

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: P158399

Luminaire Tested: **VTS-E11-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158399
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-E11-LED-E1-SL3-7030
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (231) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

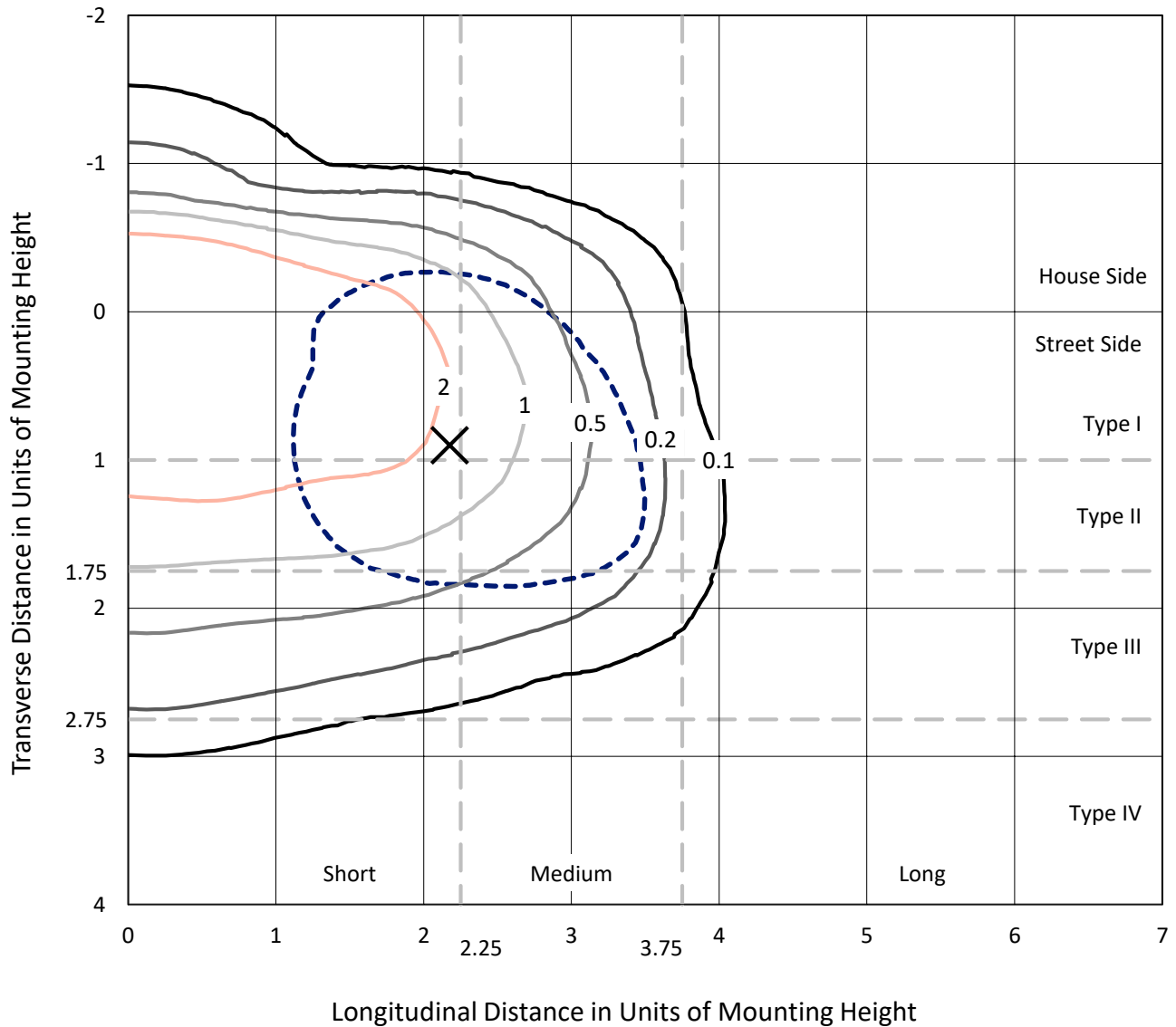
Lumens per Lamp: N/A
Luminaire Lumens: 30310 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 269.7
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

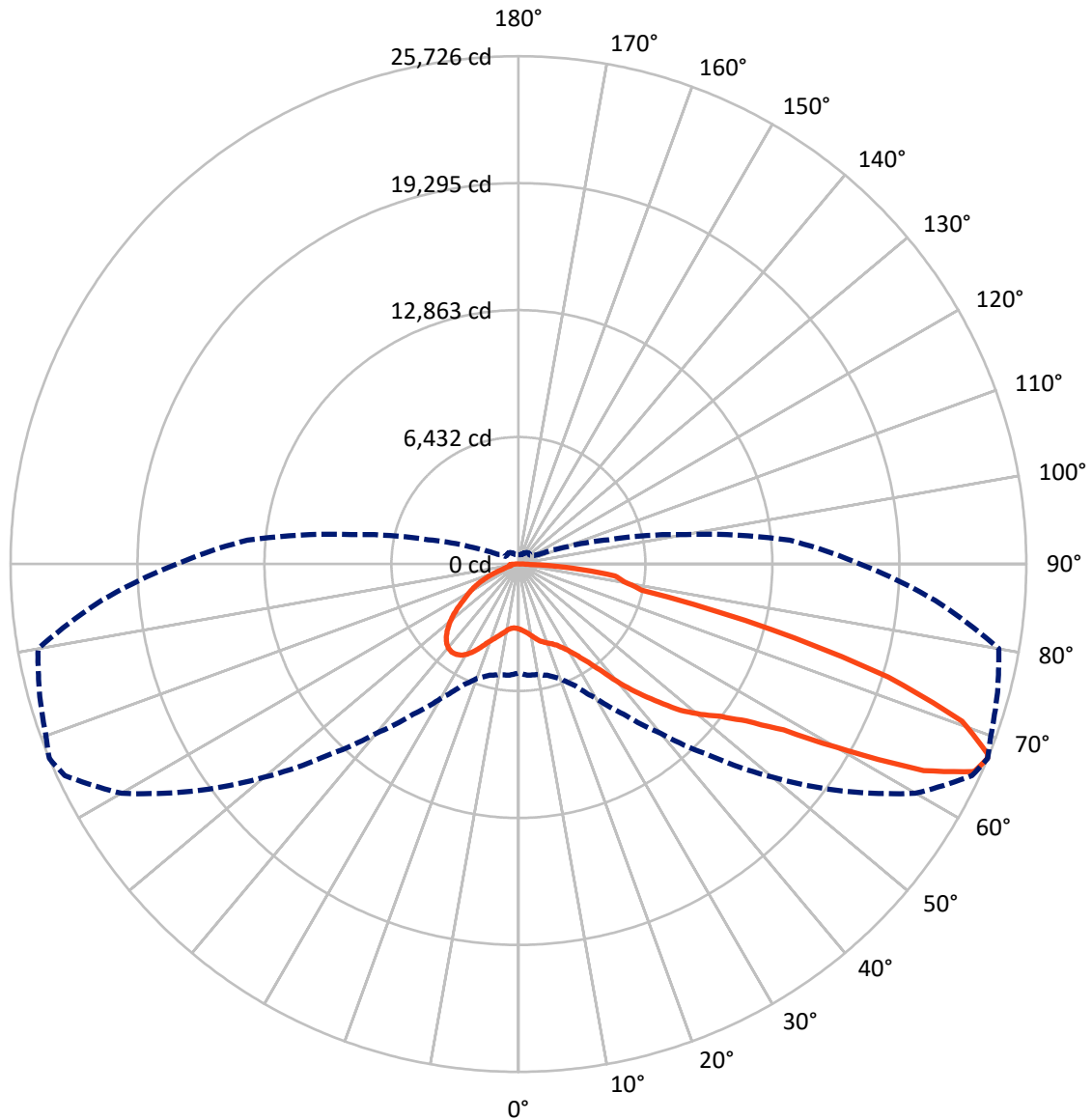
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7271.4 | 0.0 | 7271.4 |
| | % Fixture | 24.0 | 0.0 | 24.0 |
| Street Side | Lumens | 23038.6 | 0.0 | 23038.6 |
| | % Fixture | 76.0 | 0.0 | 76.0 |
| Total | Lumens | 30310.0 | 0.0 | 30310.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 326.5 | 1.1 |
| 10°-20° | 1112.5 | 3.7 |
| 20°-30° | 1986.1 | 6.6 |
| 30°-40° | 2910.7 | 9.6 |
| 40°-50° | 4497.5 | 14.8 |
| 50°-60° | 6549.1 | 21.6 |
| 60°-70° | 8531.3 | 28.1 |
| 70°-80° | 3818.9 | 12.6 |
| 80°-90° | 577.4 | 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° | 30310.0 | 100.0 |
| 0°-180° | 30310.0 | 100.0 |



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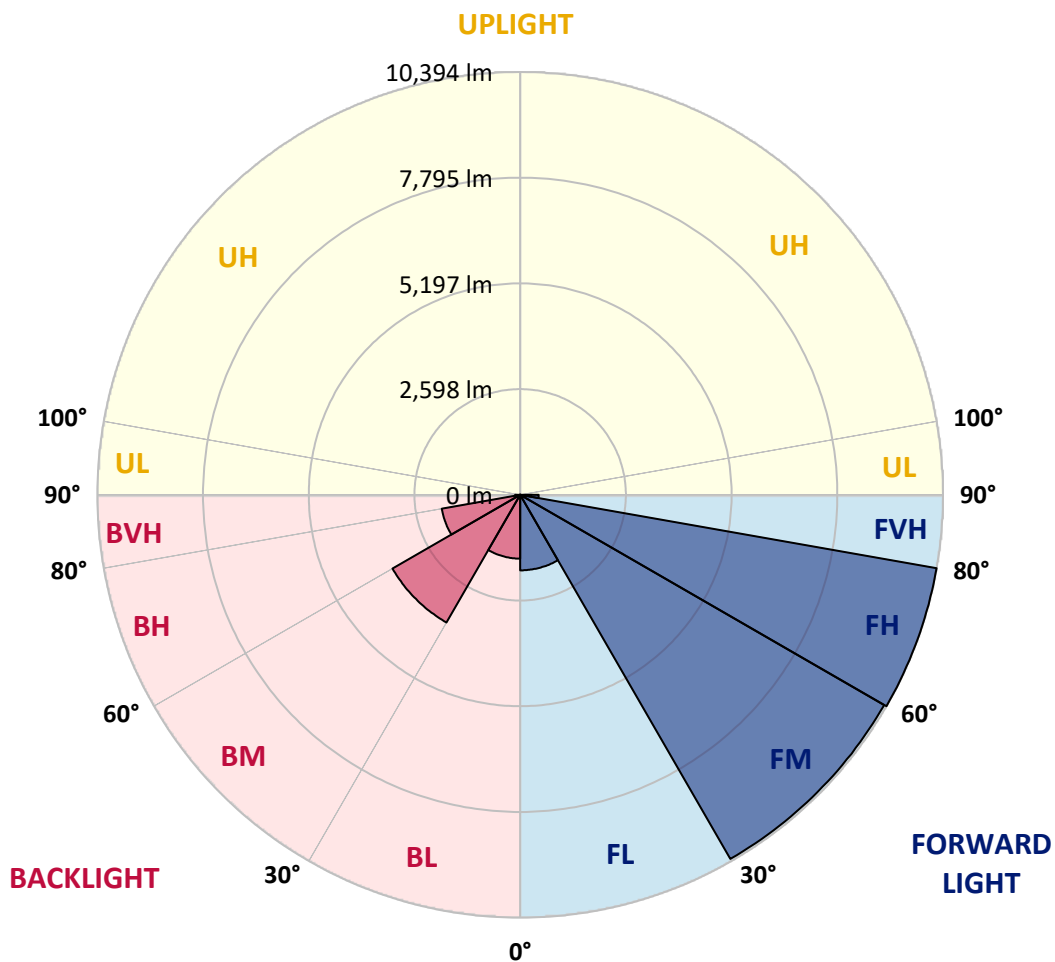
CATALOG NUMBER: VTS-E11-LED-E1-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1857.1 | 6.1 | | | |
| FM | (30°-60°) | 10334.1 | 34.1 | | | |
| FH | (60°-80°) | 10393.9 | 34.3 | | | G4/12000 |
| FVH | (80°-90°) | 453.4 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 1568.0 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 3623.2 | 12.0 | B3/5000 | | |
