

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: P158520

Luminaire Tested: **VST-E12-LED-E-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158520  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E12-LED-E-U-SL3  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (252) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36202.4 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

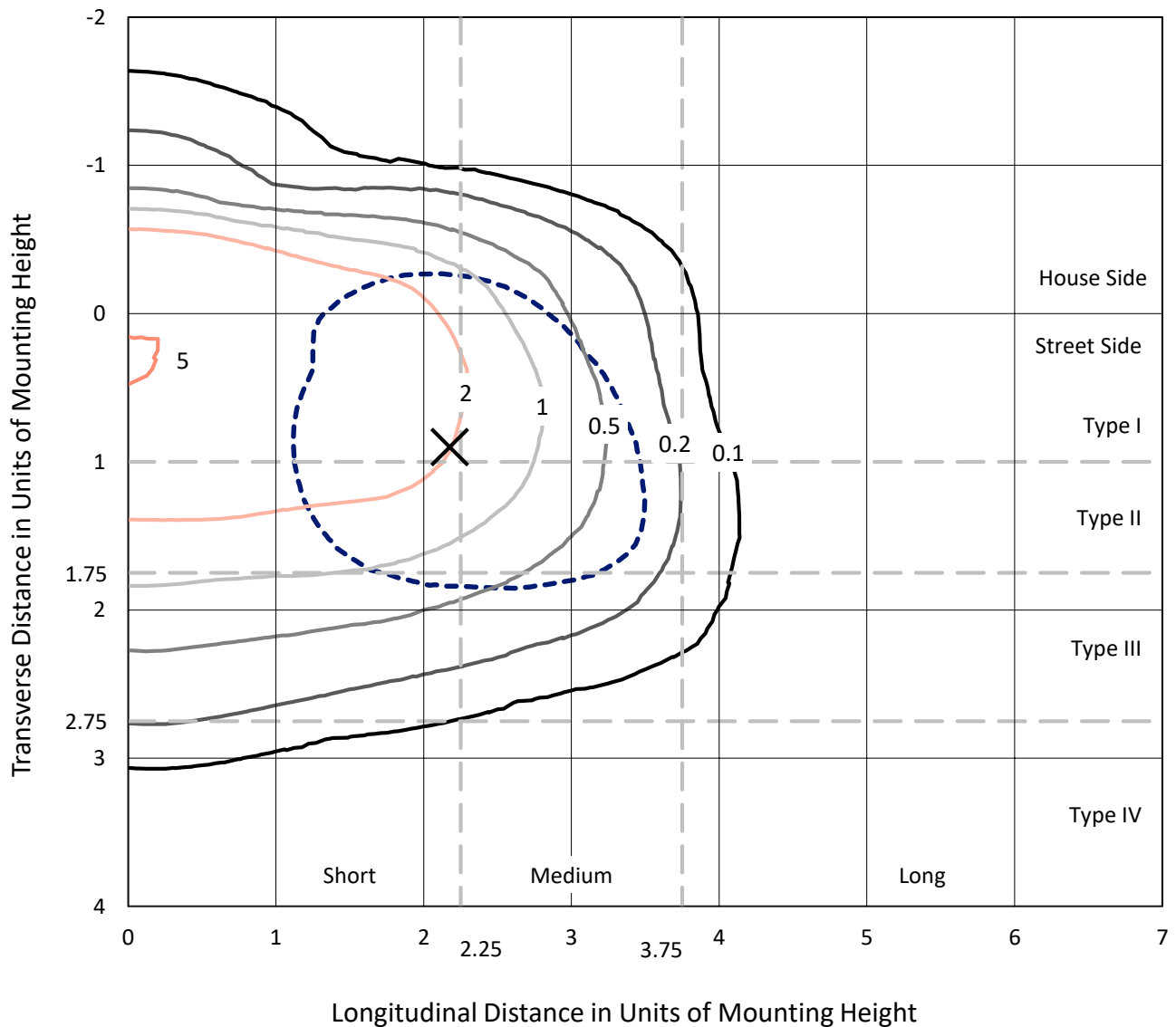
Input Watts (W): 291.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

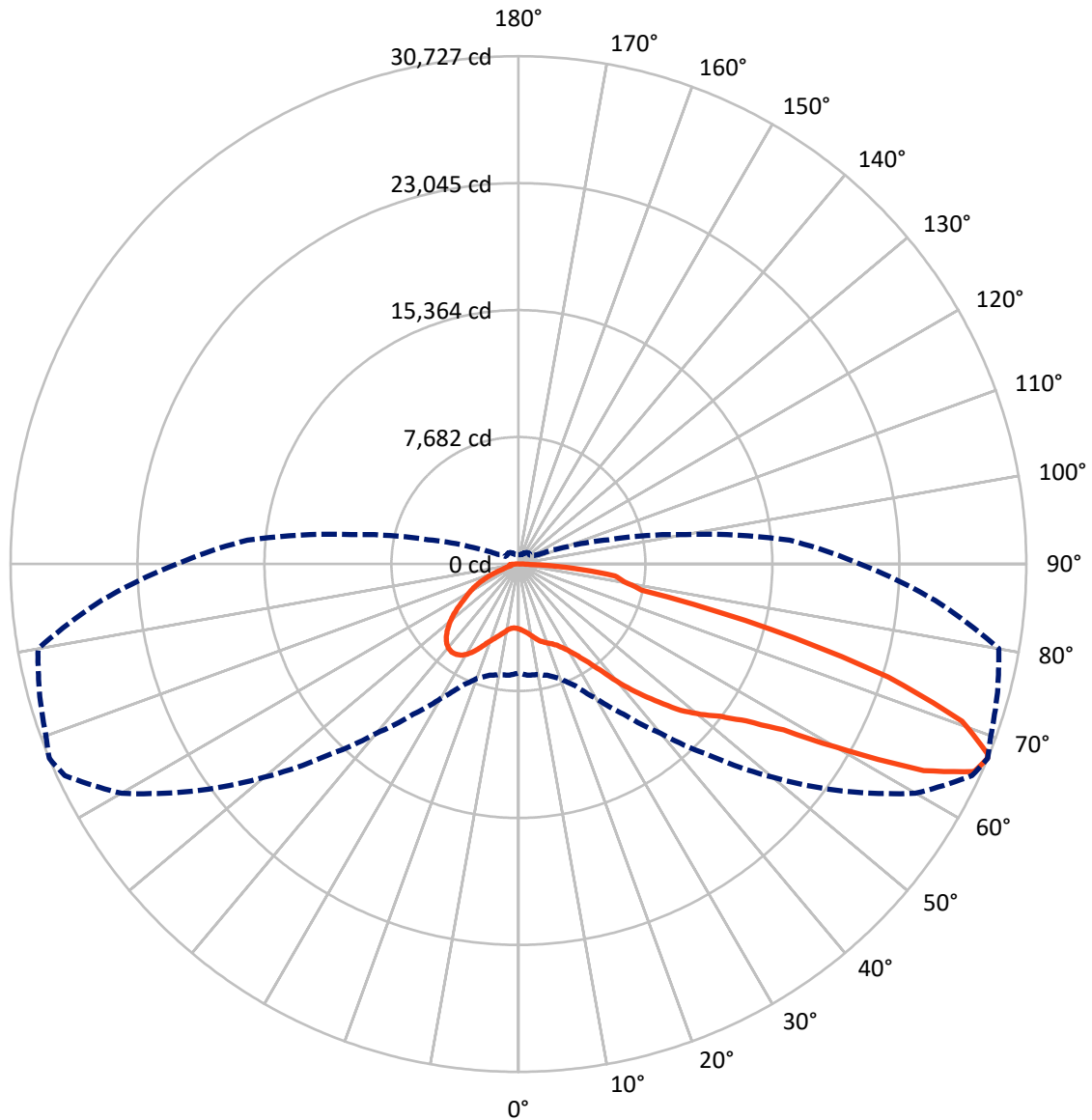
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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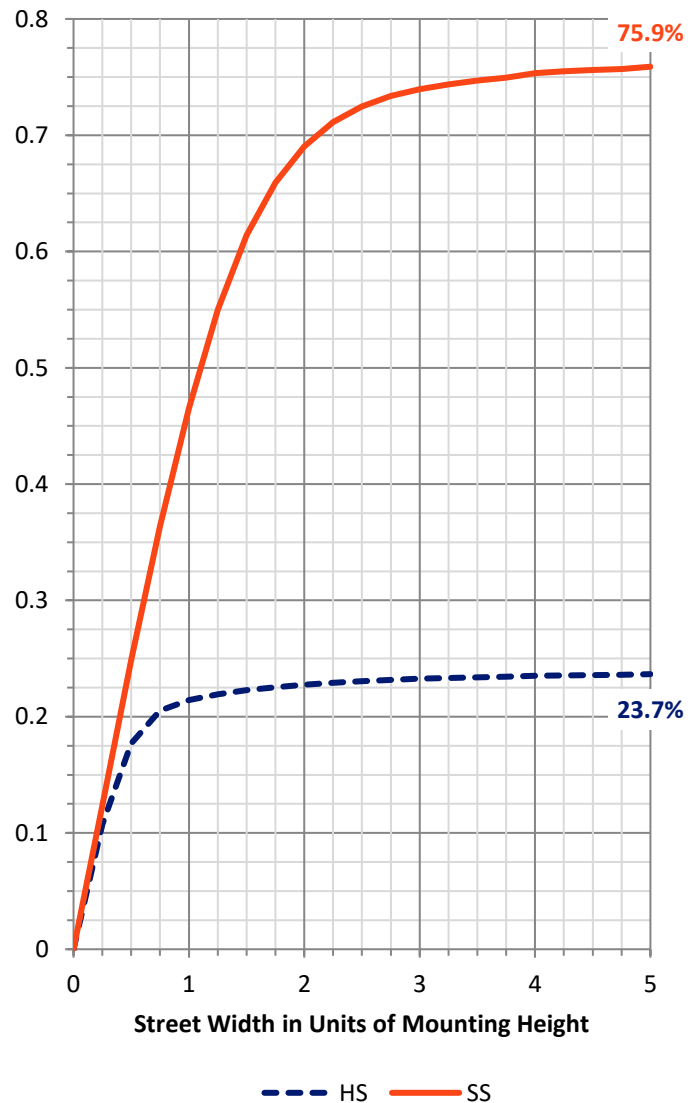
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8685.0   | 0.0    | 8685.0  |
|                    | % Fixture | 24.0     | 0.0    | 24.0    |
| <b>Street Side</b> | Lumens    | 27517.4  | 0.0    | 27517.4 |
|                    | % Fixture | 76.0     | 0.0    | 76.0    |
| <b>Total</b>       | Lumens    | 36202.4  | 0.0    | 36202.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 390.0   | 1.1       |
| 10°-20°   | 1328.7  | 3.7       |
| 20°-30°   | 2372.2  | 6.6       |
| 30°-40°   | 3476.6  | 9.6       |
| 40°-50°   | 5371.8  | 14.8      |
| 50°-60°   | 7822.3  | 21.6      |
| 60°-70°   | 10189.8 | 28.1      |
| 70°-80°   | 4561.3  | 12.6      |
| 80°-90°   | 689.7   | 1.9       |
| 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°    | 36202.4 | 100.0     |
| 0°-180°   | 36202.4 | 100.0     |



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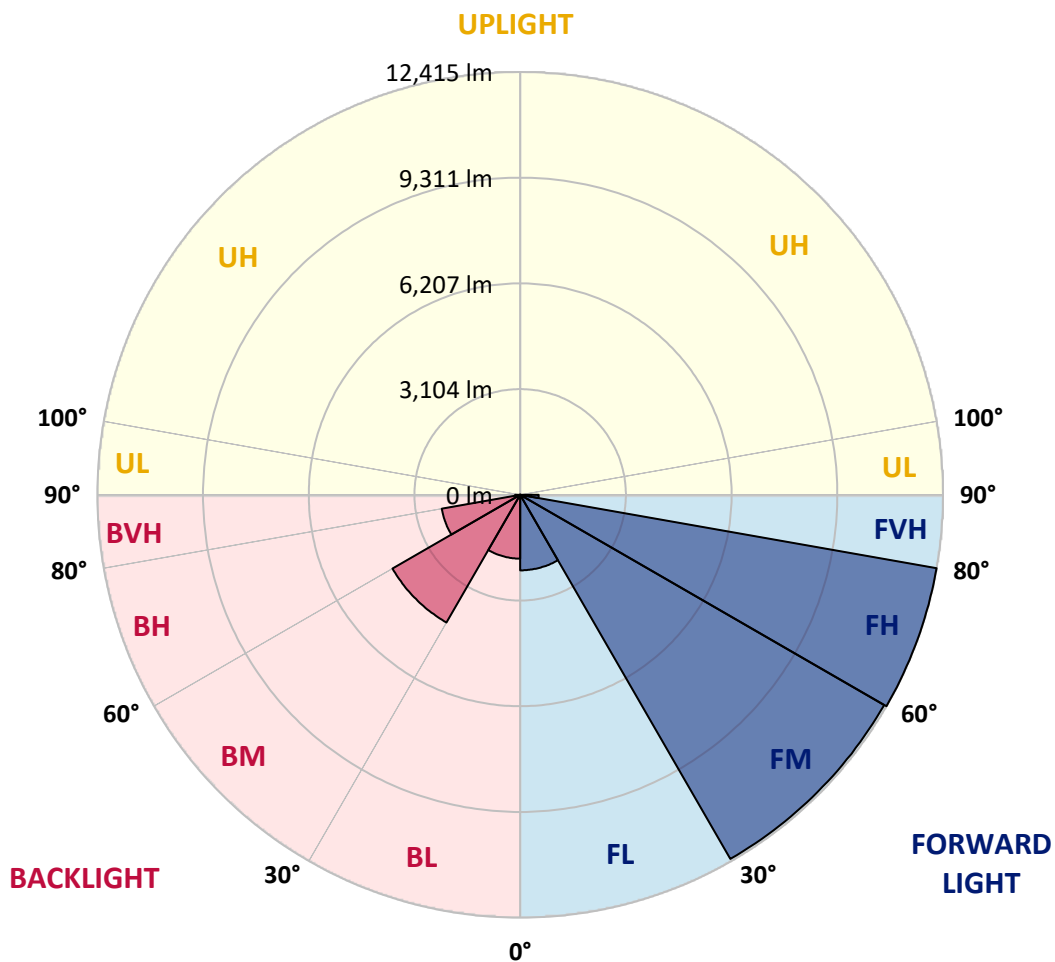
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2218.1  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 12343.1 | 34.1      |                         |      |         |
| FH   | (60°-80°)   | 12414.5 | 34.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 541.6   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1872.8  | 5.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4327.6  | 12.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2336.6  | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 148.1   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  |
