

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: P95387

Luminaire Tested: **VFS-K-B40-7-LED-E1-MST-SG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P95387
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-B40-7-LED-E1-MST-SG
Description: ARCHITECTURAL FLOOD LUMINAIRE
MEDIUM SYMMETRIC RECTANGULAR WITH SOFTENING GLASS DISTRIBUTION
WITH 40 LED'S, 700mA DRIVE CURRENT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	6685.4 lumens	Max Intensity:	5695.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	71.3 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:	4151.8 lumens	Field Lumens:	6212.6 lumens
Beam Efficiency:	62.1%	Field Efficiency:	92.9%

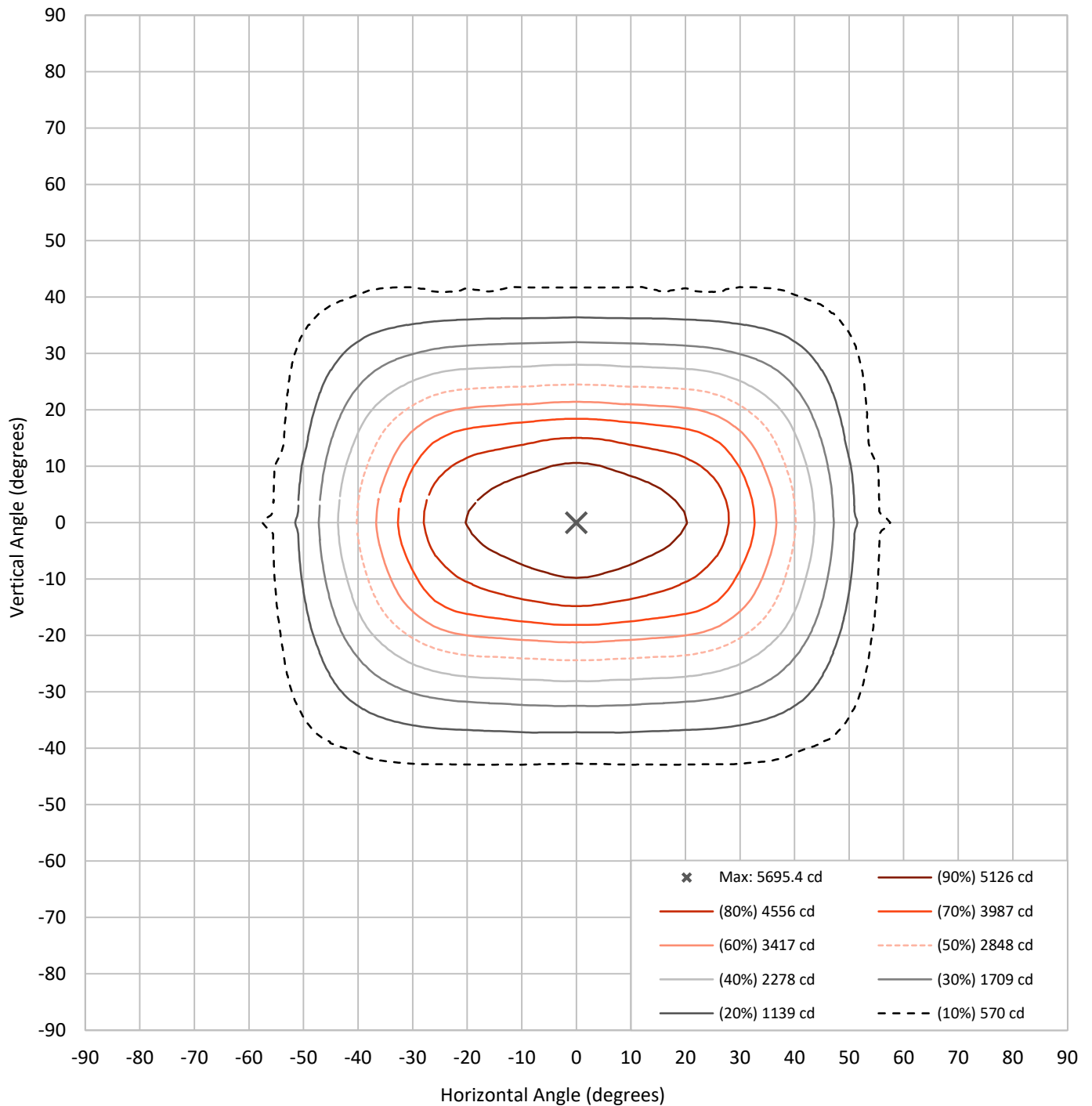
Input Watts (W): 93.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P95387