| BH | (60°-80°) | 1956.3 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 124.0 | 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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CATALOG NUMBER: VTS-E11-LED-E1-SL3-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 |
| 2.5° | 3413.9 | 3422.0 | 3424.0 | 3422.0 | 3424.0 | 3415.9 | 3413.9 | 3401.9 | 3407.9 | 3391.8 | 3387.8 |
| 5° | 3598.8 | 3604.8 | 3608.8 | 3592.8 | 3596.8 | 3588.7 | 3578.7 | 3566.6 | 3550.6 | 3528.5 | 3514.4 |
| 7.5° | 3779.6 | 3789.7 | 3787.7 | 3781.6 | 3767.6 | 3759.5 | 3739.4 | 3721.4 | 3693.2 | 3667.1 | 3649.0 |
| 10° | 4022.8 | 4020.8 | 4020.8 | 3986.6 | 3966.5 | 3948.4 | 3912.2 | 3884.1 | 3856.0 | 3817.8 | 3797.7 |
| 12.5° | 4304.1 | 4290.0 | 4284.0 | 4259.9 | 4217.7 | 4185.5 | 4133.3 | 4079.0 | 4028.8 | 3988.6 | 3956.5 |
| 15° | 4575.3 | 4575.3 | 4559.3 | 4521.1 | 4480.9 | 4438.7 | 4364.4 | 4286.0 | 4203.6 | 4139.3 | 4107.2 |
| 17.5° | 4822.5 | 4800.4 | 4786.3 | 4736.1 | 4693.9 | 4625.6 | 4543.2 | 4458.8 | 4356.3 | 4265.9 | 4203.6 |
| 20° | 5003.3 | 4985.2 | 4955.1 | 4892.8 | 4820.5 | 4740.1 | 4643.7 | 4545.2 | 4434.7 | 4336.2 | 4265.9 |
| 22.5° | 5107.8 | 5085.7 | 5039.5 | 4957.1 | 4858.7 | 4746.1 | 4633.6 | 4541.2 | 4440.7 | 4366.4 | 4308.1 |
| 25° | 5162.1 | 5140.0 | 5077.7 | 4969.2 | 4836.6 | 4687.9 | 4559.3 | 4468.8 | 4410.6 | 4392.5 | 4384.4 |
| 27.5° | 5160.1 | 5142.0 | 5075.7 | 4951.1 | 4780.3 | 4609.5 | 4470.8 | 4394.5 | 4388.5 | 4458.8 | 4511.0 |
| 30° | 5107.8 | 5095.8 | 5035.5 | 4910.9 | 4732.1 | 4553.2 | 4424.6 | 4384.4 | 4446.7 | 4595.4 | 4724.0 |
| 32.5° | 5055.6 | 5049.5 | 5007.4 | 4894.8 | 4742.1 | 4591.4 | 4503.0 | 4507.0 | 4635.6 | 4864.7 | 5071.7 |
| 35° | 5061.6 | 5069.6 | 5063.6 | 5003.3 | 4906.9 | 4828.5 | 4786.3 | 4874.7 | 5075.7 | 5353.0 | 5630.3 |
| 37.5° | 5113.8 | 5144.0 | 5182.2 | 5188.2 | 5190.2 | 5178.1 | 5266.6 | 5453.4 | 5746.8 | 6108.5 | 6542.5 |
