

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: P159702

Luminaire Tested: **VTS-E09-LED-E1-T4-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159702  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E09-LED-E1-T4-7060  
Description: VENTUS LED SITE LUMINAIRE  
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (189) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

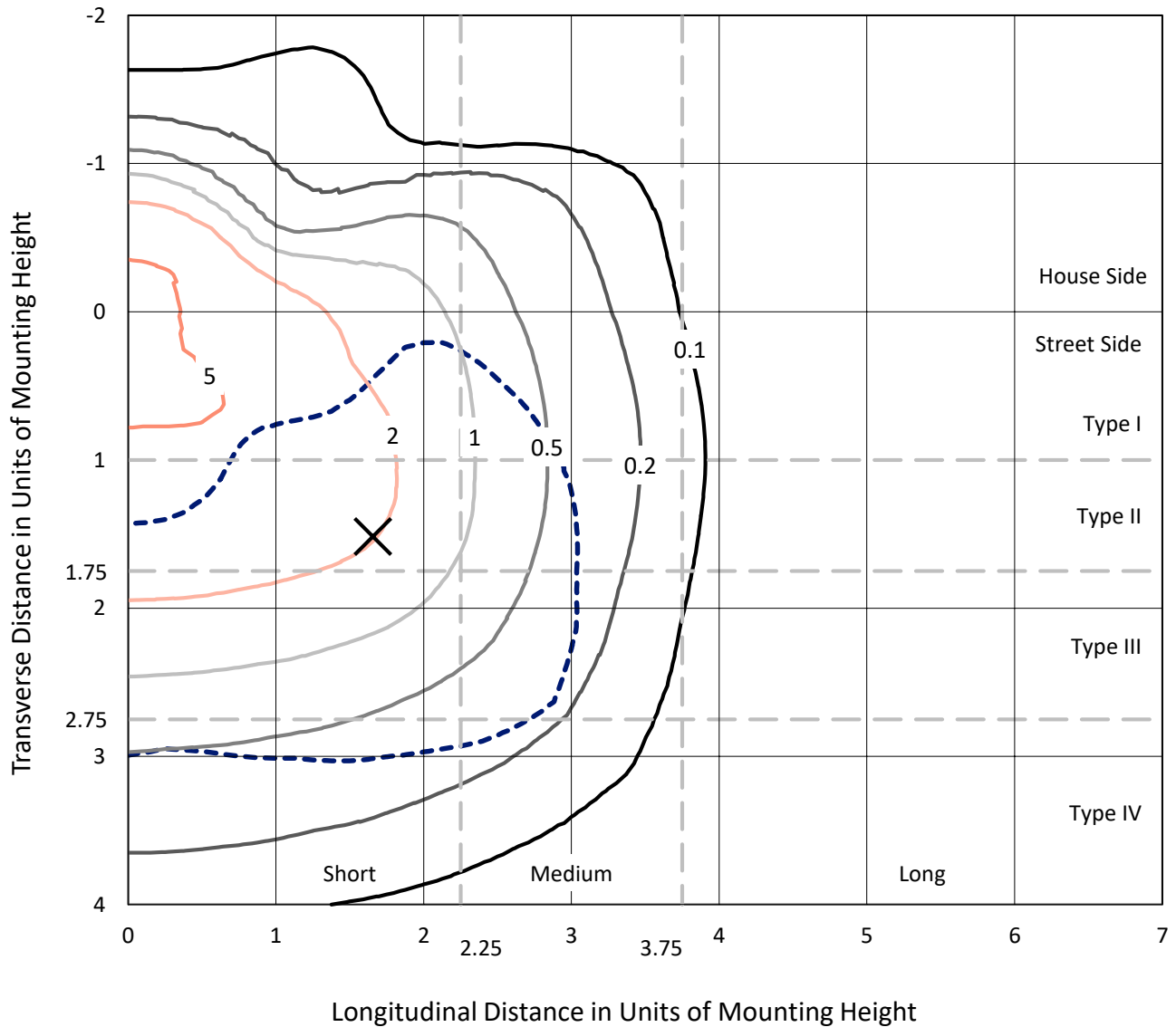
Lumens per Lamp: N/A  
Luminaire Lumens: 27486.5 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.7  
Input Voltage (V): NR  
Input Current (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

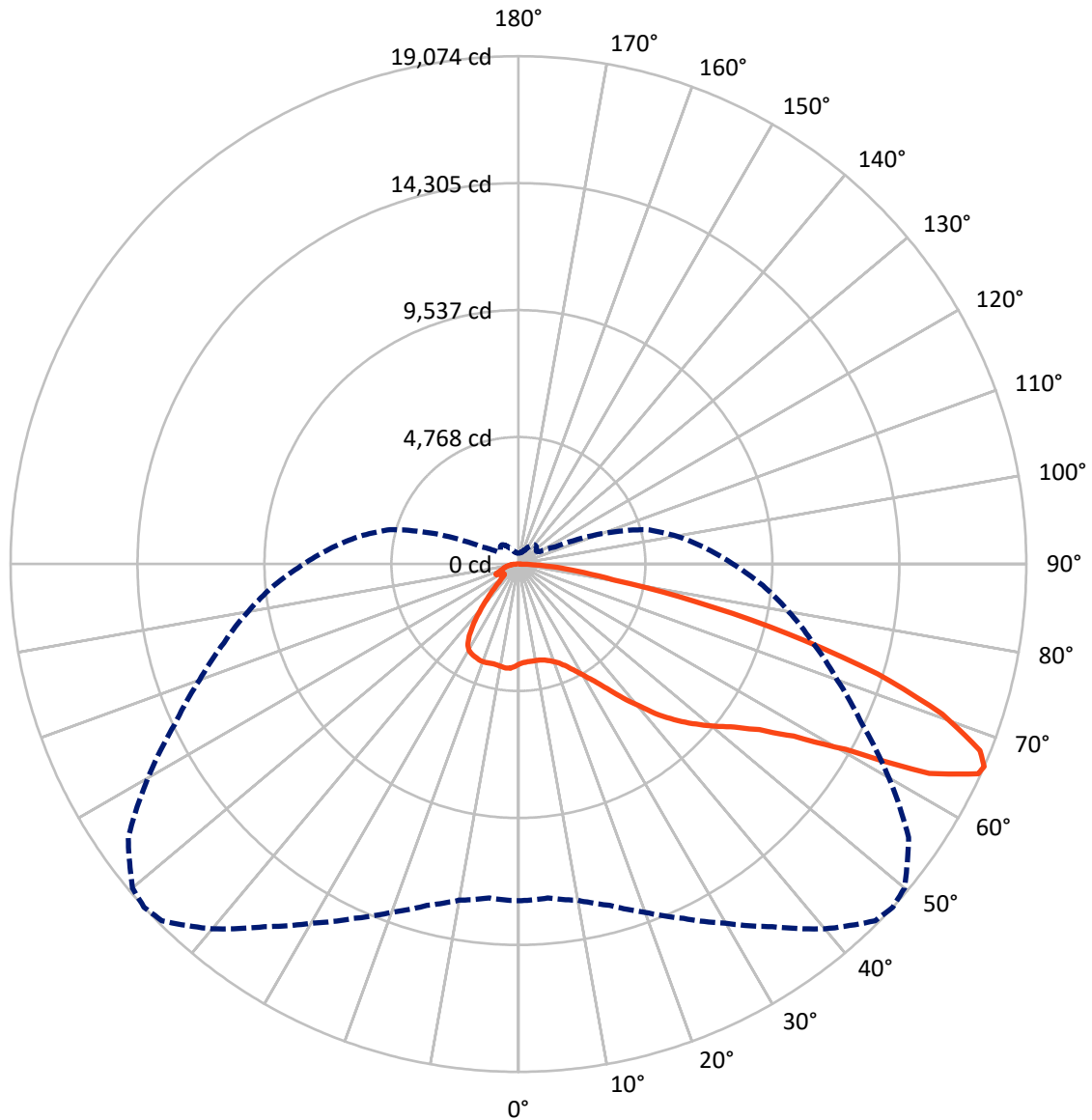


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5690.9   | 0.0    | 5690.9  |
|                    | % Fixture | 20.7     | 0.0    | 20.7    |
| <b>Street Side</b> | Lumens    | 21795.6  | 0.0    | 21795.6 |
|                    | % Fixture | 79.3     | 0.0    | 79.3    |
| <b>Total</b>       | Lumens    | 27486.5  | 0.0    | 27486.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.5   | 1.3       |
| 10°-20°   | 1086.9  | 4.0       |
| 20°-30°   | 1854.5  | 6.7       |
| 30°-40°   | 2799.1  | 10.2      |
| 40°-50°   | 3638.2  | 13.2      |
| 50°-60°   | 4991.2  | 18.2      |
| 60°-70°   | 7678.1  | 27.9      |
| 70°-80°   | 4438.4  | 16.1      |
| 80°-90°   | 637.6   | 2.3       |
| 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°    | 27486.5 | 100.0     |
| 0°-180°   | 27486.5 | 100.0     |



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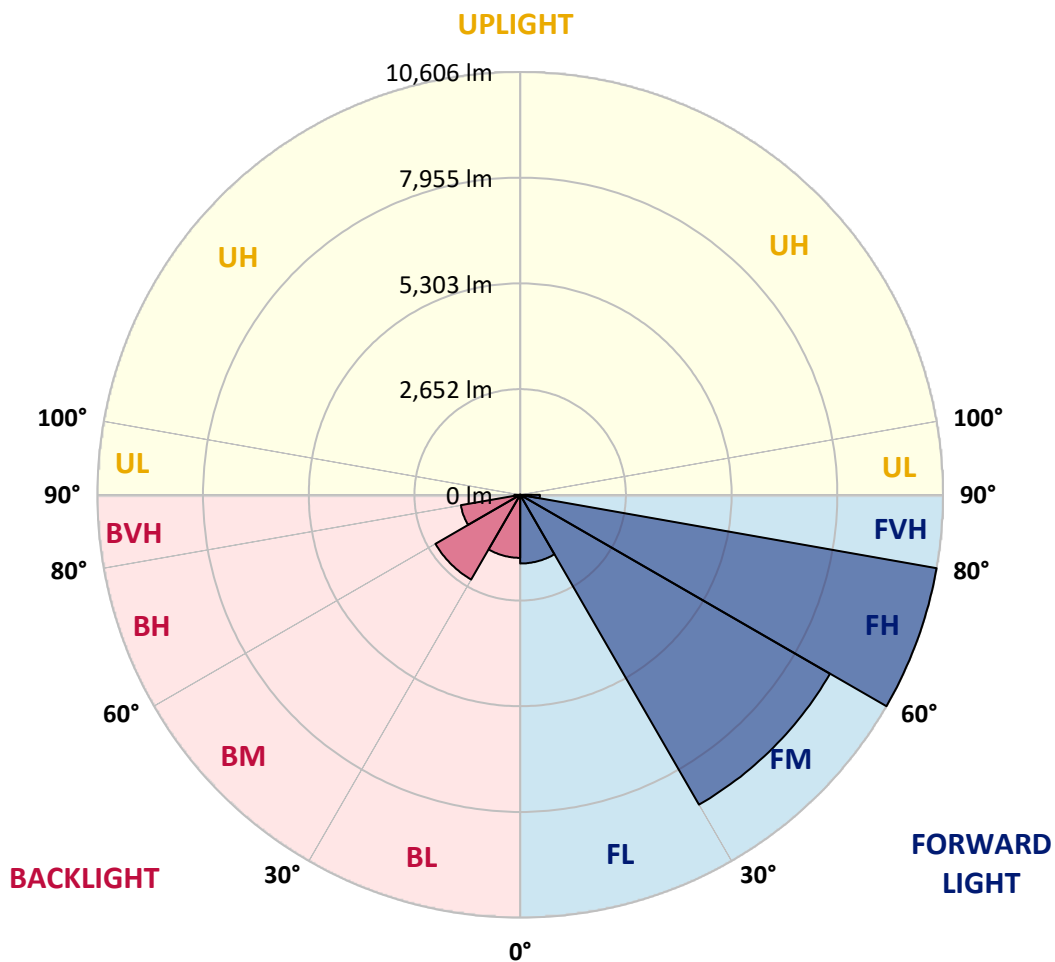
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1722.9  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 8973.2  | 32.6      |                         |      |          |
| FH   | (60°-80°)   | 10606.1 | 38.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 493.4   | 1.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1581.0  | 5.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2455.3  | 8.9       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1510.4  | 5.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 144.2   | 0.5       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 47.5°   |         |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  |