CATALOG NUMBER: VFS-K-B40-7-LED-E1-MST-SG

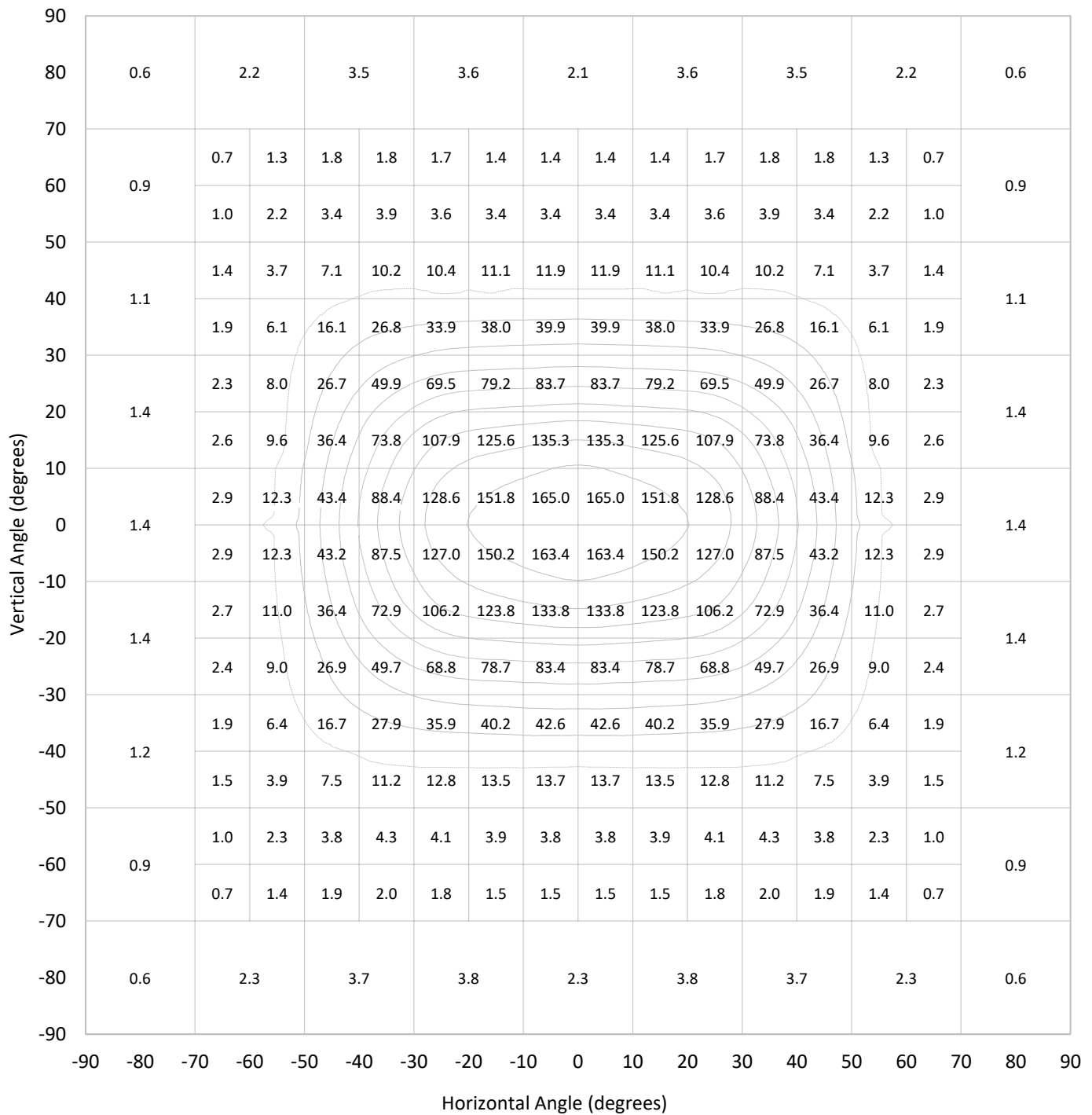
Iso-Candela Plot





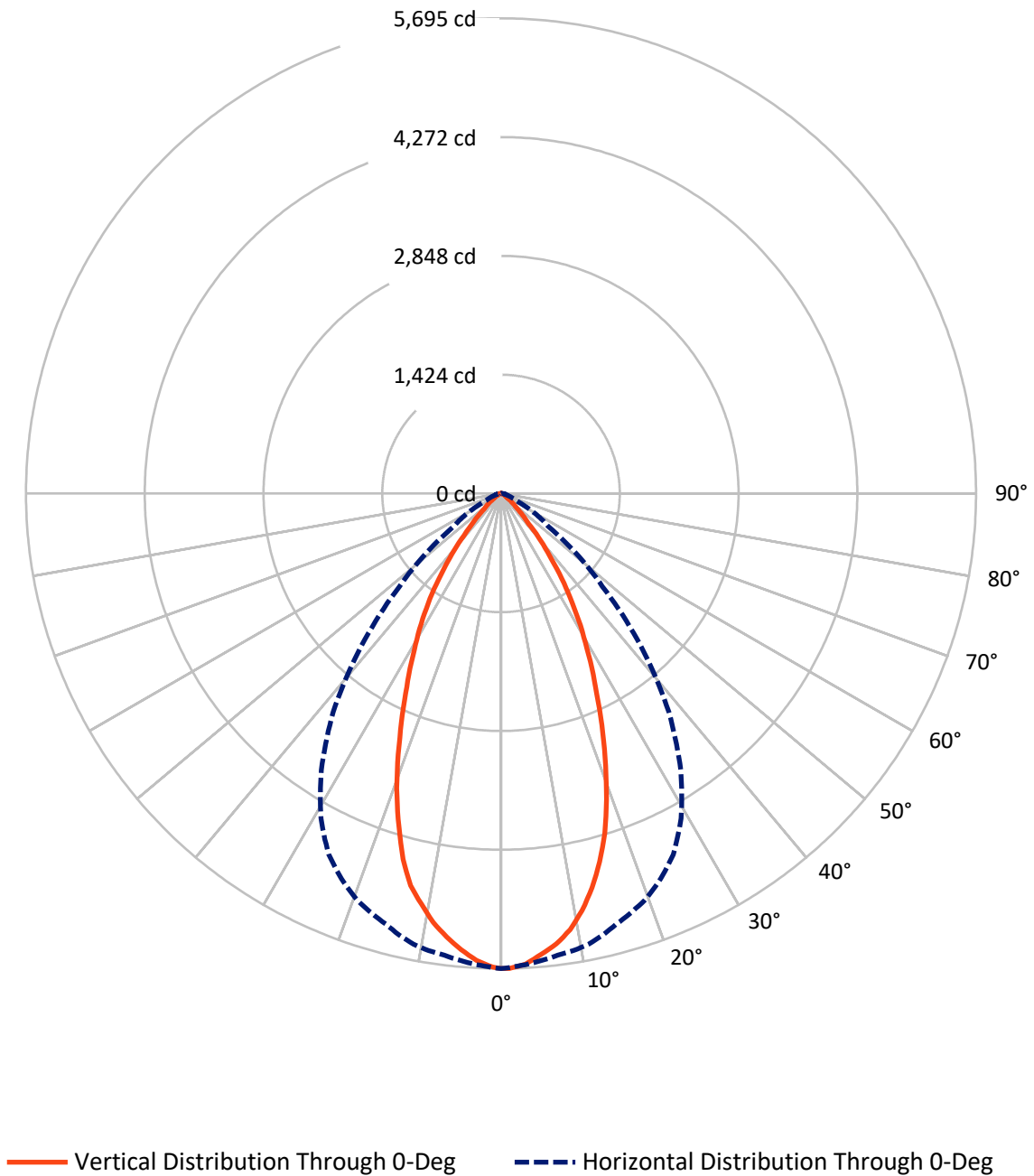
REPORT NUMBER: P95387
 CATALOG NUMBER: VFS-K-B40-7-LED-E1-MST-SG

Lumen Table



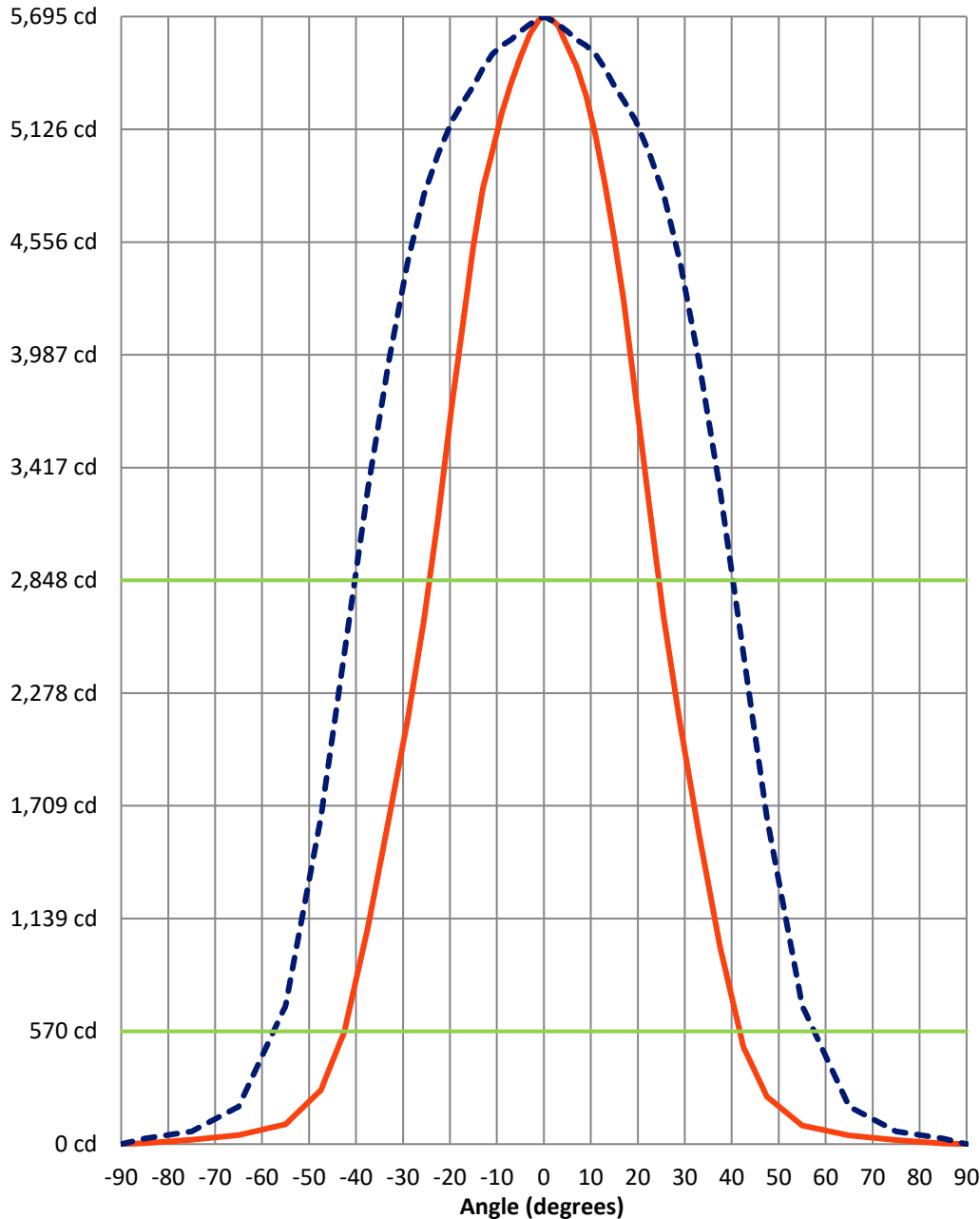
REPORT NUMBER: P95387
CATALOG NUMBER: VFS-K-B40-7-LED-E1-MST-SG

Luminous Intensity Polar Plot



REPORT NUMBER: P95387
 CATALOG NUMBER: VFS-K-B40-7-LED-E1-MST-SG

Luminous Intensity Plot



Beam:
 H Angle: 80.5°
 V Angle: 48.9°
 Lumens: 4151.8
 Efficiency: 62.1%

Field:
 H Angle: 115.1°
 V Angle: 84.2°
 Lumens: 6212.6
 Efficiency: 92.9%

Spill:
 Lumens: 472.8
 Efficiency: 7.1%

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



REPORT NUMBER: P95387

CATALOG NUMBER: VFS-K-B40-7-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°	3.1	4.7	7.8	14.1	23.5	28.2	31.3	31.3	32.9	32.9	34.4