| 40° | 5228.4 | 5262.5 | 5373.1 | 5469.5 | 5594.1 | 5742.8 | 5921.6 | 6180.8 | 6544.5 | 6990.6 | 7523.1 |
| 42.5° | 5584.0 | 5632.3 | 5768.9 | 5947.7 | 6176.8 | 6409.9 | 6677.1 | 7030.8 | 7476.9 | 7947.1 | 8505.7 |
| 45° | 6048.2 | 6148.7 | 6299.4 | 6498.3 | 6841.9 | 7169.4 | 7515.0 | 7910.9 | 8385.1 | 8973.8 | 9536.5 |
| 47.5° | 6626.9 | 6727.4 | 6946.4 | 7159.4 | 7565.3 | 7973.2 | 8350.9 | 8764.9 | 9279.3 | 9882.1 | 10505.0 |
| 50° | 7133.3 | 7247.8 | 7442.7 | 7730.0 | 8200.2 | 8700.6 | 9118.5 | 9566.6 | 9998.6 | 10633.6 | 11262.5 |
| 52.5° | 7531.1 | 7613.5 | 7800.4 | 8063.6 | 8588.1 | 9136.6 | 9665.1 | 10163.4 | 10675.8 | 11310.7 | 11893.5 |
| 55° | 7581.4 | 7657.7 | 7840.6 | 8142.0 | 8674.5 | 9283.3 | 9892.1 | 10482.9 | 11208.3 | 11901.5 | 12673.1 |
| 57.5° | 7364.3 | 7426.6 | 7611.5 | 7880.8 | 8399.2 | 9092.4 | 9862.0 | 10619.5 | 11547.9 | 12484.2 | 13426.6 |
| 60° | 7056.9 | 7119.2 | 7263.9 | 7478.9 | 7947.1 | 8694.5 | 9592.7 | 10629.6 | 11863.3 | 13215.6 | 14602.1 |
| 62.5° | 6719.3 | 6773.6 | 6890.1 | 7042.8 | 7454.8 | 8144.0 | 9172.8 | 10563.3 | 12120.5 | 13943.0 | 16081.0 |
| 65° | 6150.7 | 6281.3 | 6331.5 | 6488.3 | 6900.2 | 7551.2 | 8598.1 | 10115.2 | 12016.0 | 14266.5 | 17009.3 |
| 67° | 5521.8 | 5654.4 | 5680.5 | 5839.2 | 6168.8 | 6793.7 | 7858.6 | 9285.3 | 11188.2 | 13707.9 | 16804.4 |
| 67.5° | 5320.8 | 5433.3 | 5473.5 | 5632.3 | 5943.7 | 6532.5 | 7543.2 | 8985.9 | 10935.0 | 13402.5 | 16557.2 |
| 70° | 3912.2 | 4036.8 | 4081.0 | 4147.3 | 4370.4 | 4860.7 | 5529.8 | 6781.6 | 8718.7 | 10937.0 | 13967.1 |
| 72.5° | 2093.8 | 2194.2 | 2236.4 | 2334.9 | 2449.4 | 2716.7 | 3229.1 | 4127.2 | 5351.0 | 7318.1 | 9936.3 |
| 75° | 1416.6 | 1456.8 | 1486.9 | 1555.3 | 1673.8 | 1886.8 | 2111.8 | 2427.3 | 3166.8 | 4129.3 | 5654.4 |
