

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: 768370

Luminaire Tested: **TRU25SXX4F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768370  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TRU25SXX4F  
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE IV  
Light Source: 250 WATT HPS CLEAR E-18  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 30000 (1 lamp)  
Luminaire Lumens: 16248.1 lumens  
Efficiency: 54.2%  
Efficacy: 54.2 lumens/watt  
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

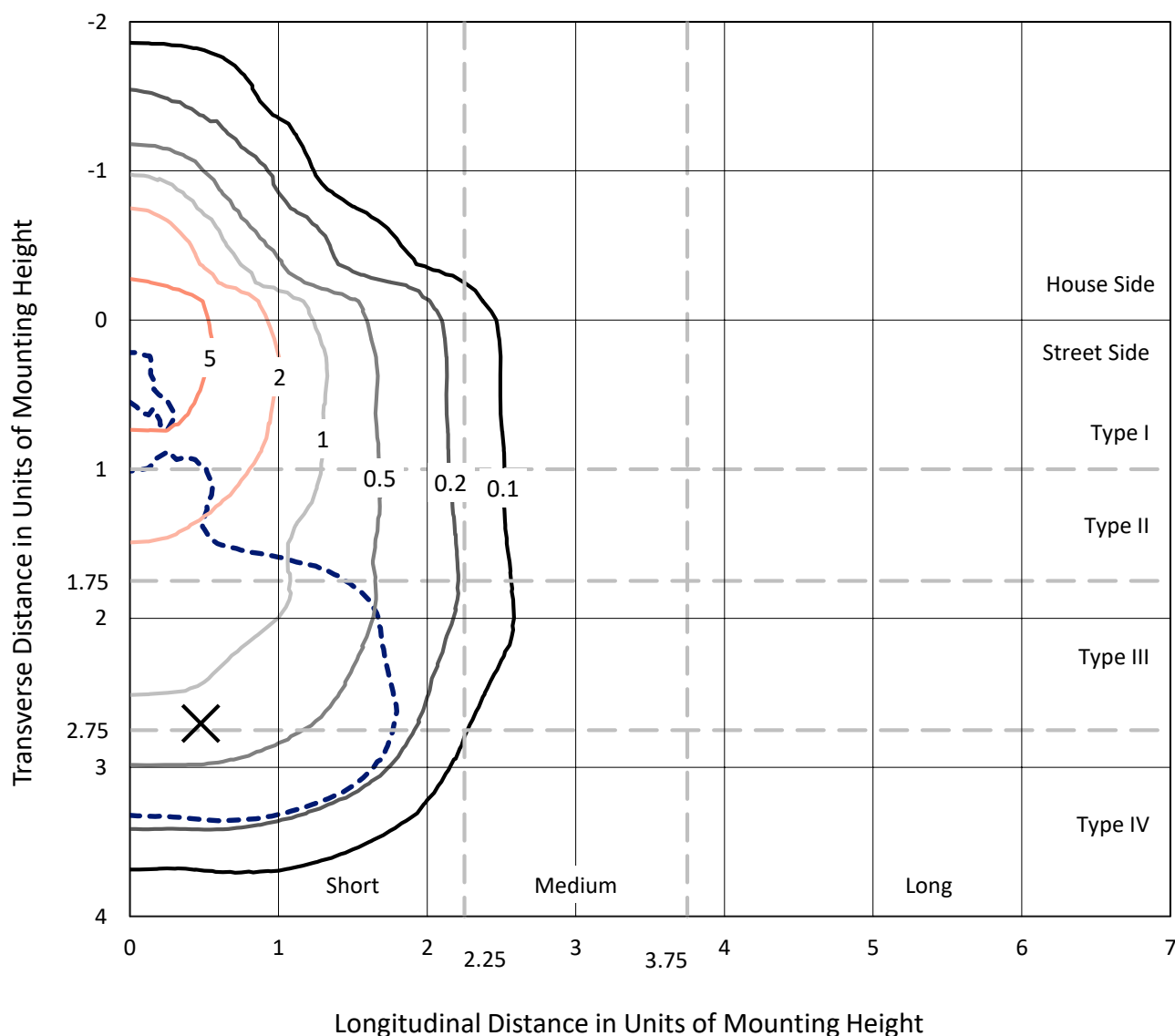
Input Watts (W): 300  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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## Iso-Footcandle Lines of Horizontal Illumination

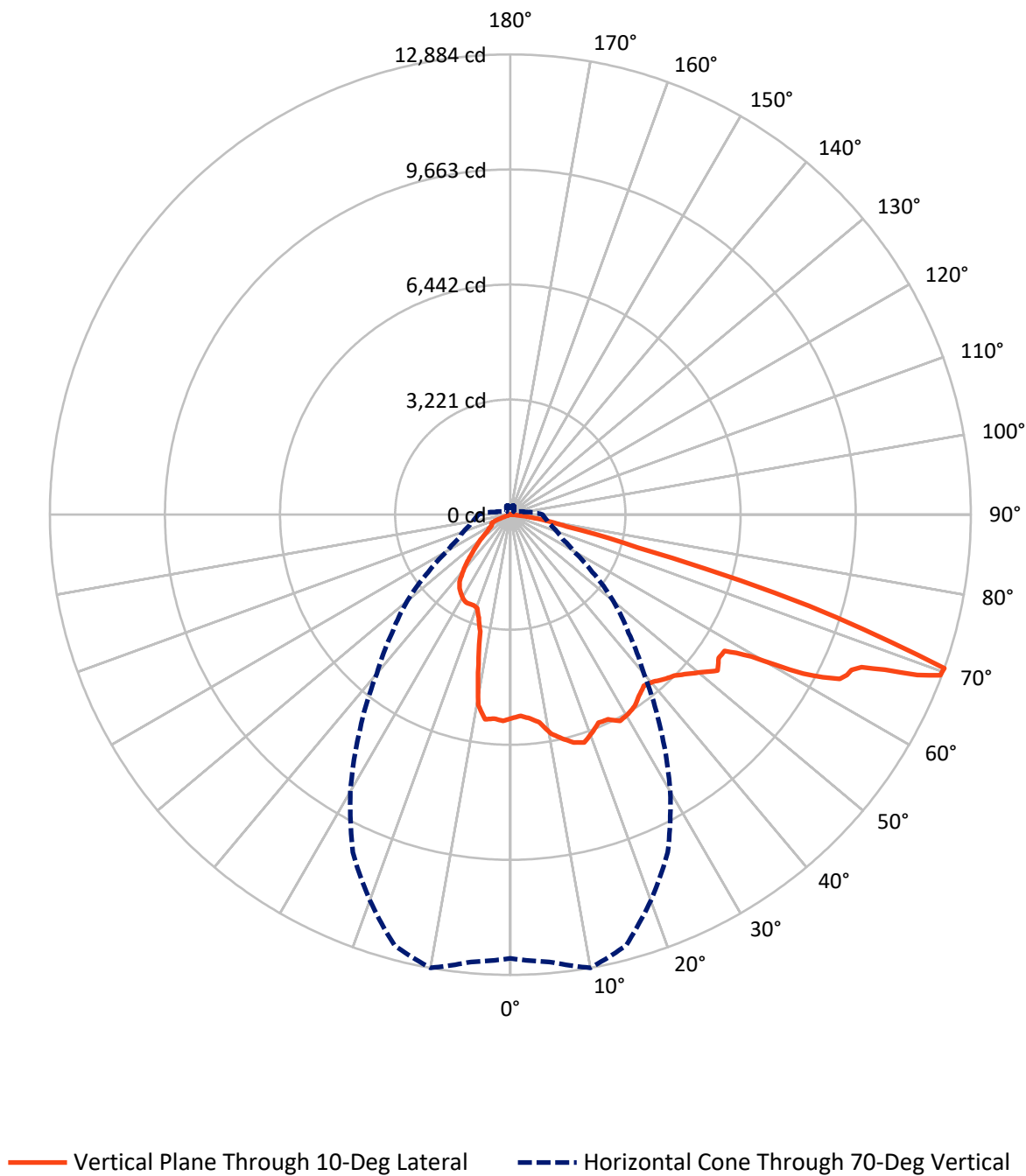
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
Type IV - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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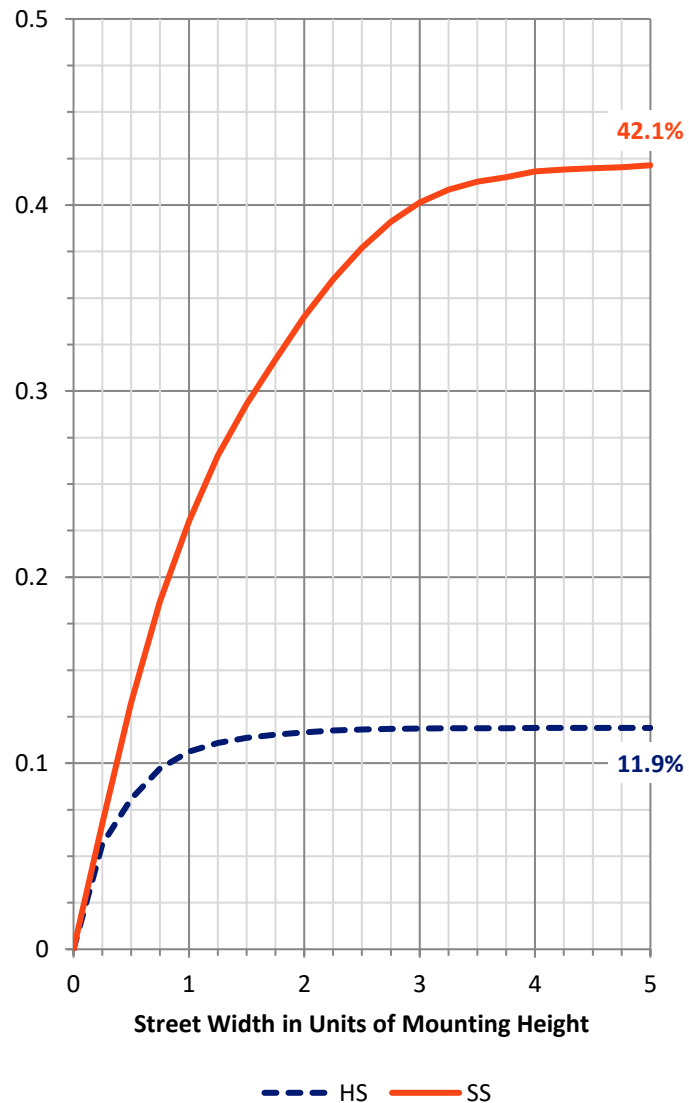
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 3588.9   | 0.0    | 3588.9  |
|                    | % Lamp | 12.0     | 0.0    | 12.0    |
| <b>Street Side</b> | Lumens | 12659.2  | 0.0    | 12659.2 |
|                    | % Lamp | 42.2     | 0.0    | 42.2    |
| <b>Total</b>       | Lumens | 16248.1  | 0.0    | 16248.1 |
|                    | % Lamp | 54.2     | 0.0    | 54.2    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 546.6   | 3.4       | 1.8    |
| 10°-20°   | 1493.8  | 9.2       | 5.0    |
| 20°-30°   | 2057.2  | 12.7      | 6.9    |
| 30°-40°   | 2410.4  | 14.8      | 8.0    |
| 40°-50°   | 2527.9  | 15.6      | 8.4    |
| 50°-60°   | 2546.4  | 15.7      | 8.5    |
| 60°-70°   | 3074.9  | 18.9      | 10.2   |
| 70°-80°   | 1505.8  | 9.3       | 5.0    |
| 80°-90°   | 85.2    | 0.5       | 0.3    |
| 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°    | 16248.1 | 100.0     | 54.2   |
| 0°-180°   | 16248.1 | 100.0     | 54.2   |

**Coefficient of Utilization**



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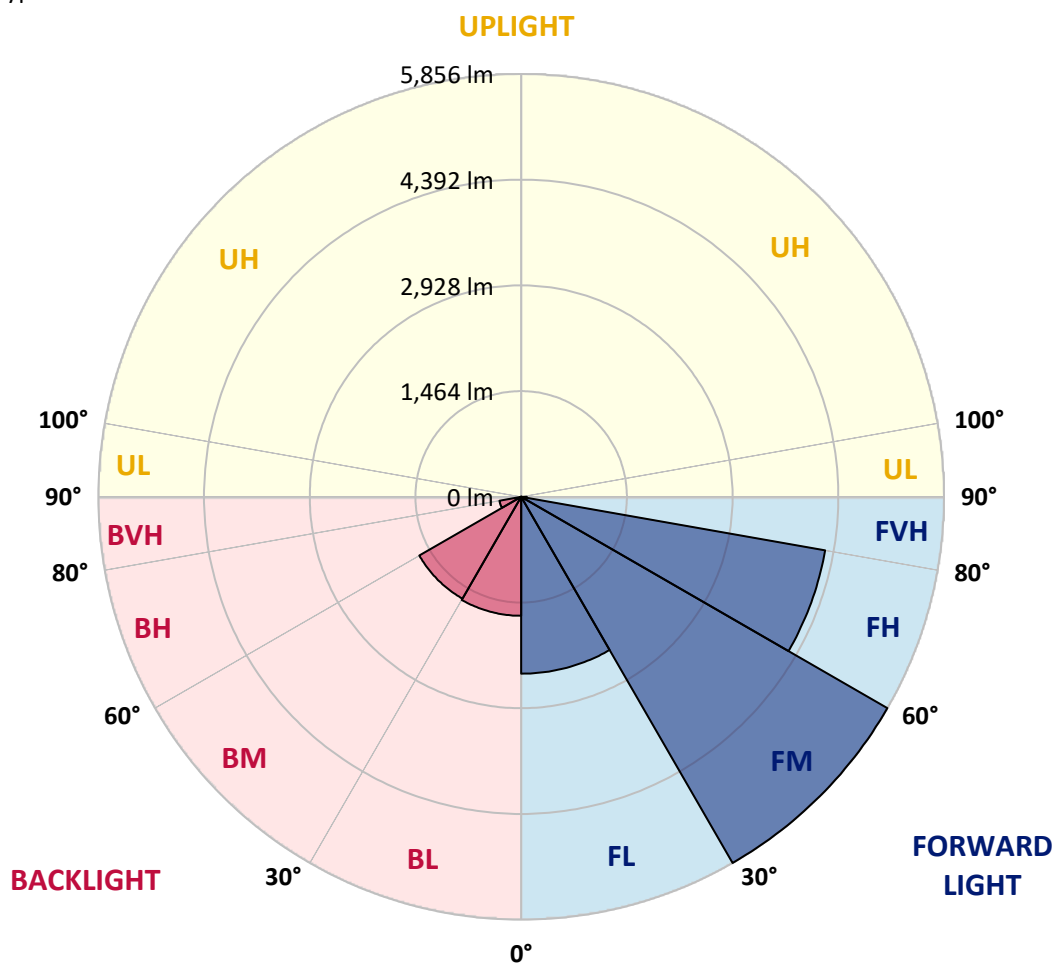
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens  | % Lamp | Zone Rating/Lumen Limit |      |         |
|---------------|-------------|---------|--------|-------------------------|------|---------|
|               |             |         |        | B                       | U    | G       |
| FL            | (0°-30°)    | 2449.8  | 8.2    |                         |      |         |
