

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: P158634

Luminaire Tested: **VTS-F12-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158634
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F12-LED-E1-SL4-7030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26247.4 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

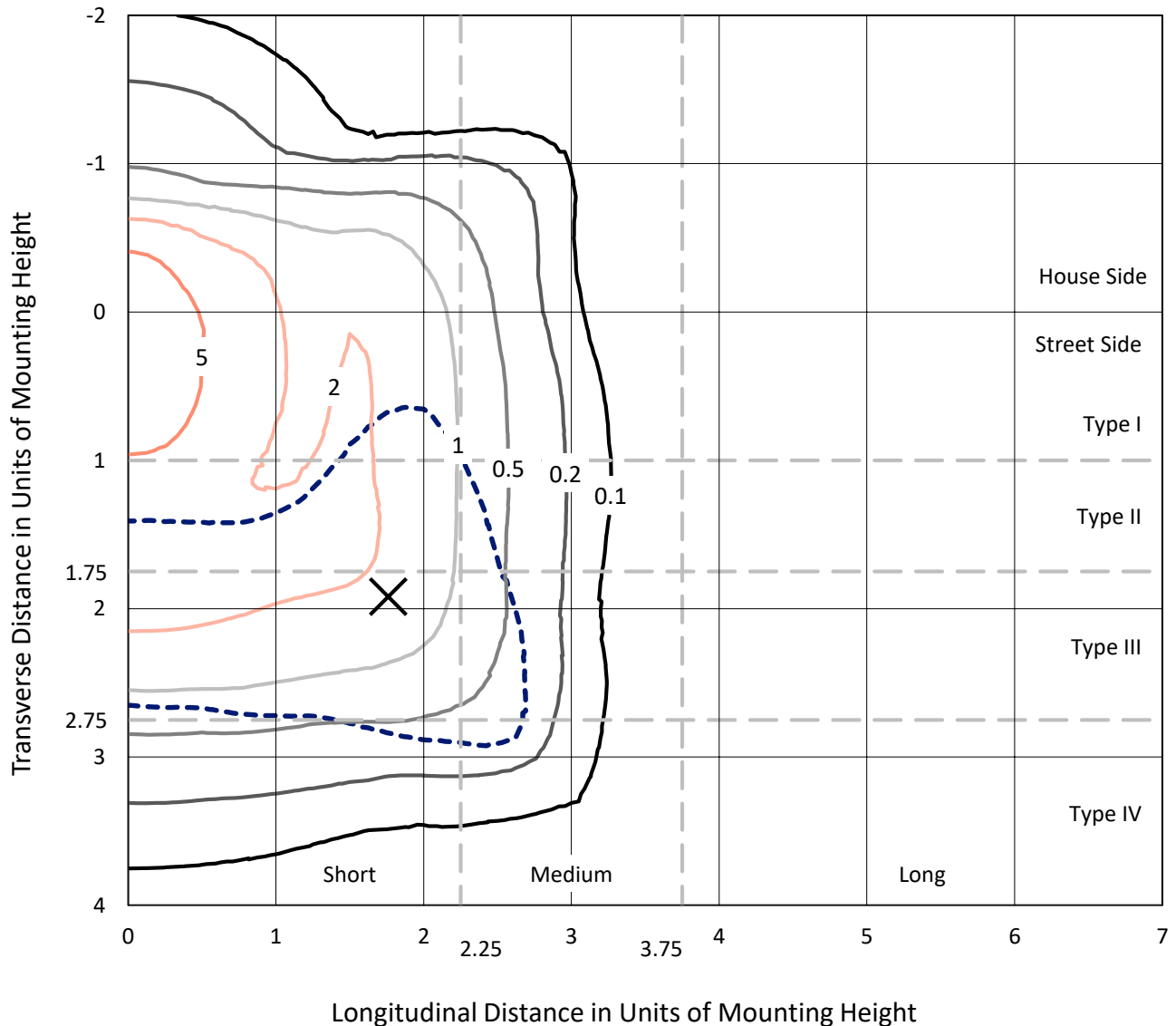
Input Watts (W): 306.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

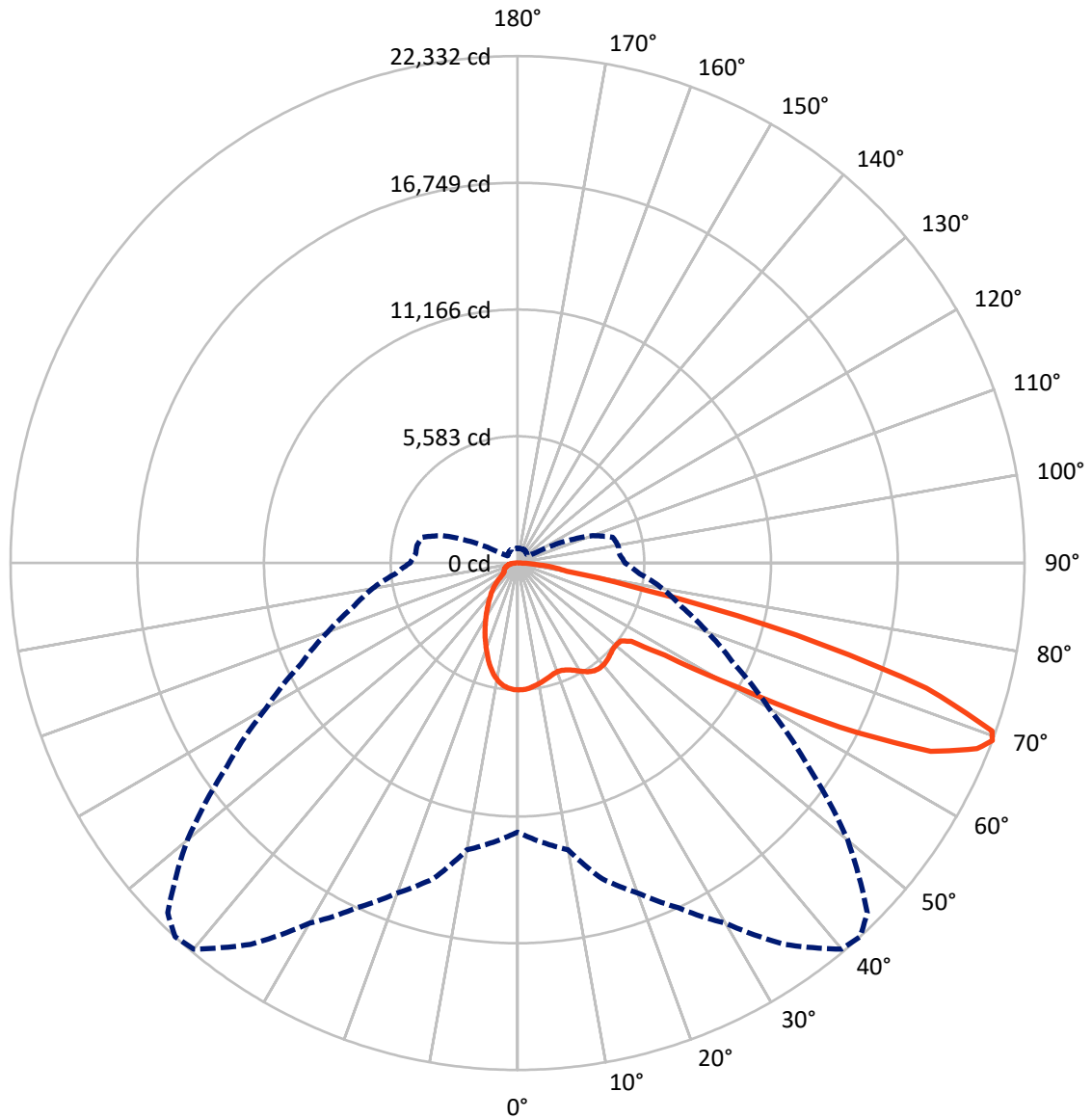


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5835.2 | 0.0 | 5835.2 |
| | % Fixture | 22.2 | 0.0 | 22.2 |
| Street Side | Lumens | 20412.2 | 0.0 | 20412.2 |
| | % Fixture | 77.8 | 0.0 | 77.8 |
| Total | Lumens | 26247.4 | 0.0 | 26247.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 520.3 | 2.0 |
| 10°-20° | 1402.4 | 5.3 |
| 20°-30° | 2045.0 | 7.8 |
| 30°-40° | 2606.9 | 9.9 |
| 40°-50° | 3033.2 | 11.6 |
| 50°-60° | 4615.1 | 17.6 |
| 60°-70° | 8152.3 | 31.1 |
| 70°-80° | 3364.1 | 12.8 |
| 80°-90° | 508.0 | 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° | 26247.4 | 100.0 |
| 0°-180° | 26247.4 | 100.0 |



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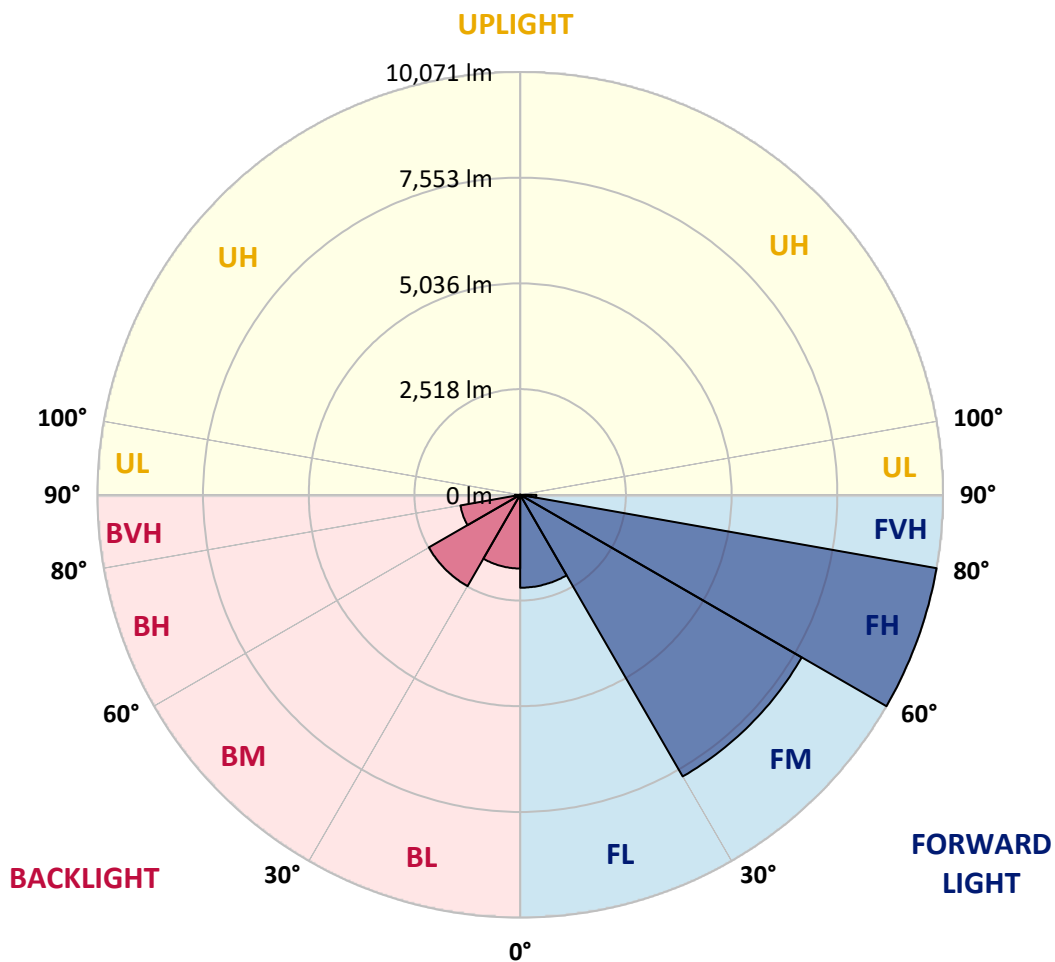
CATALOG NUMBER: VTS-F12-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2213.3 | 8.4 | | | |
| FM | (30°-60°) | 7743.7 | 29.5 | | | |
| FH | (60°-80°) | 10071.1 | 38.4 | | | G4/12000 |
| FVH | (80°-90°) | 384.1 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 1754.4 | 6.7 | B3/2500 | | |
| BM | (30°-60°) | 2511.6 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 1445.4 | 5.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 123.8 | 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° | 42.5° | 45° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 |