| 77.5° | 807.8 | 825.9 | 829.9 | 841.9 | 936.4 | 1139.3 | 1509.0 | 2043.5 | 2620.2 | 2992.0 | 3616.9 |
| 80° | 349.6 | 385.8 | 413.9 | 395.8 | 389.8 | 432.0 | 540.5 | 805.8 | 1579.4 | 2507.7 | 2975.9 |
| 82.5° | 188.9 | 205.0 | 229.1 | 231.1 | 243.1 | 257.2 | 279.3 | 331.5 | 466.2 | 940.4 | 2051.6 |
| 85° | 98.5 | 102.5 | 136.6 | 156.7 | 166.8 | 174.8 | 178.8 | 198.9 | 229.1 | 291.4 | 510.4 |
| 87.5° | 14.1 | 20.1 | 24.1 | 32.1 | 36.2 | 38.2 | 44.2 | 56.3 | 66.3 | 80.4 | 136.6 |
| 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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CATALOG NUMBER: VTS-E11-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 |
| 2.5° | 3369.7 | 3365.7 | 3353.6 | 3345.6 | 3337.6 | 3329.5 | 3319.5 | 3311.4 | 3297.4 | 3287.3 | 3275.3 |
| 5° | 3494.3 | 3470.2 | 3454.1 | 3432.0 | 3428.0 | 3401.9 | 3375.7 | 3363.7 | 3339.6 | 3319.5 | 3295.4 |
| 7.5° | 3620.9 | 3592.8 | 3566.6 | 3548.5 | 3538.5 | 3502.3 | 3476.2 | 3446.1 | 3417.9 | 3391.8 | 3363.7 |
| 10° | 3769.6 | 3741.4 | 3713.3 | 3701.3 | 3683.2 | 3649.0 | 3626.9 | 3588.7 | 3560.6 | 3528.5 | 3490.3 |
| 12.5° | 3924.3 | 3904.2 | 3884.1 | 3868.0 | 3860.0 | 3843.9 | 3811.8 | 3779.6 | 3741.4 | 3709.3 | 3665.1 |
| 15° | 4060.9 | 4046.9 | 4038.8 | 4034.8 | 4034.8 | 4024.8 | 3994.6 | 3964.5 | 3924.3 | 3888.1 | 3839.9 |
| 17.5° | 4157.4 | 4151.4 | 4157.4 | 4163.4 | 4171.5 | 4163.4 | 4157.4 | 4123.2 | 4097.1 | 4052.9 | 4004.7 |
| 20° | 4213.7 | 4225.7 | 4255.8 | 4275.9 | 4294.0 | 4308.1 | 4314.1 | 4286.0 | 4251.8 | 4219.7 | 4187.5 |
| 22.5° | 4273.9 | 4308.1 | 4360.3 | 4390.5 | 4420.6 | 4470.8 | 4482.9 | 4462.8 | 4436.7 | 4416.6 | 4382.4 |
| 25° | 4374.4 | 4424.6 | 4515.1 | 4563.3 | 4605.5 | 4679.8 | 4689.9 | 4693.9 | 4687.9 | 4671.8 | 4629.6 |
