

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: P158409

Luminaire Tested: **VTS-E12-LED-E1-SL3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158409  
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: MCGRAW-EDISON  
Catalog Number: VTS-E12-LED-E1-SL3-7030  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (252) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

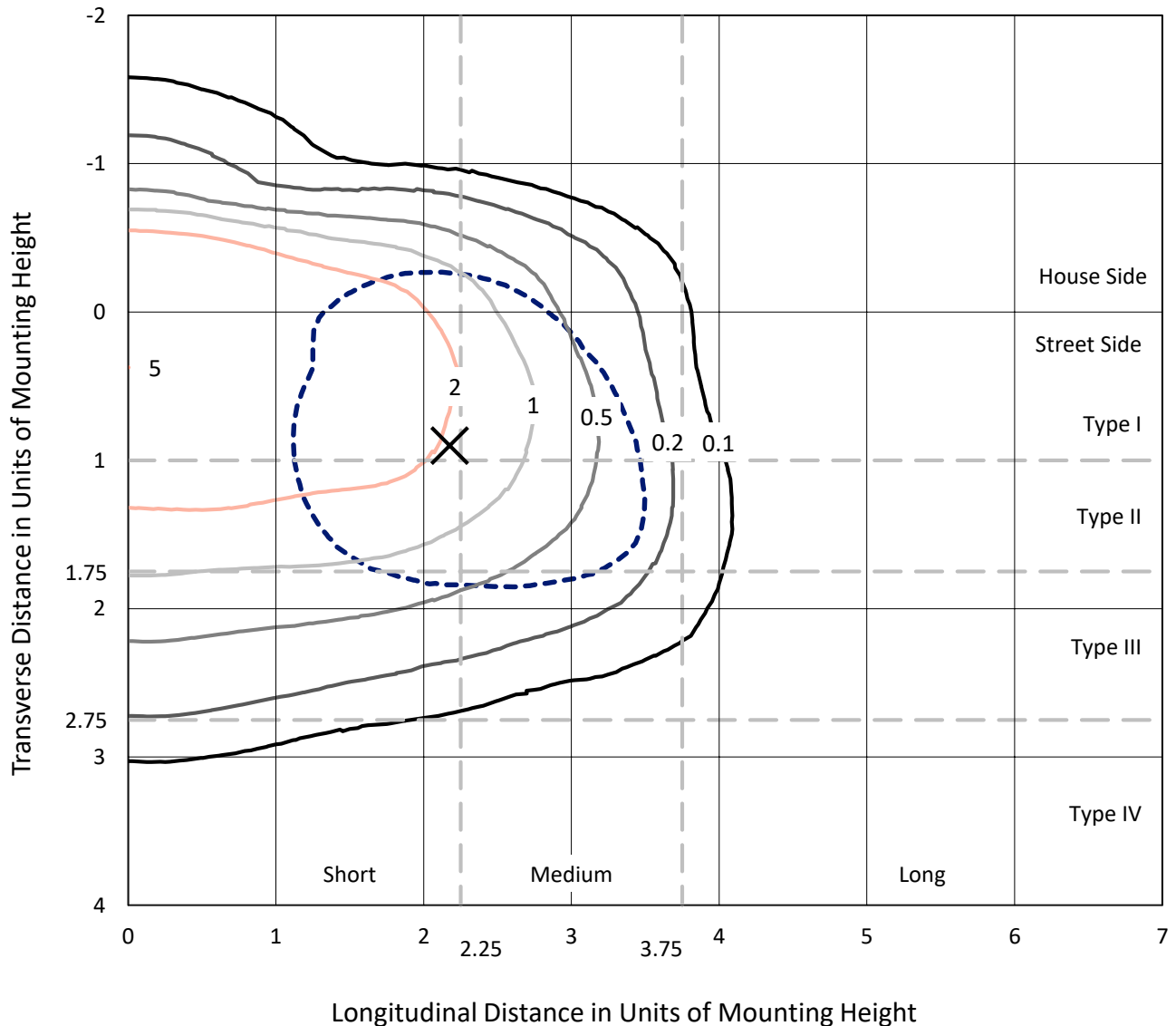
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33065.5 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

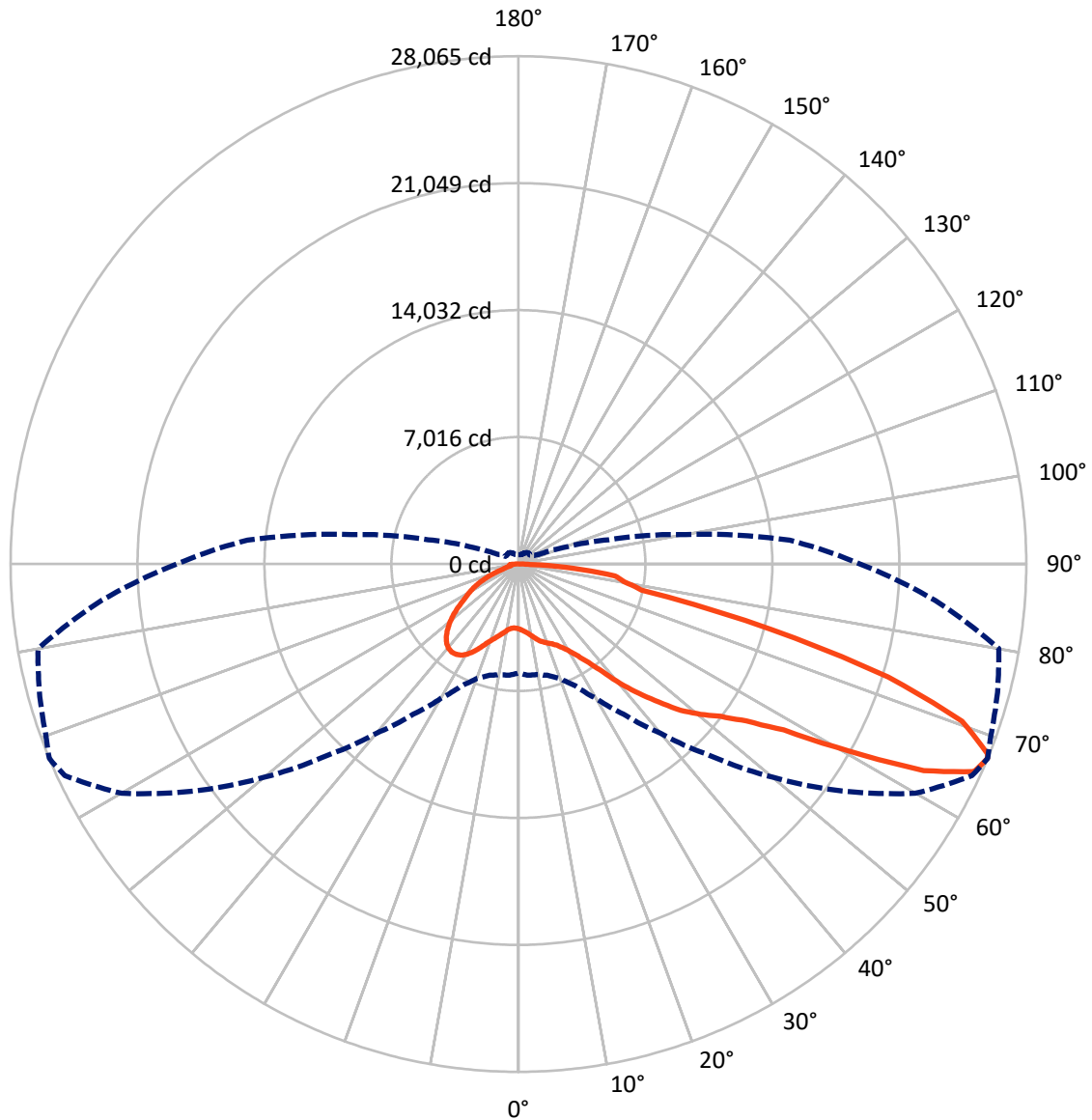


Based on 30 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - Semi-Cutoff

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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    | 7932.5   | 0.0    | 7932.5  |
|                    | % Fixture | 24.0     | 0.0    | 24.0    |
| <b>Street Side</b> | Lumens    | 25133.0  | 0.0    | 25133.0 |
|                    | % Fixture | 76.0     | 0.0    | 76.0    |
| <b>Total</b>       | Lumens    | 33065.5  | 0.0    | 33065.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 356.2   | 1.1       |
| 10°-20°   | 1213.6  | 3.7       |
| 20°-30°   | 2166.6  | 6.6       |
| 30°-40°   | 3175.3  | 9.6       |
| 40°-50°   | 4906.4  | 14.8      |
| 50°-60°   | 7144.5  | 21.6      |
| 60°-70°   | 9306.9  | 28.1      |
| 70°-80°   | 4166.1  | 12.6      |
| 80°-90°   | 629.9   | 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°    | 33065.5 | 100.0     |
| 0°-180°   | 33065.5 | 100.0     |



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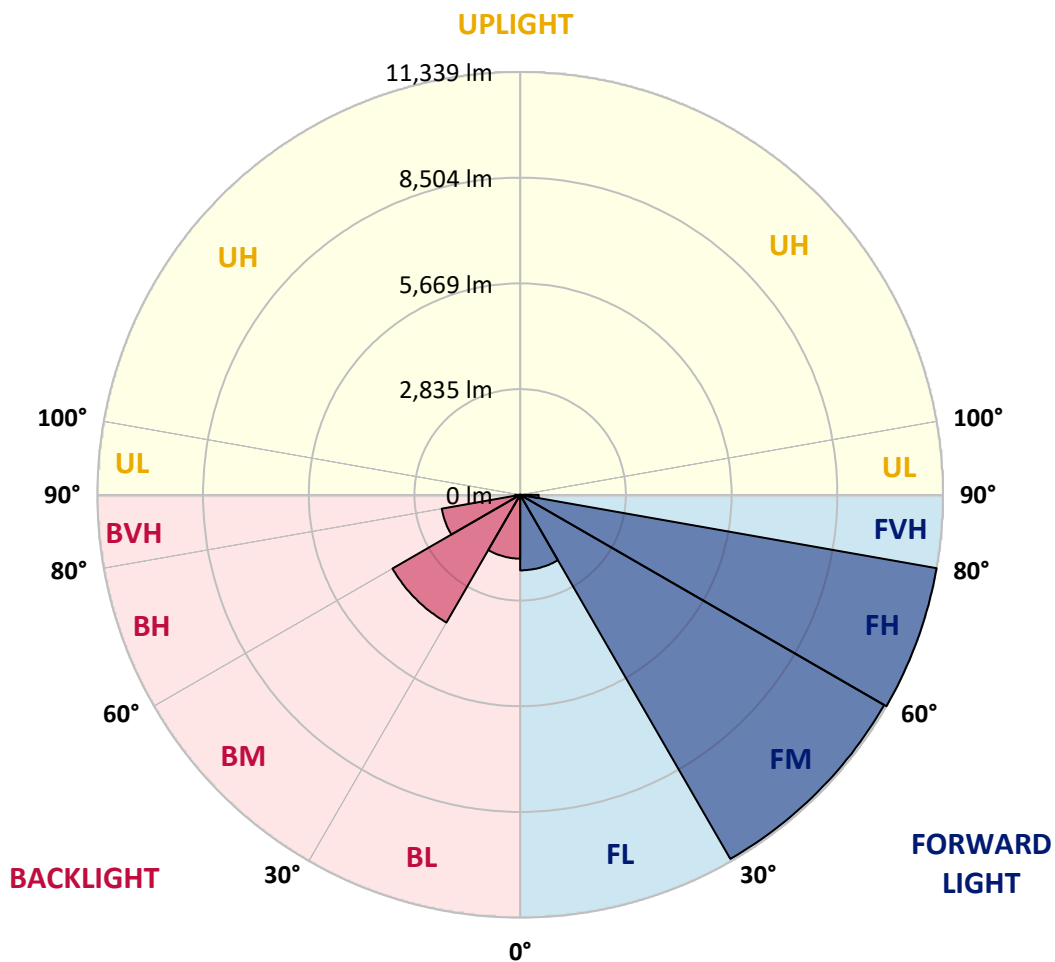
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2025.9  | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 11273.6 | 34.1      |                         |      |          |
| FH   | (60°-80°)   | 11338.8 | 34.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 494.7   | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1710.5  | 5.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3952.6  | 12.0      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2134.1  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 135.3   | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  |