| 2.5° | 5571.7 | 5591.6 | 5584.4 | 5584.4 | 5589.8 | 5580.8 | 5580.8 | 5584.4 | 5575.3 | 5580.8 | 5578.9 |
| 5° | 5551.8 | 5562.7 | 5559.0 | 5559.0 | 5559.0 | 5551.8 | 5548.2 | 5546.4 | 5533.7 | 5533.7 | 5528.3 |
| 7.5° | 5508.4 | 5512.0 | 5517.4 | 5510.2 | 5508.4 | 5506.6 | 5493.9 | 5486.7 | 5472.2 | 5459.5 | 5463.1 |
| 10° | 5450.5 | 5448.7 | 5457.7 | 5452.3 | 5445.0 | 5439.6 | 5428.8 | 5416.1 | 5399.8 | 5383.5 | 5381.7 |
| 12.5° | 5385.3 | 5383.5 | 5390.8 | 5387.1 | 5381.7 | 5370.8 | 5361.8 | 5340.1 | 5314.7 | 5294.8 | 5293.0 |
| 15° | 5343.7 | 5338.3 | 5345.5 | 5338.3 | 5329.2 | 5318.4 | 5302.1 | 5274.9 | 5229.7 | 5209.8 | 5193.5 |
| 17.5° | 5383.5 | 5374.5 | 5378.1 | 5369.0 | 5356.4 | 5327.4 | 5289.4 | 5231.5 | 5166.4 | 5132.0 | 5106.6 |
| 20° | 5522.9 | 5506.6 | 5510.2 | 5501.1 | 5472.2 | 5434.2 | 5361.8 | 5260.5 | 5150.1 | 5094.0 | 5054.2 |
| 22.5° | 5721.9 | 5709.2 | 5714.7 | 5705.6 | 5676.7 | 5618.8 | 5510.2 | 5365.4 | 5208.0 | 5126.6 | 5063.2 |
| 25° | 6024.1 | 6035.0 | 6038.6 | 5997.0 | 5980.7 | 5873.9 | 5723.7 | 5522.9 | 5312.9 | 5217.0 | 5130.2 |
| 27.5° | 6364.3 | 6364.3 | 6380.6 | 6364.3 | 6331.7 | 6206.9 | 5995.2 | 5752.7 | 5483.0 | 5352.8 | 5247.8 |
| 30° | 6695.5 | 6691.8 | 6722.6 | 6719.0 | 6666.5 | 6525.4 | 6284.7 | 5989.7 | 5682.1 | 5535.5 | 5401.6 |
| 32.5° | 7046.5 | 7057.4 | 7077.3 | 7070.0 | 7001.3 | 6805.8 | 6516.3 | 6196.0 | 5872.1 | 5711.0 | 5560.9 |
| 35° | 7426.5 | 7432.0 | 7439.2 | 7435.6 | 7296.2 | 7050.1 | 6686.4 | 6328.1 | 5991.5 | 5832.3 | 5676.7 |
| 37.5° | 7806.5 | 7801.1 | 7792.1 | 7714.3 | 7555.0 | 7213.0 | 6789.6 | 6404.1 | 6051.2 | 5879.3 | 5718.3 |
| 40° | 8146.7 | 8116.0 | 8087.0 | 7965.8 | 7721.5 | 7305.3 | 6829.4 | 6422.2 | 6045.8 | 5868.5 | 5711.0 |
| 42.5° | 8333.1 | 8298.8 | 8239.0 | 8087.0 | 7790.3 | 7314.3 | 6802.2 | 6367.9 | 5989.7 | 5814.2 | 5658.6 |