| 27.5° | 4531.1 | 4629.6 | 4750.2 | 4812.4 | 4858.7 | 4955.1 | 4993.3 | 4993.3 | 4977.2 | 4995.3 | 4995.3 |
| 30° | 4804.4 | 4935.0 | 5091.7 | 5127.9 | 5200.3 | 5284.6 | 5346.9 | 5355.0 | 5357.0 | 5395.2 | 5451.4 |
| 32.5° | 5224.4 | 5348.9 | 5523.8 | 5563.9 | 5626.2 | 5706.6 | 5776.9 | 5768.9 | 5787.0 | 5869.4 | 5943.7 |
| 35° | 5835.2 | 5961.8 | 6076.3 | 6130.6 | 6158.7 | 6231.1 | 6257.2 | 6301.4 | 6355.6 | 6458.1 | 6448.1 |
| 37.5° | 6739.4 | 6852.0 | 6868.0 | 6902.2 | 6868.0 | 6882.1 | 6902.2 | 6954.4 | 7099.1 | 7191.5 | 7042.8 |
| 40° | 7828.5 | 8015.4 | 7997.3 | 7957.1 | 7880.8 | 7778.3 | 7814.4 | 7894.8 | 8051.5 | 7971.2 | 7571.3 |
| 42.5° | 8855.3 | 9048.2 | 9012.0 | 8965.8 | 8797.0 | 8758.8 | 8754.8 | 8821.1 | 8905.5 | 8676.5 | 7985.2 |
| 45° | 9866.0 | 10062.9 | 10000.6 | 9974.5 | 9862.0 | 9779.6 | 9847.9 | 9851.9 | 9829.8 | 9339.6 | 8346.9 |
| 47.5° | 10908.9 | 11089.7 | 11049.5 | 11071.6 | 10955.1 | 10900.8 | 10906.9 | 10878.7 | 10671.8 | 9902.2 | 8628.2 |
| 50° | 11750.8 | 11993.9 | 12018.0 | 11967.8 | 11905.5 | 11823.1 | 12034.1 | 11957.8 | 11497.6 | 10448.7 | 8899.5 |
| 52.5° | 12405.9 | 12733.4 | 12858.0 | 12825.8 | 12775.6 | 12785.6 | 13181.5 | 13267.9 | 12506.3 | 11137.9 | 9198.9 |
| 55° | 13181.5 | 13697.9 | 13900.8 | 14021.4 | 13969.1 | 14170.1 | 15076.3 | 15120.5 | 13908.9 | 12038.1 | 9588.7 |
| 57.5° | 14300.7 | 15040.1 | 15681.1 | 15851.9 | 16016.7 | 16669.7 | 18140.6 | 17692.5 | 15729.4 | 13400.5 | 10083.0 |
| 60° | 16002.6 | 17622.2 | 18663.0 | 19209.6 | 19595.4 | 20507.6 | 21906.2 | 20770.9 | 17997.9 | 15022.1 | 10703.9 |
| 62.5° | 18385.7 | 20752.8 | 22492.9 | 23041.5 | 23200.2 | 23724.6 | 24737.4 | 22565.2 | 19233.7 | 15749.4 | 10758.2 |
| 65° | 20160.0 | 22999.3 | 25083.0 | 25364.3 | 25175.4 | 25185.5 | 25450.7 | 22470.8 | 18773.6 | 15114.5 | 9825.8 |