| 2.5°  | 3724.3 | 3733.0 | 3735.2 | 3733.0 | 3735.2 | 3726.5  | 3724.3  | 3711.1  | 3717.7  | 3700.2  | 3695.8  |
| 5°    | 3925.9 | 3932.5 | 3936.9 | 3919.4 | 3923.8 | 3915.0  | 3904.0  | 3890.9  | 3873.3  | 3849.2  | 3833.9  |
| 7.5°  | 4123.2 | 4134.2 | 4132.0 | 4125.4 | 4110.1 | 4101.3  | 4079.4  | 4059.7  | 4029.0  | 4000.5  | 3980.7  |
| 10°   | 4388.5 | 4386.3 | 4386.3 | 4349.0 | 4327.1 | 4307.4  | 4267.9  | 4237.2  | 4206.5  | 4164.9  | 4143.0  |
| 12.5° | 4695.4 | 4680.0 | 4673.4 | 4647.1 | 4601.1 | 4566.0  | 4509.0  | 4449.8  | 4395.0  | 4351.2  | 4316.1  |
| 15°   | 4991.3 | 4991.3 | 4973.7 | 4932.1 | 4888.3 | 4842.2  | 4761.1  | 4675.6  | 4585.7  | 4515.6  | 4480.5  |
| 17.5° | 5260.9 | 5236.8 | 5221.4 | 5166.6 | 5120.6 | 5046.1  | 4956.2  | 4864.1  | 4752.3  | 4653.7  | 4585.7  |
| 20°   | 5458.2 | 5438.5 | 5405.6 | 5337.6 | 5258.7 | 5171.0  | 5065.8  | 4958.4  | 4837.8  | 4730.4  | 4653.7  |
| 22.5° | 5572.2 | 5548.1 | 5497.6 | 5407.8 | 5300.4 | 5177.6  | 5054.8  | 4954.0  | 4844.4  | 4763.3  | 4699.7  |
| 25°   | 5631.4 | 5607.2 | 5539.3 | 5420.9 | 5276.2 | 5114.0  | 4973.7  | 4875.1  | 4811.5  | 4791.8  | 4783.0  |
| 27.5° | 5629.2 | 5609.4 | 5537.1 | 5401.2 | 5214.9 | 5028.5  | 4877.3  | 4794.0  | 4787.4  | 4864.1  | 4921.1  |
| 30°   | 5572.2 | 5559.0 | 5493.3 | 5357.3 | 5162.3 | 4967.2  | 4826.9  | 4783.0  | 4851.0  | 5013.2  | 5153.5  |
| 32.5° | 5515.2 | 5508.6 | 5462.6 | 5339.8 | 5173.2 | 5008.8  | 4912.4  | 4916.7  | 5057.0  | 5306.9  | 5532.7  |
| 35°   | 5521.8 | 5530.5 | 5523.9 | 5458.2 | 5353.0 | 5267.5  | 5221.4  | 5317.9  | 5537.1  | 5839.6  | 6142.1  |
| 37.5° | 5578.7 | 5611.6 | 5653.3 | 5659.8 | 5662.0 | 5648.9  | 5745.3  | 5949.2  | 6269.2  | 6663.8  | 7137.3  |
| 40°   | 5703.7 | 5741.0 | 5861.5 | 5966.7 | 6102.6 | 6264.9  | 6459.9  | 6742.7  | 7139.5  | 7626.1  | 8207.0  |
| 42.5° | 6091.7 | 6144.3 | 6293.3 | 6488.4 | 6738.3 | 6992.6  | 7284.2  | 7670.0  | 8156.6  | 8669.5  | 9278.9  |
| 45°   | 6598.0 | 6707.6 | 6872.0 | 7089.1 | 7463.9 | 7821.2  | 8198.2  | 8630.1  | 9147.4  | 9789.7  | 10403.4 |