| 2.5°  | 4077.6 | 4087.2 | 4089.6 | 4087.2 | 4089.6  | 4080.0  | 4077.6  | 4063.2  | 4070.4  | 4051.2  | 4046.4  |
| 5°    | 4298.4 | 4305.6 | 4310.4 | 4291.2 | 4296.0  | 4286.4  | 4274.4  | 4260.0  | 4240.8  | 4214.4  | 4197.6  |
| 7.5°  | 4514.4 | 4526.4 | 4524.0 | 4516.8 | 4500.0  | 4490.4  | 4466.4  | 4444.8  | 4411.2  | 4380.0  | 4358.4  |
| 10°   | 4804.8 | 4802.4 | 4802.4 | 4761.6 | 4737.6  | 4716.0  | 4672.8  | 4639.2  | 4605.6  | 4560.0  | 4536.0  |
| 12.5° | 5140.8 | 5124.0 | 5116.8 | 5088.0 | 5037.6  | 4999.2  | 4936.8  | 4872.0  | 4812.0  | 4764.0  | 4725.6  |
| 15°   | 5464.8 | 5464.8 | 5445.6 | 5400.0 | 5352.0  | 5301.6  | 5212.8  | 5119.2  | 5020.8  | 4944.0  | 4905.6  |
| 17.5° | 5760.0 | 5733.6 | 5716.8 | 5656.8 | 5606.4  | 5524.8  | 5426.4  | 5325.6  | 5203.2  | 5095.2  | 5020.8  |
| 20°   | 5976.0 | 5954.4 | 5918.4 | 5844.0 | 5757.6  | 5661.6  | 5546.4  | 5428.8  | 5296.8  | 5179.2  | 5095.2  |
| 22.5° | 6100.8 | 6074.4 | 6019.2 | 5920.8 | 5803.2  | 5668.8  | 5534.4  | 5424.0  | 5304.0  | 5215.2  | 5145.6  |
| 25°   | 6165.6 | 6139.2 | 6064.8 | 5935.2 | 5776.8  | 5599.2  | 5445.6  | 5337.6  | 5268.0  | 5246.4  | 5236.8  |
| 27.5° | 6163.2 | 6141.6 | 6062.4 | 5913.6 | 5709.6  | 5505.6  | 5340.0  | 5248.8  | 5241.6  | 5325.6  | 5388.0  |
| 30°   | 6100.8 | 6086.4 | 6014.4 | 5865.6 | 5652.0  | 5438.4  | 5284.8  | 5236.8  | 5311.2  | 5488.8  | 5642.4  |
| 32.5° | 6038.4 | 6031.2 | 5980.8 | 5846.4 | 5664.0  | 5484.0  | 5378.4  | 5383.2  | 5536.8  | 5810.4  | 6057.6  |
| 35°   | 6045.6 | 6055.2 | 6048.0 | 5976.0 | 5860.8  | 5767.2  | 5716.8  | 5822.4  | 6062.4  | 6393.6  | 6724.8  |
| 37.5° | 6108.0 | 6144.0 | 6189.6 | 6196.8 | 6199.2  | 6184.8  | 6290.4  | 6513.6  | 6864.0  | 7296.0  | 7814.4  |
| 40°   | 6244.8 | 6285.6 | 6417.6 | 6532.8 | 6681.6  | 6859.2  | 7072.8  | 7382.4  | 7816.8  | 8349.6  | 8985.6  |
| 42.5° | 6669.6 | 6727.2 | 6890.4 | 7104.0 | 7377.6  | 7656.0  | 7975.2  | 8397.6  | 8930.4  | 9492.0  | 10159.2 |
| 45°   | 7224.0 | 7344.0 | 7524.0 | 7761.6 | 8172.0  | 8563.2  | 8976.0  | 9448.8  | 10015.2 | 10718.4 | 11390.4 |