| 67° | 20043.5 | 23222.3 | 25356.2 | 25726.0 | 25464.8 | 25121.2 | 24707.2 | 21190.8 | 17294.7 | 13784.3 | 8604.1 |
| 67.5° | 19864.6 | 23007.3 | 25237.7 | 25627.5 | 25388.4 | 24996.6 | 24391.8 | 20694.5 | 16834.5 | 13370.4 | 8355.0 |
| 70° | 17172.1 | 20292.6 | 23296.6 | 23845.2 | 23945.7 | 23588.0 | 21890.1 | 17449.4 | 13667.7 | 10876.7 | 6488.3 |
| 72.5° | 13366.3 | 16145.3 | 19117.2 | 19593.4 | 19979.2 | 18948.4 | 15932.3 | 12052.2 | 9962.5 | 7838.6 | 4697.9 |
| 75° | 8825.2 | 11652.3 | 13151.3 | 13221.7 | 12729.4 | 10820.5 | 7784.3 | 6036.1 | 5555.9 | 4607.5 | 2907.6 |
| 77.5° | 4722.0 | 6852.0 | 6894.2 | 6383.8 | 6150.7 | 4585.4 | 1860.7 | 1026.8 | 1143.3 | 1298.1 | 1157.4 |
| 80° | 3522.4 | 4364.4 | 5057.6 | 5437.4 | 5549.9 | 3932.3 | 962.5 | 544.5 | 476.2 | 434.0 | 428.0 |
| 82.5° | 3176.8 | 4215.7 | 4726.0 | 4933.0 | 4880.8 | 3235.1 | 540.5 | 365.7 | 303.4 | 329.5 | 375.8 |
| 85° | 1245.8 | 2250.5 | 2959.8 | 2865.4 | 2407.2 | 1205.6 | 295.4 | 196.9 | 196.9 | 285.3 | 369.7 |
| 87.5° | 255.2 | 462.2 | 626.9 | 598.8 | 538.5 | 233.1 | 144.7 | 118.6 | 120.6 | 231.1 | 349.6 |
| 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° | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 | 3285.3 |
| 2.5° | 3263.2 | 3251.2 | 3243.1 | 3235.1 | 3227.0 | 3223.0 | 3217.0 | 3217.0 | 3204.9 | 3200.9 | 3196.9 |
| 5° | 3277.3 | 3257.2 | 3243.1 | 3225.0 | 3211.0 | 3198.9 | 3182.8 | 3178.8 | 3164.8 | 3154.7 | 3150.7 |
| 7.5° | 3337.6 | 3307.4 | 3277.3 | 3255.2 | 3235.1 | 3209.0 | 3190.9 | 3174.8 | 3160.7 | 3150.7 | 3138.6 |
| 10° | 3452.1 | 3419.9 | 3377.8 | 3337.6 | 3311.4 | 3271.3 | 3243.1 | 3215.0 | 3198.9 | 3186.9 | 3170.8 |
| 12.5° | 3620.9 | 3574.7 | 3524.4 | 3476.2 | 3432.0 | 3379.8 | 3351.6 | 3317.5 | 3297.4 | 3287.3 | 3275.3 |