| 47.5° | 7229.4 | 7339.0 | 7577.9 | 7810.2 | 8253.0 | 8698.0  | 9110.1  | 9561.7  | 10122.8 | 10780.5 | 11460.0 |
| 50°   | 7781.7 | 7906.7 | 8119.3 | 8432.8 | 8945.7 | 9491.5  | 9947.5  | 10436.3 | 10907.6 | 11600.3 | 12286.4 |
| 52.5° | 8215.8 | 8305.6 | 8509.5 | 8796.7 | 9368.8 | 9967.2  | 10543.7 | 11087.3 | 11646.3 | 12339.0 | 12974.7 |
| 55°   | 8270.6 | 8353.9 | 8553.3 | 8882.1 | 9463.0 | 10127.2 | 10791.4 | 11435.9 | 12227.2 | 12983.5 | 13825.2 |
| 57.5° | 8033.8 | 8101.8 | 8303.5 | 8597.2 | 9162.7 | 9919.0  | 10758.5 | 11584.9 | 12597.7 | 13619.1 | 14647.2 |
| 60°   | 7698.4 | 7766.4 | 7924.2 | 8158.8 | 8669.5 | 9485.0  | 10464.8 | 11595.9 | 12941.8 | 14417.1 | 15929.6 |
| 62.5° | 7330.2 | 7389.4 | 7516.5 | 7683.1 | 8132.5 | 8884.3  | 10006.7 | 11523.6 | 13222.4 | 15210.6 | 17542.9 |
| 65°   | 6709.8 | 6852.3 | 6907.1 | 7078.1 | 7527.5 | 8237.7  | 9379.7  | 11034.7 | 13108.4 | 15563.5 | 18555.6 |
| 67°   | 6023.7 | 6168.4 | 6196.9 | 6370.1 | 6729.6 | 7411.3  | 8573.1  | 10129.4 | 12205.3 | 14954.1 | 18332.0 |
| 67.5° | 5804.5 | 5927.3 | 5971.1 | 6144.3 | 6484.1 | 7126.3  | 8228.9  | 9802.8  | 11929.1 | 14620.9 | 18062.4 |
| 70°   | 4267.9 | 4403.8 | 4452.0 | 4524.4 | 4767.7 | 5302.5  | 6032.5  | 7398.1  | 9511.3  | 11931.3 | 15236.9 |
| 72.5° | 2284.1 | 2393.7 | 2439.7 | 2547.2 | 2672.1 | 2963.6  | 3522.6  | 4502.5  | 5837.4  | 7983.4  | 10839.6 |
| 75°   | 1545.4 | 1589.2 | 1622.1 | 1696.6 | 1826.0 | 2058.3  | 2303.8  | 2648.0  | 3454.7  | 4504.6  | 6168.4  |
| 77.5° | 881.2  | 900.9  | 905.3  | 918.5  | 1021.5 | 1242.9  | 1646.2  | 2229.3  | 2858.4  | 3263.9  | 3945.7  |
| 80°   | 381.4  | 420.9  | 451.6  | 431.8  | 425.3  | 471.3   | 589.7   | 879.0   | 1722.9  | 2735.7  | 3246.4  |
| 82.5° | 206.1  | 223.6  | 249.9  | 252.1  | 265.2  | 280.6   | 304.7   | 361.7   | 508.6   | 1025.9  | 2238.1  |
| 85°   | 107.4  | 111.8  | 149.1  | 171.0  | 181.9  | 190.7   | 195.1   | 217.0   | 249.9   | 317.8   | 556.8   |
| 87.5° | 15.3   | 21.9   | 26.3   | 35.1   | 39.5   | 41.6    | 48.2    | 61.4    | 72.3    | 87.7    | 149.1   |
