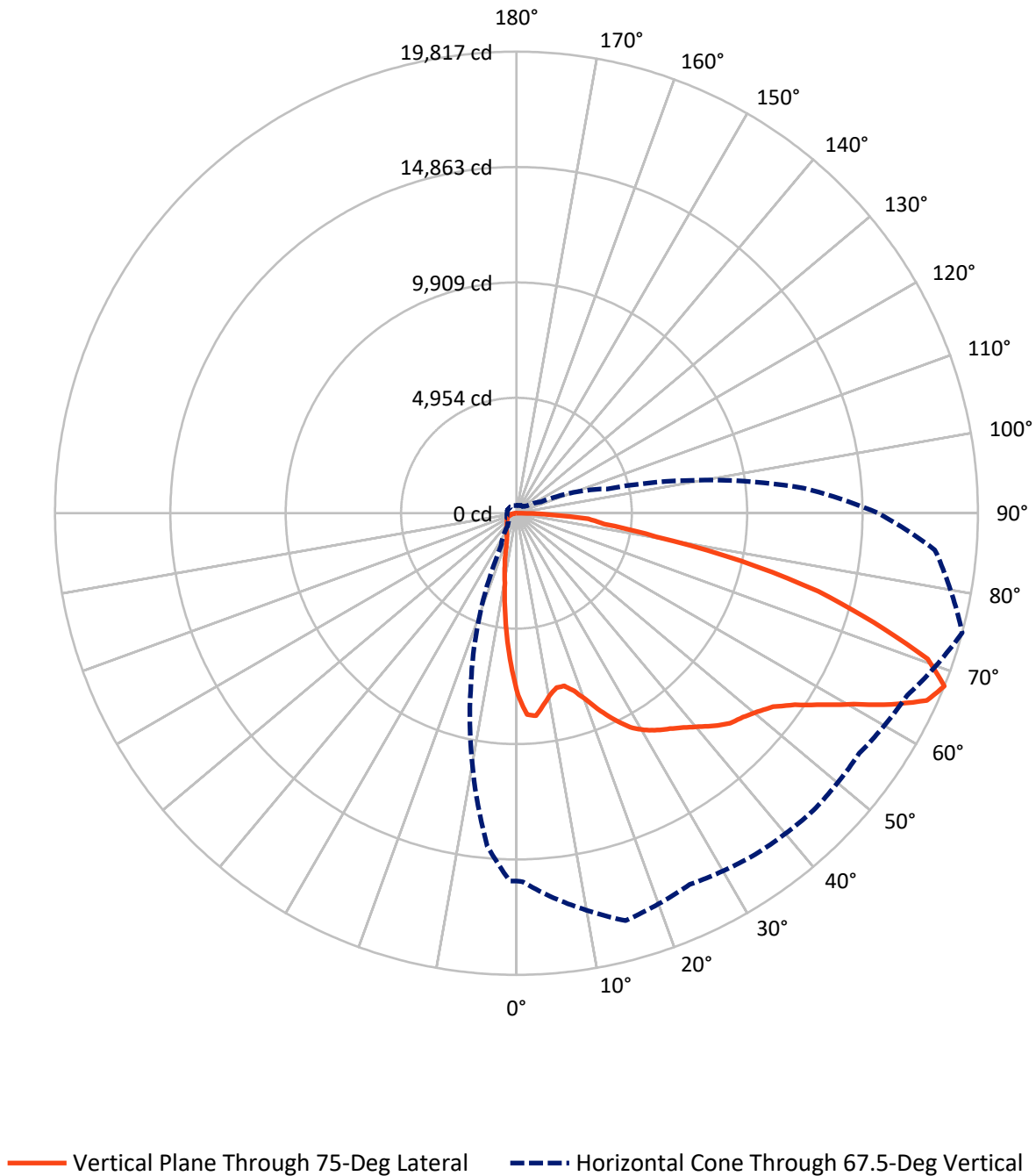
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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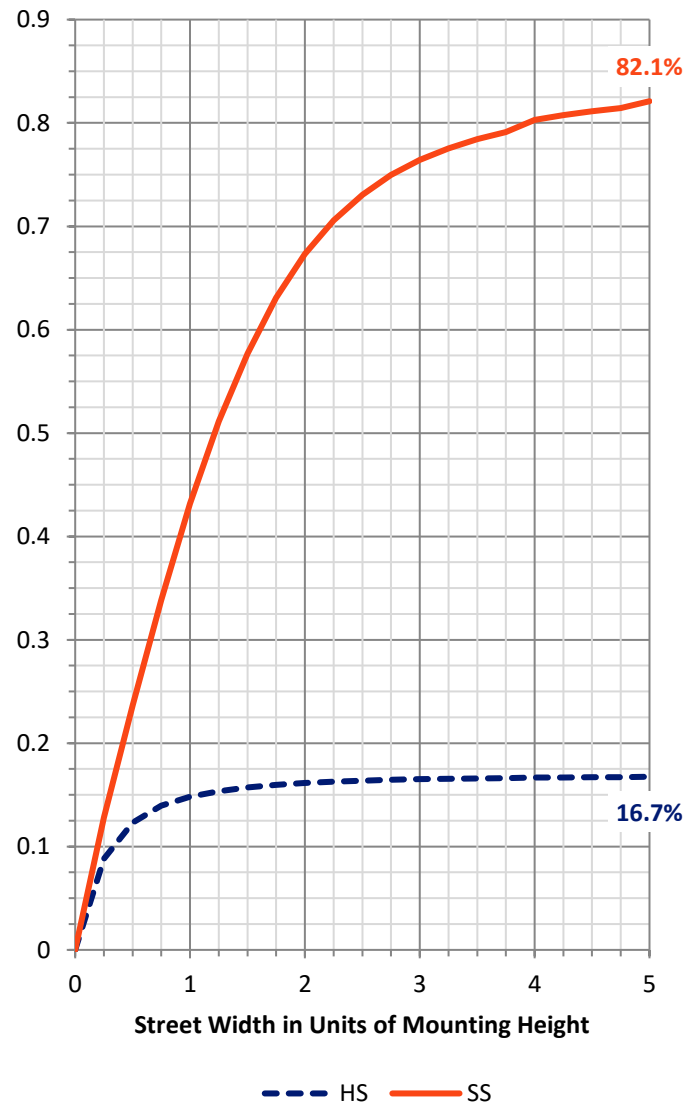
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4226.4   | 0.0    | 4226.4  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 20778.6  | 0.0    | 20778.6 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 25005.0  | 0.0    | 25005.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 592.5   | 2.4       |
| 10°-20°   | 1235.7  | 4.9       |
| 20°-30°   | 1778.3  | 7.1       |
| 30°-40°   | 2561.2  | 10.2      |
| 40°-50°   | 3597.8  | 14.4      |
| 50°-60°   | 5017.6  | 20.1      |
| 60°-70°   | 5965.6  | 23.9      |
| 70°-80°   | 3513.4  | 14.1      |
| 80°-90°   | 743.0   | 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°    | 25005.0 | 100.0     |
| 0°-180°   | 25005.0 | 100.0     |

**Coefficient of Utilization**



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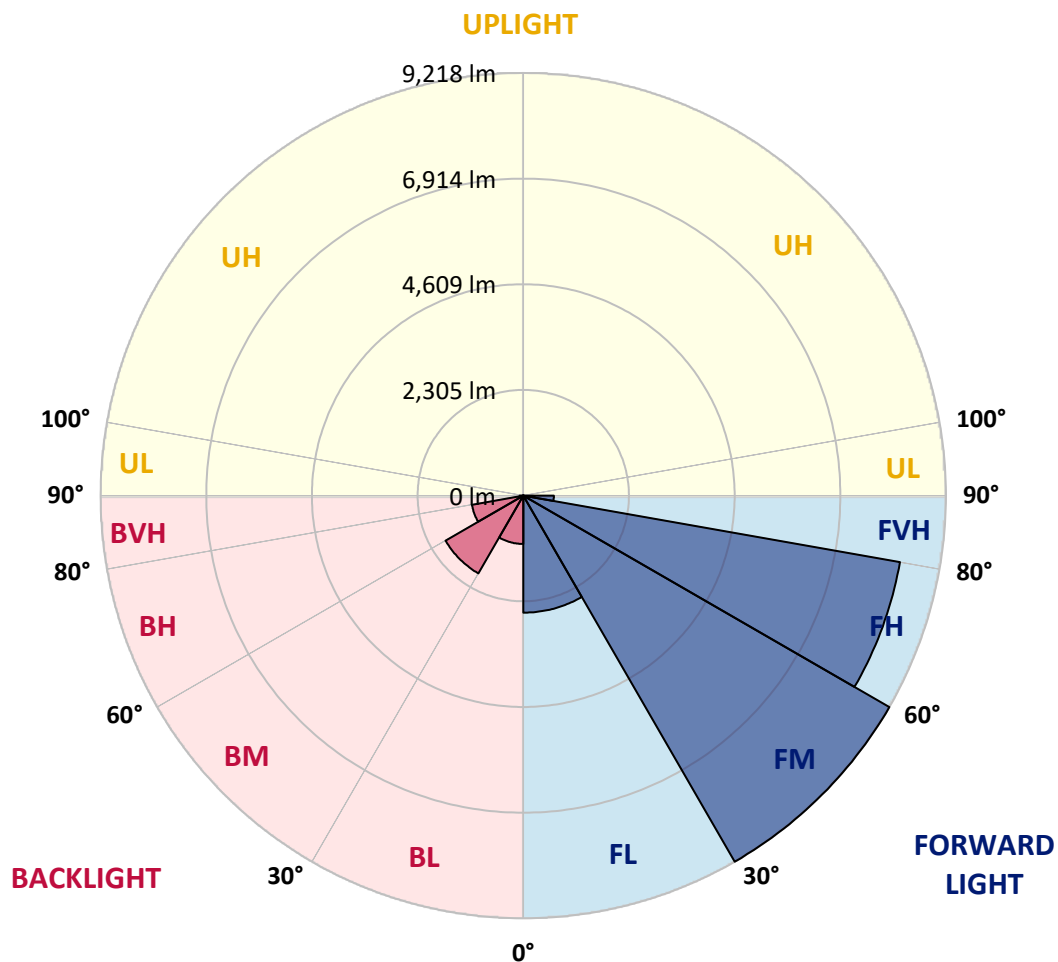
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2552.3 | 10.2      |                         |      |          |
| FM   | (30°-60°)   | 9218.4 | 36.9      |                         |      |          |
| FH   | (60°-80°)   | 8341.8 | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 666.1  | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1054.2 | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1958.1 | 7.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1137.2 | 4.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 76.8   | 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-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  | 7812.2  |
| 2.5°  | 8423.1  | 8434.3  | 8506.5  | 8716.5  | 8860.8  | 8913.7  | 8950.6  | 8881.7  | 8814.3  | 8650.8  | 8403.8  |
| 5°    | 8397.4  | 8463.2  | 8650.8  | 9122.2  | 9494.2  | 9654.6  | 9702.7  | 9495.8  | 9154.3  | 8734.2  | 8229.1  |
| 7.5°  | 7906.8  | 7995.0  | 8283.6  | 9074.1  | 9729.9  | 10105.1 | 10055.4 | 9681.8  | 9066.1  | 8317.2  | 7611.7  |
| 10°   | 7324.7  | 7422.5  | 7770.5  | 8726.1  | 9571.2  | 10087.5 | 10087.5 | 9632.1  | 8814.3  | 7924.4  | 7111.4  |
