

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768358\_400MP

Luminaire Tested: **TRU40PXX4F**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-46-04  
Report Number: 768358\_400MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU40PXX4F  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE IV  
Light Source: 400 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

#### Summary

Lumens per Lamp: 40000 (1 lamp)  
Luminaire Lumens: 28743.6 lumens  
Efficiency: 71.9%  
Efficacy: 63.6 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B4 - U0 - G3

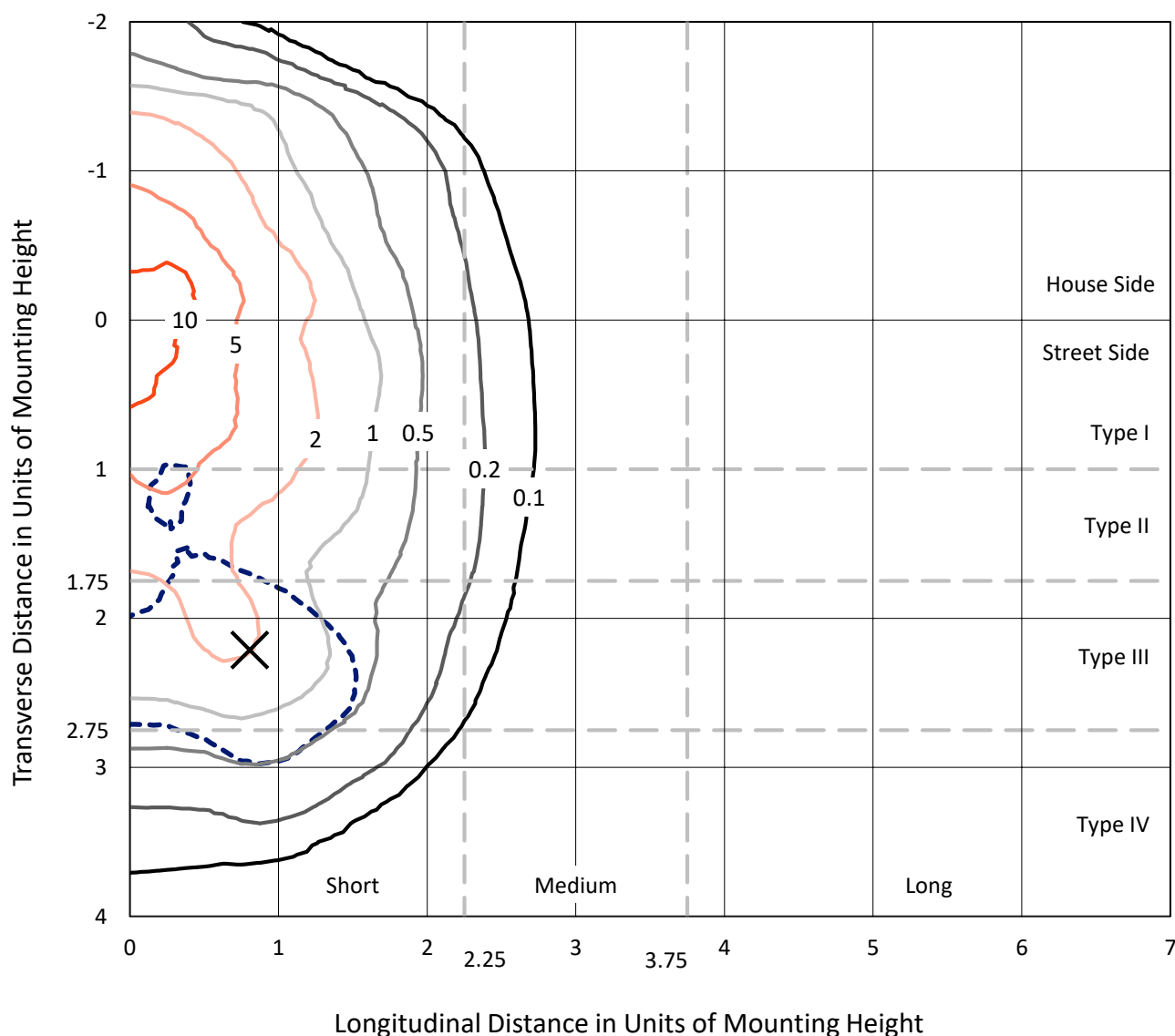
Input Watts (W): 452  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

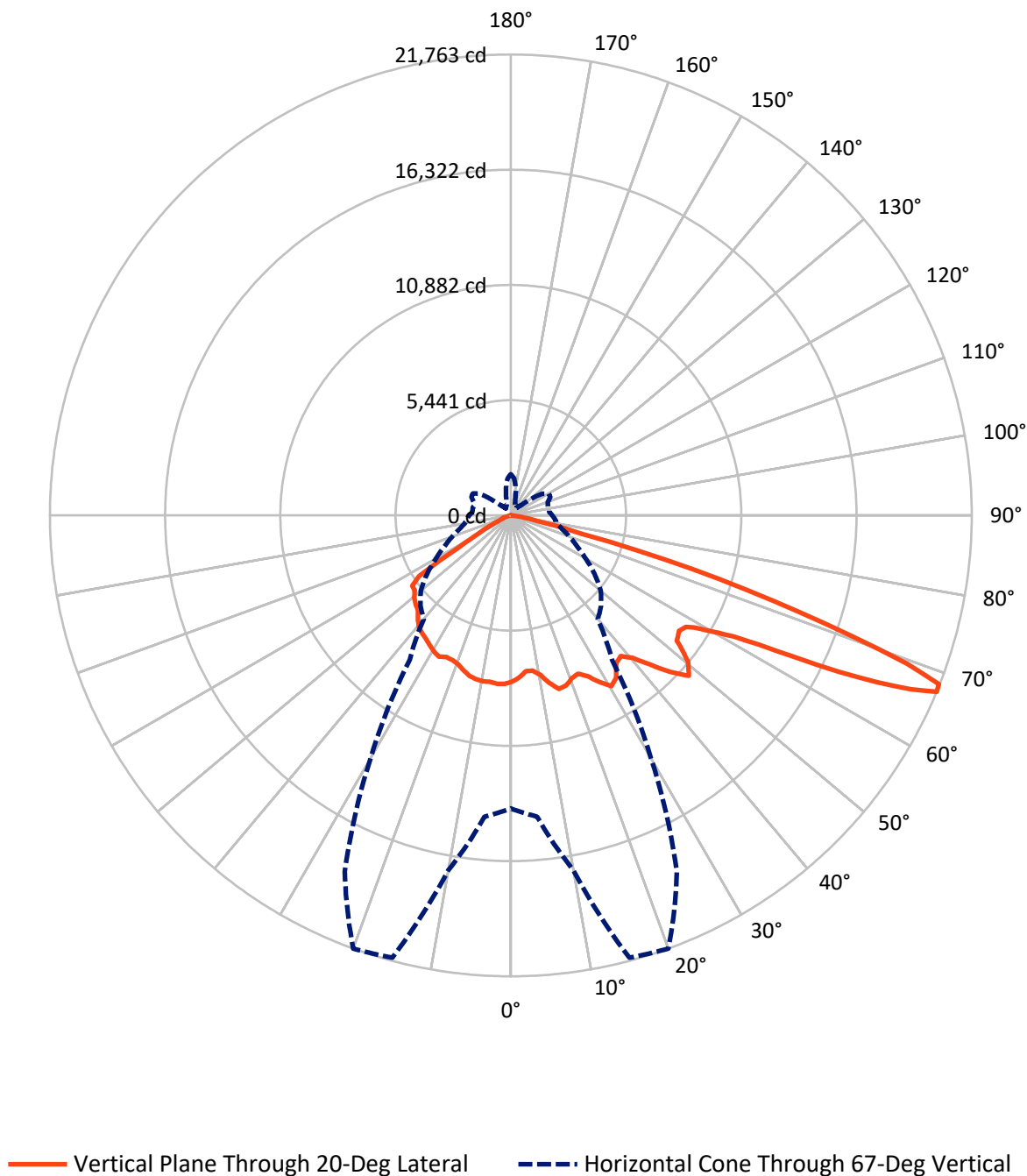
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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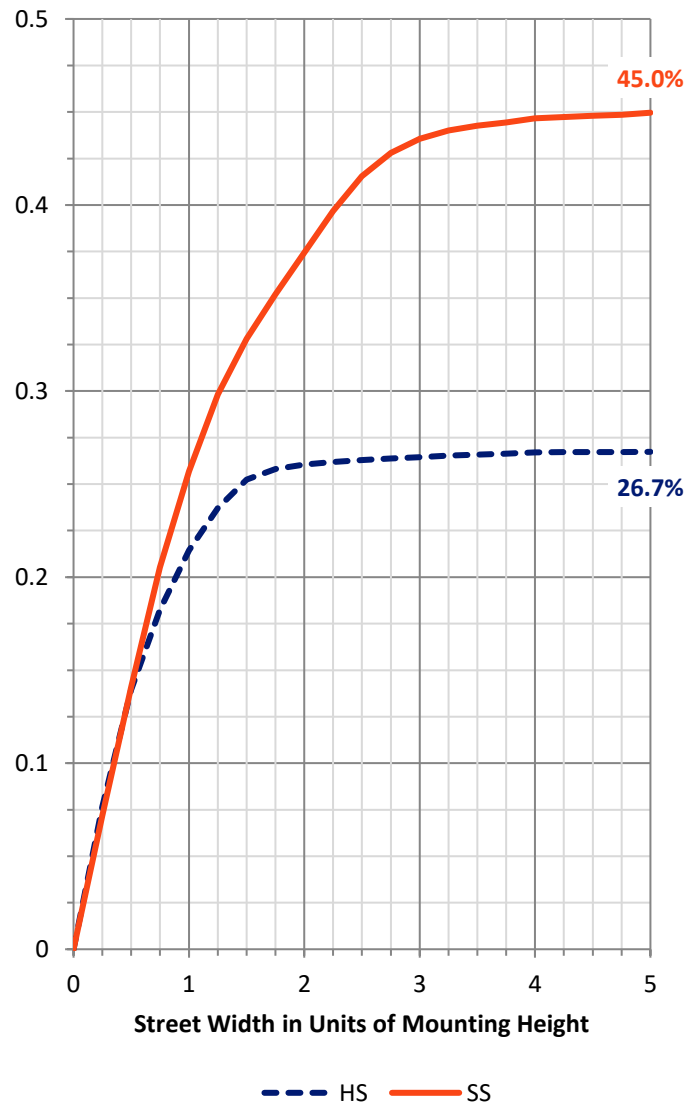
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 10735.8  | 0.0    | 10735.8 |
|                    | % Lamp | 26.8     | 0.0    | 26.8    |
| <b>Street Side</b> | Lumens | 18007.8  | 0.0    | 18007.8 |
|                    | % Lamp | 45.0     | 0.0    | 45.0    |
| <b>Total</b>       | Lumens | 28743.6  | 0.0    | 28743.6 |
|                    | % Lamp | 71.9     | 0.0    | 71.9    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 736.3   | 2.6       | 1.8    |
| 10°-20°   | 2238.6  | 7.8       | 5.6    |
| 20°-30°   | 3643.9  | 12.7      | 9.1    |
| 30°-40°   | 4593.5  | 16.0      | 11.5   |
| 40°-50°   | 5310.6  | 18.5      | 13.3   |
| 50°-60°   | 5378.4  | 18.7      | 13.4   |
| 60°-70°   | 5011.1  | 17.4      | 12.5   |
| 70°-80°   | 1741.6  | 6.1       | 4.4    |
| 80°-90°   | 89.6    | 0.3       | 0.2    |
| 90°-100°  | 0.0     | 0.0       | 0.0    |
| 100°-110° | 0.0     | 0.0       | 0.0    |
| 110°-120° | 0.0     | 0.0       | 0.0    |
| 120°-130° | 0.0     | 0.0       | 0.0    |
| 130°-140° | 0.0     | 0.0       | 0.0    |
| 140°-150° | 0.0     | 0.0       | 0.0    |
| 150°-160° | 0.0     | 0.0       | 0.0    |
| 160°-170° | 0.0     | 0.0       | 0.0    |
| 170°-180° | 0.0     | 0.0       | 0.0    |
| 0°-90°    | 28743.6 | 100.0     | 71.9   |
| 0°-180°   | 28743.6 | 100.0     | 71.9   |

**Coefficient of Utilization**

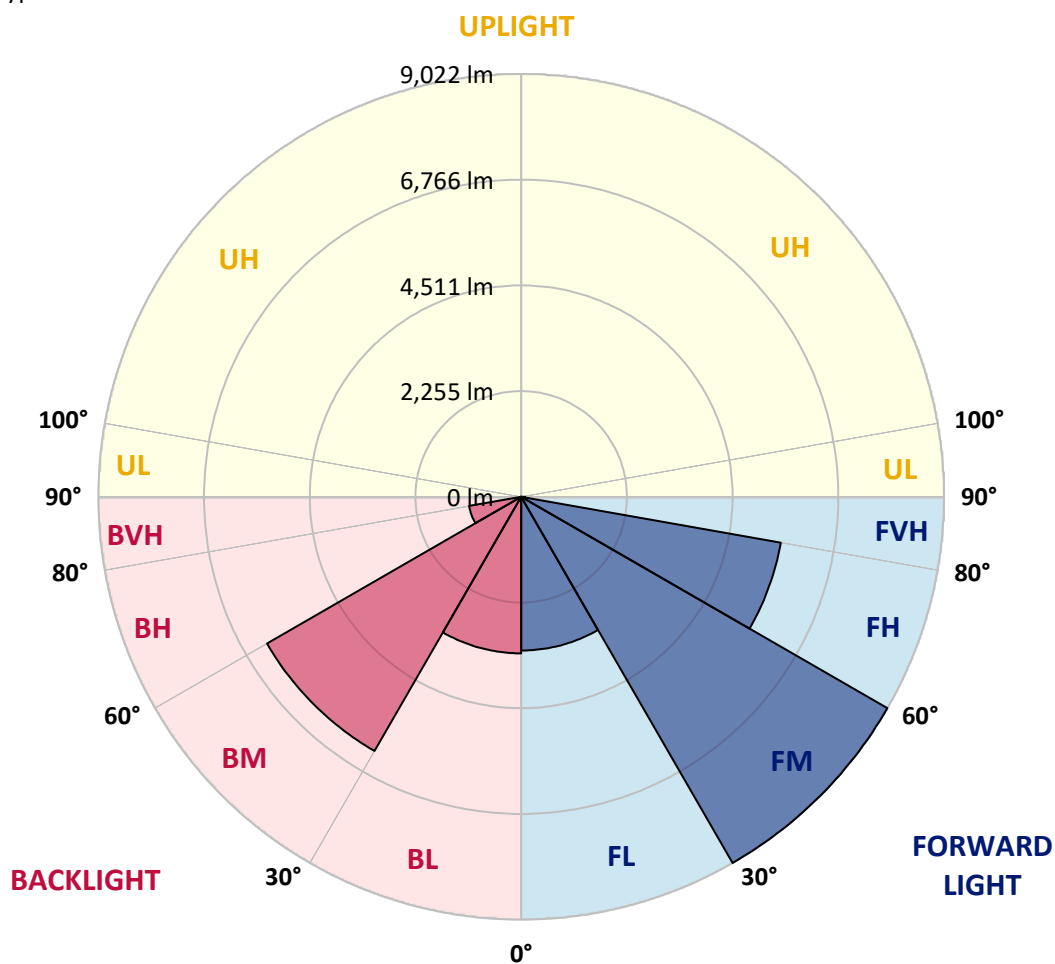


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens  | % Lamp | Zone Rating/Lumen Limit |      |         |
|---------------|-------------|---------|--------|-------------------------|------|---------|
|               |             |         |        | B                       | U    | G       |