| 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°     | 67.5°   | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  | 3584.0  |
| 2.5°  | 3676.1  | 3671.7  | 3658.5  | 3649.7  | 3641.0  | 3632.2  | 3621.3  | 3612.5  | 3597.1  | 3586.2  | 3573.0  |
| 5°    | 3812.0  | 3785.7  | 3768.1  | 3744.0  | 3739.6  | 3711.1  | 3682.6  | 3669.5  | 3643.2  | 3621.3  | 3594.9  |
| 7.5°  | 3950.1  | 3919.4  | 3890.9  | 3871.1  | 3860.2  | 3820.7  | 3792.2  | 3759.4  | 3728.7  | 3700.2  | 3669.5  |
| 10°   | 4112.3  | 4081.6  | 4050.9  | 4037.7  | 4018.0  | 3980.7  | 3956.6  | 3915.0  | 3884.3  | 3849.2  | 3807.6  |
| 12.5° | 4281.1  | 4259.1  | 4237.2  | 4219.7  | 4210.9  | 4193.4  | 4158.3  | 4123.2  | 4081.6  | 4046.5  | 3998.3  |
| 15°   | 4430.1  | 4414.8  | 4406.0  | 4401.6  | 4401.6  | 4390.7  | 4357.8  | 4324.9  | 4281.1  | 4241.6  | 4189.0  |
| 17.5° | 4535.3  | 4528.8  | 4535.3  | 4541.9  | 4550.7  | 4541.9  | 4535.3  | 4498.1  | 4469.6  | 4421.3  | 4368.7  |
| 20°   | 4596.7  | 4609.9  | 4642.7  | 4664.7  | 4684.4  | 4699.7  | 4706.3  | 4675.6  | 4638.4  | 4603.3  | 4568.2  |
| 22.5° | 4662.5  | 4699.7  | 4756.7  | 4789.6  | 4822.5  | 4877.3  | 4890.4  | 4868.5  | 4840.0  | 4818.1  | 4780.8  |
| 25°   | 4772.1  | 4826.9  | 4925.5  | 4978.1  | 5024.2  | 5105.3  | 5116.2  | 5120.6  | 5114.0  | 5096.5  | 5050.5  |
| 27.5° | 4943.1  | 5050.5  | 5182.0  | 5249.9  | 5300.4  | 5405.6  | 5447.2  | 5447.2  | 5429.7  | 5449.4  | 5449.4  |
| 30°   | 5241.2  | 5383.7  | 5554.6  | 5594.1  | 5673.0  | 5765.1  | 5833.0  | 5841.8  | 5844.0  | 5885.6  | 5947.0  |
| 32.5° | 5699.3  | 5835.2  | 6025.9  | 6069.8  | 6137.7  | 6225.4  | 6302.1  | 6293.3  | 6313.1  | 6403.0  | 6484.1  |
| 35°   | 6365.7  | 6503.8  | 6628.7  | 6687.9  | 6718.6  | 6797.5  | 6826.0  | 6874.2  | 6933.4  | 7045.2  | 7034.3  |
| 37.5° | 7352.1  | 7474.9  | 7492.4  | 7529.7  | 7492.4  | 7507.7  | 7529.7  | 7586.7  | 7744.5  | 7845.3  | 7683.1  |
| 40°   | 8540.2  | 8744.1  | 8724.3  | 8680.5  | 8597.2  | 8485.4  | 8524.8  | 8612.5  | 8783.5  | 8695.8  | 8259.6  |
| 42.5° | 9660.3  | 9870.8  | 9831.3  | 9780.9  | 9596.8  | 9555.1  | 9550.7  | 9623.1  | 9715.1  | 9465.2  | 8711.2  |
