

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: P159737

Luminaire Tested: **VTS-F12-LED-E1-T4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159737
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-F12-LED-E1-T4-7060
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30254.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

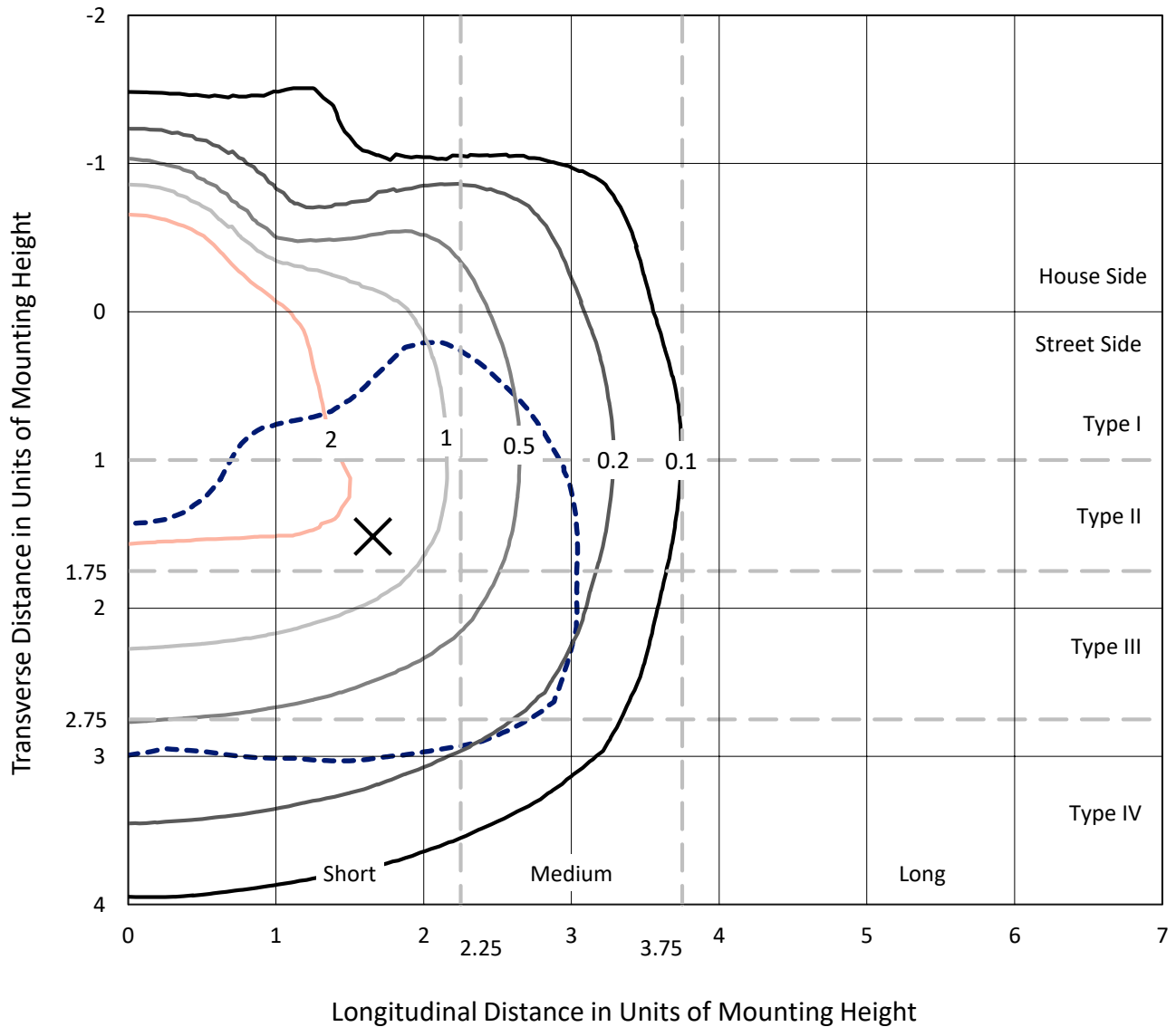
Input Watts (W): 306.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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CATALOG NUMBER: VTS-F12-LED-E1-T4-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

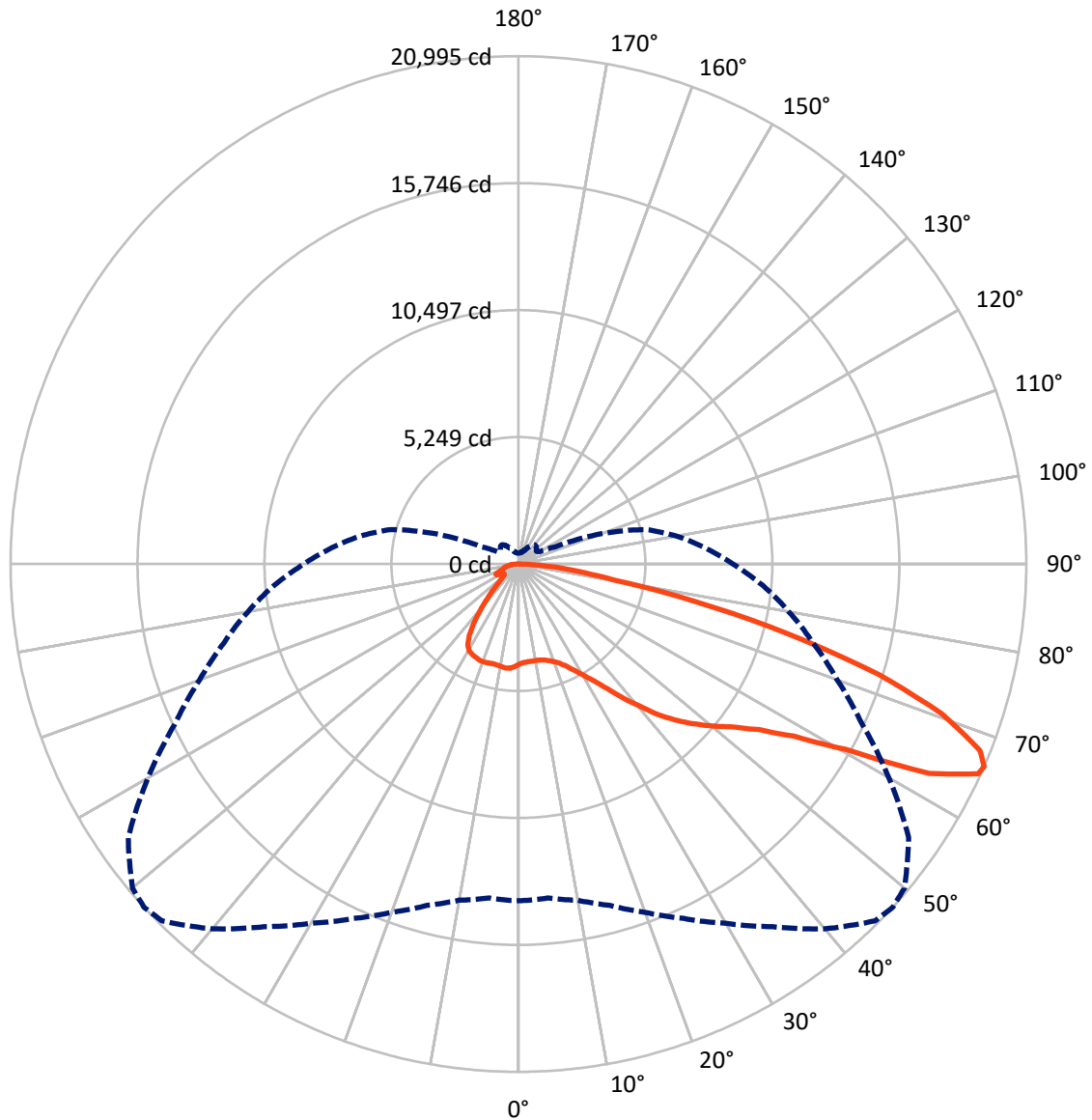


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6264.0 | 0.0 | 6264.0 |
| | % Fixture | 20.7 | 0.0 | 20.7 |
| Street Side | Lumens | 23990.4 | 0.0 | 23990.4 |
| | % Fixture | 79.3 | 0.0 | 79.3 |
| Total | Lumens | 30254.4 | 0.0 | 30254.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 399.0 | 1.3 |
| 10°-20° | 1196.3 | 4.0 |
| 20°-30° | 2041.3 | 6.7 |
| 30°-40° | 3080.9 | 10.2 |
| 40°-50° | 4004.5 | 13.2 |
| 50°-60° | 5493.9 | 18.2 |
| 60°-70° | 8451.3 | 27.9 |
| 70°-80° | 4885.4 | 16.1 |
| 80°-90° | 701.8 | 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° | 30254.4 | 100.0 |
| 0°-180° | 30254.4 | 100.0 |



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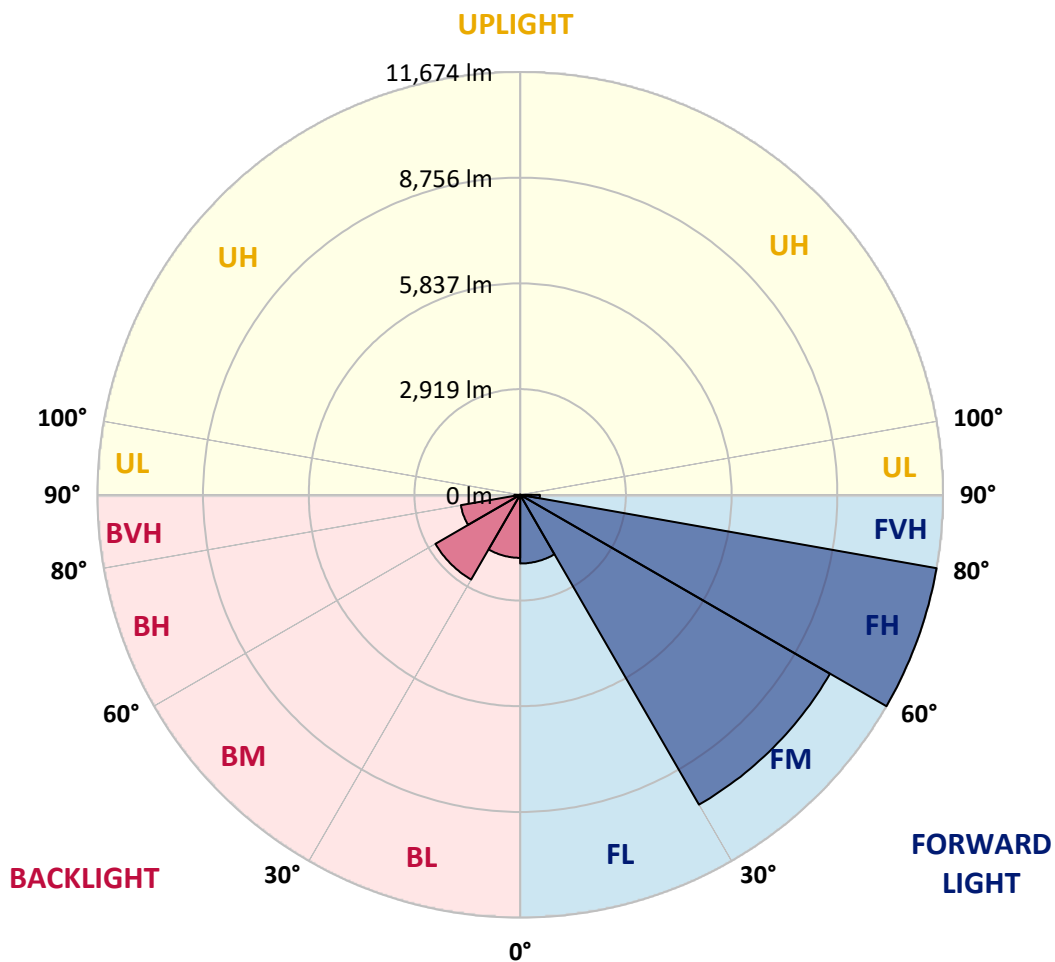
CATALOG NUMBER: VTS-F12-LED-E1-T4-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1896.4 | 6.3 | | | |
| FM (30°-60°) | 9876.8 | 32.6 | | | |
| FH (60°-80°) | 11674.2 | 38.6 | | | G4/12000 |
| FVH (80°-90°) | 543.1 | 1.8 | | | G4/750 |
| BL (0°-30°) | 1740.2 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2702.6 | 8.9 | B3/5000 | | |
| BH (60°-80°) | 1662.5 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 158.7 | 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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CATALOG NUMBER: VTS-F12-LED-E1-T4-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 |