| FL            | (0°-30°)    | 3278.7  | 8.2    |                         |      |         |
| FM            | (30°-60°)   | 9022.0  | 22.6   |                         |      |         |
| FH            | (60°-80°)   | 5625.3  | 14.1   |                         |      | G3/7500 |
| FVH           | (80°-90°)   | 81.8    | 0.2    |                         |      | G1/100  |
| BL            | (0°-30°)    | 3340.1  | 8.4    | B4/5000                 |      |         |
| BM            | (30°-60°)   | 6260.6  | 15.7   | B4/8500                 |      |         |
| BH            | (60°-80°)   | 1127.4  | 2.8    | B3/2500                 |      | G3/2500 |
| BVH           | (80°-90°)   | 7.8     | 0.0    |                         |      | G0/10   |
| UL            | (90°-100°)  | 0.0     | 0.0    |                         | U0/0 |         |
| UH            | (100°-180°) | 0.0     | 0.0    |                         | U0/0 |         |
| Trapped Light |             | 11256.4 | 28.1   |                         |      |         |

**BUG Rating: B4-U0-G3**  
Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°    | 50°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 7847.6  | 7847.6  | 7847.6  | 7847.6  | 7847.6  | 7847.6  | 7847.6  | 7847.6  | 7847.6  | 7847.6 | 7847.6 |
| 2.5°  | 7604.6  | 7648.0  | 7682.7  | 7665.3  | 7658.4  | 7656.6  | 7682.7  | 7656.6  | 7682.7  | 7700.0 | 7708.7 |
| 5°    | 7361.5  | 7389.3  | 7396.2  | 7404.9  | 7389.3  | 7422.3  | 7422.3  | 7439.6  | 7474.3  | 7460.5 | 7509.1 |
| 7.5°  | 7465.7  | 7465.7  | 7448.3  | 7430.9  | 7397.9  | 7378.8  | 7361.5  | 7335.4  | 7335.4  | 7326.8 | 7344.1 |
| 10°   | 7795.5  | 7812.9  | 7769.5  | 7736.5  | 7665.3  | 7618.4  | 7580.2  | 7495.2  | 7448.3  | 7413.6 | 7396.2 |
| 12.5° | 8240.0  | 8229.6  | 8238.3  | 8194.9  | 8116.7  | 8038.6  | 7925.8  | 7838.9  | 7700.0  | 7592.4 | 7514.3 |
| 15°   | 8524.7  | 8533.4  | 8507.4  | 8512.6  | 8498.7  | 8399.7  | 8299.0  | 8108.1  | 8009.1  | 7861.5 | 7719.1 |
| 17.5° | 8368.5  | 8368.5  | 8375.4  | 8411.9  | 8444.9  | 8464.0  | 8446.6  | 8368.5  | 8255.6  | 8073.3 | 7873.7 |
| 20°   | 8177.5  | 8186.2  | 8186.2  | 8207.0  | 8212.2  | 8219.2  | 8281.7  | 8273.0  | 8168.8  | 8076.8 | 7951.8 |
| 22.5° | 8455.3  | 8464.0  | 8385.8  | 8229.6  | 8116.7  | 8003.9  | 7925.8  | 7865.0  | 7854.6  | 7804.2 | 7786.9 |
| 25°   | 9161.9  | 9002.2  | 8793.9  | 8628.9  | 8403.2  | 8064.6  | 7760.8  | 7561.2  | 7453.5  | 7413.6 | 7418.8 |
| 27.5° | 9663.7  | 9552.6  | 9375.5  | 9175.8  | 8898.0  | 8516.1  | 8056.0  | 7734.8  | 7457.0  | 7274.7 | 7135.8 |