| 12.5° | 6862.9  | 6965.5  | 7363.2  | 8368.6  | 9240.9  | 9729.9  | 9811.7  | 9420.4  | 8633.1  | 7675.9  | 6782.7  |
| 15°   | 6710.6  | 6810.0  | 7238.1  | 8152.1  | 8891.3  | 9189.5  | 9216.8  | 9088.5  | 8544.9  | 7693.5  | 6768.3  |
| 17.5° | 6899.8  | 7028.1  | 7461.0  | 8216.2  | 8570.6  | 8588.2  | 8609.1  | 8710.1  | 8554.6  | 8015.8  | 7060.1  |
| 20°   | 7446.6  | 7584.5  | 8036.6  | 8423.1  | 8290.0  | 8107.2  | 8118.4  | 8378.2  | 8668.4  | 8548.2  | 7757.6  |
| 22.5° | 8235.5  | 8355.7  | 8819.1  | 8787.1  | 8171.3  | 7794.5  | 7715.9  | 8078.3  | 8836.8  | 9212.0  | 8500.0  |
| 25°   | 9086.9  | 9228.0  | 9760.4  | 9327.4  | 8205.0  | 7608.5  | 7558.8  | 7901.9  | 9011.6  | 9832.5  | 9357.9  |
| 27.5° | 10061.8 | 10199.7 | 10619.8 | 9872.6  | 8381.4  | 7594.1  | 7534.8  | 7885.9  | 9168.7  | 10406.6 | 10177.3 |
| 30°   | 10786.6 | 10913.3 | 11198.7 | 10331.2 | 8597.9  | 7690.3  | 7616.5  | 8012.6  | 9303.4  | 10799.4 | 10975.8 |
| 32.5° | 11355.8 | 11487.3 | 11642.9 | 10616.6 | 8883.3  | 7865.1  | 7728.8  | 8243.5  | 9479.8  | 11099.3 | 11567.5 |
| 35°   | 11949.1 | 12104.7 | 12093.4 | 10870.0 | 9149.5  | 8067.1  | 7934.0  | 8577.0  | 9757.2  | 11360.7 | 12317.9 |
| 37.5° | 12701.2 | 12763.7 | 12683.5 | 11097.7 | 9468.5  | 8431.1  | 8357.3  | 9072.5  | 10151.6 | 11676.5 | 13195.0 |
| 40°   | 13464.4 | 13589.5 | 13177.4 | 11373.5 | 9856.6  | 9115.8  | 9107.8  | 9805.3  | 10619.8 | 12046.9 | 14044.9 |
| 42.5° | 14118.6 | 14224.5 | 13639.2 | 11614.0 | 10326.4 | 9951.2  | 10012.1 | 10788.2 | 11234.0 | 12476.7 | 14728.0 |
| 45°   | 14610.9 | 14705.5 | 14065.7 | 11846.5 | 10945.4 | 10916.5 | 11275.7 | 11841.7 | 12008.5 | 12863.1 | 15128.8 |
| 47.5° | 15029.4 | 15120.8 | 14362.4 | 12199.3 | 11710.2 | 12069.4 | 12694.7 | 12940.1 | 12670.7 | 13084.4 | 15577.8 |
| 50°   | 15382.2 | 15409.4 | 14566.0 | 12619.4 | 12659.5 | 13482.1 | 14088.2 | 14246.9 | 13324.9 | 13401.9 | 15967.5 |
| 52.5° | 15749.4 | 15714.1 | 14917.2 | 13148.5 | 13685.7 | 14822.6 | 15263.5 | 15428.7 | 13951.9 | 13793.1 | 16535.1 |
| 55°   | 16572.0 | 16605.6 | 15704.5 | 13815.6 | 14723.2 | 16139.0 | 16719.5 | 16560.7 | 14646.2 | 14513.1 | 17256.6 |