| 2.5° | 4033.4 | 4035.5 | 4037.5 | 4037.5 | 4043.6 | 4043.6 | 4053.8 | 4059.9 | 4061.9 | 4074.1 | 4082.2 |
| 5° | 3958.2 | 3956.2 | 3958.2 | 3962.3 | 3972.4 | 3980.6 | 4000.9 | 4015.1 | 4027.3 | 4047.7 | 4057.8 |
| 7.5° | 3925.7 | 3929.8 | 3933.8 | 3935.9 | 3944.0 | 3964.3 | 3982.6 | 3996.8 | 4021.2 | 4045.6 | 4055.8 |
| 10° | 3968.4 | 3974.5 | 3968.4 | 3972.4 | 3972.4 | 3990.7 | 3998.9 | 4009.0 | 4027.3 | 4049.7 | 4055.8 |
| 12.5° | 4068.0 | 4080.2 | 4068.0 | 4057.8 | 4049.7 | 4066.0 | 4061.9 | 4053.8 | 4063.9 | 4070.0 | 4070.0 |
| 15° | 4232.7 | 4232.7 | 4224.5 | 4210.3 | 4190.0 | 4192.0 | 4173.7 | 4155.4 | 4147.3 | 4133.1 | 4122.9 |
| 17.5° | 4393.3 | 4389.2 | 4370.9 | 4352.6 | 4338.4 | 4332.3 | 4305.9 | 4281.5 | 4253.0 | 4230.6 | 4206.2 |
| 20° | 4549.8 | 4566.1 | 4543.7 | 4517.3 | 4494.9 | 4480.7 | 4460.4 | 4411.6 | 4377.0 | 4340.4 | 4316.0 |
| 22.5° | 4820.2 | 4806.0 | 4781.6 | 4742.9 | 4720.6 | 4696.2 | 4653.5 | 4600.6 | 4547.8 | 4503.1 | 4472.6 |
| 25° | 5098.7 | 5084.5 | 5049.9 | 5021.5 | 4988.9 | 4968.6 | 4921.8 | 4856.8 | 4806.0 | 4736.8 | 4696.2 |
| 27.5° | 5397.6 | 5385.4 | 5344.7 | 5322.3 | 5300.0 | 5275.6 | 5234.9 | 5167.8 | 5121.1 | 5041.8 | 4999.1 |
| 30° | 5735.0 | 5733.0 | 5678.1 | 5674.1 | 5641.5 | 5615.1 | 5586.6 | 5529.7 | 5483.0 | 5403.7 | 5352.8 |
| 32.5° | 6094.9 | 6086.7 | 6048.1 | 6035.9 | 6058.3 | 6040.0 | 5999.3 | 5940.4 | 5879.4 | 5832.6 | 5775.7 |
| 35° | 6607.2 | 6593.0 | 6570.6 | 6580.8 | 6595.0 | 6645.8 | 6582.8 | 6532.0 | 6458.8 | 6397.8 | 6318.5 |
| 37.5° | 6981.3 | 6960.9 | 6987.4 | 7044.3 | 7125.6 | 7164.2 | 7219.1 | 7221.2 | 7186.6 | 7105.3 | 7036.1 |
| 40° | 7324.8 | 7316.7 | 7377.7 | 7457.0 | 7607.4 | 7717.2 | 7820.9 | 7871.7 | 7883.9 | 7831.0 | 7727.4 |
| 42.5° | 7615.5 | 7639.9 | 7721.3 | 7843.2 | 8054.7 | 8221.4 | 8414.5 | 8534.5 | 8609.7 | 8581.2 | 8534.5 |
| 45° | 7961.2 | 7973.4 | 8073.0 | 8227.5 | 8428.7 | 8705.2 | 8959.3 | 9162.6 | 9294.8 | 9292.8 | 9239.9 |