| 47.5° | 7915.2 | 8035.2 | 8296.8 | 8551.2 | 9036.0  | 9523.2  | 9974.4  | 10468.8 | 11083.2 | 11803.2 | 12547.2 |
| 50°   | 8520.0 | 8656.8 | 8889.6 | 9232.8 | 9794.4  | 10392.0 | 10891.2 | 11426.4 | 11942.4 | 12700.8 | 13452.0 |
| 52.5° | 8995.2 | 9093.6 | 9316.8 | 9631.2 | 10257.6 | 10912.8 | 11544.0 | 12139.2 | 12751.2 | 13509.6 | 14205.6 |
| 55°   | 9055.2 | 9146.4 | 9364.8 | 9724.8 | 10360.8 | 11088.0 | 11815.2 | 12520.8 | 13387.2 | 14215.2 | 15136.8 |
| 57.5° | 8796.0 | 8870.4 | 9091.2 | 9412.8 | 10032.0 | 10860.0 | 11779.2 | 12684.0 | 13792.8 | 14911.2 | 16036.8 |
| 60°   | 8428.8 | 8503.2 | 8676.0 | 8932.8 | 9492.0  | 10384.8 | 11457.6 | 12696.0 | 14169.6 | 15784.8 | 17440.8 |
| 62.5° | 8025.6 | 8090.4 | 8229.6 | 8412.0 | 8904.0  | 9727.2  | 10956.0 | 12616.8 | 14476.8 | 16653.6 | 19207.2 |
| 65°   | 7346.4 | 7502.4 | 7562.4 | 7749.6 | 8241.6  | 9019.2  | 10269.6 | 12081.6 | 14352.0 | 17040.0 | 20316.0 |
| 67°   | 6595.2 | 6753.6 | 6784.8 | 6974.4 | 7368.0  | 8114.4  | 9386.4  | 11090.4 | 13363.2 | 16372.8 | 20071.2 |
| 67.5° | 6355.2 | 6489.6 | 6537.6 | 6727.2 | 7099.2  | 7802.4  | 9009.6  | 10732.8 | 13060.8 | 16008.0 | 19776.0 |
| 70°   | 4672.8 | 4821.6 | 4874.4 | 4953.6 | 5220.0  | 5805.6  | 6604.8  | 8100.0  | 10413.6 | 13063.2 | 16682.4 |
| 72.5° | 2500.8 | 2620.8 | 2671.2 | 2788.8 | 2925.6  | 3244.8  | 3856.8  | 4929.6  | 6391.2  | 8740.8  | 11868.0 |
| 75°   | 1692.0 | 1740.0 | 1776.0 | 1857.6 | 1999.2  | 2253.6  | 2522.4  | 2899.2  | 3782.4  | 4932.0  | 6753.6  |
| 77.5° | 964.8  | 986.4  | 991.2  | 1005.6 | 1118.4  | 1360.8  | 1802.4  | 2440.8  | 3129.6  | 3573.6  | 4320.0  |
| 80°   | 417.6  | 460.8  | 494.4  | 472.8  | 465.6   | 516.0   | 645.6   | 962.4   | 1886.4  | 2995.2  | 3554.4  |
| 82.5° | 225.6  | 244.8  | 273.6  | 276.0  | 290.4   | 307.2   | 333.6   | 396.0   | 556.8   | 1123.2  | 2450.4  |
| 85°   | 117.6  | 122.4  | 163.2  | 187.2  | 199.2   | 208.8   | 213.6   | 237.6   | 273.6   | 348.0   | 609.6   |
| 87.5° | 16.8   | 24.0   | 28.8   | 38.4   | 43.2    | 45.6    | 52.8    | 67.2    | 79.2    | 96.0    | 163.2   |
