

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: P162645

Luminaire Tested: **EMM-E03-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P162645
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: EMM-E03-LED-E1-SL4-HSS-8030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898.4 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

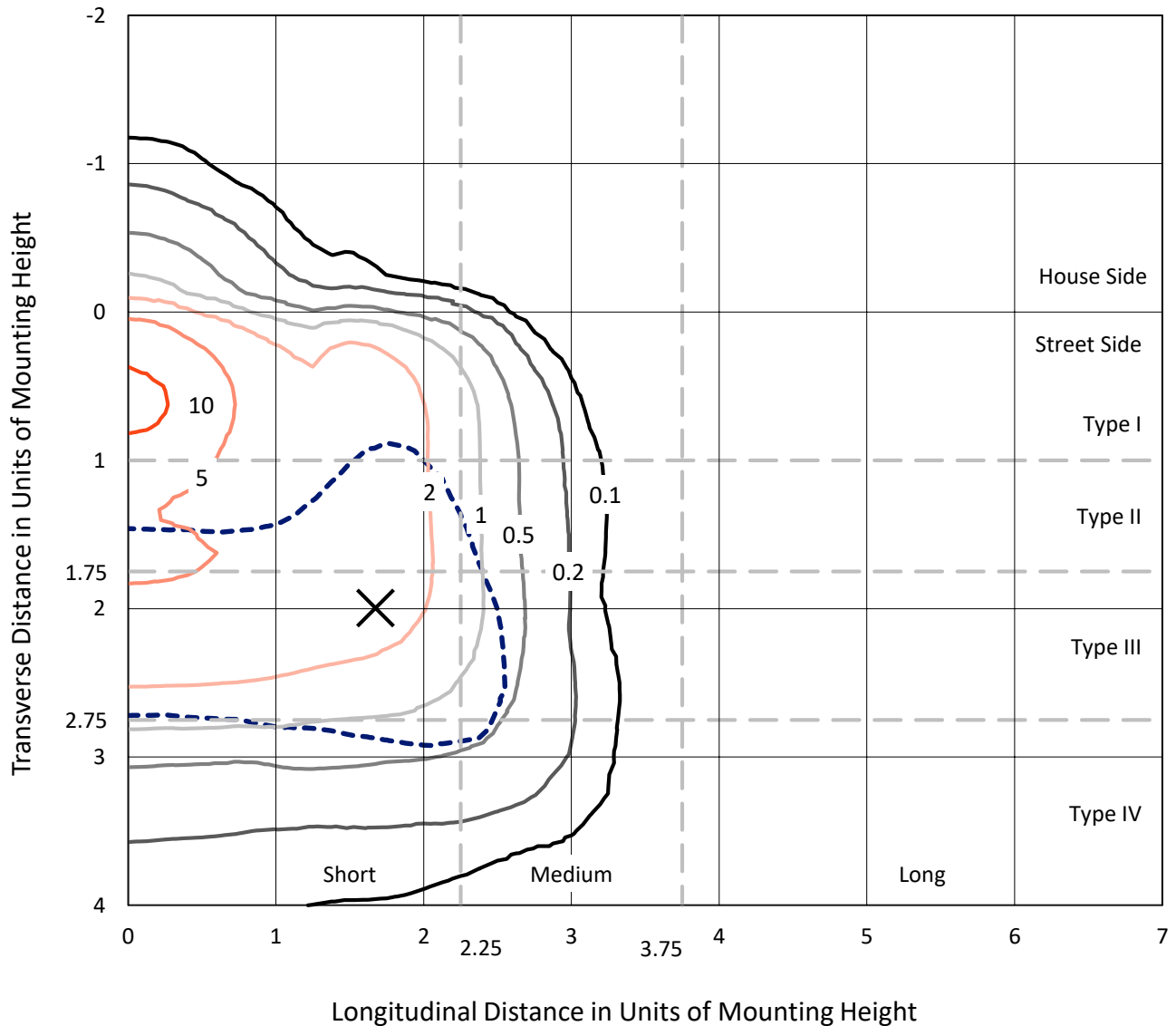
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

