

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: INVUE

Report Number: P95386

Luminaire Tested: **VFS-K-B40-5-LED-E1-MST-SG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P95386  
REPORT SCALED FROM IESNA LM79-08 TEST DATA (P22792)  
Test Lab: INNOVATION CENTER  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VFS-K-B40-5-LED-E1-MST-SG  
Description: ARCHITECTURAL FLOOD LUMINAIRE  
MEDIUM SYMMETRIC RECTANGULAR WITH SOFTENING GLASS DISTRIBUTION  
WITH 40 LED'S, 525mA DRIVE CURRENT  
Light Source: -  
Ballast/Driver: -

**Summary**

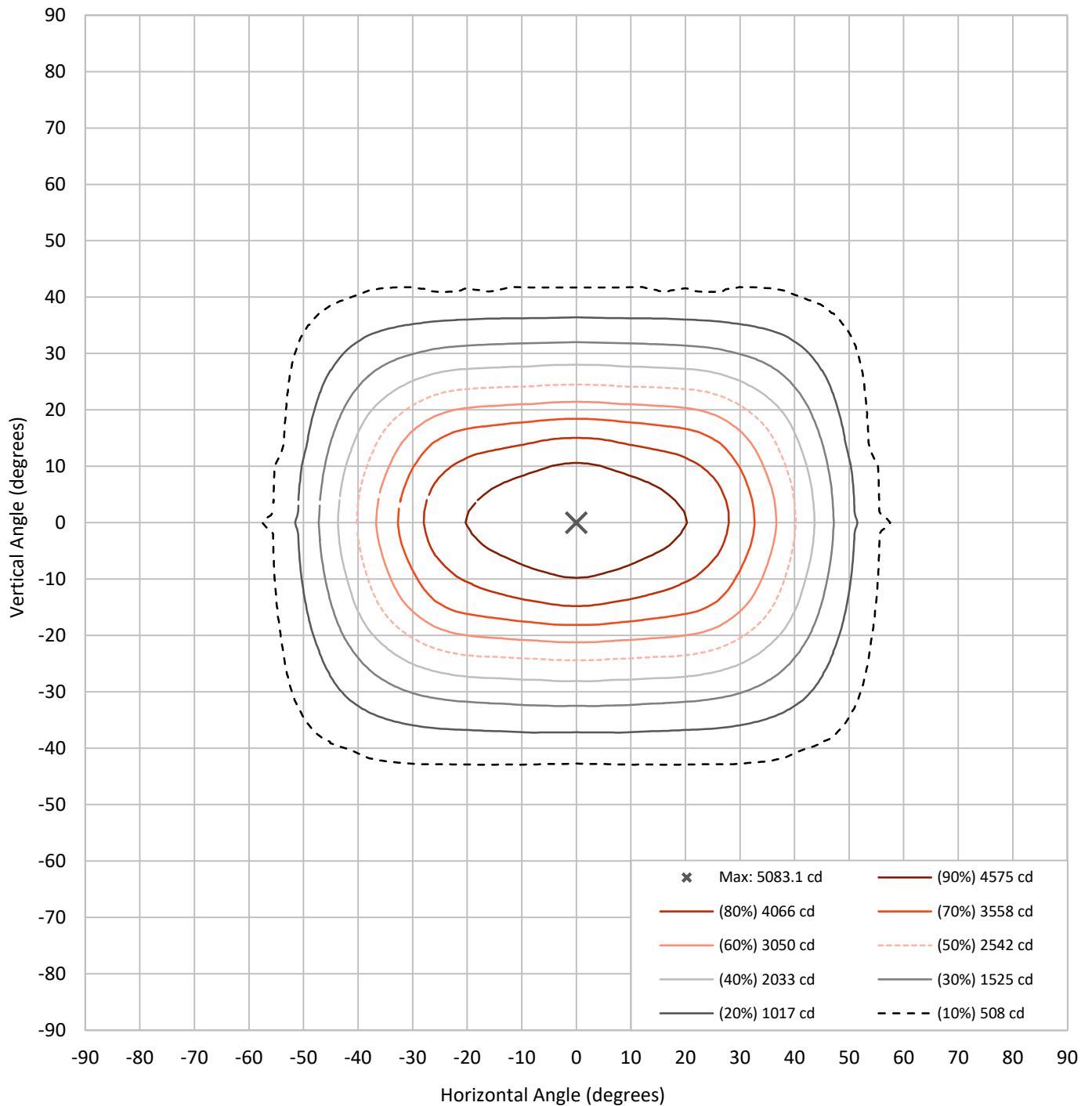
Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	5966.6 lumens	Max Intensity:	5083.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	90.1 lumens/watt		
Luminous Opening:	(L: 0.83 ' x W: 0 ' x H: 0.5 ')		
Beam Angle (50%):	80.5°H x 48.9°V	Field Angle (10%):	115.1°H x 84.2°V
Beam Lumens:	3705.4 lumens	Field Lumens:	5544.6 lumens
Beam Efficiency:	62.1%	Field Efficiency:	92.9%
Input Watts (W):	66.2		
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		