| 30°   | 9774.8  | 9668.9  | 9542.2  | 9464.0  | 9349.4  | 8993.5  | 8526.5  | 8318.1  | 7943.1  | 7491.7 | 7109.7 |
| 32.5° | 9861.6  | 9670.6  | 9380.7  | 9236.6  | 9132.4  | 8950.1  | 8854.6  | 8793.9  | 8620.2  | 8082.0 | 7347.6 |
| 35°   | 9844.3  | 9644.6  | 9271.3  | 8863.3  | 8568.1  | 8516.1  | 8932.7  | 9531.7  | 9679.3  | 8760.9 | 7743.5 |
| 37.5° | 9450.1  | 9384.2  | 9142.8  | 8767.8  | 8429.3  | 8377.2  | 8920.6  | 9939.7  | 10365.1 | 9427.6 | 8073.3 |
| 40°   | 8819.9  | 9024.8  | 9158.5  | 9132.4  | 8837.3  | 8655.0  | 9115.0  | 10087.3 | 10486.6 | 9523.1 | 8151.5 |
| 42.5° | 8507.4  | 8750.4  | 9471.0  | 9818.2  | 9609.9  | 9167.1  | 9462.3  | 9948.4  | 9988.4  | 9227.9 | 8056.0 |
| 45°   | 8993.5  | 9219.2  | 10287.0 | 10990.1 | 10538.7 | 9688.0  | 9486.6  | 9488.3  | 9321.7  | 8889.3 | 7977.8 |
| 47.5° | 9913.7  | 10330.4 | 11485.0 | 11962.4 | 11318.3 | 10096.0 | 9471.0  | 9280.0  | 8993.5  | 8568.1 | 7708.7 |
| 50°   | 10547.4 | 10686.3 | 11708.9 | 11866.9 | 10833.9 | 9800.8  | 9319.9  | 9019.6  | 8767.8  | 8264.3 | 7384.1 |
| 52.5° | 10642.9 | 10799.2 | 11172.4 | 11181.1 | 9818.2  | 8776.5  | 8767.8  | 8764.3  | 8498.7  | 7934.4 | 7196.5 |
| 55°   | 10156.8 | 10391.2 | 10773.1 | 10747.1 | 9635.9  | 8194.9  | 7995.2  | 8099.4  | 8010.8  | 7654.9 | 7236.5 |
| 57°   | 9618.5  | 9931.1  | 10703.7 | 10721.0 | 9800.8  | 8064.6  | 7500.4  | 7457.0  | 7639.3  | 7562.9 | 7404.9 |
| 58°   | 9427.6  | 9740.1  | 10677.6 | 10912.0 | 10130.7 | 8307.7  | 7404.9  | 7241.7  | 7500.4  | 7582.0 | 7543.8 |
| 59°   | 9271.3  | 9635.9  | 10764.4 | 11290.5 | 10651.6 | 8741.8  | 7465.7  | 7153.1  | 7430.9  | 7562.9 | 7656.6 |
| 60°   | 9288.7  | 9679.3  | 11007.5 | 11814.8 | 11264.5 | 9306.0  | 7700.0  | 7135.8  | 7352.8  | 7549.0 | 7682.7 |
| 61°   | 9444.9  | 9948.4  | 11458.9 | 12656.9 | 11967.6 | 9837.3  | 8082.0  | 7170.5  | 7281.6  | 7472.6 | 7578.5 |
| 62°   | 9809.5  | 10276.6 | 12089.2 | 13924.3 | 13212.5 | 10807.8 | 8446.6  | 7222.6  | 7153.1  | 7300.7 | 7359.8 |
| 63°   | 10538.7 | 11019.7 | 13038.9 | 15617.1 | 15000.8 | 12162.1 | 9123.7  | 7309.4  | 6962.2  | 7031.6 | 7014.2 |
| 64°   | 11597.8 | 12222.8 | 14393.1 | 17101.6 | 17162.3 | 13828.8 | 9974.5  | 7413.6  | 6753.8  | 6701.7 | 6554.2 |
| 65°   | 12778.4 | 13203.8 | 15790.7 | 19098.2 | 18995.8 | 15387.9 | 10964.1 | 7595.9  | 6571.5  | 6493.4 | 6172.2 |
| 66°   | 13663.9 | 14280.2 | 16841.1 | 20860.4 | 20565.3 | 17108.5 | 12188.1 | 7882.3  | 6441.3  | 6250.3 | 5833.6 |