| 2.5°  | 3664.4  | 3666.3  | 3668.1  | 3668.1  | 3673.7  | 3673.7  | 3682.9  | 3688.4  | 3690.3  | 3701.4  | 3708.8  | 3708.8  |
| 5°    | 3596.1  | 3594.2  | 3596.1  | 3599.8  | 3609.0  | 3616.4  | 3634.9  | 3647.8  | 3658.9  | 3677.4  | 3686.6  | 3686.6  |
| 7.5°  | 3566.5  | 3570.2  | 3573.9  | 3575.8  | 3583.2  | 3601.6  | 3618.3  | 3631.2  | 3653.3  | 3675.5  | 3684.7  | 3684.7  |
| 10°   | 3605.3  | 3610.9  | 3605.3  | 3609.0  | 3609.0  | 3625.6  | 3633.0  | 3642.3  | 3658.9  | 3679.2  | 3684.7  | 3684.7  |
| 12.5° | 3695.8  | 3706.9  | 3695.8  | 3686.6  | 3679.2  | 3694.0  | 3690.3  | 3682.9  | 3692.1  | 3697.7  | 3697.7  | 3697.7  |
| 15°   | 3845.4  | 3845.4  | 3838.0  | 3825.1  | 3806.6  | 3808.5  | 3791.9  | 3775.2  | 3767.9  | 3754.9  | 3745.7  | 3745.7  |
| 17.5° | 3991.3  | 3987.7  | 3971.0  | 3954.4  | 3941.5  | 3935.9  | 3911.9  | 3889.8  | 3863.9  | 3843.6  | 3821.4  | 3821.4  |
| 20°   | 4133.6  | 4148.3  | 4128.0  | 4104.0  | 4083.7  | 4070.8  | 4052.3  | 4008.0  | 3976.6  | 3943.3  | 3921.2  | 3921.2  |
| 22.5° | 4379.2  | 4366.3  | 4344.1  | 4309.0  | 4288.7  | 4266.5  | 4227.8  | 4179.7  | 4131.7  | 4091.1  | 4063.4  | 4063.4  |
| 25°   | 4632.3  | 4619.3  | 4587.9  | 4562.1  | 4532.5  | 4514.0  | 4471.6  | 4412.5  | 4366.3  | 4303.5  | 4266.5  | 4266.5  |
| 27.5° | 4903.8  | 4892.7  | 4855.7  | 4835.4  | 4815.1  | 4792.9  | 4756.0  | 4695.0  | 4652.6  | 4580.5  | 4541.7  | 4541.7  |
| 30°   | 5210.4  | 5208.5  | 5158.6  | 5154.9  | 5125.4  | 5101.4  | 5075.5  | 5023.8  | 4981.3  | 4909.3  | 4863.1  | 4863.1  |
| 32.5° | 5537.3  | 5529.9  | 5494.8  | 5483.7  | 5504.0  | 5487.4  | 5450.5  | 5396.9  | 5341.5  | 5299.0  | 5247.3  | 5247.3  |
| 35°   | 6002.7  | 5989.8  | 5969.5  | 5978.7  | 5991.6  | 6037.8  | 5980.6  | 5934.4  | 5867.9  | 5812.5  | 5740.4  | 5740.4  |
| 37.5° | 6342.6  | 6324.1  | 6348.1  | 6399.8  | 6473.7  | 6508.8  | 6558.7  | 6560.5  | 6529.1  | 6455.2  | 6392.4  | 6392.4  |
| 40°   | 6654.7  | 6647.3  | 6702.7  | 6774.8  | 6911.4  | 7011.2  | 7105.4  | 7151.5  | 7162.6  | 7114.6  | 7020.4  | 7020.4  |