| 57.5° | 17566.1 | 17537.3 | 16812.5 | 14859.4 | 15779.8 | 17364.1 | 17797.0 | 17542.1 | 15573.0 | 15502.4 | 17987.8 |
| 60°   | 17952.6 | 17991.0 | 17739.3 | 15981.9 | 16822.1 | 18436.8 | 18879.4 | 18483.3 | 16684.2 | 16652.1 | 18539.4 |
| 62.5° | 17564.5 | 17781.0 | 17951.0 | 16980.9 | 17710.4 | 19225.7 | 19665.1 | 19212.9 | 17843.5 | 18076.0 | 18925.9 |
| 65°   | 16791.6 | 16838.1 | 17417.0 | 17827.5 | 18138.6 | 19355.6 | 19584.9 | 19344.4 | 18812.0 | 19373.2 | 18908.2 |
| 67.5° | 15787.9 | 15827.9 | 16506.2 | 18104.9 | 17587.0 | 17880.4 | 18040.8 | 17970.2 | 18512.2 | 19817.4 | 18037.5 |
| 70°   | 14832.2 | 14800.1 | 15516.9 | 17397.8 | 15310.0 | 14864.3 | 14997.3 | 14776.1 | 15973.9 | 18731.9 | 16329.8 |
| 72.5° | 12972.2 | 13087.6 | 13857.3 | 15431.9 | 12122.3 | 11397.5 | 11687.8 | 11115.3 | 12285.9 | 16042.8 | 13254.4 |
| 75°   | 10161.3 | 10188.5 | 11472.9 | 12951.3 | 9144.6  | 8001.4  | 8394.2  | 8155.3  | 9410.8  | 13382.6 | 9152.7  |
| 77.5° | 7036.1  | 6975.1  | 8355.7  | 9891.9  | 6521.4  | 5857.5  | 5863.9  | 5750.1  | 6571.1  | 9853.4  | 6218.3  |
| 80°   | 4468.9  | 4375.9  | 5230.6  | 6110.9  | 4481.7  | 4794.4  | 4637.3  | 4632.5  | 4278.1  | 6078.8  | 3760.2  |
| 82.5° | 2414.8  | 2517.5  | 3304.8  | 3830.7  | 3215.0  | 3705.6  | 3396.2  | 3296.8  | 2936.0  | 3805.1  | 2405.2  |
| 85°   | 1100.0  | 1196.2  | 1762.2  | 2605.7  | 2442.1  | 2469.4  | 1650.0  | 1946.6  | 2429.3  | 3089.9  | 1284.4  |
| 87.5° | 107.4   | 137.9   | 364.0   | 1229.9  | 833.8   | 657.4   | 245.3   | 473.0   | 610.9   | 1098.4  | 102.6   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7812.2  | 7812.2  | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 |
| 2.5°  | 8302.8  | 8219.4  | 7935.6 | 7701.5 | 7453.0 | 7263.8 | 7016.8 | 6851.7 | 6737.8 | 6566.2 | 6545.4 |
| 5°    | 7921.2  | 7717.5  | 7223.7 | 6720.2 | 6285.6 | 5958.5 | 5626.6 | 5321.9 | 5142.4 | 5086.2 | 5014.1 |
| 7.5°  | 7278.2  | 6935.1  | 6300.1 | 5722.8 | 5224.1 | 4736.7 | 4361.5 | 4095.3 | 3917.3 | 3813.1 | 3688.0 |
| 10°   | 6749.0  | 6351.4  | 5578.5 | 4871.4 | 4460.9 | 4157.8 | 3827.5 | 3542.1 | 3322.4 | 3134.8 | 3032.2 |
| 12.5° | 6393.1  | 5944.1  | 5075.0 | 4501.0 | 4183.5 | 3861.2 | 3474.7 | 3154.0 | 2830.1 | 2616.9 | 2525.5 |