| 45° | 8367.5 | 8342.2 | 8284.3 | 8114.2 | 7774.0 | 7256.4 | 6719.0 | 6279.3 | 5906.5 | 5731.0 | 5584.4 |
| 47.5° | 8286.1 | 8266.2 | 8210.1 | 8041.8 | 7703.4 | 7169.6 | 6623.1 | 6185.2 | 5825.1 | 5660.4 | 5519.2 |
| 50° | 8161.2 | 8143.1 | 8099.7 | 7945.9 | 7623.8 | 7109.9 | 6574.2 | 6136.3 | 5797.9 | 5647.7 | 5517.4 |
| 52.5° | 8363.9 | 8378.4 | 8251.7 | 8083.4 | 7708.8 | 7162.3 | 6628.5 | 6187.0 | 5846.8 | 5698.4 | 5562.7 |
| 55° | 11514.4 | 11494.5 | 10732.6 | 10093.9 | 8952.0 | 7916.9 | 7144.2 | 6588.7 | 6225.0 | 6076.6 | 5949.9 |
| 57.5° | 14961.6 | 14892.9 | 14579.8 | 13982.7 | 12755.8 | 11118.1 | 9628.8 | 8362.1 | 7862.6 | 7649.1 | 7663.6 |
| 60° | 16087.2 | 16112.5 | 16045.6 | 15833.9 | 15394.1 | 14541.8 | 13409.0 | 12457.2 | 11519.8 | 11062.0 | 11114.5 |
| 62.5° | 16711.5 | 16756.8 | 16814.7 | 16767.6 | 16624.7 | 16427.4 | 16284.4 | 16371.3 | 16241.0 | 15911.7 | 15649.3 |
| 65° | 16798.4 | 16890.7 | 17082.5 | 17234.5 | 17308.7 | 17495.1 | 17933.0 | 18982.5 | 19941.6 | 20005.0 | 19543.5 |
| 67.5° | 15079.3 | 15334.4 | 15750.6 | 16454.6 | 17057.1 | 17719.4 | 18776.2 | 20372.3 | 21787.4 | 21834.4 | 21403.8 |
| 69° | 11856.4 | 12346.8 | 12833.6 | 14406.1 | 15464.7 | 16762.2 | 18325.7 | 20506.2 | 22201.8 | 22332.1 | 21789.2 |
| 70° | 9500.3 | 9791.7 | 10211.5 | 11791.3 | 13372.8 | 15026.8 | 17292.4 | 20064.7 | 21917.7 | 22180.1 | 21581.1 |
| 72.5° | 5703.8 | 5816.0 | 5960.8 | 6527.2 | 7341.5 | 8814.5 | 11818.4 | 16358.6 | 18488.5 | 18839.6 | 18077.7 |
| 75° | 3687.9 | 3680.7 | 3693.4 | 3850.8 | 3897.8 | 4180.1 | 5126.6 | 8416.4 | 12060.9 | 12697.9 | 11785.8 |
| 77.5° | 2777.7 | 2803.0 | 2763.2 | 2777.7 | 2765.0 | 2841.0 | 2870.0 | 3013.0 | 4761.0 | 5864.9 | 5244.2 |
| 80° | 2452.0 | 2464.7 | 2466.5 | 2459.2 | 2370.6 | 2363.3 | 2410.4 | 2328.9 | 2164.3 | 2196.8 | 2104.5 |