| FM            | (30°-60°)   | 5856.1  | 19.5   |                         |      |         |
| FH            | (60°-80°)   | 4274.6  | 14.2   |                         |      | G2/5000 |
| FVH           | (80°-90°)   | 78.8    | 0.3    |                         |      | G1/100  |
| BL            | (0°-30°)    | 1647.9  | 5.5    | B3/2500                 |      |         |
| BM            | (30°-60°)   | 1628.6  | 5.4    | B2/2500                 |      |         |
| BH            | (60°-80°)   | 306.0   | 1.0    | B1/500                  |      | G1/500  |
| BVH           | (80°-90°)   | 6.4     | 0.0    |                         |      | G0/10   |
| UL            | (90°-100°)  | 0.0     | 0.0    |                         | U0/0 |         |
| UH            | (100°-180°) | 0.0     | 0.0    |                         | U0/0 |         |
| Trapped Light |             | 13751.9 | 45.8   |                         |      |         |

**BUG Rating: B3-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 5695.2  | 5695.2  | 5695.2  | 5695.2  | 5695.2  | 5695.2  | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 |
| 2.5°  | 5619.6  | 5638.5  | 5638.5  | 5632.2  | 5625.9  | 5625.9  | 5639.8 | 5657.4 | 5651.1 | 5663.7 | 5666.2 |
| 5°    | 5720.4  | 5743.1  | 5733.0  | 5733.0  | 5701.5  | 5688.9  | 5699.0 | 5695.2 | 5670.0 | 5670.0 | 5651.1 |
| 7.5°  | 5896.8  | 5890.5  | 5871.6  | 5896.8  | 5852.7  | 5827.5  | 5821.2 | 5812.4 | 5774.6 | 5745.6 | 5720.4 |
| 10°   | 6291.2  | 6289.9  | 6230.7  | 6205.5  | 6129.9  | 6066.9  | 6010.2 | 5978.7 | 5922.0 | 5903.1 | 5866.6 |
| 12.5° | 6463.8  | 6460.0  | 6429.8  | 6407.1  | 6363.0  | 6287.4  | 6237.0 | 6186.6 | 6111.0 | 6035.4 | 5929.6 |
| 15°   | 6618.8  | 6615.0  | 6616.3  | 6597.4  | 6552.0  | 6444.9  | 6331.5 | 6255.9 | 6155.1 | 6079.5 | 5992.6 |
| 17.5° | 6690.6  | 6715.8  | 6703.2  | 6690.6  | 6633.9  | 6552.0  | 6419.7 | 6274.8 | 6129.9 | 6029.1 | 5928.3 |
| 20°   | 6476.4  | 6507.9  | 6520.5  | 6564.6  | 6558.3  | 6520.5  | 6400.8 | 6255.9 | 6094.6 | 5973.7 | 5852.7 |
| 22.5° | 6286.1  | 6300.0  | 6325.2  | 6361.7  | 6380.6  | 6361.7  | 6292.4 | 6174.0 | 6049.3 | 5928.3 | 5783.4 |
| 25°   | 6325.2  | 6344.1  | 6349.1  | 6352.9  | 6331.5  | 6283.6  | 6155.1 | 6003.9 | 5896.8 | 5821.2 | 5692.7 |
| 27.5° | 6501.6  | 6525.5  | 6539.4  | 6524.3  | 6461.3  | 6312.6  | 6084.5 | 5879.2 | 5739.3 | 5663.7 | 5550.3 |
| 30°   | 6421.0  | 6457.5  | 6482.7  | 6568.4  | 6553.3  | 6394.5  | 6136.2 | 5869.1 | 5619.6 | 5467.1 | 5377.7 |
| 32.5° | 6300.0  | 6337.8  | 6388.2  | 6520.5  | 6612.5  | 6523.0  | 6255.9 | 5923.3 | 5562.9 | 5329.8 | 5197.5 |