| 15°   | 6285.6  | 5811.0  | 4919.5 | 4316.6 | 3861.2 | 3439.5 | 3006.5 | 2588.0 | 2267.3 | 2065.3 | 1997.9 |
| 17.5° | 6548.6  | 5974.6  | 4917.9 | 4071.2 | 3482.8 | 2979.3 | 2424.5 | 2031.6 | 1702.9 | 1552.2 | 1504.1 |
| 20°   | 7039.3  | 6288.8  | 4932.3 | 3829.1 | 3072.3 | 2363.5 | 1763.8 | 1441.5 | 1284.4 | 1220.2 | 1196.2 |
| 22.5° | 7724.0  | 6768.3  | 4975.6 | 3590.2 | 2623.3 | 1815.1 | 1321.3 | 1157.7 | 1101.6 | 1090.4 | 1085.6 |
| 25°   | 8567.4  | 7361.6  | 5121.5 | 3375.3 | 2244.9 | 1385.4 | 1104.8 | 1031.0 | 999.0  | 987.7  | 986.1  |
| 27.5° | 9343.5  | 8128.0  | 5297.9 | 3190.9 | 1879.3 | 1194.6 | 999.0  | 936.4  | 904.4  | 902.8  | 906.0  |
| 30°   | 10044.2 | 8769.4  | 5445.4 | 2984.1 | 1601.9 | 1061.5 | 930.0  | 867.5  | 837.0  | 835.4  | 845.0  |
| 32.5° | 10650.3 | 9297.0  | 5554.5 | 2780.4 | 1447.9 | 979.7  | 867.5  | 800.1  | 774.5  | 769.7  | 774.5  |
| 35°   | 11298.1 | 9822.9  | 5504.7 | 2621.7 | 1359.8 | 912.4  | 821.0  | 755.2  | 724.8  | 710.3  | 710.3  |
| 37.5° | 12037.3 | 10364.9 | 5419.8 | 2490.2 | 1319.7 | 856.3  | 780.9  | 716.8  | 686.3  | 671.9  | 670.3  |
| 40°   | 12843.9 | 10906.9 | 5302.7 | 2373.2 | 1279.6 | 822.6  | 753.6  | 686.3  | 649.4  | 635.0  | 631.8  |
| 42.5° | 13555.8 | 11370.3 | 5206.5 | 2296.2 | 1213.8 | 829.0  | 729.6  | 663.8  | 617.3  | 598.1  | 596.5  |
| 45°   | 14174.8 | 11836.9 | 5188.9 | 2251.3 | 1159.3 | 819.4  | 723.2  | 646.2  | 591.7  | 570.8  | 567.6  |
| 47.5° | 14659.0 | 12322.7 | 5289.9 | 2225.6 | 1100.0 | 768.1  | 764.9  | 635.0  | 569.2  | 546.8  | 543.6  |
| 50°   | 15249.1 | 13012.2 | 5520.8 | 2172.7 | 1045.5 | 720.0  | 808.2  | 633.4  | 551.6  | 522.7  | 514.7  |
| 52.5° | 16034.8 | 13910.2 | 5833.5 | 2078.1 | 966.9  | 675.1  | 771.3  | 633.4  | 530.8  | 501.9  | 492.3  |
| 55°   | 17223.0 | 15055.1 | 6139.7 | 1945.0 | 856.3  | 615.7  | 695.9  | 614.1  | 500.3  | 474.6  | 468.2  |
| 57.5° | 18010.3 | 15892.1 | 6335.3 | 1760.6 | 718.4  | 572.4  | 599.7  | 583.7  | 469.8  | 442.6  | 442.6  |
| 60°   | 18050.4 | 16116.6 | 6242.3 | 1528.1 | 631.8  | 532.4  | 521.1  | 588.5  | 442.6  | 413.7  | 410.5  |
| 62.5° | 17588.6 | 15566.6 | 5758.1 | 1319.7 | 585.3  | 489.1  | 471.4  | 516.3  | 415.3  | 386.4  | 381.6  |