| 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°     | 67.5°   | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  | 3924.0  |
| 2.5°  | 4024.8  | 4020.0  | 4005.6  | 3996.0  | 3986.4  | 3976.8  | 3964.8  | 3955.2  | 3938.4  | 3926.4  | 3912.0  |
| 5°    | 4173.6  | 4144.8  | 4125.6  | 4099.2  | 4094.4  | 4063.2  | 4032.0  | 4017.6  | 3988.8  | 3964.8  | 3936.0  |
| 7.5°  | 4324.8  | 4291.2  | 4260.0  | 4238.4  | 4226.4  | 4183.2  | 4152.0  | 4116.0  | 4082.4  | 4051.2  | 4017.6  |
| 10°   | 4502.4  | 4468.8  | 4435.2  | 4420.8  | 4399.2  | 4358.4  | 4332.0  | 4286.4  | 4252.8  | 4214.4  | 4168.8  |
| 12.5° | 4687.2  | 4663.2  | 4639.2  | 4620.0  | 4610.4  | 4591.2  | 4552.8  | 4514.4  | 4468.8  | 4430.4  | 4377.6  |
| 15°   | 4850.4  | 4833.6  | 4824.0  | 4819.2  | 4819.2  | 4807.2  | 4771.2  | 4735.2  | 4687.2  | 4644.0  | 4586.4  |
| 17.5° | 4965.6  | 4958.4  | 4965.6  | 4972.8  | 4982.4  | 4972.8  | 4965.6  | 4924.8  | 4893.6  | 4840.8  | 4783.2  |
| 20°   | 5032.8  | 5047.2  | 5083.2  | 5107.2  | 5128.8  | 5145.6  | 5152.8  | 5119.2  | 5078.4  | 5040.0  | 5001.6  |
| 22.5° | 5104.8  | 5145.6  | 5208.0  | 5244.0  | 5280.0  | 5340.0  | 5354.4  | 5330.4  | 5299.2  | 5275.2  | 5234.4  |
| 25°   | 5224.8  | 5284.8  | 5392.8  | 5450.4  | 5500.8  | 5589.6  | 5601.6  | 5606.4  | 5599.2  | 5580.0  | 5529.6  |
| 27.5° | 5412.0  | 5529.6  | 5673.6  | 5748.0  | 5803.2  | 5918.4  | 5964.0  | 5964.0  | 5944.8  | 5966.4  | 5966.4  |
| 30°   | 5738.4  | 5894.4  | 6081.6  | 6124.8  | 6211.2  | 6312.0  | 6386.4  | 6396.0  | 6398.4  | 6444.0  | 6511.2  |
| 32.5° | 6240.0  | 6388.8  | 6597.6  | 6645.6  | 6720.0  | 6816.0  | 6900.0  | 6890.4  | 6912.0  | 7010.4  | 7099.2  |
| 35°   | 6969.6  | 7120.8  | 7257.6  | 7322.4  | 7356.0  | 7442.4  | 7473.6  | 7526.4  | 7591.2  | 7713.6  | 7701.6  |
| 37.5° | 8049.6  | 8184.0  | 8203.2  | 8244.0  | 8203.2  | 8220.0  | 8244.0  | 8306.4  | 8479.2  | 8589.6  | 8412.0  |
| 40°   | 9350.4  | 9573.6  | 9552.0  | 9504.0  | 9412.8  | 9290.4  | 9333.6  | 9429.6  | 9616.8  | 9520.8  | 9043.2  |
| 42.5° | 10576.8 | 10807.2 | 10764.0 | 10708.8 | 10507.2 | 10461.6 | 10456.8 | 10536.0 | 10636.8 | 10363.2 | 9537.6  |