REPORT NUMBER: P95386

CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

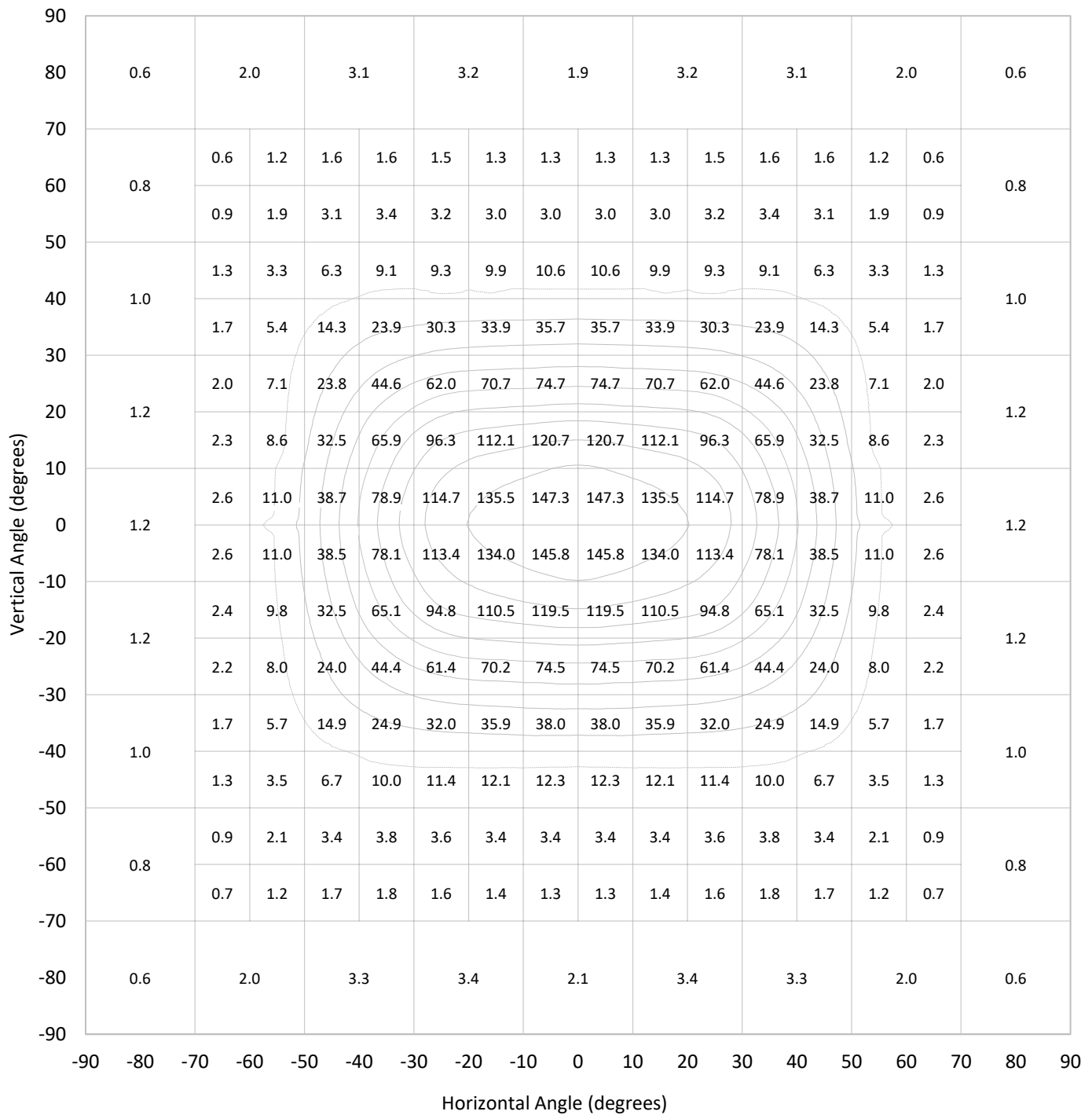