| 67°   | 13837.5 | 14280.2 | 17011.3 | 21615.7 | 21763.3 | 18551.3 | 13247.2 | 8325.1  | 6389.2  | 6024.6 | 5545.4 |
| 68°   | 13212.5 | 13551.0 | 16268.2 | 20747.6 | 21725.1 | 19490.6 | 14488.6 | 8915.4  | 6345.8  | 5781.5 | 5226.0 |
| 69°   | 12021.4 | 12127.4 | 14401.8 | 18740.5 | 19975.0 | 18959.3 | 14974.7 | 9436.2  | 6311.1  | 5469.0 | 4835.3 |
| 70°   | 10445.0 | 10564.8 | 12318.3 | 16329.0 | 17092.9 | 16624.1 | 14063.2 | 9379.0  | 6128.8  | 5078.4 | 4444.7 |
| 72.5° | 5347.5  | 5495.1  | 6173.9  | 9662.0  | 10278.3 | 8799.1  | 8611.6  | 6467.3  | 4861.4  | 3576.6 | 2743.2 |
| 75°   | 3420.3  | 3316.1  | 3342.2  | 3778.0  | 3455.0  | 2951.5  | 2621.7  | 2126.8  | 1953.2  | 1500.1 | 1300.4 |
| 77.5° | 3132.1  | 2908.1  | 2231.0  | 1678.9  | 1310.8  | 1085.1  | 894.1   | 753.5   | 649.3   | 671.9  | 706.6  |
| 80°   | 2257.1  | 2244.9  | 1560.8  | 918.4   | 609.4   | 477.5   | 387.2   | 303.8   | 295.2   | 305.6  | 333.4  |
| 82.5° | 767.4   | 687.5   | 552.1   | 302.1   | 206.6   | 173.6   | 138.9   | 128.5   | 111.1   | 112.9  | 125.0  |
| 85°   | 92.0    | 71.2    | 64.2    | 55.6    | 57.3    | 50.3    | 45.1    | 38.2    | 38.2    | 36.5   | 38.2   |
| 87.5° | 24.3    | 19.1    | 19.1    | 19.1    | 24.3    | 17.4    | 15.6    | 13.9    | 13.9    | 13.9   | 12.2   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 |
| 2.5°  | 7726.1 | 7743.5 | 7743.5 | 7752.1 | 7773.0 | 7795.5 | 7807.7 | 7812.9 | 7830.3 | 7830.3 | 7863.2 |
| 5°    | 7517.7 | 7561.2 | 7595.9 | 7623.7 | 7674.0 | 7717.4 | 7760.8 | 7786.9 | 7812.9 | 7851.1 | 7898.0 |
| 7.5°  | 7352.8 | 7387.5 | 7413.6 | 7470.9 | 7516.0 | 7578.5 | 7630.6 | 7674.0 | 7717.4 | 7769.5 | 7830.3 |
| 10°   | 7371.9 | 7378.8 | 7370.2 | 7406.6 | 7457.0 | 7521.2 | 7630.6 | 7691.4 | 7726.1 | 7778.2 | 7821.6 |
| 12.5° | 7450.0 | 7371.9 | 7344.1 | 7318.1 | 7344.1 | 7413.6 | 7543.8 | 7665.3 | 7778.2 | 7858.0 | 7917.1 |
| 15°   | 7569.8 | 7439.6 | 7344.1 | 7293.8 | 7292.0 | 7361.5 | 7502.1 | 7665.3 | 7812.9 | 7931.0 | 8012.6 |
| 17.5° | 7691.4 | 7526.4 | 7370.2 | 7283.4 | 7248.6 | 7283.4 | 7430.9 | 7621.9 | 7812.9 | 7977.8 | 8099.4 |
| 20°   | 7781.6 | 7609.8 | 7439.6 | 7292.0 | 7213.9 | 7234.7 | 7365.0 | 7569.8 | 7821.6 | 8042.1 | 8273.0 |
| 22.5° | 7691.4 | 7569.8 | 7404.9 | 7266.0 | 7196.5 | 7213.9 | 7326.8 | 7568.1 | 7838.9 | 8160.1 | 8429.3 |
| 25°   | 7427.5 | 7404.9 | 7292.0 | 7161.8 | 7109.7 | 7101.1 | 7196.5 | 7439.6 | 7865.0 | 8229.6 | 8420.6 |
| 27.5° | 7170.5 | 7266.0 | 7238.2 | 7101.1 | 6972.6 | 6807.6 | 6814.6 | 7118.4 | 7682.7 | 8047.3 | 8160.1 |
| 30°   | 6998.6 | 7014.2 | 7019.5 | 7005.6 | 6805.9 | 6503.8 | 6345.8 | 6708.7 | 7285.1 | 7611.5 | 7665.3 |