| 82.5° | 1398.8 | 1397.0 | 1413.3 | 1536.3 | 1587.0 | 1753.5 | 1822.3 | 1860.3 | 1717.3 | 1610.5 | 1456.7 |
| 85° | 906.6 | 913.8 | 931.9 | 969.9 | 931.9 | 946.4 | 930.1 | 962.7 | 883.1 | 819.7 | 732.9 |
| 87.5° | 371.0 | 371.0 | 394.5 | 428.9 | 399.9 | 392.7 | 336.6 | 333.0 | 282.3 | 255.2 | 199.1 |
| 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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CATALOG NUMBER: VTS-F12-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 |
| 2.5° | 5568.1 | 5578.9 | 5573.5 | 5580.8 | 5575.3 | 5575.3 | 5568.1 | 5566.3 | 5571.7 | 5564.5 | 5566.3 |
| 5° | 5519.2 | 5521.0 | 5512.0 | 5515.6 | 5504.8 | 5501.1 | 5495.7 | 5481.2 | 5490.3 | 5481.2 | 5484.9 |
| 7.5° | 5448.7 | 5443.2 | 5430.6 | 5412.5 | 5399.8 | 5394.4 | 5383.5 | 5363.6 | 5367.2 | 5350.9 | 5360.0 |
| 10° | 5358.2 | 5340.1 | 5318.4 | 5291.2 | 5273.1 | 5256.8 | 5233.3 | 5209.8 | 5197.1 | 5182.6 | 5180.8 |
| 12.5° | 5256.8 | 5235.1 | 5206.2 | 5164.6 | 5124.7 | 5097.6 | 5061.4 | 5019.8 | 5007.1 | 4983.6 | 4970.9 |
| 15° | 5146.5 | 5112.1 | 5077.7 | 5030.6 | 4987.2 | 4945.6 | 4896.7 | 4844.3 | 4809.9 | 4773.7 | 4746.5 |
| 17.5° | 5046.9 | 5007.1 | 4961.9 | 4916.6 | 4869.6 | 4818.9 | 4757.4 | 4692.3 | 4641.6 | 4574.6 | 4520.3 |
| 20° | 4969.1 | 4918.5 | 4873.2 | 4826.2 | 4773.7 | 4712.2 | 4638.0 | 4554.7 | 4469.7 | 4395.5 | 4332.1 |
| 22.5° | 4938.4 | 4858.7 | 4804.4 | 4757.4 | 4704.9 | 4632.5 | 4542.1 | 4444.3 | 4341.2 | 4238.0 | 4154.8 |
| 25° | 4963.7 | 4846.1 | 4761.0 | 4704.9 | 4659.7 | 4585.5 | 4484.1 | 4364.7 | 4245.3 | 4122.2 | 4010.0 |
| 27.5° | 5037.9 | 4887.7 | 4764.6 | 4676.0 | 4623.5 | 4549.3 | 4442.5 | 4315.9 | 4174.7 | 4037.2 | 3899.7 |
| 30° | 5153.7 | 4958.3 | 4802.6 | 4677.8 | 4596.3 | 4511.3 | 4399.1 | 4252.5 | 4109.6 | 3952.1 | 3801.9 |
| 32.5° | 5265.9 | 5032.5 | 4846.1 | 4685.0 | 4560.2 | 4449.8 | 4324.9 | 4180.1 | 4026.3 | 3861.7 | 3706.0 |