### Iso-Candela Plot





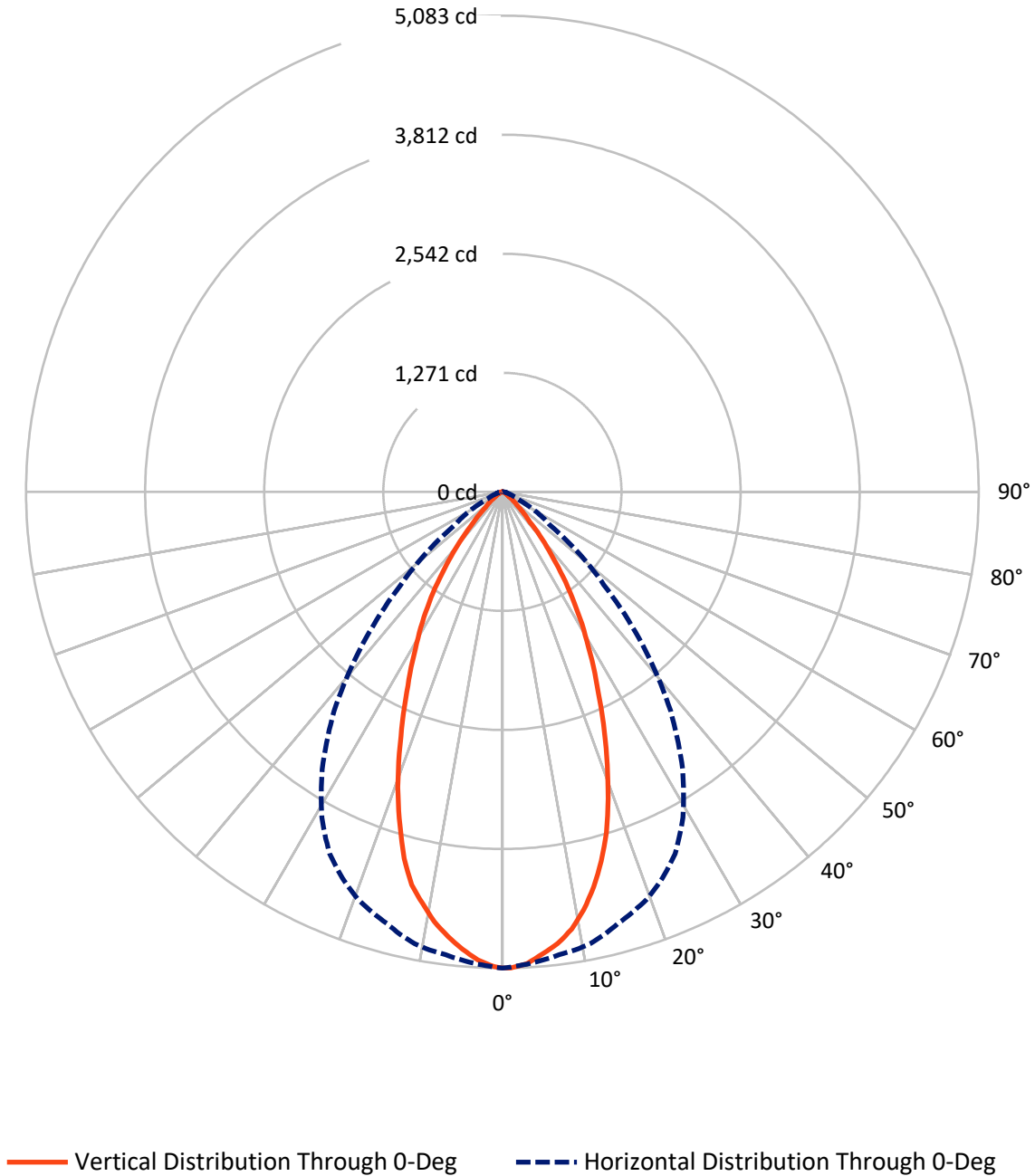
REPORT NUMBER: P95386  
 CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