75°	20.4	20.4	20.4	20.4	20.4	21.9	23.5	28.2	31.3	36.0	39.1
65°	43.8	43.8	43.8	43.8	43.8	43.8	42.3	43.8	43.8	45.4	47.0
55°	93.9	93.9	92.4	92.4	92.4	92.4	93.9	92.4	93.9	97.1	98.6
47.5°	239.5	239.5	238.0	242.7	241.1	244.2	248.9	250.5	250.5	250.5	255.2
42.5°	490.0	488.4	491.6	493.1	490.0	497.8	501.0	505.7	393.0	391.4	501.0
37.5°	997.3	995.7	992.6	986.3	981.6	981.6	976.9	980.0	983.2	976.9	959.7
33°	1570.2	1568.7	1565.5	1551.5	1553.0	1549.9	1551.5	1532.7	1531.1	1526.4	1507.6
29°	2124.4	2124.4	2122.9	2119.7	2102.5	2075.9	2086.9	2066.5	2050.9	2041.5	2021.1
25.5°	2663.0	2658.3	2648.9	2645.8	2630.1	2594.1	2609.8	2594.1	2583.1	2575.3	2555.0
22.5°	3214.1	3214.1	3201.5	3187.4	3167.1	3129.5	3143.6	3118.6	3102.9	3088.8	3055.9
19.5°	3785.5	3790.2	3780.8	3755.7	3727.6	3688.4	3691.6	3658.7	3630.5	3616.4	3575.7