| 35° | 5345.5 | 5081.3 | 4862.4 | 4668.7 | 4504.1 | 4366.5 | 4232.6 | 4087.9 | 3937.7 | 3769.4 | 3610.1 |
| 37.5° | 5383.5 | 5108.5 | 4864.2 | 4625.3 | 4429.9 | 4277.9 | 4134.9 | 3991.9 | 3850.8 | 3691.6 | 3541.4 |
| 40° | 5381.7 | 5106.6 | 4838.8 | 4569.2 | 4341.2 | 4180.1 | 4039.0 | 3899.7 | 3767.6 | 3628.2 | 3492.5 |
| 42.5° | 5341.9 | 5077.7 | 4802.6 | 4514.9 | 4277.9 | 4098.7 | 3952.1 | 3818.2 | 3706.0 | 3583.0 | 3469.0 |
| 45° | 5280.4 | 5028.8 | 4764.6 | 4489.6 | 4259.8 | 4080.6 | 3925.0 | 3794.7 | 3695.2 | 3583.0 | 3485.3 |
| 47.5° | 5233.3 | 5001.7 | 4770.1 | 4534.8 | 4315.9 | 4129.5 | 3964.8 | 3821.8 | 3736.8 | 3646.3 | 3577.5 |
| 50° | 5240.6 | 5014.4 | 4788.2 | 4562.0 | 4355.7 | 4167.5 | 4008.2 | 3877.9 | 3816.4 | 3792.9 | 3776.6 |
| 52.5° | 5278.6 | 5034.3 | 4842.4 | 4706.7 | 4636.2 | 4495.0 | 4400.9 | 4319.5 | 4364.7 | 4276.0 | 4171.1 |
| 55° | 5763.5 | 5683.9 | 5870.3 | 6045.8 | 6268.4 | 6351.6 | 6272.0 | 6257.5 | 6329.9 | 6029.5 | 5340.1 |
| 57.5° | 7766.7 | 7973.0 | 8260.8 | 8412.8 | 8597.3 | 8548.5 | 8363.9 | 8210.1 | 8029.1 | 7678.1 | 6818.5 |
| 60° | 11174.2 | 11018.6 | 10888.3 | 10520.9 | 10220.5 | 9869.5 | 9478.6 | 9143.8 | 8823.5 | 8318.7 | 7388.5 |
| 62.5° | 14684.8 | 13604.5 | 12701.5 | 11829.3 | 11127.1 | 10544.4 | 9978.0 | 9475.0 | 8990.0 | 8286.1 | 7285.4 |
| 65° | 17721.3 | 15446.6 | 13751.0 | 12471.7 | 11445.6 | 10560.7 | 9833.3 | 9138.4 | 8521.3 | 7696.2 | 6706.3 |
| 67.5° | 19085.7 | 16235.6 | 13769.1 | 11936.0 | 10515.5 | 9313.9 | 8372.9 | 7323.4 | 6632.1 | 6103.7 | 5546.4 |
| 69° | 18984.3 | 15633.0 | 12786.5 | 10530.0 | 8897.7 | 7497.1 | 6487.4 | 5392.6 | 4730.3 | 4505.9 | 4493.2 |
| 70° | 18503.0 | 14612.4 | 11639.2 | 9388.1 | 7520.6 | 6129.1 | 5160.9 | 4178.3 | 3561.3 | 3407.4 | 3680.7 |