| 35°   | 6085.8  | 6104.7  | 6213.1  | 6408.4  | 6610.0  | 6564.6  | 6218.1 | 5856.5 | 5594.4 | 5336.1 | 5109.3 |
| 37.5° | 5896.8  | 5953.5  | 6073.2  | 6276.1  | 6451.2  | 6388.2  | 6035.4 | 5777.1 | 5562.9 | 5386.5 | 5110.6 |
| 40°   | 6010.2  | 6054.3  | 6148.8  | 6311.3  | 6318.9  | 6073.2  | 5808.6 | 5707.8 | 5594.4 | 5430.6 | 5121.9 |
| 42.5° | 6098.4  | 6161.4  | 6300.0  | 6400.8  | 6230.7  | 5934.6  | 5751.9 | 5701.5 | 5603.2 | 5436.9 | 5128.2 |
| 45°   | 6350.4  | 6344.1  | 6432.3  | 6520.5  | 6426.0  | 6136.2  | 5918.2 | 5751.9 | 5549.0 | 5385.2 | 5082.8 |
| 47.5° | 6715.8  | 6615.0  | 6661.6  | 7030.8  | 7067.3  | 6577.2  | 6085.8 | 5705.3 | 5436.9 | 5260.5 | 4936.7 |
| 50°   | 6892.2  | 6836.8  | 6930.0  | 7345.8  | 7182.0  | 6703.2  | 6107.2 | 5657.4 | 5361.3 | 5147.1 | 4750.2 |
| 52.5° | 7164.4  | 7188.3  | 7257.6  | 7175.7  | 6749.8  | 6287.4  | 5959.8 | 5613.3 | 5279.4 | 5051.3 | 4620.4 |
| 55°   | 7106.4  | 7131.6  | 7074.9  | 6822.9  | 6350.4  | 6022.8  | 5733.0 | 5464.6 | 5172.3 | 4876.2 | 4536.0 |
| 57°   | 7308.0  | 7276.5  | 7106.4  | 6734.7  | 6325.2  | 5953.5  | 5707.8 | 5367.6 | 5140.8 | 4846.0 | 4554.9 |
| 58°   | 7660.8  | 7654.5  | 7412.6  | 6923.7  | 6451.2  | 6010.2  | 5722.9 | 5342.4 | 5128.2 | 4882.5 | 4554.9 |
| 59°   | 8297.1  | 8095.5  | 7832.2  | 7352.1  | 6753.6  | 6218.1  | 5783.4 | 5380.2 | 5123.2 | 4939.2 | 4567.5 |
| 60°   | 9286.2  | 9034.2  | 8559.2  | 7944.3  | 7207.2  | 6514.2  | 5967.4 | 5478.5 | 5153.4 | 4977.0 | 4599.0 |
| 61°   | 10029.6 | 9596.2  | 9330.3  | 8549.1  | 7736.4  | 6911.1  | 6300.0 | 5625.9 | 5210.1 | 4995.9 | 4617.9 |
| 62°   | 10672.2 | 10420.2 | 9860.8  | 8988.8  | 8265.6  | 7421.4  | 6759.9 | 5896.8 | 5292.0 | 4983.3 | 4592.7 |
| 63°   | 11075.4 | 10786.9 | 10299.2 | 9450.0  | 8662.5  | 7887.6  | 7163.1 | 6249.6 | 5392.8 | 4951.8 | 4536.0 |
| 64°   | 11151.0 | 10861.2 | 10436.6 | 9802.8  | 9027.9  | 8385.3  | 7736.4 | 6772.5 | 5619.6 | 4951.8 | 4416.3 |
| 65°   | 11055.2 | 10842.3 | 10489.5 | 9972.9  | 9311.4  | 8857.8  | 8391.6 | 7344.5 | 5898.1 | 4945.5 | 4284.0 |
| 66°   | 11133.4 | 10943.1 | 10716.3 | 10193.4 | 9684.4  | 9332.8  | 8952.3 | 7755.3 | 6186.6 | 4964.4 | 4214.7 |
| 67°   | 11579.4 | 11415.6 | 11340.0 | 10691.1 | 10056.1 | 9660.4  | 9292.5 | 8152.2 | 6476.4 | 4993.4 | 4132.8 |
| 68°   | 12259.8 | 12205.6 | 12238.4 | 11371.5 | 10558.8 | 9935.1  | 9332.8 | 8202.6 | 6581.0 | 5000.9 | 4082.4 |
| 69°   | 12688.2 | 12694.5 | 12839.4 | 12196.8 | 11201.4 | 10224.9 | 9254.7 | 7886.3 | 6394.5 | 4960.6 | 3977.8 |