| 47.5° | 8394.2 | 8396.2 | 8481.6 | 8662.5 | 8878.0 | 9158.6 | 9479.8 | 9750.2 | 9925.0 | 9933.1 | 9892.5 |
| 50° | 8908.5 | 8904.5 | 8998.0 | 9168.7 | 9398.5 | 9668.9 | 10010.4 | 10347.9 | 10591.8 | 10591.8 | 10532.9 |
| 52.5° | 9571.3 | 9563.1 | 9614.0 | 9764.4 | 9986.0 | 10270.6 | 10610.1 | 11000.5 | 11264.8 | 11321.7 | 11193.6 |
| 55° | 10455.6 | 10467.8 | 10480.0 | 10612.2 | 10801.2 | 11026.9 | 11417.2 | 11777.1 | 12130.8 | 12163.3 | 12088.1 |
| 57.5° | 11478.2 | 11437.6 | 11525.0 | 11740.5 | 11956.0 | 12238.5 | 12515.0 | 12939.9 | 13358.7 | 13429.9 | 13419.7 |
| 60° | 13076.1 | 13023.3 | 13112.7 | 13387.2 | 13625.0 | 14070.3 | 14543.9 | 15092.9 | 15588.9 | 15735.3 | 15558.4 |
| 62.5° | 14546.0 | 14611.0 | 14733.0 | 15052.2 | 15397.8 | 15991.4 | 16703.0 | 17644.2 | 18585.5 | 19097.8 | 19061.2 |
| 65° | 14413.8 | 14352.8 | 14586.6 | 15021.7 | 15647.9 | 16404.1 | 17288.5 | 18422.9 | 19778.9 | 20807.6 | 20899.0 |
| 66° | 13923.9 | 13860.9 | 14113.0 | 14611.0 | 15326.6 | 16168.3 | 17150.2 | 18305.0 | 19691.5 | 20854.3 | 20994.6 |
| 67.5° | 13114.8 | 13051.7 | 13336.4 | 13789.7 | 14527.7 | 15586.9 | 16648.1 | 17910.6 | 19352.0 | 20466.0 | 20579.9 |
| 70° | 11553.4 | 11468.0 | 11689.6 | 12202.0 | 12799.7 | 13824.3 | 14834.7 | 16172.4 | 17652.4 | 18542.8 | 18585.5 |
| 72.5° | 9786.8 | 9587.5 | 9823.4 | 10217.8 | 10644.7 | 11492.4 | 12372.7 | 13287.6 | 14466.7 | 15290.1 | 15525.9 |
| 75° | 7101.2 | 7204.9 | 7274.0 | 7534.2 | 7816.8 | 8518.2 | 9034.6 | 9801.0 | 10713.8 | 11309.5 | 11498.5 |
| 77.5° | 3767.1 | 3923.7 | 4021.2 | 4281.5 | 4749.0 | 5283.7 | 5842.8 | 6316.5 | 6916.2 | 7249.6 | 7481.4 |
| 80° | 2114.3 | 2224.1 | 2382.7 | 2588.0 | 2815.7 | 3226.3 | 3557.7 | 3801.7 | 3887.1 | 3946.0 | 3998.9 |
| 82.5° | 1162.9 | 1441.4 | 1677.2 | 1819.5 | 1953.7 | 2118.4 | 2315.6 | 2518.9 | 2583.9 | 2486.3 | 2435.5 |
| 85° | 180.9 | 266.3 | 811.2 | 990.1 | 1077.5 | 1203.5 | 1345.8 | 1496.3 | 1498.3 | 1288.9 | 1406.8 |
| 87.5° | 50.8 | 56.9 | 115.9 | 174.8 | 170.8 | 138.2 | 170.8 | 311.0 | 183.0 | 91.5 | 105.7 |