| 42.5° | 6918.8  | 6941.0  | 7014.9  | 7125.7  | 7317.8  | 7469.2  | 7644.7  | 7753.7  | 7822.0  | 7796.1  | 7753.7  | 7753.7  |
| 45°   | 7232.8  | 7243.9  | 7334.4  | 7474.8  | 7657.6  | 7908.8  | 8139.7  | 8324.4  | 8444.4  | 8442.6  | 8394.6  | 8394.6  |
| 47.5° | 7626.2  | 7628.1  | 7705.6  | 7870.0  | 8065.8  | 8320.7  | 8612.5  | 8858.2  | 9017.0  | 9024.4  | 8987.5  | 8987.5  |
| 50°   | 8093.5  | 8089.8  | 8174.8  | 8329.9  | 8538.6  | 8784.3  | 9094.6  | 9401.2  | 9622.8  | 9622.8  | 9569.3  | 9569.3  |
| 52.5° | 8695.6  | 8688.2  | 8734.4  | 8871.1  | 9072.4  | 9331.0  | 9639.4  | 9994.1  | 10234.2 | 10285.9 | 10169.5 | 10169.5 |
| 55°   | 9499.1  | 9510.2  | 9521.2  | 9641.3  | 9813.1  | 10018.1 | 10372.7 | 10699.6 | 11021.0 | 11050.5 | 10982.2 | 10982.2 |
| 57.5° | 10428.1 | 10391.2 | 10470.6 | 10666.4 | 10862.1 | 11118.9 | 11370.1 | 11756.1 | 12136.6 | 12201.2 | 12192.0 | 12192.0 |
| 60°   | 11879.8 | 11831.8 | 11913.1 | 12162.4 | 12378.5 | 12783.0 | 13213.4 | 13712.1 | 14162.7 | 14295.7 | 14135.0 | 14135.0 |
| 62.5° | 13215.2 | 13274.3 | 13385.1 | 13675.1 | 13989.1 | 14528.4 | 15174.9 | 16030.0 | 16885.2 | 17350.6 | 17317.4 | 17317.4 |
| 65°   | 13095.2 | 13039.7 | 13252.2 | 13647.4 | 14216.3 | 14903.4 | 15706.8 | 16737.4 | 17969.4 | 18903.9 | 18987.1 | 18987.1 |
| 66°   | 12650.0 | 12592.8 | 12821.8 | 13274.3 | 13924.5 | 14689.1 | 15581.2 | 16630.3 | 17889.9 | 18946.4 | 19073.9 | 19073.9 |
| 67.5° | 11914.9 | 11857.7 | 12116.3 | 12528.1 | 13198.6 | 14160.9 | 15125.0 | 16272.0 | 17581.5 | 18593.6 | 18697.1 | 18697.1 |
| 70°   | 10496.4 | 10418.9 | 10620.2 | 11085.6 | 11628.6 | 12559.5 | 13477.5 | 14692.8 | 16037.4 | 16846.4 | 16885.2 | 16885.2 |
| 72.5° | 8891.4  | 8710.4  | 8924.7  | 9283.0  | 9670.8  | 10441.0 | 11240.8 | 12071.9 | 13143.2 | 13891.2 | 14105.5 | 14105.5 |
| 75°   | 6451.5  | 6545.7  | 6608.5  | 6844.9  | 7101.7  | 7738.9  | 8208.0  | 8904.3  | 9733.6  | 10274.8 | 10446.6 | 10446.6 |
| 77.5° | 3422.5  | 3564.7  | 3653.3  | 3889.8  | 4314.6  | 4800.3  | 5308.2  | 5738.6  | 6283.5  | 6586.4  | 6796.9  | 6796.9  |
| 80°   | 1920.9  | 2020.6  | 2164.7  | 2351.2  | 2558.1  | 2931.2  | 3232.2  | 3453.9  | 3531.4  | 3585.0  | 3633.0  | 3633.0  |