| 70°   | 12423.6 | 12568.5 | 12883.5 | 12492.9 | 11491.2 | 10426.5 | 8946.0 | 7333.2 | 5808.6 | 4680.9 | 3764.9 |
| 72.5° | 7799.4  | 8066.5  | 8731.8  | 9046.8  | 9016.6  | 8925.8  | 7921.6 | 6262.2 | 4460.4 | 3604.9 | 3087.0 |
| 75°   | 3074.4  | 3030.3  | 3683.0  | 4181.9  | 4466.7  | 4537.3  | 4403.7 | 3439.8 | 2532.6 | 2019.8 | 1827.0 |
| 77.5° | 1423.8  | 1505.7  | 1619.1  | 1757.7  | 1462.9  | 1246.1  | 903.4  | 761.0  | 727.0  | 748.4  | 767.3  |
| 80°   | 1009.3  | 1020.6  | 995.4   | 903.4   | 762.3   | 546.8   | 395.6  | 301.1  | 303.7  | 331.4  | 330.1  |
| 82.5° | 500.2   | 491.4   | 487.6   | 438.5   | 373.0   | 294.8   | 249.5  | 187.7  | 144.9  | 134.8  | 127.3  |
| 85°   | 182.7   | 180.2   | 161.3   | 134.8   | 129.8   | 124.7   | 137.3  | 137.3  | 102.1  | 69.3   | 52.9   |
| 87.5° | 36.5    | 35.3    | 30.2    | 32.8    | 36.5    | 34.0    | 31.5   | 31.5   | 27.7   | 18.9   | 10.1   |
| 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°    | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 |
| 2.5°  | 5653.6 | 5663.7 | 5663.7 | 5676.3 | 5666.2 | 5663.7 | 5663.7 | 5682.6 | 5688.9 | 5695.2 | 5701.5 |
| 5°    | 5630.9 | 5625.9 | 5607.0 | 5622.1 | 5607.0 | 5619.6 | 5625.9 | 5657.4 | 5670.0 | 5701.5 | 5726.7 |
| 7.5°  | 5670.0 | 5651.1 | 5607.0 | 5594.4 | 5575.5 | 5573.0 | 5588.1 | 5623.4 | 5663.7 | 5707.8 | 5739.3 |
| 10°   | 5808.6 | 5759.5 | 5695.2 | 5642.3 | 5588.1 | 5561.6 | 5562.9 | 5605.7 | 5654.9 | 5714.1 | 5736.8 |
| 12.5° | 5846.4 | 5783.4 | 5726.7 | 5657.4 | 5569.2 | 5516.3 | 5506.2 | 5575.5 | 5657.4 | 5714.1 | 5701.5 |
| 15°   | 5866.6 | 5755.7 | 5670.0 | 5619.6 | 5526.4 | 5436.9 | 5421.8 | 5493.6 | 5613.3 | 5662.4 | 5610.8 |
| 17.5° | 5831.3 | 5720.4 | 5581.8 | 5518.8 | 5449.5 | 5336.1 | 5310.9 | 5390.3 | 5499.9 | 5525.1 | 5399.1 |
| 20°   | 5715.4 | 5607.0 | 5476.0 | 5385.2 | 5318.5 | 5254.2 | 5172.3 | 5220.2 | 5308.4 | 5280.7 | 5133.2 |
| 22.5° | 5619.6 | 5481.0 | 5373.9 | 5271.8 | 5197.5 | 5114.3 | 4994.6 | 5002.2 | 5133.2 | 5052.6 | 4901.4 |
| 25°   | 5493.6 | 5342.4 | 5229.0 | 5166.0 | 5071.5 | 4945.5 | 4762.8 | 4751.5 | 4907.7 | 4751.5 | 4617.9 |
| 27.5° | 5355.0 | 5203.8 | 5071.5 | 5008.5 | 4901.4 | 4743.9 | 4538.5 | 4529.7 | 4626.7 | 4454.1 | 4291.6 |
| 30°   | 5235.3 | 5103.0 | 4951.8 | 4866.1 | 4769.1 | 4586.4 | 4321.8 | 4258.8 | 4394.9 | 4209.7 | 3912.3 |
| 32.5° | 5065.2 | 4964.4 | 4819.5 | 4673.3 | 4586.4 | 4398.7 | 4105.1 | 4030.7 | 4145.4 | 3943.8 | 3402.0 |