| 72.5° | 15106.4 | 10325.5 | 7294.4 | 5569.9 | 4283.3 | 3385.7 | 2761.4 | 2191.4 | 1749.9 | 1516.4 | 1567.1 |
| 75° | 8532.2 | 4780.9 | 3090.8 | 2336.2 | 1974.3 | 1632.2 | 1400.6 | 1194.3 | 1080.3 | 877.6 | 694.9 |
| 77.5° | 3101.6 | 2052.1 | 1632.2 | 1411.5 | 1000.7 | 689.5 | 577.3 | 504.9 | 457.8 | 457.8 | 436.1 |
| 80° | 1961.6 | 1545.4 | 1078.5 | 738.3 | 546.5 | 475.9 | 416.2 | 365.5 | 336.6 | 329.3 | 336.6 |
| 82.5° | 1225.1 | 946.4 | 604.4 | 463.3 | 389.1 | 349.2 | 304.0 | 266.0 | 242.5 | 237.1 | 247.9 |
| 85° | 604.4 | 468.7 | 367.3 | 327.5 | 307.6 | 285.9 | 251.5 | 215.3 | 208.1 | 222.6 | 260.6 |
| 87.5° | 181.0 | 161.1 | 132.1 | 137.5 | 144.8 | 141.1 | 112.2 | 97.7 | 92.3 | 121.2 | 190.0 |
| 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-F12-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 | 5589.8 |
| 2.5° | 5569.9 | 5568.1 | 5571.7 | 5566.3 | 5569.9 | 5571.7 | 5568.1 | 5584.4 | 5573.5 | 5575.3 | 5582.6 |
| 5° | 5488.5 | 5484.9 | 5499.3 | 5495.7 | 5502.9 | 5510.2 | 5506.6 | 5530.1 | 5521.0 | 5528.3 | 5542.8 |
| 7.5° | 5352.8 | 5360.0 | 5361.8 | 5361.8 | 5376.3 | 5399.8 | 5405.2 | 5419.7 | 5419.7 | 5439.6 | 5454.1 |
| 10° | 5171.8 | 5173.6 | 5184.5 | 5182.6 | 5200.7 | 5226.1 | 5229.7 | 5255.0 | 5264.1 | 5296.7 | 5316.6 |
| 12.5° | 4961.9 | 4952.8 | 4951.0 | 4949.2 | 4972.7 | 4999.9 | 5003.5 | 5046.9 | 5065.0 | 5094.0 | 5126.6 |
| 15° | 4726.6 | 4703.1 | 4695.9 | 4710.3 | 4704.9 | 4721.2 | 4737.5 | 4761.0 | 4786.4 | 4844.3 | 4873.2 |
| 17.5° | 4496.8 | 4449.8 | 4437.1 | 4420.8 | 4404.5 | 4404.5 | 4411.8 | 4440.7 | 4493.2 | 4524.0 | 4589.1 |
| 20° | 4261.6 | 4205.5 | 4160.2 | 4116.8 | 4078.8 | 4064.3 | 4066.1 | 4102.3 | 4140.3 | 4191.0 | 4252.5 |
| 22.5° | 4064.3 | 3979.3 | 3901.5 | 3843.6 | 3765.7 | 3763.9 | 3753.1 | 3763.9 | 3805.6 | 3818.2 | 3852.6 |