### Lumen Table



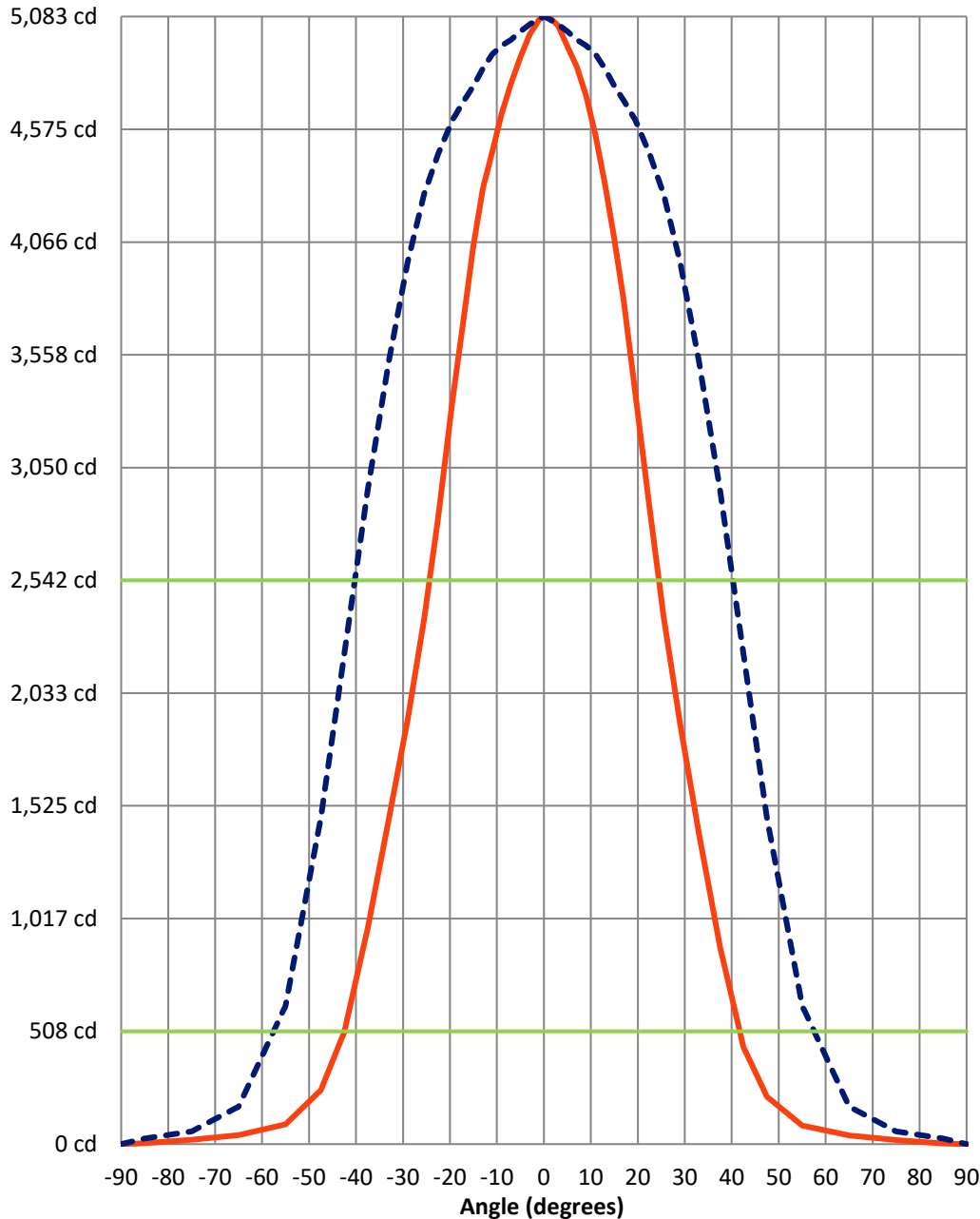
REPORT NUMBER: P95386  
CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

### Luminous Intensity Polar Plot



REPORT NUMBER: P95386  
CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

### Luminous Intensity Plot



**Beam:**  
H Angle: 80.5°  
V Angle: 48.9°  
Lumens: 3705.4  
Efficiency: 62.1%

**Field:**  
H Angle: 115.1°  
V Angle: 84.2°  
Lumens: 5544.6  
Efficiency: 92.9%

**Spill:**  
Lumens: 422  
Efficiency: 7.1%

— Vertical Distribution through 0-Deg  
- - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P95386

CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	0°	1°	3°	5°	7°	9°	11°	13°	15°	17°	19.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	4.2	7.0	12.6	21.0	25.2	27.9	27.9	29.3	29.3	30.7
75°	18.2	18.2	18.2	18.2	18.2	19.6	21.0	25.2	27.9	32.1	34.9
65°	39.1	39.1	39.1	39.1	39.1	39.1	37.7	39.1	39.1	40.5	41.9
55°	83.8	83.8	82.4	82.4	82.4	82.4	83.8	82.4	83.8	86.6	88.0
47.5°	213.8	213.8	212.4	216.6	215.2	218.0	222.2	223.6	223.6	223.6	227.7
42.5°	437.3	435.9	438.7	440.1	437.3	444.3	447.1	451.3	350.7	349.3	447.1
37.5°	890.0	888.6	885.8	880.3	876.1	876.1	871.9	874.7	877.5	871.9	856.5
33°	1401.4	1400.0	1397.2	1384.7	1386.0	1383.3	1384.7	1367.9	1366.5	1362.3	1345.5
29°	1896.0	1896.0	1894.6	1891.8	1876.5	1852.7	1862.5	1844.3	1830.4	1822.0	1803.8
25.5°	2376.7	2372.5	2364.1	2361.3	2347.3	2315.2	2329.2	2315.2	2305.4	2298.4	2280.3
22.5°	2868.5	2868.5	2857.3	2844.8	2826.6	2793.1	2805.6	2783.3	2769.3	2756.7	2727.4
19.5°	3378.5	3382.7	3374.3	3351.9	3326.8	3291.9	3294.7	3265.3	3240.2	3227.6	3191.3
17°	3801.9	3797.7	3782.3	3764.1	3732.0	3683.1	3671.9	3648.2	3603.4	3582.5	3542.0
15°	4079.9	4077.1	4068.7	4049.2	4005.8	3950.0	3920.6	3882.9	3849.4	3820.0	3764.1
13°	4328.6	4331.4	4317.4	4278.3	4225.2	4167.9	4135.8	4098.1	4057.5	4028.2	3965.3
11°	4546.6	4548.0	4525.6	4476.7	4419.4	4366.3	4345.4	4296.5	4239.2	4201.5	4133.0
9°	4725.4	4721.2	4700.3	4662.5	4606.7	4552.2	4499.1	4457.2	4405.5	4352.4	4262.9
7°	4856.8	4851.2	4828.8	4791.1	4761.7	4691.9	4640.2	4595.5	4536.8	4473.9	4378.9
5°	4949.0	4951.8	4933.6	4914.0	4879.1	4826.0	4771.5	4708.7	4641.6	4575.9	4476.7
3°	5042.6	5032.8	5009.1	4985.3	4950.4	4909.9	4863.7	4799.5	4732.4	4658.4	4563.3
1°	5083.1	5073.3	5044.0	5021.6	4985.3	4947.6	4904.3	4844.2	4767.3	4701.7	4615.0
0°	5083.1	5073.3	5048.2	5016.0	4978.3	4951.8	4912.6	4848.4	4770.1	4704.5	4615.0
-1°	5069.1	5063.5	5041.2	5002.1	4957.4	4942.0	4901.5	4838.6	4763.1	4691.9	4594.1
-3°	5003.5	4999.3	4985.3	4957.4	4911.3	4874.9	4819.0	4764.5	4705.9	4634.6	4525.6
-5°	4900.1	4902.9	4884.7	4854.0	4812.0	4767.3	4703.1	4655.6	4594.1	4534.0	4419.4
-7°	4781.3	4778.5	4759.0	4710.1	4670.9	4631.8	4571.7	4515.8	4457.2	4398.5	4295.1
-9°	4644.4	4641.6	4620.6	4577.3	4542.4	4493.5	4444.6	4391.5	4325.8	4268.5	4186.1
-11°	4472.5	4472.5	4461.3	4418.0	4380.3	4337.0	4282.5	4233.6	4181.9	4135.8	4052.0
-13°	4306.3	4302.1	4275.5	4226.6	4187.5	4154.0	4116.2	4064.5	4015.6	3963.9	3902.5
-15°	4050.6	4050.6	4033.8	4001.7	3954.2	3919.2	3889.9	3849.4	3815.8	3762.7	3711.0
-17°	3734.8	3737.6	3750.2	3723.6	3684.5	3657.9	3623.0	3585.3	3551.7	3522.4	3476.3
-19.5°	3345.0	3339.4	3329.6	3315.6	3273.7	3266.7	3244.4	3210.8	3191.3	3170.3	3134.0
-22.5°	2826.6	2823.8	2835.0	2816.8	2786.1	2787.5	2766.5	2744.2	2727.4	2721.8	2695.2
-25.5°	2366.9	2366.9	2365.5	2351.5	2327.8	2333.4	2320.8	2299.8	2284.5	2288.7	2266.3
-29°	1914.2	1914.2	1919.8	1905.8	1886.3	1893.2	1877.9	1861.1	1851.3	1851.3	1824.8
-33°	1467.1	1462.9	1471.3	1465.7	1455.9	1460.1	1439.1	1430.8	1419.6	1414.0	1394.4
-37.5°	973.9	972.5	982.3	978.1	980.9	983.6	969.7	957.1	958.5	951.5	938.9
-42.5°	505.8	512.8	510.0	510.0	514.2	518.4	519.8	514.2	522.6	519.8	518.4
-47.5°	243.1	247.3	250.1	252.9	254.3	251.5	254.3	259.9	259.9	261.3	266.9
-55°	89.4	90.8	90.8	93.6	93.6	93.6	95.0	95.0	95.0	97.8	102.0
-65°	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	41.9	44.7
-75°	19.6	19.6	19.6	19.6	19.6	21.0	22.4	26.5	29.3	33.5	36.3
-85°	4.2	4.2	8.4	14.0	22.4	27.9	29.3	30.7	30.7	30.7	30.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P95386

CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

**CANDELA DISTRIBUTION (continued):**

	22.5°	25.5°	29°	33°	37.5°	42.5°	47.5°	55°	65°	75°	85°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	32.1	30.7	30.7
75°	37.7	39.1	40.5	40.5	40.5	41.9	41.9	40.5	36.3	32.1	30.7
65°	46.1	48.9	53.1	58.7	62.9	68.5	69.9	64.3	48.9	36.3	30.7
55°	93.6	100.6	110.4	120.2	129.9	135.5	132.7	107.6	64.3	40.5	30.7
47.5°	230.5	237.5	248.7	255.7	262.7	254.3	227.7	157.9	83.8	44.7	32.1
42.5°	350.7	350.7	458.3	458.3	444.3	336.7	321.4	209.6	95.0	48.9	32.1
37.5°	853.7	839.7	814.6	790.8	728.0	624.6	479.2	261.3	107.6	51.7	30.7
33°	1323.2	1295.2	1237.9	1162.5	1052.1	867.7	641.3	294.8	120.2	53.1	30.7
29°	1784.3	1734.0	1640.3	1524.4	1346.9	1080.1	779.7	315.8	131.3	55.9	30.7
25.5°	2245.3	2169.9	2031.6	1849.9	1598.4	1264.5	902.6	325.6	139.7	55.9	29.3
22.5°	2684.1	2586.3	2403.2	2150.3	1834.6	1419.6	990.6	329.7	146.7	57.3	29.3
19.5°	3122.8	3005.4	2773.5	2459.1	2072.1	1571.9	1080.1	335.3	153.7	57.3	29.3
17°	3459.5	3319.8	3072.5	2713.4	2260.7	1697.6	1155.5	339.5	156.5	58.7	27.9
15°	3677.5	3542.0	3280.7	2888.1	2386.5	1784.3	1212.8	340.9	160.7	58.7	27.9
13°	3863.3	3722.2	3437.2	3034.8	2503.8	1875.1	1268.7	342.3	163.5	58.7	27.9
11°	4025.4	3875.9	3581.1	3159.1	2607.2	1964.5	1317.6	482.0	166.3	58.7	26.5
9°	4148.4	4003.1	3713.8	3265.3	2703.6	2035.8	1360.9	493.2	166.3	58.7	26.5
7°	4267.1	4113.4	3817.2	3358.9	2809.8	2100.0	1401.4	497.4	167.7	58.7	26.5
5°	4349.6	4193.1	3905.2	3440.0	2881.1	2144.7	1436.3	500.2	170.5	57.3	26.5
3°	4425.0	4254.6	3959.7	3501.4	2917.4	2181.1	1455.9	503.0	170.5	57.3	25.2
1°	4457.2	4286.7	3982.1	3523.8	2942.6	2203.4	1464.3	507.2	169.1	57.3	25.2
0°	4464.1	4282.5	3976.5	3530.8	2949.5	2209.0	1469.9	624.6	169.1	57.3	25.2
-1°	4451.6	4272.7	3961.1	3523.8	2939.8	2203.4	1467.1	507.2	169.1	58.7	25.2
-3°	4399.9	4226.6	3917.8	3481.9	2899.2	2174.1	1451.7	507.2	167.7	57.3	25.2