| 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-T4-7060

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 |
| 2.5° | 4086.3 | 4090.4 | 4100.5 | 4110.7 | 4120.9 | 4131.0 | 4137.1 | 4147.3 | 4155.4 | 4167.6 | 4181.8 |
| 5° | 4070.0 | 4080.2 | 4098.5 | 4120.9 | 4141.2 | 4159.5 | 4173.7 | 4194.0 | 4212.3 | 4228.6 | 4253.0 |
| 7.5° | 4070.0 | 4090.4 | 4120.9 | 4145.2 | 4163.5 | 4185.9 | 4208.3 | 4228.6 | 4248.9 | 4265.2 | 4281.5 |
| 10° | 4072.1 | 4092.4 | 4122.9 | 4151.3 | 4171.7 | 4196.1 | 4214.4 | 4232.7 | 4255.0 | 4265.2 | 4285.5 |
| 12.5° | 4080.2 | 4088.3 | 4110.7 | 4139.2 | 4163.5 | 4187.9 | 4206.2 | 4224.5 | 4248.9 | 4253.0 | 4267.2 |
| 15° | 4120.9 | 4108.7 | 4114.8 | 4135.1 | 4161.5 | 4181.8 | 4202.2 | 4216.4 | 4232.7 | 4228.6 | 4240.8 |
| 17.5° | 4196.1 | 4165.6 | 4153.4 | 4155.4 | 4167.6 | 4181.8 | 4190.0 | 4192.0 | 4194.0 | 4175.7 | 4177.8 |
| 20° | 4297.7 | 4255.0 | 4226.6 | 4212.3 | 4196.1 | 4181.8 | 4159.5 | 4133.1 | 4108.7 | 4072.1 | 4068.0 |
| 22.5° | 4450.2 | 4387.2 | 4356.7 | 4318.1 | 4269.3 | 4208.3 | 4153.4 | 4088.3 | 4035.5 | 3980.6 | 3960.2 |
| 25° | 4671.8 | 4606.7 | 4574.2 | 4513.2 | 4425.8 | 4338.4 | 4259.1 | 4171.7 | 4094.4 | 4029.4 | 3998.9 |
| 27.5° | 4968.6 | 4903.6 | 4869.0 | 4806.0 | 4698.2 | 4610.8 | 4501.0 | 4407.5 | 4314.0 | 4218.4 | 4179.8 |
| 30° | 5328.4 | 5271.5 | 5232.9 | 5182.1 | 5088.6 | 4993.0 | 4864.9 | 4720.6 | 4572.2 | 4419.7 | 4344.5 |
| 32.5° | 5753.3 | 5690.3 | 5661.9 | 5602.9 | 5505.3 | 5405.7 | 5263.4 | 5078.4 | 4830.4 | 4590.5 | 4440.0 |
| 35° | 6283.9 | 6212.8 | 6180.3 | 6103.0 | 5989.2 | 5842.8 | 5690.3 | 5442.3 | 5106.8 | 4773.4 | 4527.4 |
| 37.5° | 6993.5 | 6834.9 | 6727.1 | 6550.3 | 6367.3 | 6162.0 | 5944.4 | 5690.3 | 5293.9 | 4881.2 | 4539.6 |
| 40° | 7621.6 | 7461.0 | 7253.7 | 6999.6 | 6714.9 | 6432.4 | 6184.3 | 5895.6 | 5464.7 | 4958.4 | 4501.0 |
| 42.5° | 8402.3 | 8117.7 | 7786.3 | 7442.7 | 7064.6 | 6717.0 | 6422.2 | 6082.7 | 5580.5 | 4978.8 | 4393.3 |