17°	4259.8	4255.1	4237.9	4217.6	4181.6	4126.8	4114.2	4087.6	4037.5	4014.1	3968.7
15°	4571.4	4568.3	4558.9	4536.9	4488.4	4425.8	4392.9	4350.6	4313.1	4280.2	4217.6
13°	4850.1	4853.2	4837.5	4793.7	4734.2	4670.0	4634.0	4591.7	4546.3	4513.5	4443.0
11°	5094.3	5095.8	5070.8	5016.0	4951.8	4892.3	4868.8	4814.0	4749.9	4707.6	4630.9
9°	5294.7	5290.0	5266.5	5224.2	5161.6	5100.5	5041.0	4994.1	4936.2	4876.7	4776.5
7°	5441.8	5435.6	5410.5	5368.2	5335.4	5257.1	5199.2	5149.1	5083.3	5012.9	4906.4
5°	5545.2	5548.3	5527.9	5506.0	5466.9	5407.4	5346.3	5275.9	5200.7	5127.2	5016.0
3°	5650.0	5639.1	5612.5	5585.9	5546.7	5501.3	5449.7	5377.6	5302.5	5219.5	5113.1
1°	5695.4	5684.5	5651.6	5626.6	5585.9	5543.6	5495.1	5427.7	5341.6	5268.1	5171.0
0°	5695.4	5684.5	5656.3	5620.3	5578.0	5548.3	5504.5	5432.4	5344.8	5271.2	5171.0