| 65°   | 16867.0 | 14163.5 | 4917.9 | 1220.2 | 559.6  | 450.6  | 424.9  | 423.3  | 386.4  | 359.2  | 352.8  |
| 67.5° | 15540.9 | 12377.3 | 4040.8 | 1162.5 | 546.8  | 407.3  | 383.2  | 375.2  | 352.8  | 330.3  | 327.1  |
| 70°   | 13586.3 | 10366.5 | 3240.6 | 1138.5 | 540.4  | 362.4  | 343.1  | 333.5  | 314.3  | 296.6  | 295.0  |
| 72.5° | 10570.1 | 8408.6  | 2674.6 | 1122.4 | 537.2  | 320.7  | 299.9  | 287.0  | 275.8  | 259.8  | 259.8  |
| 75°   | 7592.5  | 6186.2  | 2041.2 | 1011.8 | 497.1  | 275.8  | 253.3  | 245.3  | 229.3  | 216.5  | 219.7  |
| 77.5° | 4786.4  | 4165.8  | 1343.7 | 744.0  | 384.8  | 221.3  | 202.0  | 197.2  | 184.4  | 166.8  | 178.0  |
| 80°   | 3232.6  | 2929.6  | 784.1  | 468.2  | 242.1  | 162.0  | 155.5  | 153.9  | 139.5  | 120.3  | 121.9  |
| 82.5° | 2200.0  | 2158.3  | 407.3  | 266.2  | 139.5  | 94.6   | 91.4   | 94.6   | 78.6   | 64.1   | 64.1   |
| 85°   | 859.5   | 1173.7  | 192.4  | 104.2  | 44.9   | 14.4   | 20.8   | 22.4   | 12.8   | 6.4    | 8.0    |
| 87.5° | 16.0    | 120.3   | 4.8    | 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°    | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 |
| 2.5°  | 6513.3 | 6498.9 | 6523.0 | 6420.3 | 6441.2 | 6479.7 | 6498.9 | 6510.1 | 6668.9 | 6632.0 | 6733.0 |
| 5°    | 5081.4 | 5067.0 | 5160.0 | 5172.8 | 5220.9 | 5211.3 | 5257.8 | 5269.0 | 5326.8 | 5347.6 | 5488.7 |
| 7.5°  | 3696.0 | 3758.6 | 3864.4 | 3918.9 | 4000.7 | 4026.3 | 4002.3 | 4061.6 | 3941.4 | 4027.9 | 4053.6 |
| 10°   | 2969.6 | 2894.3 | 2849.4 | 2974.5 | 2990.5 | 3109.1 | 3061.0 | 3022.6 | 3093.1 | 3096.3 | 3163.7 |
| 12.5° | 2472.6 | 2310.6 | 2203.2 | 2238.5 | 2276.9 | 2328.3 | 2336.3 | 2413.2 | 2464.5 | 2512.7 | 2552.7 |
| 15°   | 1938.6 | 1882.5 | 1784.7 | 1736.6 | 1791.1 | 1811.9 | 1861.6 | 1925.8 | 1980.3 | 1994.7 | 2049.2 |
| 17.5° | 1488.0 | 1497.7 | 1481.6 | 1452.8 | 1486.4 | 1502.5 | 1505.7 | 1507.3 | 1521.7 | 1512.1 | 1592.3 |
| 20°   | 1197.8 | 1231.5 | 1271.6 | 1278.0 | 1289.2 | 1297.2 | 1282.8 | 1228.3 | 1229.9 | 1263.5 | 1289.2 |
| 22.5° | 1084.0 | 1090.4 | 1135.3 | 1149.7 | 1185.0 | 1170.5 | 1128.8 | 1103.2 | 1100.0 | 1108.0 | 1120.8 |