| 82.5° | 1056.5  | 1309.5  | 1523.8  | 1653.1  | 1775.0  | 1924.6  | 2103.7  | 2288.4  | 2347.5  | 2258.9  | 2212.7  | 2212.7  |
| 85°   | 164.4   | 242.0   | 736.9   | 899.5   | 978.9   | 1093.4  | 1222.7  | 1359.4  | 1361.2  | 1171.0  | 1278.1  | 1278.1  |
| 87.5° | 46.2    | 51.7    | 105.3   | 158.8   | 155.1   | 125.6   | 155.1   | 282.6   | 166.2   | 83.1    | 96.0    | 96.0    |
| 90°   | 0.0     | 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):**

|       | 50°     | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°    | 90°    | 95°    | 100°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5  | 3760.5 | 3760.5 | 3760.5 | 3760.5 |
| 2.5°  | 3712.4  | 3716.1  | 3725.4  | 3734.6  | 3743.8  | 3753.1  | 3758.6  | 3767.9 | 3775.2 | 3786.3 | 3799.3 |
| 5°    | 3697.7  | 3706.9  | 3723.5  | 3743.8  | 3762.3  | 3778.9  | 3791.9  | 3810.3 | 3827.0 | 3841.7 | 3863.9 |
| 7.5°  | 3697.7  | 3716.1  | 3743.8  | 3766.0  | 3782.6  | 3803.0  | 3823.3  | 3841.7 | 3860.2 | 3875.0 | 3889.8 |
| 10°   | 3699.5  | 3718.0  | 3745.7  | 3771.6  | 3790.0  | 3812.2  | 3828.8  | 3845.4 | 3865.7 | 3875.0 | 3893.5 |
| 12.5° | 3706.9  | 3714.3  | 3734.6  | 3760.5  | 3782.6  | 3804.8  | 3821.4  | 3838.0 | 3860.2 | 3863.9 | 3876.8 |
| 15°   | 3743.8  | 3732.8  | 3738.3  | 3756.8  | 3780.8  | 3799.3  | 3817.7  | 3830.7 | 3845.4 | 3841.7 | 3852.8 |
| 17.5° | 3812.2  | 3784.5  | 3773.4  | 3775.2  | 3786.3  | 3799.3  | 3806.6  | 3808.5 | 3810.3 | 3793.7 | 3795.6 |
| 20°   | 3904.5  | 3865.7  | 3839.9  | 3827.0  | 3812.2  | 3799.3  | 3778.9  | 3754.9 | 3732.8 | 3699.5 | 3695.8 |
| 22.5° | 4043.1  | 3985.8  | 3958.1  | 3923.0  | 3878.7  | 3823.3  | 3773.4  | 3714.3 | 3666.3 | 3616.4 | 3597.9 |
| 25°   | 4244.4  | 4185.3  | 4155.7  | 4100.3  | 4020.9  | 3941.5  | 3869.4  | 3790.0 | 3719.8 | 3660.7 | 3633.0 |
| 27.5° | 4514.0  | 4454.9  | 4423.5  | 4366.3  | 4268.4  | 4189.0  | 4089.2  | 4004.3 | 3919.3 | 3832.5 | 3797.4 |
| 30°   | 4841.0  | 4789.2  | 4754.2  | 4708.0  | 4623.0  | 4536.2  | 4419.8  | 4288.7 | 4153.9 | 4015.4 | 3947.0 |
| 32.5° | 5227.0  | 5169.7  | 5143.9  | 5090.3  | 5001.6  | 4911.1  | 4781.9  | 4613.8 | 4388.4 | 4170.5 | 4033.8 |
| 35°   | 5709.0  | 5644.4  | 5614.8  | 5544.7  | 5441.2  | 5308.2  | 5169.7  | 4944.4 | 4639.6 | 4336.7 | 4113.2 |