-1°	5679.8	5673.5	5648.5	5604.6	5554.5	5537.3	5491.9	5421.5	5336.9	5257.1	5147.5
-3°	5606.2	5601.5	5585.9	5554.5	5502.9	5462.2	5399.6	5338.5	5272.7	5192.9	5070.8
-5°	5490.4	5493.5	5473.1	5438.7	5391.7	5341.6	5269.6	5216.4	5147.5	5080.2	4951.8
-7°	5357.3	5354.2	5332.2	5277.4	5233.6	5189.8	5122.5	5059.8	4994.1	4928.3	4812.5
-9°	5203.9	5200.7	5177.3	5128.7	5089.6	5034.8	4980.0	4920.5	4846.9	4782.7	4690.4
-11°	5011.3	5011.3	4998.8	4950.2	4908.0	4859.4	4798.4	4743.6	4685.7	4634.0	4540.1
-13°	4825.0	4820.3	4790.6	4735.8	4691.9	4654.4	4612.1	4554.2	4499.4	4441.4	4372.6
-15°	4538.5	4538.5	4519.7	4483.7	4430.5	4391.3	4358.5	4313.1	4275.5	4216.0	4158.1
-17°	4184.7	4187.8	4201.9	4172.2	4128.3	4098.6	4059.5	4017.2	3979.6	3946.7	3895.1
-19.5°	3747.9	3741.6	3730.7	3715.0	3668.1	3660.2	3635.2	3597.6	3575.7	3552.2	3511.5
-22.5°	3167.1	3164.0	3176.5	3156.1	3121.7	3123.3	3099.8	3074.7	3055.9	3049.7	3019.9
-25.5°	2652.0	2652.0	2650.5	2634.8	2608.2	2614.5	2600.4	2576.9	2559.7	2564.4	2539.3
-29°	2144.8	2144.8	2151.1	2135.4	2113.5	2121.3	2104.1	2085.3	2074.3	2074.3	2044.6
-33°	1643.8	1639.1	1648.5	1642.3	1631.3	1636.0	1612.5	1603.1	1590.6	1584.3	1562.4
-37.5°	1091.2	1089.6	1100.6	1095.9	1099.0	1102.1	1086.5	1072.4	1074.0	1066.1	1052.0
-42.5°	566.7	574.6	571.4	571.4	576.1	580.8	582.4	576.1	585.5	582.4	580.8
-47.5°	272.4	277.1	280.2	283.4	284.9	281.8	284.9	291.2	291.2	292.8	299.0
-55°	100.2	101.8	101.8	104.9	104.9	104.9	106.5	106.5	106.5	109.6	114.3
-65°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	47.0	50.1
-75°	21.9	21.9	21.9	21.9	21.9	23.5	25.0	29.7	32.9	37.6	40.7
-85°	4.7	4.7	9.4	15.7	25.0	31.3	32.9	34.4	34.4	34.4	34.4
-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: P95387