| 35°   | 4951.8 | 4825.8 | 4693.5 | 4504.5 | 4403.7 | 4239.9 | 3924.9 | 3790.1 | 3879.5 | 3603.6 | 2915.6 |
| 37.5° | 4863.6 | 4737.6 | 4565.0 | 4386.1 | 4233.6 | 4058.5 | 3698.1 | 3534.3 | 3569.6 | 3301.2 | 2337.3 |
| 40°   | 4794.3 | 4599.0 | 4476.8 | 4315.5 | 4107.6 | 3893.4 | 3546.9 | 3383.1 | 3327.7 | 2956.0 | 1850.9 |
| 42.5° | 4759.0 | 4473.0 | 4345.7 | 4239.9 | 3981.6 | 3720.8 | 3402.0 | 3172.7 | 3017.7 | 2555.3 | 1392.3 |
| 45°   | 4706.1 | 4347.0 | 4189.5 | 4107.6 | 3860.6 | 3534.3 | 3200.4 | 2898.0 | 2821.1 | 2173.5 | 1141.6 |
| 47.5° | 4536.0 | 4151.7 | 3969.0 | 3937.5 | 3660.3 | 3321.4 | 2973.6 | 2715.3 | 2620.8 | 1833.3 | 945.0  |
| 50°   | 4328.1 | 3924.9 | 3735.9 | 3679.2 | 3395.7 | 3124.8 | 2772.0 | 2526.3 | 2463.3 | 1459.1 | 825.3  |
| 52.5° | 4178.2 | 3761.1 | 3515.4 | 3420.9 | 3137.4 | 2939.6 | 2620.8 | 2400.3 | 2255.4 | 1164.2 | 724.5  |
| 55°   | 4096.3 | 3667.9 | 3351.6 | 3112.2 | 2958.5 | 2765.7 | 2479.7 | 2331.0 | 2057.6 | 895.9  | 686.7  |
| 57°   | 4059.7 | 3604.9 | 3175.2 | 2866.5 | 2764.4 | 2532.6 | 2303.3 | 2123.1 | 1927.8 | 773.6  | 641.3  |
| 58°   | 4069.8 | 3565.8 | 3112.2 | 2778.3 | 2646.0 | 2475.9 | 2236.5 | 2053.8 | 1845.9 | 727.0  | 628.7  |
| 59°   | 4069.8 | 3521.7 | 3030.3 | 2652.3 | 2554.0 | 2375.1 | 2154.6 | 1990.8 | 1781.6 | 698.0  | 628.7  |
| 60°   | 4076.1 | 3478.9 | 2967.3 | 2576.7 | 2450.7 | 2273.0 | 2072.7 | 1920.2 | 1707.3 | 700.6  | 626.2  |
| 61°   | 4032.0 | 3389.4 | 2872.8 | 2507.4 | 2343.6 | 2210.0 | 1997.1 | 1857.2 | 1630.4 | 698.0  | 623.7  |
| 62°   | 3956.4 | 3301.2 | 2764.4 | 2426.8 | 2230.2 | 2121.8 | 1921.5 | 1789.2 | 1530.9 | 703.1  | 616.1  |
| 63°   | 3843.0 | 3143.7 | 2633.4 | 2324.7 | 2097.9 | 2022.3 | 1858.5 | 1703.5 | 1423.8 | 688.0  | 604.8  |
| 64°   | 3704.4 | 3005.1 | 2494.8 | 2217.6 | 1961.8 | 1896.3 | 1745.1 | 1619.1 | 1304.1 | 655.2  | 590.9  |
| 65°   | 3603.6 | 2899.3 | 2389.0 | 2072.7 | 1833.3 | 1726.2 | 1619.1 | 1512.0 | 1205.8 | 614.9  | 572.0  |
| 66°   | 3477.6 | 2803.5 | 2225.2 | 1959.3 | 1701.0 | 1568.7 | 1481.8 | 1381.0 | 1111.3 | 569.5  | 541.8  |
| 67°   | 3339.0 | 2639.7 | 2123.1 | 1814.4 | 1549.8 | 1423.8 | 1375.9 | 1273.9 | 981.5  | 530.5  | 496.4  |
| 68°   | 3244.5 | 2482.2 | 1965.6 | 1682.1 | 1416.2 | 1299.1 | 1255.0 | 1165.5 | 865.6  | 482.6  | 439.7  |
| 69°   | 3017.7 | 2257.9 | 1789.2 | 1530.9 | 1302.8 | 1181.9 | 1113.8 | 1019.3 | 752.2  | 454.9  | 386.8  |
| 70°   | 2806.0 | 2046.2 | 1606.5 | 1393.6 | 1190.7 | 1058.4 | 963.9  | 897.1  | 665.3  | 409.5  | 345.2  |
| 72.5° | 2150.8 | 1512.0 | 1193.2 | 1033.2 | 889.6  | 735.8  | 651.4  | 574.6  | 438.5  | 336.4  | 270.9  |