| 45°   | 11784.0 | 12019.2 | 11944.8 | 11913.6 | 11779.2 | 11680.8 | 11762.4 | 11767.2 | 11740.8 | 11155.2 | 9969.6  |
| 47.5° | 13029.6 | 13245.6 | 13197.6 | 13224.0 | 13084.8 | 13020.0 | 13027.2 | 12993.6 | 12746.4 | 11827.2 | 10305.6 |
| 50°   | 14035.2 | 14325.6 | 14354.4 | 14294.4 | 14220.0 | 14121.6 | 14373.6 | 14282.4 | 13732.8 | 12480.0 | 10629.6 |
| 52.5° | 14817.6 | 15208.8 | 15357.6 | 15319.2 | 15259.2 | 15271.2 | 15744.0 | 15847.2 | 14937.6 | 13303.2 | 10987.2 |
| 55°   | 15744.0 | 16360.8 | 16603.2 | 16747.2 | 16684.8 | 16924.8 | 18007.2 | 18060.0 | 16612.8 | 14378.4 | 11452.8 |
| 57.5° | 17080.8 | 17964.0 | 18729.6 | 18933.6 | 19130.4 | 19910.4 | 21667.2 | 21132.0 | 18787.2 | 16005.6 | 12043.2 |
| 60°   | 19113.6 | 21048.0 | 22291.2 | 22944.0 | 23404.8 | 24494.4 | 26164.8 | 24808.8 | 21496.8 | 17942.4 | 12784.8 |
| 62.5° | 21960.0 | 24787.2 | 26865.6 | 27520.8 | 27710.4 | 28336.8 | 29546.4 | 26952.0 | 22972.8 | 18811.2 | 12849.6 |
| 65°   | 24079.2 | 27470.4 | 29959.2 | 30295.2 | 30069.6 | 30081.6 | 30398.4 | 26839.2 | 22423.2 | 18052.8 | 11736.0 |
| 67°   | 23940.0 | 27736.8 | 30285.6 | 30727.2 | 30415.2 | 30004.8 | 29510.4 | 25310.4 | 20656.8 | 16464.0 | 10276.8 |
| 67.5° | 23726.4 | 27480.0 | 30144.0 | 30609.6 | 30324.0 | 29856.0 | 29133.6 | 24717.6 | 20107.2 | 15969.6 | 9979.2  |
| 70°   | 20510.4 | 24237.6 | 27825.6 | 28480.8 | 28600.8 | 28173.6 | 26145.6 | 20841.6 | 16324.8 | 12991.2 | 7749.6  |
| 72.5° | 15964.8 | 19284.0 | 22833.6 | 23402.4 | 23863.2 | 22632.0 | 19029.6 | 14395.2 | 11899.2 | 9362.4  | 5611.2  |
| 75°   | 10540.8 | 13917.6 | 15708.0 | 15792.0 | 15204.0 | 12924.0 | 9297.6  | 7209.6  | 6636.0  | 5503.2  | 3472.8  |
| 77.5° | 5640.0  | 8184.0  | 8234.4  | 7624.8  | 7346.4  | 5476.8  | 2222.4  | 1226.4  | 1365.6  | 1550.4  | 1382.4  |
| 80°   | 4207.2  | 5212.8  | 6040.8  | 6494.4  | 6628.8  | 4696.8  | 1149.6  | 650.4   | 568.8   | 518.4   | 511.2   |
| 82.5° | 3794.4  | 5035.2  | 5644.8  | 5892.0  | 5829.6  | 3864.0  | 645.6   | 436.8   | 362.4   | 393.6   | 448.8   |