| 45° | 9115.9 | 8776.4 | 8333.2 | 7875.8 | 7406.2 | 6969.1 | 6637.7 | 6259.5 | 5680.2 | 4978.8 | 4263.2 |
| 47.5° | 9766.4 | 9359.8 | 8829.2 | 8260.0 | 7713.1 | 7235.4 | 6859.3 | 6440.5 | 5820.4 | 5041.8 | 4224.5 |
| 50° | 10368.2 | 9900.6 | 9296.8 | 8636.1 | 8022.1 | 7511.9 | 7107.3 | 6672.2 | 6033.9 | 5204.4 | 4318.1 |
| 52.5° | 11002.5 | 10506.4 | 9770.5 | 9069.1 | 8392.1 | 7845.3 | 7414.3 | 6958.9 | 6310.4 | 5460.6 | 4482.7 |
| 55° | 11834.0 | 11252.6 | 10417.0 | 9644.5 | 8900.4 | 8296.6 | 7806.6 | 7302.5 | 6613.3 | 5749.3 | 4684.0 |
| 57.5° | 13145.3 | 12301.6 | 11466.0 | 10461.7 | 9760.3 | 8965.4 | 8428.7 | 7849.3 | 7105.3 | 6125.4 | 4986.9 |
| 60° | 15440.5 | 14403.7 | 13399.4 | 12244.6 | 11378.6 | 10547.1 | 9735.9 | 8979.7 | 8083.1 | 6975.2 | 5651.7 |
| 62.5° | 18717.7 | 17664.6 | 16087.0 | 14674.1 | 13366.9 | 12265.0 | 11207.8 | 10246.2 | 9095.6 | 7883.9 | 6471.0 |
| 65° | 20675.4 | 19469.9 | 17589.4 | 15690.6 | 14102.8 | 12736.6 | 11527.0 | 10349.9 | 9107.8 | 7926.6 | 6719.0 |
| 66° | 20832.0 | 19691.5 | 17682.9 | 15676.3 | 14027.6 | 12610.6 | 11352.2 | 10134.4 | 8861.8 | 7731.4 | 6637.7 |
| 67.5° | 20541.2 | 19559.3 | 17491.8 | 15399.8 | 13714.5 | 12183.7 | 10890.7 | 9614.0 | 8335.2 | 7288.2 | 6367.3 |
| 70° | 18490.0 | 17780.5 | 16007.7 | 14047.9 | 12366.6 | 11016.7 | 9652.6 | 8424.7 | 7213.0 | 6332.7 | 5649.7 |
| 72.5° | 15157.9 | 14259.3 | 13019.2 | 11701.8 | 10378.4 | 9180.9 | 7940.8 | 6895.9 | 5879.4 | 5239.0 | 4755.1 |
| 75° | 11134.6 | 10325.5 | 8959.3 | 8138.0 | 7263.8 | 6511.6 | 5676.1 | 4686.0 | 3964.3 | 3643.1 | 3525.2 |
| 77.5° | 7058.5 | 6180.3 | 5027.6 | 4120.9 | 3543.5 | 3045.4 | 2401.0 | 1909.0 | 1528.8 | 1591.8 | 1762.6 |
| 80° | 3565.8 | 3071.8 | 2299.3 | 1815.5 | 1569.5 | 1305.2 | 1032.8 | 782.7 | 571.3 | 652.6 | 738.0 |
| 82.5° | 2289.1 | 1911.0 | 1522.7 | 1199.5 | 1012.4 | 892.5 | 713.6 | 518.4 | 386.3 | 435.1 | 532.6 |
| 85° | 1378.4 | 1164.9 | 929.1 | 760.3 | 660.7 | 550.9 | 404.6 | 286.7 | 284.6 | 304.9 | 376.1 |
| 87.5° | 209.4 | 298.8 | 172.8 | 185.0 | 195.2 | 209.4 | 185.0 | 156.5 | 136.2 | 176.9 | 223.6 |