| 75°   | 1520.8 | 1009.3 | 701.8  | 680.4  | 642.6  | 583.4  | 502.7  | 428.4  | 340.2  | 273.4  | 205.4  |
| 77.5° | 819.0  | 796.3  | 563.2  | 490.1  | 457.4  | 423.4  | 370.4  | 302.4  | 234.4  | 186.5  | 134.8  |
| 80°   | 344.0  | 409.5  | 412.0  | 327.6  | 294.8  | 273.4  | 241.9  | 175.1  | 144.9  | 108.4  | 79.4   |
| 82.5° | 123.5  | 119.7  | 133.6  | 137.3  | 128.5  | 110.9  | 104.6  | 81.9   | 64.3   | 51.7   | 41.6   |
| 85°   | 44.1   | 36.5   | 39.1   | 36.5   | 42.8   | 40.3   | 31.5   | 27.7   | 25.2   | 25.2   | 15.1   |
| 87.5° | 7.6    | 6.3    | 7.6    | 5.0    | 5.0    | 10.1   | 10.1   | 10.1   | 6.3    | 6.3    | 2.5    |
| 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°    | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 | 5695.2 |
| 2.5°  | 5707.8 | 5726.7 | 5733.0 | 5751.9 | 5745.6 | 5751.9 | 5756.9 | 5777.1 | 5770.8 | 5764.5 | 5770.8 |
| 5°    | 5739.3 | 5780.9 | 5777.1 | 5784.7 | 5782.1 | 5789.7 | 5764.5 | 5764.5 | 5764.5 | 5745.6 | 5726.7 |
| 7.5°  | 5753.2 | 5758.2 | 5739.3 | 5720.4 | 5701.5 | 5695.2 | 5707.8 | 5721.7 | 5739.3 | 5743.1 | 5751.9 |
| 10°   | 5714.1 | 5688.9 | 5670.0 | 5670.0 | 5695.2 | 5709.1 | 5726.7 | 5695.2 | 5613.3 | 5581.8 | 5472.2 |
| 12.5° | 5651.1 | 5613.3 | 5619.6 | 5632.2 | 5578.0 | 5449.5 | 5266.8 | 5077.8 | 4964.4 | 4687.2 | 4581.4 |
| 15°   | 5510.0 | 5499.9 | 5450.8 | 5285.7 | 5079.1 | 4756.5 | 4362.1 | 4146.7 | 3786.3 | 3679.2 | 3483.9 |
| 17.5° | 5329.8 | 5229.0 | 5008.5 | 4663.3 | 4214.7 | 3735.9 | 3509.1 | 3282.3 | 3165.1 | 3075.7 | 3036.6 |
| 20°   | 5047.6 | 4838.4 | 4347.0 | 3767.4 | 3424.7 | 3143.7 | 2992.5 | 2891.7 | 2772.0 | 2734.2 | 2727.9 |
| 22.5° | 4730.0 | 4214.7 | 3577.1 | 3074.4 | 2853.9 | 2789.6 | 2677.5 | 2608.2 | 2576.7 | 2575.4 | 2606.9 |
| 25°   | 4242.4 | 3591.0 | 2904.3 | 2614.5 | 2580.5 | 2507.4 | 2464.6 | 2425.5 | 2438.1 | 2497.3 | 2576.7 |
| 27.5° | 3679.2 | 2853.9 | 2387.7 | 2331.0 | 2312.1 | 2270.5 | 2249.1 | 2275.6 | 2381.4 | 2501.1 | 2595.6 |
| 30°   | 3084.5 | 2337.3 | 2135.7 | 2091.6 | 2060.1 | 2047.5 | 2110.5 | 2255.4 | 2438.1 | 2557.8 | 2614.5 |
| 32.5° | 2425.5 | 1934.1 | 1833.3 | 1871.1 | 1845.9 | 1885.0 | 2082.8 | 2313.4 | 2450.7 | 2475.9 | 2501.1 |
| 35°   | 1883.7 | 1682.1 | 1679.6 | 1656.9 | 1644.3 | 1833.3 | 2130.7 | 2230.2 | 2167.2 | 2249.1 | 2368.8 |
| 37.5° | 1543.5 | 1480.5 | 1480.5 | 1415.0 | 1480.5 | 1818.2 | 1852.2 | 1801.8 | 1864.8 | 2007.2 | 2186.1 |
| 40°   | 1323.0 | 1389.8 | 1314.2 | 1231.0 | 1382.2 | 1467.9 | 1436.4 | 1451.5 | 1568.7 | 1757.7 | 1915.2 |