| 37.5° | 6353.6  | 6209.6  | 6111.7  | 5951.0  | 5784.8  | 5598.2  | 5400.6  | 5169.7 | 4809.6 | 4434.6 | 4124.3 |
| 40°   | 6924.4  | 6778.5  | 6590.1  | 6359.2  | 6100.6  | 5843.9  | 5618.5  | 5356.3 | 4964.7 | 4504.8 | 4089.2 |
| 42.5° | 7633.6  | 7375.0  | 7074.0  | 6761.8  | 6418.3  | 6102.5  | 5834.6  | 5526.2 | 5070.0 | 4523.3 | 3991.3 |
| 45°   | 8281.9  | 7973.5  | 7570.8  | 7155.2  | 6728.6  | 6331.5  | 6030.4  | 5686.9 | 5160.5 | 4523.3 | 3873.1 |
| 47.5° | 8872.9  | 8503.5  | 8021.5  | 7504.3  | 7007.5  | 6573.4  | 6231.7  | 5851.3 | 5287.9 | 4580.5 | 3838.0 |
| 50°   | 9419.6  | 8994.8  | 8446.3  | 7846.0  | 7288.2  | 6824.6  | 6457.1  | 6061.8 | 5481.9 | 4728.3 | 3923.0 |
| 52.5° | 9995.9  | 9545.2  | 8876.6  | 8239.4  | 7624.4  | 7127.5  | 6736.0  | 6322.2 | 5733.1 | 4961.0 | 4072.6 |
| 55°   | 10751.3 | 10223.1 | 9464.0  | 8762.1  | 8086.1  | 7537.6  | 7092.4  | 6634.4 | 6008.3 | 5223.3 | 4255.5 |
| 57.5° | 11942.6 | 11176.1 | 10417.0 | 9504.6  | 8867.4  | 8145.2  | 7657.6  | 7131.2 | 6455.2 | 5565.0 | 4530.7 |
| 60°   | 14027.9 | 13085.9 | 12173.5 | 11124.4 | 10337.6 | 9582.2  | 8845.2  | 8158.2 | 7343.6 | 6337.0 | 5134.6 |
| 62.5° | 17005.2 | 16048.5 | 14615.2 | 13331.6 | 12144.0 | 11142.9 | 10182.5 | 9308.8 | 8263.4 | 7162.6 | 5879.0 |
| 65°   | 18783.9 | 17688.6 | 15980.2 | 14255.1 | 12812.6 | 11571.4 | 10472.4 | 9403.0 | 8274.5 | 7201.4 | 6104.3 |
| 66°   | 18926.1 | 17889.9 | 16065.1 | 14242.1 | 12744.2 | 11456.9 | 10313.6 | 9207.2 | 8051.0 | 7024.1 | 6030.4 |
| 67.5° | 18662.0 | 17769.9 | 15891.5 | 13990.9 | 12459.8 | 11069.0 | 9894.3  | 8734.4 | 7572.7 | 6621.5 | 5784.8 |
| 70°   | 16798.4 | 16153.8 | 14543.2 | 12762.7 | 11235.2 | 10008.8 | 8769.5  | 7653.9 | 6553.1 | 5753.4 | 5132.8 |
| 72.5° | 13771.2 | 12954.8 | 11828.1 | 10631.3 | 9428.9  | 8341.0  | 7214.3  | 6265.0 | 5341.5 | 4759.7 | 4320.1 |
| 75°   | 10116.0 | 9380.9  | 8139.7  | 7393.5  | 6599.3  | 5915.9  | 5156.8  | 4257.3 | 3601.6 | 3309.8 | 3202.7 |
| 77.5° | 6412.7  | 5614.8  | 4567.6  | 3743.8  | 3219.3  | 2766.8  | 2181.3  | 1734.3 | 1388.9 | 1446.2 | 1601.3 |
| 80°   | 3239.6  | 2790.8  | 2088.9  | 1649.4  | 1425.9  | 1185.8  | 938.3   | 711.1  | 519.0  | 592.9  | 670.5  |