| 45°   | 10762.9 | 10977.7 | 10909.8 | 10881.3 | 10758.5 | 10668.7 | 10743.2 | 10747.6 | 10723.5 | 10188.6 | 9105.7  |
| 47.5° | 11900.6 | 12097.9 | 12054.0 | 12078.1 | 11951.0 | 11891.8 | 11898.4 | 11867.7 | 11641.9 | 10802.4 | 9412.6  |
| 50°   | 12819.1 | 13084.3 | 13110.6 | 13055.8 | 12987.8 | 12898.0 | 13128.1 | 13044.8 | 12542.9 | 11398.6 | 9708.5  |
| 52.5° | 13533.7 | 13891.0 | 14026.9 | 13991.8 | 13937.0 | 13948.0 | 14379.8 | 14474.0 | 13643.3 | 12150.5 | 10035.2 |
| 55°   | 14379.8 | 14943.1 | 15164.5 | 15296.1 | 15239.1 | 15458.3 | 16446.9 | 16495.1 | 15173.3 | 13132.5 | 10460.4 |
| 57.5° | 15600.8 | 16407.4 | 17106.7 | 17293.0 | 17472.8 | 18185.2 | 19789.7 | 19300.9 | 17159.3 | 14618.7 | 10999.7 |
| 60°   | 17457.4 | 19224.2 | 20359.7 | 20955.9 | 21376.8 | 22372.0 | 23897.6 | 22659.1 | 19634.1 | 16387.7 | 11677.0 |
| 62.5° | 20057.2 | 22639.4 | 24537.7 | 25136.1 | 25309.3 | 25881.4 | 26986.2 | 24616.6 | 20982.2 | 17181.2 | 11736.2 |
| 65°   | 21992.7 | 25090.1 | 27363.2 | 27670.1 | 27464.1 | 27475.0 | 27764.4 | 24513.6 | 20480.2 | 16488.5 | 10719.1 |
| 67°   | 21865.6 | 25333.4 | 27661.4 | 28064.7 | 27779.7 | 27404.9 | 26953.3 | 23117.3 | 18866.9 | 15037.4 | 9386.3  |
| 67.5° | 21670.5 | 25098.9 | 27532.0 | 27957.3 | 27696.4 | 27269.0 | 26609.2 | 22575.8 | 18364.9 | 14585.8 | 9114.5  |
| 70°   | 18733.2 | 22137.4 | 25414.5 | 26012.9 | 26122.6 | 25732.4 | 23880.1 | 19035.7 | 14910.3 | 11865.5 | 7078.1  |
| 72.5° | 14581.5 | 17613.0 | 20855.1 | 21374.6 | 21795.5 | 20670.9 | 17380.7 | 13147.9 | 10868.1 | 8551.2  | 5125.0  |
| 75°   | 9627.4  | 12711.6 | 14346.9 | 14423.6 | 13886.6 | 11804.1 | 8492.0  | 6584.9  | 6061.0  | 5026.3  | 3171.9  |
| 77.5° | 5151.3  | 7474.9  | 7520.9  | 6964.1  | 6709.8  | 5002.2  | 2029.8  | 1120.1  | 1247.3  | 1416.1  | 1262.6  |
| 80°   | 3842.6  | 4761.1  | 5517.4  | 5931.7  | 6054.4  | 4289.8  | 1050.0  | 594.0   | 519.5   | 473.5   | 466.9   |
| 82.5° | 3465.6  | 4598.9  | 5155.7  | 5381.5  | 5324.5  | 3529.2  | 589.7   | 399.0   | 331.0   | 359.5   | 409.9   |
| 85°   | 1359.1  | 2455.1  | 3228.9  | 3125.9  | 2626.1  | 1315.2  | 322.2   | 214.8   | 214.8   | 311.3   | 403.3   |