| 32.5° | 6918.8 | 6788.5 | 6654.9 | 6623.6 | 6578.5 | 6233.0 | 5859.7 | 6198.2 | 6805.9 | 7170.5 | 7085.4 |
| 35°   | 7049.0 | 6651.4 | 6458.7 | 6437.8 | 6403.1 | 5989.9 | 5519.4 | 5851.0 | 6502.1 | 6736.5 | 6771.2 |
| 37.5° | 7187.9 | 6641.0 | 6389.2 | 6321.5 | 6276.4 | 5729.5 | 5278.0 | 5538.5 | 6163.5 | 6371.9 | 6502.1 |
| 40°   | 7283.4 | 6660.1 | 6319.8 | 6198.2 | 5937.8 | 5460.3 | 5052.3 | 5288.5 | 5972.5 | 6154.8 | 6076.7 |
| 42.5° | 7290.3 | 6684.4 | 6354.5 | 6189.6 | 5772.9 | 5191.2 | 4809.3 | 4974.2 | 5590.6 | 5897.9 | 5903.1 |
| 45°   | 7213.9 | 6710.4 | 6413.5 | 6015.9 | 5406.5 | 4929.1 | 4651.3 | 4870.0 | 5486.4 | 5762.4 | 5972.5 |
| 47.5° | 7022.9 | 6675.7 | 6397.9 | 5903.1 | 5243.3 | 4748.5 | 4444.7 | 4653.0 | 5408.3 | 5729.5 | 5937.8 |
| 50°   | 6892.7 | 6745.1 | 6406.6 | 5755.5 | 5182.6 | 4618.3 | 4225.9 | 4609.6 | 5269.4 | 5503.8 | 5286.7 |
| 52.5° | 6901.4 | 6858.0 | 6519.4 | 5597.5 | 5113.1 | 4758.9 | 4462.0 | 4748.5 | 5043.7 | 4748.5 | 4097.4 |
| 55°   | 7101.1 | 7049.0 | 6180.9 | 5460.3 | 5330.1 | 5029.8 | 4661.7 | 4418.6 | 4022.8 | 3863.0 | 3720.7 |
| 57°   | 7361.5 | 6939.6 | 5920.4 | 5469.0 | 5453.4 | 5208.6 | 4583.6 | 4088.8 | 3857.8 | 3663.4 | 3463.7 |
| 58°   | 7491.7 | 6788.5 | 5899.6 | 5477.7 | 5469.0 | 5182.6 | 4505.4 | 4028.0 | 3767.6 | 3585.3 | 3298.8 |
| 59°   | 7509.1 | 6609.7 | 5790.2 | 5425.6 | 5347.5 | 5061.0 | 4357.9 | 3880.4 | 3620.0 | 3429.0 | 3107.8 |
| 60°   | 7370.2 | 6318.0 | 5630.5 | 5286.7 | 5173.9 | 4844.0 | 4172.1 | 3732.8 | 3533.2 | 3286.6 | 2944.6 |
| 61°   | 7123.6 | 6127.0 | 5453.4 | 5033.2 | 4870.0 | 4514.1 | 3854.4 | 3507.1 | 3264.1 | 3055.7 | 2760.6 |
| 62°   | 6719.1 | 5781.5 | 5076.6 | 4644.3 | 4418.6 | 4080.1 | 3592.2 | 3220.7 | 3040.1 | 2873.4 | 2628.6 |
| 63°   | 6276.4 | 5390.9 | 4774.6 | 4238.1 | 3937.7 | 3672.1 | 3324.8 | 3034.9 | 2812.6 | 2691.1 | 2465.4 |
| 64°   | 5825.0 | 4896.1 | 4375.2 | 3784.9 | 3498.4 | 3220.7 | 2934.2 | 2725.8 | 2526.2 | 2474.1 | 2291.8 |
| 65°   | 5425.6 | 4687.7 | 3906.4 | 3439.4 | 3099.1 | 2830.0 | 2630.3 | 2439.4 | 2298.7 | 2262.3 | 2152.9 |
| 66°   | 5165.2 | 4409.9 | 3724.1 | 3142.5 | 2769.2 | 2507.1 | 2335.2 | 2187.6 | 2052.2 | 2057.4 | 1987.9 |
| 67°   | 4826.6 | 4080.1 | 3446.4 | 2951.5 | 2508.8 | 2205.0 | 2092.1 | 1961.9 | 1819.5 | 1826.5 | 1805.6 |
| 68°   | 4488.1 | 3784.9 | 3177.2 | 2694.6 | 2293.5 | 2092.1 | 1890.7 | 1774.4 | 1689.3 | 1599.0 | 1599.0 |
| 69°   | 4166.9 | 3472.4 | 2838.7 | 2389.0 | 2041.8 | 1809.1 | 1684.1 | 1607.7 | 1500.1 | 1324.7 | 1277.8 |