| 85°   | 1488.0  | 2688.0  | 3535.2  | 3422.4  | 2875.2  | 1440.0  | 352.8   | 235.2   | 235.2   | 340.8   | 441.6   |
| 87.5° | 304.8   | 552.0   | 748.8   | 715.2   | 643.2   | 278.4   | 172.8   | 141.6   | 144.0   | 276.0   | 417.6   |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 |
| 2.5°  | 3897.6 | 3883.2 | 3873.6 | 3864.0 | 3854.4 | 3849.6 | 3842.4 | 3842.4 | 3828.0 | 3823.2 | 3818.4 |
| 5°    | 3914.4 | 3890.4 | 3873.6 | 3852.0 | 3835.2 | 3820.8 | 3801.6 | 3796.8 | 3780.0 | 3768.0 | 3763.2 |
| 7.5°  | 3986.4 | 3950.4 | 3914.4 | 3888.0 | 3864.0 | 3832.8 | 3811.2 | 3792.0 | 3775.2 | 3763.2 | 3748.8 |
| 10°   | 4123.2 | 4084.8 | 4034.4 | 3986.4 | 3955.2 | 3907.2 | 3873.6 | 3840.0 | 3820.8 | 3806.4 | 3787.2 |
| 12.5° | 4324.8 | 4269.6 | 4209.6 | 4152.0 | 4099.2 | 4036.8 | 4003.2 | 3962.4 | 3938.4 | 3926.4 | 3912.0 |
| 15°   | 4531.2 | 4471.2 | 4396.8 | 4341.6 | 4281.6 | 4233.6 | 4202.4 | 4166.4 | 4147.2 | 4132.8 | 4123.2 |
| 17.5° | 4742.4 | 4672.8 | 4620.0 | 4564.8 | 4536.0 | 4500.0 | 4459.2 | 4413.6 | 4358.4 | 4324.8 | 4279.2 |
| 20°   | 4958.4 | 4905.6 | 4874.4 | 4843.2 | 4809.6 | 4759.2 | 4677.6 | 4584.0 | 4480.8 | 4382.4 | 4288.8 |
| 22.5° | 5210.4 | 5179.2 | 5174.4 | 5145.6 | 5076.0 | 4956.0 | 4804.8 | 4629.6 | 4454.4 | 4291.2 | 4164.0 |
| 25°   | 5565.6 | 5565.6 | 5541.6 | 5424.0 | 5260.8 | 5044.8 | 4790.4 | 4538.4 | 4305.6 | 4082.4 | 3914.4 |
| 27.5° | 6012.0 | 5995.2 | 5877.6 | 5635.2 | 5342.4 | 5006.4 | 4665.6 | 4346.4 | 4048.8 | 3804.0 | 3588.0 |
| 30°   | 6504.0 | 6386.4 | 6134.4 | 5752.8 | 5313.6 | 4881.6 | 4464.0 | 4094.4 | 3744.0 | 3444.0 | 3189.6 |
| 32.5° | 7015.2 | 6729.6 | 6276.0 | 5752.8 | 5212.8 | 4694.4 | 4212.0 | 3758.4 | 3357.6 | 3021.6 | 2719.2 |
| 35°   | 7478.4 | 6957.6 | 6309.6 | 5659.2 | 5016.0 | 4418.4 | 3859.2 | 3345.6 | 2865.6 | 2503.2 | 2172.0 |
| 37.5° | 7898.4 | 7108.8 | 6273.6 | 5476.8 | 4730.4 | 4029.6 | 3374.4 | 2808.0 | 2265.6 | 1915.2 | 1632.0 |
| 40°   | 8172.0 | 7140.0 | 6124.8 | 5191.2 | 4322.4 | 3504.0 | 2779.2 | 2145.6 | 1716.0 | 1396.8 | 1207.2 |
| 42.5° | 8342.4 | 7080.0 | 5884.8 | 4800.0 | 3772.8 | 2844.0 | 2085.6 | 1538.4 | 1219.2 | 1041.6 | 969.6  |