| 82.5° | 2079.7  | 1736.2  | 1383.4  | 1089.7  | 919.8   | 810.8   | 648.3   | 471.0  | 350.9  | 395.3  | 483.9  |
| 85°   | 1252.3  | 1058.3  | 844.1   | 690.8   | 600.3   | 500.5   | 367.6   | 260.4  | 258.6  | 277.0  | 341.7  |
| 87.5° | 190.2   | 271.5   | 157.0   | 168.1   | 177.3   | 190.2   | 168.1   | 142.2  | 123.7  | 160.7  | 203.2  |
| 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):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 |
| 2.5°  | 3812.2 | 3815.9 | 3823.3 | 3832.5 | 3830.7 | 3843.6 | 3851.0 | 3843.6 | 3860.2 | 3860.2 | 3869.4 |
| 5°    | 3882.4 | 3887.9 | 3900.8 | 3910.1 | 3913.8 | 3924.9 | 3928.5 | 3926.7 | 3930.4 | 3932.2 | 3935.9 |
| 7.5°  | 3902.7 | 3917.5 | 3923.0 | 3928.5 | 3930.4 | 3934.1 | 3934.1 | 3930.4 | 3930.4 | 3928.5 | 3932.2 |
| 10°   | 3897.1 | 3902.7 | 3906.4 | 3904.5 | 3904.5 | 3900.8 | 3899.0 | 3897.1 | 3897.1 | 3893.5 | 3899.0 |
| 12.5° | 3878.7 | 3878.7 | 3878.7 | 3875.0 | 3875.0 | 3873.1 | 3873.1 | 3873.1 | 3876.8 | 3878.7 | 3887.9 |
| 15°   | 3841.7 | 3841.7 | 3845.4 | 3843.6 | 3849.1 | 3858.4 | 3869.4 | 3876.8 | 3886.1 | 3887.9 | 3893.5 |
| 17.5° | 3784.5 | 3786.3 | 3797.4 | 3821.4 | 3845.4 | 3873.1 | 3893.5 | 3899.0 | 3891.6 | 3873.1 | 3860.2 |
| 20°   | 3684.7 | 3708.8 | 3753.1 | 3810.3 | 3863.9 | 3899.0 | 3908.2 | 3886.1 | 3851.0 | 3803.0 | 3777.1 |
| 22.5° | 3596.1 | 3644.1 | 3723.5 | 3817.7 | 3884.2 | 3908.2 | 3880.5 | 3828.8 | 3766.0 | 3710.6 | 3671.8 |
| 25°   | 3631.2 | 3686.6 | 3769.7 | 3851.0 | 3893.5 | 3880.5 | 3825.1 | 3751.2 | 3684.7 | 3620.1 | 3557.3 |
| 27.5° | 3778.9 | 3834.4 | 3893.5 | 3917.5 | 3902.7 | 3854.7 | 3777.1 | 3697.7 | 3609.0 | 3516.7 | 3439.1 |
| 30°   | 3919.3 | 3950.7 | 3954.4 | 3930.4 | 3876.8 | 3799.3 | 3708.8 | 3616.4 | 3503.7 | 3392.9 | 3295.0 |
| 32.5° | 3963.6 | 3926.7 | 3860.2 | 3791.9 | 3718.0 | 3638.6 | 3533.3 | 3411.4 | 3291.3 | 3165.7 | 3056.8 |
| 35°   | 3950.7 | 3801.1 | 3636.7 | 3490.8 | 3402.2 | 3311.7 | 3215.6 | 3053.1 | 2918.2 | 2811.1 | 2740.9 |
| 37.5° | 3834.4 | 3561.0 | 3308.0 | 3095.6 | 2957.0 | 2849.9 | 2707.7 | 2572.9 | 2456.5 | 2408.5 | 2351.2 |
| 40°   | 3671.8 | 3254.4 | 2903.5 | 2606.1 | 2462.0 | 2325.4 | 2166.5 | 2063.1 | 2029.8 | 1985.5 | 1987.4 |