| 87.5° | 278.4   | 504.2   | 683.9   | 653.2   | 587.5   | 254.3   | 157.8   | 129.3   | 131.5   | 252.1   | 381.4   |
| 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°    | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 |
| 2.5°  | 3559.9 | 3546.7 | 3538.0 | 3529.2 | 3520.4 | 3516.0 | 3509.5 | 3509.5 | 3496.3 | 3491.9 | 3487.5 |
| 5°    | 3575.2 | 3553.3 | 3538.0 | 3518.2 | 3502.9 | 3489.7 | 3472.2 | 3467.8 | 3452.5 | 3441.5 | 3437.1 |
| 7.5°  | 3641.0 | 3608.1 | 3575.2 | 3551.1 | 3529.2 | 3500.7 | 3481.0 | 3463.4 | 3448.1 | 3437.1 | 3424.0 |
| 10°   | 3765.9 | 3730.9 | 3684.8 | 3641.0 | 3612.5 | 3568.6 | 3538.0 | 3507.3 | 3489.7 | 3476.6 | 3459.0 |
| 12.5° | 3950.1 | 3899.6 | 3844.8 | 3792.2 | 3744.0 | 3687.0 | 3656.3 | 3619.1 | 3597.1 | 3586.2 | 3573.0 |
| 15°   | 4138.6 | 4083.8 | 4015.8 | 3965.4 | 3910.6 | 3866.8 | 3838.3 | 3805.4 | 3787.8 | 3774.7 | 3765.9 |
| 17.5° | 4331.5 | 4267.9 | 4219.7 | 4169.3 | 4143.0 | 4110.1 | 4072.8 | 4031.2 | 3980.7 | 3950.1 | 3908.4 |
| 20°   | 4528.8 | 4480.5 | 4452.0 | 4423.5 | 4392.8 | 4346.8 | 4272.3 | 4186.8 | 4092.5 | 4002.7 | 3917.2 |
| 22.5° | 4758.9 | 4730.4 | 4726.0 | 4699.7 | 4636.2 | 4526.6 | 4388.5 | 4228.4 | 4068.4 | 3919.4 | 3803.2 |
| 25°   | 5083.3 | 5083.3 | 5061.4 | 4954.0 | 4805.0 | 4607.7 | 4375.3 | 4145.1 | 3932.5 | 3728.7 | 3575.2 |
| 27.5° | 5491.1 | 5475.7 | 5368.3 | 5146.9 | 4879.5 | 4572.6 | 4261.3 | 3969.8 | 3698.0 | 3474.4 | 3277.1 |
| 30°   | 5940.4 | 5833.0 | 5602.9 | 5254.3 | 4853.2 | 4458.6 | 4077.2 | 3739.6 | 3419.6 | 3145.6 | 2913.2 |
| 32.5° | 6407.3 | 6146.5 | 5732.2 | 5254.3 | 4761.1 | 4287.6 | 3847.0 | 3432.7 | 3066.7 | 2759.8 | 2483.6 |
| 35°   | 6830.4 | 6354.7 | 5762.9 | 5168.8 | 4581.4 | 4035.5 | 3524.8 | 3055.7 | 2617.3 | 2286.3 | 1983.8 |
| 37.5° | 7214.0 | 6492.8 | 5730.0 | 5002.2 | 4320.5 | 3680.4 | 3082.0 | 2564.7 | 2069.3 | 1749.2 | 1490.6 |
| 40°   | 7463.9 | 6521.3 | 5594.1 | 4741.4 | 3947.9 | 3200.4 | 2538.4 | 1959.7 | 1567.3 | 1275.8 | 1102.6 |
| 42.5° | 7619.5 | 6466.5 | 5374.9 | 4384.1 | 3445.9 | 2597.6 | 1904.9 | 1405.1 | 1113.6 | 951.3  | 885.6  |