| 25°   | 994.2  | 1003.8 | 1035.8 | 1058.3 | 1085.6 | 1059.9 | 1029.4 | 1005.4 | 1002.2 | 1010.2 | 1023.0 |
| 27.5° | 914.0  | 928.4  | 957.3  | 979.7  | 1005.4 | 981.3  | 952.5  | 931.6  | 930.0  | 928.4  | 936.4  |
| 30°   | 849.8  | 865.9  | 886.7  | 912.4  | 930.0  | 909.2  | 881.9  | 870.7  | 869.1  | 865.9  | 869.1  |
| 32.5° | 785.7  | 811.4  | 832.2  | 845.0  | 862.7  | 846.6  | 825.8  | 819.4  | 808.2  | 798.5  | 793.7  |
| 35°   | 713.5  | 740.8  | 772.9  | 788.9  | 806.6  | 790.5  | 776.1  | 748.8  | 729.6  | 728.0  | 731.2  |
| 37.5° | 671.9  | 683.1  | 708.7  | 736.0  | 753.6  | 745.6  | 718.4  | 691.1  | 686.3  | 686.3  | 689.5  |
| 40°   | 635.0  | 639.8  | 651.0  | 686.3  | 718.4  | 694.3  | 660.6  | 652.6  | 652.6  | 651.0  | 652.6  |
| 42.5° | 598.1  | 602.9  | 602.9  | 630.2  | 681.5  | 643.0  | 617.3  | 617.3  | 617.3  | 618.9  | 623.8  |
| 45°   | 564.4  | 566.0  | 564.4  | 583.7  | 631.8  | 599.7  | 582.1  | 586.9  | 590.1  | 593.3  | 596.5  |
| 47.5° | 535.6  | 537.2  | 535.6  | 551.6  | 575.6  | 562.8  | 553.2  | 559.6  | 566.0  | 570.8  | 574.0  |
| 50°   | 509.9  | 508.3  | 511.5  | 521.1  | 532.4  | 535.6  | 529.1  | 538.8  | 542.0  | 548.4  | 556.4  |
| 52.5° | 487.5  | 485.9  | 489.1  | 493.9  | 509.9  | 509.9  | 509.9  | 517.9  | 524.3  | 530.8  | 542.0  |
| 55°   | 461.8  | 463.4  | 468.2  | 474.6  | 495.5  | 492.3  | 493.9  | 500.3  | 506.7  | 516.3  | 522.7  |
| 57.5° | 437.7  | 441.0  | 447.4  | 457.0  | 477.8  | 476.2  | 477.8  | 481.0  | 489.1  | 493.9  | 500.3  |
| 60°   | 410.5  | 416.9  | 424.9  | 431.3  | 452.2  | 450.6  | 458.6  | 465.0  | 469.8  | 469.8  | 473.0  |
| 62.5° | 383.2  | 392.9  | 400.9  | 405.7  | 428.1  | 429.7  | 441.0  | 445.8  | 449.0  | 445.8  | 450.6  |
| 65°   | 356.0  | 370.4  | 373.6  | 380.0  | 402.5  | 404.1  | 416.9  | 428.1  | 424.9  | 421.7  | 429.7  |
| 67.5° | 328.7  | 346.4  | 344.7  | 352.8  | 375.2  | 378.4  | 389.6  | 408.9  | 402.5  | 399.3  | 405.7  |
| 70°   | 298.2  | 311.1  | 312.7  | 317.5  | 348.0  | 343.1  | 360.8  | 378.4  | 373.6  | 375.2  | 375.2  |
| 72.5° | 264.6  | 275.8  | 275.8  | 285.4  | 317.5  | 309.5  | 323.9  | 343.1  | 343.1  | 341.5  | 341.5  |