| 45°   | 8438.4 | 6924.0 | 5529.6 | 4264.8 | 3108.0 | 2162.4 | 1480.8 | 1111.2 | 938.4  | 876.0  | 852.0  |
| 47.5° | 8433.6 | 6672.0 | 5085.6 | 3645.6 | 2373.6 | 1507.2 | 1048.8 | 866.4  | 818.4  | 799.2  | 794.4  |
| 50°   | 8383.2 | 6362.4 | 4564.8 | 2973.6 | 1713.6 | 1051.2 | 830.4  | 777.6  | 765.6  | 753.6  | 748.8  |
| 52.5° | 8313.6 | 5978.4 | 3988.8 | 2318.4 | 1216.8 | 840.0  | 753.6  | 739.2  | 729.6  | 717.6  | 712.8  |
| 55°   | 8184.0 | 5505.6 | 3364.8 | 1744.8 | 952.8  | 758.4  | 727.2  | 722.4  | 710.4  | 693.6  | 684.0  |
| 57.5° | 8025.6 | 5025.6 | 2767.2 | 1363.2 | 842.4  | 739.2  | 722.4  | 715.2  | 698.4  | 679.2  | 660.0  |
| 60°   | 7968.0 | 4629.6 | 2299.2 | 1149.6 | 816.0  | 746.4  | 734.4  | 724.8  | 700.8  | 672.0  | 650.4  |
| 62.5° | 7608.0 | 4183.2 | 1963.2 | 1065.6 | 830.4  | 777.6  | 772.8  | 758.4  | 722.4  | 688.8  | 655.2  |
| 65°   | 6676.8 | 3537.6 | 1663.2 | 1008.0 | 859.2  | 830.4  | 835.2  | 813.6  | 777.6  | 732.0  | 672.0  |
| 67°   | 5647.2 | 2884.8 | 1384.8 | 952.8  | 880.8  | 885.6  | 902.4  | 885.6  | 840.0  | 775.2  | 693.6  |
| 67.5° | 5373.6 | 2719.2 | 1315.2 | 936.0  | 885.6  | 900.0  | 919.2  | 907.2  | 861.6  | 787.2  | 703.2  |
| 70°   | 3993.6 | 1915.2 | 981.6  | 847.2  | 885.6  | 943.2  | 986.4  | 998.4  | 948.0  | 844.8  | 722.4  |
| 72.5° | 2812.8 | 1236.0 | 753.6  | 734.4  | 804.0  | 880.8  | 962.4  | 1003.2 | 945.6  | 832.8  | 696.0  |
| 75°   | 1689.6 | 772.8  | 612.0  | 624.0  | 676.8  | 756.0  | 820.8  | 837.6  | 765.6  | 693.6  | 602.4  |
| 77.5° | 782.4  | 513.6  | 480.0  | 496.8  | 547.2  | 583.2  | 583.2  | 549.6  | 494.4  | 451.2  | 432.0  |
| 80°   | 460.8  | 420.0  | 417.6  | 448.8  | 482.4  | 456.0  | 415.2  | 369.6  | 340.8  | 326.4  | 319.2  |
| 82.5° | 432.0  | 448.8  | 477.6  | 484.8  | 458.4  | 393.6  | 343.2  | 297.6  | 283.2  | 276.0  | 268.8  |
| 85°   | 508.8  | 544.8  | 496.8  | 458.4  | 405.6  | 331.2  | 268.8  | 230.4  | 223.2  | 216.0  | 206.4  |
| 87.5° | 470.4  | 448.8  | 391.2  | 336.0  | 278.4  | 201.6  | 146.4  | 132.0  | 141.6  | 139.2  | 134.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P158520