| 45°   | 7707.2 | 6324.0 | 5050.5 | 3895.3 | 2838.7 | 1975.0 | 1352.5 | 1014.9 | 857.1  | 800.1  | 778.2  |
| 47.5° | 7702.8 | 6093.9 | 4644.9 | 3329.7 | 2167.9 | 1376.6 | 957.9  | 791.3  | 747.5  | 729.9  | 725.6  |
| 50°   | 7656.8 | 5811.1 | 4169.3 | 2715.9 | 1565.1 | 960.1  | 758.4  | 710.2  | 699.3  | 688.3  | 683.9  |
| 52.5° | 7593.2 | 5460.4 | 3643.2 | 2117.5 | 1111.4 | 767.2  | 688.3  | 675.1  | 666.4  | 655.4  | 651.0  |
| 55°   | 7474.9 | 5028.5 | 3073.2 | 1593.6 | 870.2  | 692.7  | 664.2  | 659.8  | 648.8  | 633.5  | 624.7  |
| 57.5° | 7330.2 | 4590.1 | 2527.4 | 1245.1 | 769.4  | 675.1  | 659.8  | 653.2  | 637.9  | 620.3  | 602.8  |
| 60°   | 7277.6 | 4228.4 | 2100.0 | 1050.0 | 745.3  | 681.7  | 670.8  | 662.0  | 640.1  | 613.8  | 594.0  |
| 62.5° | 6948.8 | 3820.7 | 1793.1 | 973.3  | 758.4  | 710.2  | 705.8  | 692.7  | 659.8  | 629.1  | 598.4  |
| 65°   | 6098.3 | 3231.1 | 1519.1 | 920.7  | 784.8  | 758.4  | 762.8  | 743.1  | 710.2  | 668.6  | 613.8  |
| 67°   | 5157.9 | 2634.8 | 1264.8 | 870.2  | 804.5  | 808.9  | 824.2  | 808.9  | 767.2  | 708.0  | 633.5  |
| 67.5° | 4908.0 | 2483.6 | 1201.2 | 854.9  | 808.9  | 822.0  | 839.6  | 828.6  | 786.9  | 719.0  | 642.3  |
| 70°   | 3647.6 | 1749.2 | 896.5  | 773.8  | 808.9  | 861.5  | 900.9  | 911.9  | 865.9  | 771.6  | 659.8  |
| 72.5° | 2569.1 | 1128.9 | 688.3  | 670.8  | 734.3  | 804.5  | 879.0  | 916.3  | 863.7  | 760.6  | 635.7  |
| 75°   | 1543.2 | 705.8  | 559.0  | 569.9  | 618.2  | 690.5  | 749.7  | 765.0  | 699.3  | 633.5  | 550.2  |
| 77.5° | 714.6  | 469.1  | 438.4  | 453.8  | 499.8  | 532.7  | 532.7  | 502.0  | 451.6  | 412.1  | 394.6  |
| 80°   | 420.9  | 383.6  | 381.4  | 409.9  | 440.6  | 416.5  | 379.2  | 337.6  | 311.3  | 298.1  | 291.5  |
| 82.5° | 394.6  | 409.9  | 436.2  | 442.8  | 418.7  | 359.5  | 313.5  | 271.8  | 258.7  | 252.1  | 245.5  |
| 85°   | 464.7  | 497.6  | 453.8  | 418.7  | 370.5  | 302.5  | 245.5  | 210.4  | 203.9  | 197.3  | 188.5  |
| 87.5° | 429.6  | 409.9  | 357.3  | 306.9  | 254.3  | 184.1  | 133.7  | 120.6  | 129.3  | 127.1  | 122.8  |