| 75°   | 224.5  | 230.9  | 237.3  | 251.7  | 285.4  | 275.8  | 285.4  | 303.1  | 306.3  | 303.1  | 303.1  |
| 77.5° | 181.2  | 190.8  | 194.0  | 213.3  | 237.3  | 235.7  | 245.3  | 253.3  | 259.8  | 256.6  | 256.6  |
| 80°   | 128.3  | 137.9  | 150.7  | 171.6  | 186.0  | 190.8  | 195.6  | 202.0  | 205.2  | 205.2  | 208.5  |
| 82.5° | 72.2   | 86.6   | 97.8   | 118.7  | 125.1  | 149.1  | 147.5  | 152.3  | 147.5  | 129.9  | 144.3  |
| 85°   | 16.0   | 30.5   | 43.3   | 54.5   | 62.5   | 86.6   | 91.4   | 102.6  | 85.0   | 78.6   | 78.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 12.8   | 25.7   | 35.3   | 30.5   | 25.7   | 25.7   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2 | 7812.2  | 7812.2  | 7812.2  |
| 2.5°  | 6818.0 | 6957.5 | 7125.9 | 7416.1 | 7619.7 | 7839.4 | 8060.7 | 8296.4  | 8358.9  | 8423.1  |
| 5°    | 5527.2 | 5801.4 | 5950.5 | 6340.2 | 6749.0 | 7268.6 | 7693.5 | 8158.5  | 8352.5  | 8397.4  |
| 7.5°  | 4186.7 | 4372.7 | 4763.9 | 5158.4 | 5665.1 | 6210.3 | 6861.3 | 7586.1  | 7812.2  | 7906.8  |
| 10°   | 3319.2 | 3572.6 | 3915.7 | 4339.0 | 4783.2 | 5370.1 | 6104.4 | 6951.1  | 7271.8  | 7324.7  |
| 12.5° | 2825.3 | 3107.5 | 3481.2 | 3928.5 | 4348.6 | 4791.2 | 5532.0 | 6405.9  | 6749.0  | 6862.9  |
| 15°   | 2259.3 | 2600.8 | 3032.2 | 3503.6 | 3960.6 | 4444.8 | 5195.3 | 6181.4  | 6577.5  | 6710.6  |
| 17.5° | 1775.1 | 2050.9 | 2517.5 | 3029.0 | 3570.9 | 4183.5 | 5124.7 | 6288.8  | 6776.3  | 6899.8  |
| 20°   | 1358.1 | 1555.4 | 1948.2 | 2488.6 | 3123.6 | 3925.3 | 5142.4 | 6694.5  | 7278.2  | 7446.6  |
| 22.5° | 1173.7 | 1274.8 | 1513.7 | 2028.4 | 2738.7 | 3700.8 | 5214.5 | 7250.9  | 7954.9  | 8235.5  |
| 25°   | 1063.1 | 1116.0 | 1250.7 | 1587.4 | 2371.5 | 3482.8 | 5379.7 | 7999.8  | 8900.9  | 9086.9  |
| 27.5° | 968.5  | 1007.0 | 1090.4 | 1332.5 | 2038.0 | 3280.7 | 5572.1 | 8830.4  | 9784.4  | 10061.8 |
| 30°   | 878.7  | 930.0  | 1008.6 | 1183.4 | 1824.8 | 3096.3 | 5814.2 | 9503.8  | 10528.4 | 10786.6 |
| 32.5° | 809.8  | 861.1  | 933.2  | 1079.1 | 1643.6 | 2902.3 | 5958.5 | 10095.5 | 11136.2 | 11355.8 |
| 35°   | 753.6  | 796.9  | 872.3  | 995.8  | 1505.7 | 2754.8 | 5929.7 | 10565.3 | 11724.6 | 11949.1 |