| 15° | 3793.7 | 3743.5 | 3681.2 | 3635.0 | 3584.7 | 3544.5 | 3518.4 | 3488.3 | 3472.2 | 3460.1 | 3452.1 |
| 17.5° | 3970.5 | 3912.2 | 3868.0 | 3821.8 | 3797.7 | 3767.6 | 3733.4 | 3695.2 | 3649.0 | 3620.9 | 3582.7 |
| 20° | 4151.4 | 4107.2 | 4081.0 | 4054.9 | 4026.8 | 3984.6 | 3916.3 | 3837.9 | 3751.5 | 3669.1 | 3590.7 |
| 22.5° | 4362.3 | 4336.2 | 4332.2 | 4308.1 | 4249.8 | 4149.4 | 4022.8 | 3876.1 | 3729.4 | 3592.8 | 3486.3 |
| 25° | 4659.7 | 4659.7 | 4639.6 | 4541.2 | 4404.5 | 4223.7 | 4010.7 | 3799.7 | 3604.8 | 3417.9 | 3277.3 |
| 27.5° | 5033.5 | 5019.4 | 4920.9 | 4718.0 | 4472.9 | 4191.5 | 3906.2 | 3639.0 | 3389.8 | 3184.9 | 3004.0 |
| 30° | 5445.4 | 5346.9 | 5136.0 | 4816.5 | 4448.7 | 4087.1 | 3737.4 | 3428.0 | 3134.6 | 2883.4 | 2670.5 |
| 32.5° | 5873.4 | 5634.3 | 5254.5 | 4816.5 | 4364.4 | 3930.3 | 3526.4 | 3146.7 | 2811.1 | 2529.8 | 2276.6 |
| 35° | 6261.2 | 5825.2 | 5282.6 | 4738.1 | 4199.6 | 3699.3 | 3231.1 | 2801.1 | 2399.2 | 2095.8 | 1818.5 |
| 37.5° | 6612.8 | 5951.8 | 5252.5 | 4585.4 | 3960.5 | 3373.7 | 2825.2 | 2351.0 | 1896.8 | 1603.5 | 1366.4 |
| 40° | 6841.9 | 5977.9 | 5127.9 | 4346.3 | 3618.9 | 2933.7 | 2326.9 | 1796.4 | 1436.7 | 1169.5 | 1010.7 |
| 42.5° | 6984.6 | 5927.6 | 4927.0 | 4018.7 | 3158.7 | 2381.1 | 1746.1 | 1288.0 | 1020.8 | 872.1 | 811.8 |
| 45° | 7064.9 | 5797.0 | 4629.6 | 3570.7 | 2602.1 | 1810.4 | 1239.8 | 930.3 | 785.7 | 733.4 | 713.3 |
| 47.5° | 7060.9 | 5586.1 | 4257.9 | 3052.2 | 1987.3 | 1261.9 | 878.1 | 725.4 | 685.2 | 669.1 | 665.1 |
| 50° | 7018.7 | 5326.8 | 3821.8 | 2489.6 | 1434.7 | 880.1 | 695.2 | 651.0 | 641.0 | 630.9 | 626.9 |
| 52.5° | 6960.5 | 5005.3 | 3339.6 | 1941.1 | 1018.8 | 703.3 | 630.9 | 618.9 | 610.8 | 600.8 | 596.8 |
| 55° | 6852.0 | 4609.5 | 2817.1 | 1460.8 | 797.7 | 635.0 | 608.8 | 604.8 | 594.8 | 580.7 | 572.7 |