| 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):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3584.0 | 3584.0 | 3584.0 | 3584.0 | 3584.0 |
| 2.5°  | 3489.7 | 3489.7 | 3481.0 | 3476.6 | 3487.5 |
| 5°    | 3428.4 | 3430.5 | 3424.0 | 3421.8 | 3424.0 |
| 7.5°  | 3415.2 | 3413.0 | 3408.6 | 3404.2 | 3408.6 |
| 10°   | 3454.7 | 3452.5 | 3445.9 | 3450.3 | 3443.7 |
| 12.5° | 3573.0 | 3586.2 | 3584.0 | 3588.4 | 3597.1 |
| 15°   | 3765.9 | 3763.7 | 3757.2 | 3761.5 | 3768.1 |
| 17.5° | 3875.5 | 3858.0 | 3842.6 | 3836.1 | 3836.1 |
| 20°   | 3849.2 | 3798.8 | 3772.5 | 3757.2 | 3752.8 |
| 22.5° | 3693.6 | 3621.3 | 3566.5 | 3553.3 | 3542.3 |
| 25°   | 3439.3 | 3349.4 | 3279.3 | 3263.9 | 3235.5 |
| 27.5° | 3143.4 | 3022.8 | 2939.5 | 2922.0 | 2906.6 |
| 30°   | 2755.4 | 2617.3 | 2520.8 | 2459.5 | 2479.2 |
| 32.5° | 2281.9 | 2150.4 | 2038.6 | 1940.0 | 1924.6 |
| 35°   | 1762.4 | 1617.7 | 1519.1 | 1475.2 | 1446.7 |
| 37.5° | 1315.2 | 1194.7 | 1128.9 | 1087.3 | 1089.4 |
| 40°   | 1006.1 | 942.6  | 907.5  | 879.0  | 881.2  |
| 42.5° | 839.6  | 811.1  | 802.3  | 789.1  | 782.6  |
| 45°   | 760.6  | 751.9  | 754.1  | 740.9  | 736.5  |
| 47.5° | 716.8  | 710.2  | 712.4  | 703.6  | 701.5  |
| 50°   | 681.7  | 677.3  | 679.5  | 673.0  | 670.8  |
| 52.5° | 646.7  | 648.8  | 646.7  | 642.3  | 642.3  |
| 55°   | 616.0  | 613.8  | 618.2  | 611.6  | 611.6  |
| 57.5° | 591.9  | 589.7  | 589.7  | 587.5  | 587.5  |
| 60°   | 578.7  | 569.9  | 567.7  | 567.7  | 569.9  |
| 62.5° | 572.1  | 556.8  | 554.6  | 554.6  | 556.8  |
| 65°   | 574.3  | 550.2  | 541.4  | 539.2  | 537.0  |
| 67°   | 576.5  | 541.4  | 523.9  | 515.1  | 512.9  |
| 67.5° | 578.7  | 537.0  | 517.3  | 508.6  | 504.2  |
| 70°   | 565.5  | 506.4  | 477.9  | 462.5  | 458.1  |
| 72.5° | 532.7  | 469.1  | 434.0  | 414.3  | 409.9  |
| 75°   | 473.5  | 425.3  | 394.6  | 372.6  | 363.9  |
| 77.5° | 366.1  | 344.2  | 333.2  | 320.0  | 315.7  |
| 80°   | 285.0  | 274.0  | 269.6  | 260.9  | 258.7  |
| 82.5° | 236.7  | 225.8  | 219.2  | 208.2  | 201.7  |
| 85°   | 184.1  | 171.0  | 166.6  | 157.8  | 153.4  |
| 87.5° | 120.6  | 114.0  | 111.8  | 100.8  | 96.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)