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**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3924.0 | 3924.0 | 3924.0 | 3924.0 | 3924.0 |
| 2.5°  | 3820.8 | 3820.8 | 3811.2 | 3806.4 | 3818.4 |
| 5°    | 3753.6 | 3756.0 | 3748.8 | 3746.4 | 3748.8 |
| 7.5°  | 3739.2 | 3736.8 | 3732.0 | 3727.2 | 3732.0 |
| 10°   | 3782.4 | 3780.0 | 3772.8 | 3777.6 | 3770.4 |
| 12.5° | 3912.0 | 3926.4 | 3924.0 | 3928.8 | 3938.4 |
| 15°   | 4123.2 | 4120.8 | 4113.6 | 4118.4 | 4125.6 |
| 17.5° | 4243.2 | 4224.0 | 4207.2 | 4200.0 | 4200.0 |
| 20°   | 4214.4 | 4159.2 | 4130.4 | 4113.6 | 4108.8 |
| 22.5° | 4044.0 | 3964.8 | 3904.8 | 3890.4 | 3878.4 |
| 25°   | 3765.6 | 3667.2 | 3590.4 | 3573.6 | 3542.4 |
| 27.5° | 3441.6 | 3309.6 | 3218.4 | 3199.2 | 3182.4 |
| 30°   | 3016.8 | 2865.6 | 2760.0 | 2692.8 | 2714.4 |
| 32.5° | 2498.4 | 2354.4 | 2232.0 | 2124.0 | 2107.2 |
| 35°   | 1929.6 | 1771.2 | 1663.2 | 1615.2 | 1584.0 |
| 37.5° | 1440.0 | 1308.0 | 1236.0 | 1190.4 | 1192.8 |
| 40°   | 1101.6 | 1032.0 | 993.6  | 962.4  | 964.8  |
| 42.5° | 919.2  | 888.0  | 878.4  | 864.0  | 856.8  |
| 45°   | 832.8  | 823.2  | 825.6  | 811.2  | 806.4  |
| 47.5° | 784.8  | 777.6  | 780.0  | 770.4  | 768.0  |
| 50°   | 746.4  | 741.6  | 744.0  | 736.8  | 734.4  |
| 52.5° | 708.0  | 710.4  | 708.0  | 703.2  | 703.2  |
| 55°   | 674.4  | 672.0  | 676.8  | 669.6  | 669.6  |
| 57.5° | 648.0  | 645.6  | 645.6  | 643.2  | 643.2  |
| 60°   | 633.6  | 624.0  | 621.6  | 621.6  | 624.0  |
| 62.5° | 626.4  | 609.6  | 607.2  | 607.2  | 609.6  |
| 65°   | 628.8  | 602.4  | 592.8  | 590.4  | 588.0  |
| 67°   | 631.2  | 592.8  | 573.6  | 564.0  | 561.6  |
| 67.5° | 633.6  | 588.0  | 566.4  | 556.8  | 552.0  |
| 70°   | 619.2  | 554.4  | 523.2  | 506.4  | 501.6  |
| 72.5° | 583.2  | 513.6  | 475.2  | 453.6  | 448.8  |
| 75°   | 518.4  | 465.6  | 432.0  | 408.0  | 398.4  |
| 77.5° | 400.8  | 376.8  | 364.8  | 350.4  | 345.6  |
| 80°   | 312.0  | 300.0  | 295.2  | 285.6  | 283.2  |
| 82.5° | 259.2  | 247.2  | 240.0  | 228.0  | 220.8  |
| 85°   | 201.6  | 187.2  | 182.4  | 172.8  | 168.0  |
| 87.5° | 132.0  | 124.8  | 122.4  | 110.4  | 105.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)