| 25° | 3894.2 | 3780.2 | 3675.3 | 3581.2 | 3505.2 | 3465.4 | 3454.5 | 3450.9 | 3431.0 | 3425.5 | 3400.2 |
| 27.5° | 3762.1 | 3624.6 | 3488.9 | 3374.9 | 3280.8 | 3226.5 | 3157.7 | 3108.9 | 3038.3 | 3020.2 | 2975.0 |
| 30° | 3653.6 | 3505.2 | 3356.8 | 3208.4 | 3101.6 | 3003.9 | 2888.1 | 2803.0 | 2694.5 | 2623.9 | 2562.4 |
| 32.5° | 3548.6 | 3398.4 | 3248.2 | 3101.6 | 2937.0 | 2785.0 | 2632.9 | 2500.8 | 2379.6 | 2271.0 | 2180.5 |
| 35° | 3461.7 | 3318.8 | 3166.8 | 2989.4 | 2779.5 | 2560.6 | 2377.8 | 2227.6 | 2061.1 | 1947.1 | 1833.1 |
| 37.5° | 3405.6 | 3275.3 | 3123.3 | 2879.0 | 2609.4 | 2374.2 | 2166.1 | 1983.3 | 1813.2 | 1641.3 | 1512.8 |
| 40° | 3380.3 | 3266.3 | 3076.3 | 2777.7 | 2461.0 | 2200.5 | 1970.6 | 1768.0 | 1550.8 | 1357.2 | 1219.7 |
| 42.5° | 3378.5 | 3262.7 | 3011.1 | 2665.5 | 2338.0 | 2053.9 | 1798.7 | 1556.2 | 1315.6 | 1116.5 | 980.8 |
| 45° | 3411.1 | 3257.3 | 2942.4 | 2571.4 | 2229.4 | 1932.6 | 1628.6 | 1333.7 | 1064.0 | 915.6 | 843.3 |
| 47.5° | 3497.9 | 3266.3 | 2886.3 | 2484.6 | 2126.3 | 1786.1 | 1433.2 | 1089.4 | 866.8 | 798.0 | 798.0 |
| 50° | 3653.6 | 3318.8 | 2871.8 | 2423.0 | 2023.1 | 1616.0 | 1194.3 | 879.5 | 767.3 | 767.3 | 789.0 |
| 52.5° | 3892.4 | 3429.2 | 2897.1 | 2379.6 | 1894.6 | 1391.6 | 941.0 | 758.2 | 736.5 | 756.4 | 785.4 |
| 55° | 4442.5 | 3624.6 | 2931.5 | 2305.4 | 1699.2 | 1103.8 | 776.3 | 716.6 | 725.6 | 749.2 | 776.3 |
| 57.5° | 5452.3 | 4042.6 | 2967.7 | 2142.5 | 1384.3 | 850.5 | 703.9 | 700.3 | 716.6 | 738.3 | 761.8 |
| 60° | 6116.4 | 4574.6 | 3060.0 | 1896.4 | 1047.7 | 702.1 | 667.7 | 689.5 | 709.4 | 727.5 | 745.5 |
| 62.5° | 6116.4 | 4724.8 | 3128.8 | 1621.4 | 787.2 | 638.8 | 644.2 | 678.6 | 702.1 | 711.2 | 722.0 |
| 65° | 5725.5 | 4449.8 | 2895.3 | 1321.0 | 640.6 | 602.6 | 622.5 | 656.9 | 678.6 | 685.8 | 694.9 |
| 67.5° | 5003.5 | 3930.4 | 2439.3 | 995.3 | 571.8 | 571.8 | 597.2 | 622.5 | 640.6 | 655.1 | 669.5 |