| 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-F12-LED-E1-T4-7060

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 |
| 2.5° | 4196.1 | 4200.1 | 4208.3 | 4218.4 | 4216.4 | 4230.6 | 4238.8 | 4230.6 | 4248.9 | 4248.9 | 4259.1 |
| 5° | 4273.3 | 4279.4 | 4293.7 | 4303.8 | 4307.9 | 4320.1 | 4324.2 | 4322.1 | 4326.2 | 4328.2 | 4332.3 |
| 7.5° | 4295.7 | 4312.0 | 4318.1 | 4324.2 | 4326.2 | 4330.3 | 4330.3 | 4326.2 | 4326.2 | 4324.2 | 4328.2 |
| 10° | 4289.6 | 4295.7 | 4299.8 | 4297.7 | 4297.7 | 4293.7 | 4291.6 | 4289.6 | 4289.6 | 4285.5 | 4291.6 |
| 12.5° | 4269.3 | 4269.3 | 4269.3 | 4265.2 | 4265.2 | 4263.2 | 4263.2 | 4263.2 | 4267.2 | 4269.3 | 4279.4 |
| 15° | 4228.6 | 4228.6 | 4232.7 | 4230.6 | 4236.7 | 4246.9 | 4259.1 | 4267.2 | 4277.4 | 4279.4 | 4285.5 |
| 17.5° | 4165.6 | 4167.6 | 4179.8 | 4206.2 | 4232.7 | 4263.2 | 4285.5 | 4291.6 | 4283.5 | 4263.2 | 4248.9 |
| 20° | 4055.8 | 4082.2 | 4131.0 | 4194.0 | 4253.0 | 4291.6 | 4301.8 | 4277.4 | 4238.8 | 4185.9 | 4157.4 |
| 22.5° | 3958.2 | 4011.1 | 4098.5 | 4202.2 | 4275.4 | 4301.8 | 4271.3 | 4214.4 | 4145.2 | 4084.3 | 4041.6 |
| 25° | 3996.8 | 4057.8 | 4149.3 | 4238.8 | 4285.5 | 4271.3 | 4210.3 | 4129.0 | 4055.8 | 3984.6 | 3915.5 |
| 27.5° | 4159.5 | 4220.5 | 4285.5 | 4312.0 | 4295.7 | 4242.8 | 4157.4 | 4070.0 | 3972.4 | 3870.8 | 3785.4 |
| 30° | 4314.0 | 4348.5 | 4352.6 | 4326.2 | 4267.2 | 4181.8 | 4082.2 | 3980.6 | 3856.6 | 3734.6 | 3626.8 |
| 32.5° | 4362.8 | 4322.1 | 4248.9 | 4173.7 | 4092.4 | 4005.0 | 3889.1 | 3754.9 | 3622.8 | 3484.5 | 3364.6 |
| 35° | 4348.5 | 4183.9 | 4002.9 | 3842.3 | 3744.8 | 3645.1 | 3539.4 | 3360.5 | 3212.1 | 3094.2 | 3016.9 |
| 37.5° | 4220.5 | 3919.6 | 3641.1 | 3407.3 | 3254.8 | 3136.9 | 2980.4 | 2831.9 | 2703.9 | 2651.0 | 2588.0 |
| 40° | 4041.6 | 3582.1 | 3195.8 | 2868.5 | 2710.0 | 2559.5 | 2384.7 | 2270.8 | 2234.2 | 2185.5 | 2187.5 |
| 42.5° | 3785.4 | 3187.7 | 2689.6 | 2313.5 | 2140.7 | 1976.1 | 1852.0 | 1785.0 | 1787.0 | 1746.3 | 1754.5 |