| 37.5° | 713.5  | 750.4  | 825.8  | 917.2  | 1401.4 | 2600.8 | 5915.2 | 11185.9 | 12441.4 | 12701.2 |
| 40°   | 676.7  | 715.2  | 784.1  | 865.9  | 1297.2 | 2419.7 | 5923.3 | 11801.6 | 13204.7 | 13464.4 |
| 42.5° | 647.8  | 691.1  | 747.2  | 851.4  | 1189.8 | 2273.7 | 5923.3 | 12337.2 | 13868.5 | 14118.6 |
| 45°   | 623.8  | 670.3  | 724.8  | 849.8  | 1104.8 | 2163.1 | 5883.2 | 12797.4 | 14397.6 | 14610.9 |
| 47.5° | 602.9  | 654.2  | 732.8  | 821.0  | 1084.0 | 2082.9 | 5847.9 | 13166.2 | 14829.0 | 15029.4 |
| 50°   | 588.5  | 649.4  | 779.3  | 787.3  | 1090.4 | 2058.9 | 6017.9 | 13631.2 | 15209.0 | 15382.2 |
| 52.5° | 577.3  | 651.0  | 777.7  | 737.6  | 1079.1 | 2074.9 | 6372.2 | 14357.6 | 15736.6 | 15749.4 |
| 55°   | 554.8  | 649.4  | 737.6  | 681.5  | 1032.6 | 2102.2 | 6827.6 | 15412.6 | 16562.3 | 16572.0 |
| 57.5° | 532.4  | 631.8  | 684.7  | 633.4  | 938.0  | 2102.2 | 7376.0 | 16411.6 | 17558.1 | 17566.1 |
| 60°   | 509.9  | 657.4  | 601.3  | 591.7  | 814.6  | 2063.7 | 7954.9 | 16851.0 | 17870.8 | 17952.6 |
| 62.5° | 487.5  | 662.2  | 537.2  | 554.8  | 724.8  | 1970.7 | 8386.2 | 16365.1 | 17447.5 | 17564.5 |
| 65°   | 461.8  | 534.0  | 495.5  | 516.3  | 678.3  | 1815.1 | 8249.9 | 15475.2 | 16652.1 | 16791.6 |
| 67.5° | 431.3  | 452.2  | 450.6  | 476.2  | 662.2  | 1585.8 | 7531.5 | 14349.5 | 15795.9 | 15787.9 |
| 70°   | 394.5  | 405.7  | 410.5  | 437.7  | 631.8  | 1407.9 | 6276.0 | 12888.8 | 14652.6 | 14832.2 |
| 72.5° | 356.0  | 365.6  | 370.4  | 394.5  | 601.3  | 1306.8 | 4871.4 | 10876.4 | 12691.5 | 12972.2 |
| 75°   | 314.3  | 320.7  | 327.1  | 348.0  | 569.2  | 1157.7 | 3469.9 | 8302.8  | 9720.3  | 10161.3 |
| 77.5° | 271.0  | 271.0  | 279.0  | 299.9  | 479.4  | 955.7  | 2328.3 | 5823.8  | 6585.5  | 7036.1  |
| 80°   | 219.7  | 221.3  | 218.1  | 240.5  | 352.8  | 654.2  | 1322.9 | 3890.0  | 4382.3  | 4468.9  |
| 82.5° | 168.4  | 163.6  | 165.2  | 176.4  | 263.0  | 445.8  | 705.5  | 2416.4  | 2462.9  | 2414.8  |
| 85°   | 105.8  | 105.8  | 102.6  | 115.5  | 168.4  | 232.5  | 384.8  | 1480.0  | 1156.1  | 1100.0  |
| 87.5° | 43.3   | 35.3   | 40.1   | 46.5   | 80.2   | 94.6   | 150.7  | 304.7   | 117.1   | 107.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)