| 42.5° | 1249.9 | 1260.0 | 1134.0 | 1102.5 | 1151.6 | 1144.1 | 1141.6 | 1248.7 | 1362.1 | 1512.0 | 1644.3 |
| 45°   | 1192.0 | 1147.9 | 984.1  | 989.1  | 907.2  | 918.5  | 987.8  | 1073.5 | 1180.6 | 1278.9 | 1379.7 |
| 47.5° | 1020.6 | 882.0  | 905.9  | 816.5  | 751.0  | 786.2  | 829.1  | 904.7  | 997.9  | 1126.4 | 1205.8 |
| 50°   | 795.1  | 800.1  | 830.3  | 661.5  | 626.2  | 688.0  | 728.3  | 737.1  | 841.7  | 966.4  | 1040.8 |
| 52.5° | 742.1  | 773.6  | 670.3  | 553.1  | 551.9  | 616.1  | 648.9  | 648.9  | 711.9  | 830.3  | 884.5  |
| 55°   | 665.3  | 659.0  | 525.4  | 461.2  | 492.7  | 556.9  | 596.0  | 578.3  | 609.8  | 651.4  | 680.4  |
| 57°   | 611.1  | 559.4  | 458.6  | 414.5  | 443.5  | 495.2  | 548.1  | 525.4  | 495.2  | 602.3  | 659.0  |
| 58°   | 593.5  | 524.2  | 438.5  | 401.9  | 408.2  | 462.4  | 521.6  | 459.9  | 493.9  | 598.5  | 651.4  |
| 59°   | 584.6  | 507.8  | 413.3  | 384.3  | 371.7  | 436.0  | 485.1  | 459.9  | 493.9  | 590.9  | 641.3  |
| 60°   | 577.1  | 496.4  | 395.6  | 367.9  | 346.5  | 390.6  | 443.5  | 457.4  | 488.9  | 579.6  | 633.8  |
| 61°   | 569.5  | 482.6  | 383.0  | 340.2  | 320.0  | 349.0  | 428.4  | 451.1  | 478.8  | 556.9  | 606.1  |
| 62°   | 564.5  | 458.6  | 371.7  | 313.7  | 293.6  | 317.5  | 404.5  | 444.8  | 468.7  | 530.5  | 590.9  |
| 63°   | 559.4  | 434.7  | 355.3  | 282.2  | 257.0  | 289.8  | 381.8  | 438.5  | 448.6  | 509.0  | 569.5  |
| 64°   | 530.5  | 394.4  | 321.3  | 255.8  | 223.0  | 272.2  | 357.8  | 422.1  | 429.7  | 482.6  | 548.1  |
| 65°   | 495.2  | 360.4  | 301.1  | 231.8  | 204.1  | 236.9  | 340.2  | 394.4  | 407.0  | 461.2  | 538.0  |
| 66°   | 443.5  | 330.1  | 259.6  | 209.2  | 199.1  | 215.5  | 308.7  | 347.8  | 375.5  | 436.0  | 512.8  |
| 67°   | 381.8  | 293.6  | 225.5  | 186.5  | 182.7  | 196.6  | 268.4  | 303.7  | 335.2  | 407.0  | 476.3  |
| 68°   | 359.1  | 265.9  | 202.9  | 171.4  | 166.3  | 175.1  | 225.5  | 263.3  | 302.4  | 373.0  | 437.2  |
| 69°   | 311.2  | 226.8  | 176.4  | 155.0  | 147.4  | 151.2  | 186.5  | 219.2  | 254.5  | 322.6  | 371.7  |
| 70°   | 265.9  | 204.1  | 157.5  | 142.4  | 134.8  | 136.1  | 157.5  | 181.4  | 223.0  | 258.3  | 268.4  |
| 72.5° | 196.6  | 139.9  | 121.0  | 108.4  | 102.1  | 99.5   | 108.4  | 117.2  | 110.9  | 93.2   | 84.4   |
| 75°   | 136.1  | 97.0   | 83.2   | 75.6   | 65.5   | 64.3   | 64.3   | 60.5   | 54.2   | 49.1   | 45.4   |
| 77.5° | 88.2   | 63.0   | 52.9   | 44.1   | 37.8   | 39.1   | 36.5   | 31.5   | 29.0   | 23.9   | 23.9   |