| 45° | 3515.0 | 2791.3 | 2165.1 | 1791.1 | 1620.3 | 1480.0 | 1410.9 | 1390.6 | 1392.6 | 1394.6 | 1382.4 |
| 47.5° | 3350.4 | 2482.3 | 1736.2 | 1358.0 | 1207.6 | 1128.3 | 1091.7 | 1081.5 | 1083.6 | 1085.6 | 1071.4 |
| 50° | 3326.0 | 2321.7 | 1449.5 | 1038.9 | 941.3 | 896.5 | 878.2 | 868.1 | 868.1 | 860.0 | 847.8 |
| 52.5° | 3395.1 | 2281.0 | 1309.2 | 900.6 | 807.1 | 766.4 | 752.2 | 744.1 | 731.9 | 715.6 | 693.2 |
| 55° | 3504.9 | 2317.6 | 1266.5 | 853.9 | 762.4 | 721.7 | 703.4 | 699.3 | 679.0 | 648.5 | 611.9 |
| 57.5° | 3708.2 | 2449.7 | 1295.0 | 866.1 | 770.5 | 733.9 | 721.7 | 717.6 | 689.2 | 642.4 | 595.7 |
| 60° | 4291.6 | 2834.0 | 1437.3 | 935.2 | 829.5 | 799.0 | 799.0 | 792.9 | 754.2 | 687.1 | 620.1 |
| 62.5° | 5096.7 | 3397.1 | 1630.5 | 1030.7 | 910.8 | 906.7 | 941.3 | 943.3 | 874.2 | 766.4 | 660.7 |
| 65° | 5485.0 | 3661.4 | 1697.5 | 1051.1 | 933.1 | 979.9 | 1049.0 | 1049.0 | 951.4 | 803.0 | 666.8 |
| 66° | 5487.0 | 3655.3 | 1677.2 | 1026.7 | 908.7 | 969.7 | 1040.9 | 1040.9 | 939.2 | 792.9 | 656.7 |
| 67.5° | 5346.7 | 3541.5 | 1610.1 | 981.9 | 853.9 | 910.8 | 973.8 | 971.8 | 880.3 | 752.2 | 628.2 |
| 70° | 4795.8 | 3132.8 | 1419.0 | 908.7 | 788.8 | 790.8 | 813.2 | 799.0 | 738.0 | 650.6 | 571.3 |
| 72.5° | 4135.1 | 2620.5 | 1230.0 | 862.0 | 738.0 | 699.3 | 681.0 | 668.9 | 630.2 | 577.4 | 528.6 |
| 75° | 3171.5 | 2035.0 | 1071.4 | 819.3 | 693.2 | 626.2 | 601.8 | 591.6 | 565.2 | 534.7 | 496.0 |
| 77.5° | 1943.5 | 1394.6 | 908.7 | 750.2 | 642.4 | 581.4 | 555.0 | 534.7 | 508.2 | 479.8 | 453.4 |
| 80° | 837.6 | 841.7 | 727.8 | 636.3 | 559.1 | 487.9 | 453.4 | 429.0 | 414.7 | 404.6 | 390.3 |
| 82.5° | 585.5 | 603.8 | 555.0 | 494.0 | 426.9 | 376.1 | 345.6 | 339.5 | 341.5 | 341.5 | 337.5 |
| 85° | 439.1 | 431.0 | 388.3 | 353.7 | 323.2 | 290.7 | 266.3 | 264.3 | 272.4 | 272.4 | 266.3 |
| 87.5° | 254.1 | 256.2 | 219.6 | 205.3 | 213.5 | 183.0 | 166.7 | 168.7 | 189.1 | 187.0 | 183.0 |
| 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-T4-7060