-5°	4296.5	4138.6	3846.6	3406.4	2829.4	2136.4	1428.0	504.4	167.7	57.3	25.2
-7°	4177.7	4040.8	3743.2	3315.6	2763.7	2073.5	1397.2	498.8	167.7	57.3	26.5
-9°	4082.7	3926.2	3632.8	3224.8	2679.9	2003.6	1355.3	494.6	166.3	57.3	26.5
-11°	3961.1	3817.2	3523.8	3114.4	2579.3	1932.4	1316.2	484.8	163.5	57.3	26.5
-13°	3821.4	3674.7	3384.1	2997.1	2492.7	1859.7	1264.5	473.7	162.1	57.3	26.5
-15°	3639.8	3491.7	3215.0	2857.3	2371.1	1781.5	1215.6	465.3	159.3	57.3	26.5
-17°	3405.0	3265.3	3006.8	2677.1	2234.2	1690.6	1161.1	451.3	157.9	57.3	27.9
-19.5°	3068.3	2944.0	2727.4	2432.6	2048.3	1569.1	1091.2	437.3	156.5	57.3	27.9
-22.5°	2633.8	2533.2	2366.9	2129.4	1809.4	1414.0	994.8	416.4	149.5	57.3	27.9
-25.5°	2217.4	2144.7	2027.4	1844.3	1592.8	1267.3	908.2	391.2	142.5	57.3	29.3
-29°	1792.6	1742.3	1671.1	1535.6	1349.7	1096.8	800.6	357.7	134.1	55.9	29.3
-33°	1379.1	1344.1	1293.8	1203.0	1077.3	895.6	660.9	318.6	123.0	53.1	30.7
-37.5°	932.0	918.0	891.4	843.9	769.9	662.3	507.2	272.5	109.0	51.7	30.7
-42.5°	517.0	512.8	515.6	497.4	477.9	342.3	325.6	219.4	97.8	48.9	32.1
-47.5°	271.1	275.3	280.8	287.8	293.4	275.3	245.9	167.7	86.6	44.7	32.1
-55°	107.6	113.2	123.0	134.1	143.9	149.5	145.3	114.6	67.1	41.9	32.1
-65°	47.5	51.7	57.3	61.5	67.1	72.7	75.5	68.5	50.3	36.3	30.7
-75°	39.1	40.5	41.9	41.9	43.3	43.3	44.7	43.3	37.7	32.1	30.7
-85°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30.7	30.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P95386

CATALOG NUMBER: VFS-K-B40-5-LED-E1-MST-SG

**CANDELA DISTRIBUTION (continued):**

	90°
90°	0.0
85°	0.0
75°	0.0
65°	0.0
55°	0.0
47.5°	0.0
42.5°	0.0
37.5°	0.0
33°	0.0
29°	0.0
25.5°	0.0
22.5°	0.0
19.5°	0.0
17°	0.0
15°	0.0
13°	0.0
11°	0.0
9°	0.0
7°	0.0
5°	0.0
3°	0.0
1°	0.0
0°	0.0
-1°	0.0
-3°	0.0
-5°	0.0
-7°	0.0
-9°	0.0
-11°	0.0
-13°	0.0
-15°	0.0
-17°	0.0
-19.5°	0.0
-22.5°	0.0
-25.5°	0.0
-29°	0.0
-33°	0.0
-37.5°	0.0
-42.5°	0.0
-47.5°	0.0
-55°	0.0
-65°	0.0
-75°	0.0
-85°	0.0
-90°	0.0

(END OF REPORT)