| 80°   | 55.4   | 40.3   | 30.2   | 25.2   | 22.7   | 23.9   | 20.2   | 16.4   | 16.4   | 11.3   | 8.8    |
| 82.5° | 27.7   | 18.9   | 15.1   | 12.6   | 10.1   | 10.1   | 7.6    | 6.3    | 3.8    | 2.5    | 2.5    |
| 85°   | 7.6    | 5.0    | 3.8    | 2.5    | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.8    | 1.3    | 3.8    | 2.5    |
| 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):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 5695.2 | 5695.2 | 5695.2 | 5695.2 |
| 2.5°  | 5772.1 | 5777.1 | 5783.4 | 5796.0 |
| 5°    | 5726.7 | 5726.7 | 5726.7 | 5722.9 |
| 7.5°  | 5762.0 | 5770.8 | 5783.4 | 5783.4 |
| 10°   | 5468.4 | 5410.4 | 5380.2 | 5430.6 |
| 12.5° | 4495.7 | 4284.0 | 4221.0 | 4195.8 |
| 15°   | 3420.9 | 3370.5 | 3345.3 | 3313.8 |
| 17.5° | 3011.4 | 3017.7 | 3007.6 | 3024.0 |
| 20°   | 2753.1 | 2778.3 | 2803.5 | 2822.4 |
| 22.5° | 2664.9 | 2740.5 | 2803.5 | 2835.0 |
| 25°   | 2652.3 | 2746.8 | 2837.5 | 2872.8 |
| 27.5° | 2671.2 | 2753.1 | 2841.3 | 2885.4 |
| 30°   | 2652.3 | 2690.1 | 2727.9 | 2759.4 |
| 32.5° | 2541.4 | 2601.9 | 2641.0 | 2683.8 |
| 35°   | 2444.4 | 2502.4 | 2520.0 | 2545.2 |
| 37.5° | 2293.2 | 2356.2 | 2400.3 | 2405.3 |
| 40°   | 2043.7 | 2091.6 | 2179.8 | 2217.6 |
| 42.5° | 1751.4 | 1833.3 | 1874.9 | 1927.8 |
| 45°   | 1474.2 | 1549.8 | 1587.6 | 1587.6 |
| 47.5° | 1285.2 | 1304.1 | 1295.3 | 1297.8 |
| 50°   | 1100.0 | 1127.7 | 1145.3 | 1151.6 |
| 52.5° | 913.5  | 904.7  | 842.9  | 861.8  |
| 55°   | 720.7  | 772.4  | 816.5  | 842.9  |
| 57°   | 686.7  | 714.4  | 761.0  | 793.8  |
| 58°   | 662.8  | 694.3  | 715.7  | 740.9  |
| 59°   | 642.6  | 648.9  | 645.1  | 659.0  |
| 60°   | 616.1  | 612.4  | 623.7  | 617.4  |
| 61°   | 606.1  | 596.0  | 589.7  | 596.0  |
| 62°   | 599.8  | 589.7  | 583.4  | 582.1  |
| 63°   | 592.2  | 593.5  | 587.2  | 584.6  |
| 64°   | 580.9  | 590.9  | 596.0  | 598.5  |
| 65°   | 564.5  | 585.9  | 593.5  | 602.3  |
| 66°   | 539.3  | 563.2  | 577.1  | 577.1  |
| 67°   | 514.1  | 525.4  | 539.3  | 530.5  |
| 68°   | 462.4  | 466.2  | 488.9  | 464.9  |
| 69°   | 394.4  | 362.9  | 379.3  | 395.6  |
| 70°   | 262.1  | 226.8  | 191.5  | 202.9  |
| 72.5° | 80.6   | 88.2   | 92.0   | 92.0   |
| 75°   | 47.9   | 47.9   | 50.4   | 55.4   |
| 77.5° | 23.9   | 25.2   | 25.2   | 25.2   |
| 80°   | 10.1   | 10.1   | 10.1   | 10.1   |
| 82.5° | 2.5    | 2.5    | 3.8    | 3.8    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.3    | 1.3    | 0.0    | 1.3    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)