| 42.5° | 3439.1 | 2896.1 | 2443.6 | 2101.9 | 1944.9 | 1795.3 | 1682.6 | 1621.7 | 1623.5 | 1586.6 | 1594.0 |
| 45°   | 3193.4 | 2535.9 | 1967.0 | 1627.2 | 1472.1 | 1344.6 | 1281.8 | 1263.3 | 1265.2 | 1267.0 | 1256.0 |
| 47.5° | 3043.8 | 2255.2 | 1577.3 | 1233.8 | 1097.1 | 1025.1 | 991.8  | 982.6  | 984.4  | 986.3  | 973.4  |
| 50°   | 3021.7 | 2109.3 | 1316.9 | 943.8  | 855.2  | 814.5  | 797.9  | 788.7  | 788.7  | 781.3  | 770.2  |
| 52.5° | 3084.5 | 2072.3 | 1189.5 | 818.2  | 733.3  | 696.3  | 683.4  | 676.0  | 664.9  | 650.1  | 629.8  |
| 55°   | 3184.2 | 2105.6 | 1150.7 | 775.7  | 692.6  | 655.7  | 639.1  | 635.4  | 616.9  | 589.2  | 555.9  |
| 57.5° | 3368.9 | 2225.6 | 1176.5 | 786.8  | 700.0  | 666.8  | 655.7  | 652.0  | 626.1  | 583.6  | 541.2  |
| 60°   | 3899.0 | 2574.7 | 1305.8 | 849.6  | 753.6  | 725.9  | 725.9  | 720.3  | 685.2  | 624.3  | 563.3  |
| 62.5° | 4630.4 | 3086.3 | 1481.3 | 936.4  | 827.5  | 823.8  | 855.2  | 857.0  | 794.2  | 696.3  | 600.3  |
| 65°   | 4983.2 | 3326.4 | 1542.2 | 954.9  | 847.8  | 890.2  | 953.0  | 953.0  | 864.4  | 729.6  | 605.8  |
| 66°   | 4985.0 | 3320.9 | 1523.8 | 932.7  | 825.6  | 881.0  | 945.7  | 945.7  | 853.3  | 720.3  | 596.6  |
| 67.5° | 4857.6 | 3217.5 | 1462.8 | 892.1  | 775.7  | 827.5  | 884.7  | 882.9  | 799.7  | 683.4  | 570.7  |
| 70°   | 4357.0 | 2846.2 | 1289.2 | 825.6  | 716.6  | 718.5  | 738.8  | 725.9  | 670.5  | 591.0  | 519.0  |
| 72.5° | 3756.8 | 2380.8 | 1117.4 | 783.1  | 670.5  | 635.4  | 618.7  | 607.7  | 572.6  | 524.5  | 480.2  |
| 75°   | 2881.3 | 1848.8 | 973.4  | 744.3  | 629.8  | 568.9  | 546.7  | 537.5  | 513.5  | 485.8  | 450.7  |
| 77.5° | 1765.7 | 1267.0 | 825.6  | 681.5  | 583.6  | 528.2  | 504.2  | 485.8  | 461.7  | 435.9  | 411.9  |
| 80°   | 761.0  | 764.7  | 661.2  | 578.1  | 507.9  | 443.3  | 411.9  | 389.7  | 376.8  | 367.6  | 354.6  |
| 82.5° | 531.9  | 548.6  | 504.2  | 448.8  | 387.9  | 341.7  | 314.0  | 308.4  | 310.3  | 310.3  | 306.6  |
| 85°   | 398.9  | 391.6  | 352.8  | 321.4  | 293.7  | 264.1  | 242.0  | 240.1  | 247.5  | 247.5  | 242.0  |
| 87.5° | 230.9  | 232.7  | 199.5  | 186.5  | 193.9  | 166.2  | 151.5  | 153.3  | 171.8  | 169.9  | 166.2  |