| 70°   | 3784.9 | 2994.9 | 2335.2 | 2043.5 | 1758.8 | 1576.5 | 1439.3 | 1328.2 | 1191.0 | 1027.8 | 958.4  |
| 72.5° | 2163.3 | 1632.0 | 1423.7 | 1347.3 | 1290.0 | 1140.7 | 967.1  | 802.1  | 645.9  | 600.7  | 538.2  |
| 75°   | 1203.2 | 1126.8 | 1092.1 | 1132.0 | 1086.9 | 975.7  | 817.8  | 626.8  | 507.0  | 453.1  | 411.5  |
| 77.5° | 741.4  | 805.6  | 862.9  | 883.7  | 842.1  | 685.8  | 515.7  | 416.7  | 314.3  | 277.8  | 241.3  |
| 80°   | 397.6  | 475.7  | 543.4  | 487.9  | 447.9  | 359.4  | 291.7  | 210.1  | 166.7  | 142.4  | 114.6  |
| 82.5° | 133.7  | 166.7  | 171.9  | 161.5  | 149.3  | 132.0  | 99.0   | 72.9   | 69.4   | 55.6   | 46.9   |
| 85°   | 41.7   | 34.7   | 36.5   | 34.7   | 29.5   | 33.0   | 27.8   | 24.3   | 22.6   | 20.8   | 15.6   |
| 87.5° | 12.2   | 10.4   | 8.7    | 8.7    | 8.7    | 8.7    | 6.9    | 5.2    | 5.2    | 3.5    | 3.5    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 | 7847.6 |
| 2.5°  | 7884.1 | 7934.4 | 7943.1 | 7951.8 | 7920.5 | 7925.8 | 7934.4 | 7927.5 | 7943.1 | 7951.8 | 7958.7 |
| 5°    | 7917.1 | 7960.5 | 7977.8 | 7969.2 | 7925.8 | 7943.1 | 7951.8 | 7951.8 | 7960.5 | 7969.2 | 7977.8 |
| 7.5°  | 7847.6 | 7891.0 | 7917.1 | 7925.8 | 7904.9 | 7899.7 | 7899.7 | 7899.7 | 7917.1 | 7908.4 | 7917.1 |
| 10°   | 7861.5 | 7917.1 | 7934.4 | 7929.2 | 7908.4 | 7934.4 | 7934.4 | 7934.4 | 7934.4 | 7951.8 | 7943.1 |
| 12.5° | 7943.1 | 7986.5 | 8047.3 | 8038.6 | 8043.8 | 8040.3 | 8003.9 | 8000.4 | 7986.5 | 7951.8 | 7903.2 |
| 15°   | 8056.0 | 8153.2 | 8203.5 | 8220.9 | 8194.9 | 8151.5 | 8082.0 | 8003.9 | 7934.4 | 7882.3 | 7821.6 |
| 17.5° | 8203.5 | 8345.9 | 8429.3 | 8455.3 | 8377.2 | 8307.7 | 8220.9 | 8083.7 | 7925.8 | 7783.4 | 7644.5 |
| 20°   | 8432.7 | 8594.2 | 8655.0 | 8637.6 | 8618.5 | 8568.1 | 8385.8 | 8186.2 | 7929.2 | 7677.5 | 7457.0 |
| 22.5° | 8618.5 | 8740.0 | 8776.5 | 8863.3 | 8915.4 | 8880.7 | 8698.4 | 8420.6 | 8047.3 | 7708.7 | 7370.2 |
| 25°   | 8542.1 | 8611.6 | 8698.4 | 8851.1 | 8932.7 | 8955.3 | 8785.2 | 8484.8 | 8142.8 | 7759.1 | 7344.1 |
| 27.5° | 8203.5 | 8252.2 | 8380.6 | 8524.7 | 8623.7 | 8672.3 | 8516.1 | 8299.0 | 8125.4 | 7873.7 | 7483.0 |
| 30°   | 7653.2 | 7700.0 | 7707.0 | 7823.3 | 7943.1 | 8012.6 | 7925.8 | 7957.0 | 7967.4 | 7760.8 | 7378.8 |
| 32.5° | 7049.0 | 6962.2 | 6892.7 | 6927.4 | 7014.2 | 6963.9 | 7198.3 | 7448.3 | 7542.1 | 7432.7 | 7222.6 |
| 35°   | 6684.4 | 6517.7 | 6380.5 | 6285.0 | 6161.8 | 6224.3 | 6606.2 | 6863.2 | 7049.0 | 7170.5 | 7075.0 |
| 37.5° | 6371.9 | 6007.3 | 5911.8 | 5857.9 | 5717.3 | 5790.2 | 5963.8 | 6356.2 | 6715.6 | 6950.0 | 6960.4 |