CATALOG NUMBER: VFS-K-B40-7-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°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	36.0	34.4	34.4
75°	42.3	43.8	45.4	45.4	45.4	47.0	47.0	45.4	40.7	36.0	34.4
65°	51.7	54.8	59.5	65.8	70.4	76.7	78.3	72.0	54.8	40.7	34.4
55°	104.9	112.7	123.7	134.6	145.6	151.9	148.7	120.5	72.0	45.4	34.4
47.5°	258.3	266.1	278.7	286.5	294.3	284.9	255.2	176.9	93.9	50.1	36.0
42.5°	393.0	393.0	513.5	513.5	497.8	377.3	360.1	234.8	106.5	54.8	36.0
37.5°	956.5	940.9	912.7	886.1	815.6	699.8	537.0	292.8	120.5	57.9	34.4
33°	1482.6	1451.3	1387.1	1302.5	1178.9	972.2	718.6	330.3	134.6	59.5	34.4
29°	1999.2	1942.8	1837.9	1708.0	1509.2	1210.2	873.6	353.8	147.2	62.6	34.4
25.5°	2515.8	2431.3	2276.3	2072.8	1791.0	1416.8	1011.3	364.8	156.6	62.6	32.9
22.5°	3007.4	2897.8	2692.7	2409.4	2055.6	1590.6	1110.0	369.5	164.4	64.2	32.9
19.5°	3499.0	3367.5	3107.6	2755.4	2321.7	1761.2	1210.2	375.7	172.2	64.2	32.9
17°	3876.3	3719.7	3442.6	3040.3	2533.0	1902.1	1294.7	380.4	175.3	65.8	31.3
15°	4120.5	3968.7	3675.9	3236.0	2673.9	1999.2	1358.9	382.0	180.0	65.8	31.3
13°	4328.7	4170.6	3851.2	3400.4	2805.5	2101.0	1421.5	383.6	183.2	65.8	31.3
11°	4510.3	4342.8	4012.5	3539.7	2921.3	2201.2	1476.3	540.1	186.3	65.8	29.7
9°	4648.1	4485.3	4161.2	3658.7	3029.3	2281.0	1524.8	552.6	186.3	65.8	29.7
7°	4781.2	4609.0	4277.1	3763.6	3148.3	2353.0	1570.2	557.3	187.9	65.8	29.7
5°	4873.5	4698.2	4375.7	3854.4	3228.2	2403.1	1609.4	560.5	191.0	64.2	29.7
3°	4958.1	4767.1	4436.7	3923.3	3268.9	2443.8	1631.3	563.6	191.0	64.2	28.2
1°	4994.1	4803.1	4461.8	3948.3	3297.0	2468.9	1640.7	568.3	189.4	64.2	28.2
0°	5001.9	4798.4	4455.5	3956.1	3304.9	2475.1	1647.0	699.8	189.4	64.2	28.2
-1°	4987.8	4787.4	4438.3	3948.3	3293.9	2468.9	1643.8	568.3	189.4	65.8	28.2
-3°	4929.9	4735.8	4389.8	3901.3	3248.5	2436.0	1626.6	568.3	187.9	64.2	28.2
-5°	4814.0	4637.1	4309.9	3816.8	3170.2	2393.7	1600.0	565.2	187.9	64.2	28.2
-7°	4681.0	4527.6	4194.1	3715.0	3096.6	2323.3	1565.5	558.9	187.9	64.2	29.7
-9°	4574.5	4399.2	4070.4	3613.3	3002.7	2245.0	1518.6	554.2	186.3	64.2	29.7
-11°	4438.3	4277.1	3948.3	3489.6	2890.0	2165.1	1474.7	543.2	183.2	64.2	29.7
-13°	4281.8	4117.4	3791.7	3358.1	2792.9	2083.7	1416.8	530.7	181.6	64.2	29.7
-15°	4078.2	3912.3	3602.3	3201.5	2656.7	1996.1	1362.0	521.3	178.5	64.2	29.7
-17°	3815.2	3658.7	3369.0	2999.6	2503.3	1894.3	1301.0	505.7	176.9	64.2	31.3
-19.5°	3437.9	3298.6	3055.9	2725.6	2295.1	1758.1	1222.7	490.0	175.3	64.2	31.3
-22.5°	2951.0	2838.3	2652.0	2385.9	2027.4	1584.3	1114.7	466.5	167.5	64.2	31.3
-25.5°	2484.5	2403.1	2271.6	2066.5	1784.7	1419.9	1017.6	438.4	159.7	64.2	32.9
-29°	2008.6	1952.2	1872.4	1720.5	1512.3	1229.0	897.1	400.8	150.3	62.6	32.9
-33°	1545.2	1506.1	1449.7	1347.9	1207.0	1003.5	740.5	356.9	137.8	59.5	34.4
-37.5°	1044.2	1028.6	998.8	945.6	862.6	742.1	568.3	305.3	122.1	57.9	34.4
-42.5°	579.3	574.6	577.7	557.3	535.4	383.6	364.8	245.8	109.6	54.8	36.0
-47.5°	303.7	308.4	314.7	322.5	328.8	308.4	275.5	187.9	97.1	50.1	36.0
-55°	120.5	126.8	137.8	150.3	161.3	167.5	162.8	128.4	75.1	47.0	36.0
-65°	53.2	57.9	64.2	68.9	75.1	81.4	84.5	76.7	56.4	40.7	34.4
-75°	43.8	45.4	47.0	47.0	48.5	48.5	50.1	48.5	42.3	36.0	34.4
-85°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	34.4	34.4
-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: VFS-K-B40-7-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)