| 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):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3760.5 | 3760.5 | 3760.5 | 3760.5 | 3760.5 |
| 2.5°  | 3869.4 | 3875.0 | 3873.1 | 3878.7 | 3873.1 |
| 5°    | 3941.5 | 3939.6 | 3937.8 | 3945.2 | 3935.9 |
| 7.5°  | 3930.4 | 3932.2 | 3932.2 | 3932.2 | 3930.4 |
| 10°   | 3902.7 | 3910.1 | 3913.8 | 3921.2 | 3919.3 |
| 12.5° | 3893.5 | 3904.5 | 3915.6 | 3926.7 | 3928.5 |
| 15°   | 3895.3 | 3902.7 | 3908.2 | 3913.8 | 3915.6 |
| 17.5° | 3847.3 | 3845.4 | 3839.9 | 3836.2 | 3832.5 |
| 20°   | 3749.4 | 3740.2 | 3730.9 | 3716.1 | 3723.5 |
| 22.5° | 3627.5 | 3601.6 | 3572.1 | 3548.1 | 3546.2 |
| 25°   | 3485.3 | 3437.2 | 3389.2 | 3357.8 | 3346.7 |
| 27.5° | 3359.7 | 3302.4 | 3252.5 | 3224.8 | 3217.5 |
| 30°   | 3210.1 | 3158.4 | 3114.0 | 3090.0 | 3075.2 |
| 32.5° | 2988.4 | 2947.8 | 2892.4 | 2873.9 | 2872.1 |
| 35°   | 2680.0 | 2648.6 | 2609.8 | 2602.4 | 2593.2 |
| 37.5° | 2330.9 | 2319.8 | 2301.3 | 2279.2 | 2275.5 |
| 40°   | 1957.8 | 1965.2 | 1959.7 | 1946.7 | 1926.4 |
| 42.5° | 1597.6 | 1610.6 | 1612.4 | 1621.7 | 1630.9 |
| 45°   | 1272.6 | 1283.7 | 1283.7 | 1292.9 | 1304.0 |
| 47.5° | 977.1  | 969.7  | 975.2  | 984.4  | 990.0  |
| 50°   | 738.8  | 733.3  | 724.0  | 716.6  | 709.2  |
| 52.5° | 594.7  | 583.6  | 557.8  | 550.4  | 543.0  |
| 55°   | 524.5  | 504.2  | 485.8  | 478.4  | 478.4  |
| 57.5° | 504.2  | 478.4  | 458.1  | 448.8  | 445.1  |
| 60°   | 507.9  | 471.0  | 445.1  | 430.3  | 424.8  |
| 62.5° | 524.5  | 472.8  | 437.7  | 421.1  | 415.6  |
| 65°   | 522.7  | 469.1  | 435.9  | 417.4  | 411.9  |
| 66°   | 513.5  | 463.6  | 432.2  | 415.6  | 411.9  |
| 67.5° | 498.7  | 456.2  | 428.5  | 413.7  | 408.2  |
| 70°   | 469.1  | 441.4  | 421.1  | 408.2  | 402.6  |
| 72.5° | 445.1  | 426.7  | 408.2  | 393.4  | 389.7  |
| 75°   | 423.0  | 404.5  | 387.9  | 380.5  | 374.9  |
| 77.5° | 389.7  | 373.1  | 363.9  | 356.5  | 352.8  |
| 80°   | 345.4  | 334.3  | 323.2  | 315.8  | 310.3  |
| 82.5° | 301.1  | 286.3  | 275.2  | 269.7  | 266.0  |
| 85°   | 245.6  | 236.4  | 219.8  | 208.7  | 206.9  |
| 87.5° | 164.4  | 155.1  | 149.6  | 140.4  | 131.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)