| 40°   | 5955.2 | 5736.4 | 5805.9 | 5607.9 | 5425.6 | 5399.6 | 5602.7 | 6015.9 | 6441.3 | 6701.7 | 6823.3 |
| 42.5° | 5903.1 | 5712.1 | 5616.6 | 5269.4 | 4965.5 | 4998.5 | 5321.5 | 5776.3 | 6156.6 | 6397.9 | 6554.2 |
| 45°   | 5955.2 | 5547.2 | 4878.7 | 4574.9 | 4505.4 | 4772.8 | 5156.5 | 5588.8 | 5797.2 | 6033.3 | 6250.3 |
| 47.5° | 5486.4 | 4633.9 | 4255.4 | 4132.2 | 4331.8 | 4653.0 | 5000.3 | 5269.4 | 5564.5 | 5842.3 | 6146.1 |
| 50°   | 4444.7 | 3984.6 | 3949.9 | 3923.8 | 4123.5 | 4465.5 | 4731.1 | 5097.5 | 5444.7 | 5686.1 | 5989.9 |
| 52.5° | 3845.7 | 3696.4 | 3654.7 | 3732.8 | 3915.1 | 4128.7 | 4444.7 | 4904.8 | 5234.6 | 5382.2 | 5755.5 |
| 55°   | 3489.8 | 3354.3 | 3420.3 | 3593.9 | 3680.7 | 3871.7 | 4236.3 | 4713.8 | 5069.7 | 5399.6 | 5715.6 |
| 57°   | 3245.0 | 3144.3 | 3324.8 | 3481.1 | 3550.5 | 3732.8 | 4219.0 | 4701.6 | 5069.7 | 5278.0 | 5191.2 |
| 58°   | 3073.1 | 3055.7 | 3246.7 | 3403.0 | 3463.7 | 3689.4 | 4166.9 | 4613.1 | 4887.4 | 4633.9 | 4080.1 |
| 59°   | 2934.2 | 2977.6 | 3177.2 | 3316.1 | 3397.7 | 3672.1 | 4149.5 | 4514.1 | 4658.2 | 3774.5 | 2830.0 |
| 60°   | 2786.6 | 2918.6 | 3109.5 | 3229.3 | 3338.7 | 3672.1 | 4114.8 | 4324.9 | 3967.2 | 2830.0 | 2170.2 |
| 61°   | 2665.1 | 2838.7 | 3045.3 | 3116.5 | 3246.7 | 3611.3 | 3958.5 | 3885.6 | 2934.2 | 2092.1 | 1802.2 |
| 62°   | 2566.1 | 2760.6 | 2968.9 | 3003.6 | 3179.0 | 3403.0 | 3637.3 | 2830.0 | 2161.6 | 1918.5 | 1562.6 |
| 63°   | 2456.7 | 2665.1 | 2856.0 | 2894.2 | 3055.7 | 3116.5 | 2725.8 | 1843.8 | 1640.7 | 1550.4 | 1317.8 |
| 64°   | 2317.8 | 2560.9 | 2691.1 | 2795.3 | 2812.6 | 2387.3 | 1840.4 | 1309.1 | 1213.6 | 1142.4 | 1001.8 |
| 65°   | 2161.6 | 2422.0 | 2500.1 | 2613.0 | 2324.8 | 1696.3 | 1106.0 | 1013.9 | 866.4  | 826.4  | 807.3  |
| 66°   | 2015.7 | 2248.4 | 2335.2 | 2239.7 | 1764.0 | 1083.4 | 800.4  | 677.1  | 637.2  | 637.2  | 691.0  |
| 67°   | 1857.7 | 2050.5 | 2064.3 | 1767.5 | 1079.9 | 671.9  | 513.9  | 413.2  | 442.7  | 500.0  | 581.6  |
| 68°   | 1547.0 | 1696.3 | 1545.2 | 1147.6 | 680.6  | 458.4  | 361.1  | 300.4  | 326.4  | 397.6  | 447.9  |
| 69°   | 1269.2 | 1269.2 | 1081.7 | 698.0  | 475.7  | 316.0  | 269.1  | 250.0  | 276.1  | 338.6  | 420.2  |
| 70°   | 885.5  | 840.3  | 685.8  | 508.7  | 345.5  | 257.0  | 234.4  | 229.2  | 260.4  | 321.2  | 418.4  |
| 72.5° | 397.6  | 303.8  | 265.6  | 246.5  | 215.3  | 191.0  | 180.6  | 194.5  | 224.0  | 281.3  | 395.9  |
| 75°   | 220.5  | 189.2  | 168.4  | 158.0  | 140.6  | 130.2  | 128.5  | 130.2  | 154.5  | 175.4  | 262.2  |
| 77.5° | 142.4  | 99.0   | 88.5   | 79.9   | 71.2   | 64.2   | 69.4   | 59.0   | 50.3   | 55.6   | 57.3   |