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4139.2 | 4139.2 | 4139.2 | 4139.2 | 4139.2 |
| 2.5° | 4259.1 | 4265.2 | 4263.2 | 4269.3 | 4263.2 |
| 5° | 4338.4 | 4336.3 | 4334.3 | 4342.4 | 4332.3 |
| 7.5° | 4326.2 | 4328.2 | 4328.2 | 4328.2 | 4326.2 |
| 10° | 4295.7 | 4303.8 | 4307.9 | 4316.0 | 4314.0 |
| 12.5° | 4285.5 | 4297.7 | 4309.9 | 4322.1 | 4324.2 |
| 15° | 4287.6 | 4295.7 | 4301.8 | 4307.9 | 4309.9 |
| 17.5° | 4234.7 | 4232.7 | 4226.6 | 4222.5 | 4218.4 |
| 20° | 4127.0 | 4116.8 | 4106.6 | 4090.4 | 4098.5 |
| 22.5° | 3992.8 | 3964.3 | 3931.8 | 3905.4 | 3903.3 |
| 25° | 3836.2 | 3783.4 | 3730.5 | 3696.0 | 3683.8 |
| 27.5° | 3698.0 | 3635.0 | 3580.1 | 3549.6 | 3541.5 |
| 30° | 3533.3 | 3476.4 | 3427.6 | 3401.2 | 3384.9 |
| 32.5° | 3289.4 | 3244.6 | 3183.6 | 3163.3 | 3161.3 |
| 35° | 2949.9 | 2915.3 | 2872.6 | 2864.5 | 2854.3 |
| 37.5° | 2565.6 | 2553.4 | 2533.1 | 2508.7 | 2504.6 |
| 40° | 2155.0 | 2163.1 | 2157.0 | 2142.8 | 2120.4 |
| 42.5° | 1758.5 | 1772.8 | 1774.8 | 1785.0 | 1795.1 |
| 45° | 1400.7 | 1412.9 | 1412.9 | 1423.1 | 1435.3 |
| 47.5° | 1075.4 | 1067.3 | 1073.4 | 1083.6 | 1089.7 |
| 50° | 813.2 | 807.1 | 796.9 | 788.8 | 780.7 |
| 52.5° | 654.6 | 642.4 | 614.0 | 605.8 | 597.7 |
| 55° | 577.4 | 555.0 | 534.7 | 526.5 | 526.5 |
| 57.5° | 555.0 | 526.5 | 504.2 | 494.0 | 489.9 |
| 60° | 559.1 | 518.4 | 489.9 | 473.7 | 467.6 |
| 62.5° | 577.4 | 520.4 | 481.8 | 463.5 | 457.4 |
| 65° | 575.3 | 516.4 | 479.8 | 459.5 | 453.4 |
| 66° | 565.2 | 510.3 | 475.7 | 457.4 | 453.4 |
| 67.5° | 548.9 | 502.1 | 471.7 | 455.4 | 449.3 |
| 70° | 516.4 | 485.9 | 463.5 | 449.3 | 443.2 |
| 72.5° | 489.9 | 469.6 | 449.3 | 433.0 | 429.0 |
| 75° | 465.6 | 445.2 | 426.9 | 418.8 | 412.7 |
| 77.5° | 429.0 | 410.7 | 400.5 | 392.4 | 388.3 |
| 80° | 380.2 | 368.0 | 355.8 | 347.6 | 341.5 |
| 82.5° | 331.4 | 315.1 | 302.9 | 296.8 | 292.7 |
| 85° | 270.4 | 260.2 | 241.9 | 229.7 | 227.7 |
| 87.5° | 180.9 | 170.8 | 164.7 | 154.5 | 144.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)