| 57.5° | 6719.3 | 4207.6 | 2316.8 | 1141.3 | 705.3 | 618.9 | 604.8 | 598.8 | 584.7 | 568.7 | 552.6 |
| 60° | 6671.1 | 3876.1 | 1925.0 | 962.5 | 683.2 | 624.9 | 614.9 | 606.8 | 586.7 | 562.6 | 544.5 |
| 62.5° | 6369.7 | 3502.3 | 1643.7 | 892.2 | 695.2 | 651.0 | 647.0 | 635.0 | 604.8 | 576.7 | 548.6 |
| 65° | 5590.1 | 2961.8 | 1392.5 | 843.9 | 719.4 | 695.2 | 699.3 | 681.2 | 651.0 | 612.9 | 562.6 |
| 67° | 4728.0 | 2415.3 | 1159.4 | 797.7 | 737.4 | 741.5 | 755.5 | 741.5 | 703.3 | 649.0 | 580.7 |
| 67.5° | 4499.0 | 2276.6 | 1101.1 | 783.7 | 741.5 | 753.5 | 769.6 | 759.5 | 721.4 | 659.1 | 588.7 |
| 70° | 3343.6 | 1603.5 | 821.8 | 709.3 | 741.5 | 789.7 | 825.9 | 835.9 | 793.7 | 707.3 | 604.8 |
| 72.5° | 2355.0 | 1034.8 | 630.9 | 614.9 | 673.1 | 737.4 | 805.8 | 839.9 | 791.7 | 697.3 | 582.7 |
| 75° | 1414.6 | 647.0 | 512.4 | 522.4 | 566.6 | 633.0 | 687.2 | 701.3 | 641.0 | 580.7 | 504.4 |
| 77.5° | 655.1 | 430.0 | 401.9 | 415.9 | 458.1 | 488.3 | 488.3 | 460.1 | 413.9 | 377.8 | 361.7 |
| 80° | 385.8 | 351.6 | 349.6 | 375.8 | 403.9 | 381.8 | 347.6 | 309.4 | 285.3 | 273.3 | 267.2 |
| 82.5° | 361.7 | 375.8 | 399.9 | 405.9 | 383.8 | 329.5 | 287.3 | 249.2 | 237.1 | 231.1 | 225.0 |
| 85° | 426.0 | 456.1 | 415.9 | 383.8 | 339.6 | 277.3 | 225.0 | 192.9 | 186.9 | 180.8 | 172.8 |
| 87.5° | 393.8 | 375.8 | 327.5 | 281.3 | 233.1 | 168.8 | 122.6 | 110.5 | 118.6 | 116.5 | 112.5 |
| 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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| 52.5° | 592.8 | 594.8 | 592.8 | 588.7 | 588.7 |
| 55° | 564.6 | 562.6 | 566.6 | 560.6 | 560.6 |
| 57.5° | 542.5 | 540.5 | 540.5 | 538.5 | 538.5 |
| 60° | 530.5 | 522.4 | 520.4 | 520.4 | 522.4 |
| 62.5° | 524.4 | 510.4 | 508.4 | 508.4 | 510.4 |
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