| 80°   | 71.2   | 46.9   | 38.2   | 34.7   | 27.8   | 26.0   | 19.1   | 17.4   | 13.9   | 12.2   | 12.2   |
| 82.5° | 31.3   | 22.6   | 19.1   | 17.4   | 20.8   | 12.2   | 10.4   | 8.7    | 8.7    | 6.9    | 6.9    |
| 85°   | 12.2   | 8.7    | 8.7    | 6.9    | 6.9    | 5.2    | 5.2    | 3.5    | 3.5    | 3.5    | 3.5    |
| 87.5° | 1.7    | 1.7    | 1.7    | 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):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 7847.6 | 7847.6 | 7847.6 | 7847.6 |
| 2.5°  | 7962.2 | 7986.5 | 7969.2 | 7969.2 |
| 5°    | 7986.5 | 7986.5 | 7995.2 | 7986.5 |
| 7.5°  | 7925.8 | 7925.8 | 7917.1 | 7899.7 |
| 10°   | 7943.1 | 7943.1 | 7934.4 | 7934.4 |
| 12.5° | 7865.0 | 7830.3 | 7800.7 | 7812.9 |
| 15°   | 7774.7 | 7691.4 | 7648.0 | 7639.3 |
| 17.5° | 7500.4 | 7378.8 | 7365.0 | 7304.2 |
| 20°   | 7283.4 | 7144.5 | 7049.0 | 7031.6 |
| 22.5° | 7066.3 | 6849.3 | 6778.1 | 6701.7 |
| 25°   | 6996.9 | 6762.5 | 6632.3 | 6580.2 |
| 27.5° | 7057.7 | 6745.1 | 6554.2 | 6493.4 |
| 30°   | 6972.6 | 6672.2 | 6519.4 | 6463.9 |
| 32.5° | 6930.9 | 6727.8 | 6675.7 | 6684.4 |
| 35°   | 6962.2 | 6962.2 | 7083.7 | 7135.8 |
| 37.5° | 6996.9 | 7196.5 | 7526.4 | 7587.2 |
| 40°   | 6976.1 | 7292.0 | 7748.7 | 7865.0 |
| 42.5° | 6675.7 | 7031.6 | 7453.5 | 7582.0 |
| 45°   | 6484.7 | 6812.8 | 7135.8 | 7238.2 |
| 47.5° | 6411.8 | 6693.1 | 6910.1 | 6962.2 |
| 50°   | 6094.1 | 6397.9 | 6632.3 | 6736.5 |
| 52.5° | 5998.6 | 6302.4 | 6597.6 | 6719.1 |
| 55°   | 5764.2 | 5894.4 | 6113.2 | 6250.3 |
| 57°   | 4359.6 | 4142.6 | 4201.6 | 4184.2 |
| 58°   | 3602.6 | 3151.2 | 3277.9 | 3415.1 |
| 59°   | 2613.0 | 2604.3 | 2960.2 | 3161.6 |
| 60°   | 2161.6 | 2253.6 | 2566.1 | 2847.4 |
| 61°   | 1797.0 | 2022.7 | 2336.9 | 2581.7 |
| 62°   | 1536.5 | 1800.4 | 2191.1 | 2378.6 |
| 63°   | 1316.0 | 1633.8 | 2031.4 | 2187.6 |
| 64°   | 1151.1 | 1527.9 | 1935.9 | 2100.8 |
| 65°   | 1012.2 | 1458.4 | 1892.5 | 2066.1 |
| 66°   | 932.3  | 1375.1 | 1856.0 | 2014.0 |
| 67°   | 816.0  | 1300.4 | 1753.6 | 1944.5 |
| 68°   | 666.7  | 1241.4 | 1833.4 | 2014.0 |
| 69°   | 685.8  | 1343.8 | 1981.0 | 2222.3 |
| 70°   | 715.3  | 1449.7 | 2130.3 | 2361.2 |
| 72.5° | 772.6  | 1689.3 | 2795.3 | 3159.9 |
| 75°   | 605.9  | 1428.9 | 2227.5 | 2533.1 |
| 77.5° | 79.9   | 137.2  | 86.8   | 105.9  |
| 80°   | 12.2   | 12.2   | 13.9   | 15.6   |
| 82.5° | 8.7    | 8.7    | 8.7    | 8.7    |
| 85°   | 3.5    | 5.2    | 3.5    | 5.2    |
| 87.5° | 1.7    | 1.7    | 1.7    | 1.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)