| 69° | 4350.2 | 3526.9 | 2148.0 | 843.3 | 544.7 | 548.3 | 573.6 | 595.4 | 617.1 | 635.2 | 653.3 |
| 70° | 3879.7 | 3224.7 | 1945.3 | 765.5 | 528.4 | 530.2 | 555.5 | 579.1 | 599.0 | 618.9 | 640.6 |
| 72.5° | 2077.4 | 2227.6 | 1478.4 | 627.9 | 486.8 | 492.2 | 515.7 | 537.4 | 555.5 | 575.4 | 595.4 |
| 75° | 707.5 | 957.3 | 941.0 | 513.9 | 439.7 | 454.2 | 468.7 | 488.6 | 512.1 | 524.8 | 535.6 |
| 77.5° | 414.4 | 428.9 | 501.3 | 418.0 | 396.3 | 403.5 | 419.8 | 436.1 | 456.0 | 468.7 | 477.7 |
| 80° | 347.4 | 345.6 | 347.4 | 340.2 | 345.6 | 361.9 | 372.8 | 394.5 | 412.6 | 416.2 | 414.4 |
| 82.5° | 282.3 | 296.8 | 298.6 | 295.0 | 311.2 | 323.9 | 333.0 | 345.6 | 343.8 | 347.4 | 354.7 |
| 85° | 251.5 | 249.7 | 262.4 | 264.2 | 264.2 | 255.2 | 257.0 | 257.0 | 257.0 | 262.4 | 264.2 |
| 87.5° | 251.5 | 209.9 | 162.9 | 146.6 | 153.8 | 144.8 | 137.5 | 135.7 | 150.2 | 164.7 | 161.1 |
| 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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| 7.5° | 5461.3 | 5474.0 | 5483.0 | 5492.1 | 5486.7 |
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| 47.5° | 808.9 | 819.7 | 832.4 | 843.3 | 846.9 |
| 50° | 808.9 | 819.7 | 828.8 | 839.6 | 843.3 |
| 52.5° | 805.3 | 814.3 | 817.9 | 825.2 | 828.8 |
| 55° | 794.4 | 799.8 | 799.8 | 803.5 | 807.1 |
| 57.5° | 776.3 | 779.9 | 774.5 | 778.1 | 787.2 |
| 60° | 758.2 | 761.8 | 752.8 | 761.8 | 767.3 |
| 62.5° | 738.3 | 740.1 | 736.5 | 743.7 | 743.7 |
| 65° | 705.7 | 702.1 | 707.5 | 713.0 | 714.8 |
| 67.5° | 673.2 | 664.1 | 669.5 | 671.4 | 675.0 |
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| 77.5° | 492.2 | 501.3 | 513.9 | 539.3 | 562.8 |
| 80° | 425.3 | 430.7 | 432.5 | 441.5 | 439.7 |
| 82.5° | 345.6 | 340.2 | 336.6 | 333.0 | 331.2 |
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