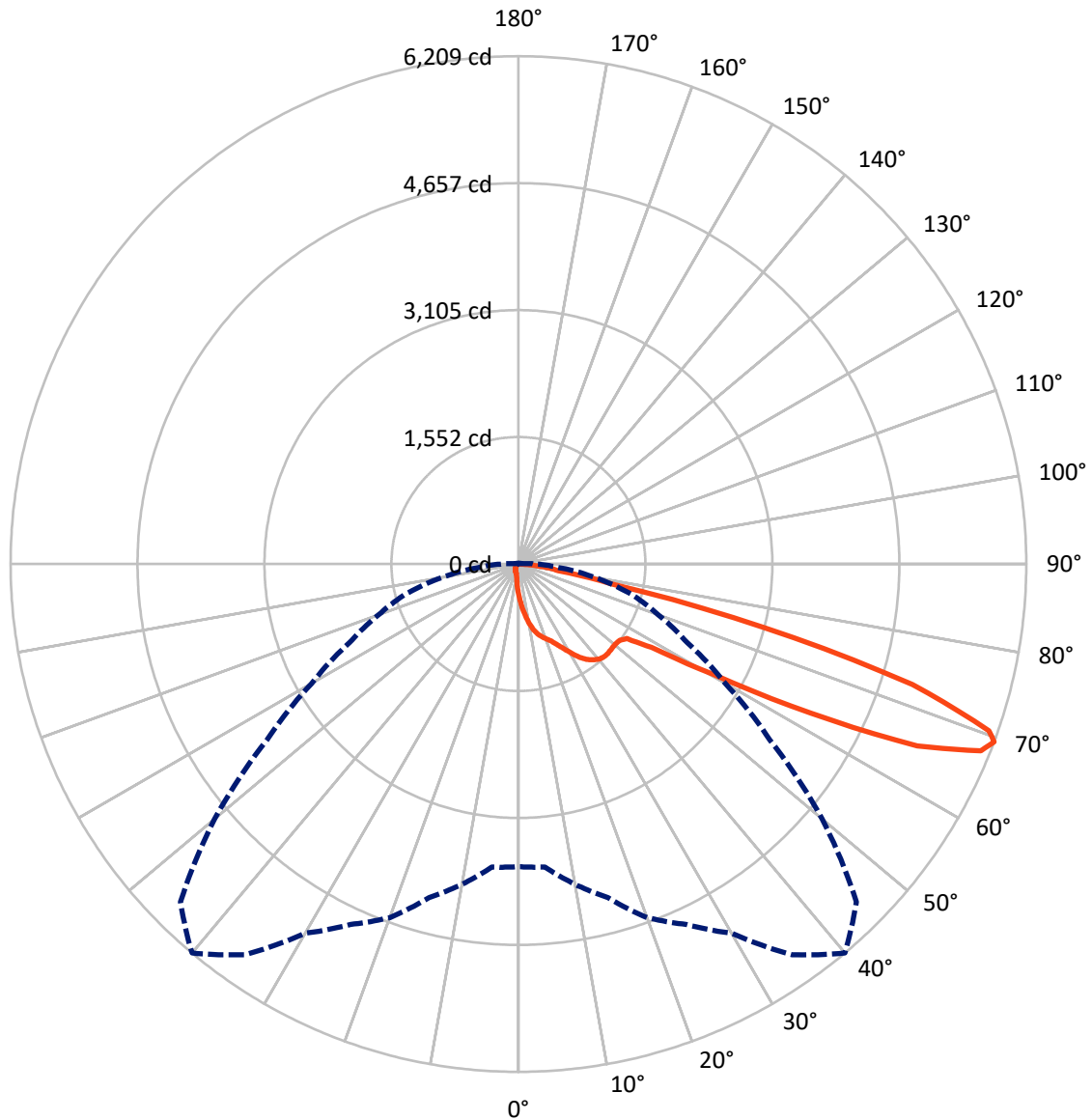
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	145.9	0.0	145.9
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	4752.5	0.0	4752.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	4898.4	0.0	4898.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.8
10°-20°	131.1	2.7
20°-30°	250.9	5.1
30°-40°	417.3	8.5
40°-50°	564.6	11.5
50°-60°	883.0	18.0
60°-70°	1815.4	37.1
70°-80°	730.5	14.9
80°-90°	67.6	1.4
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°	4898.4	100.0
0°-180°	4898.4	100.0



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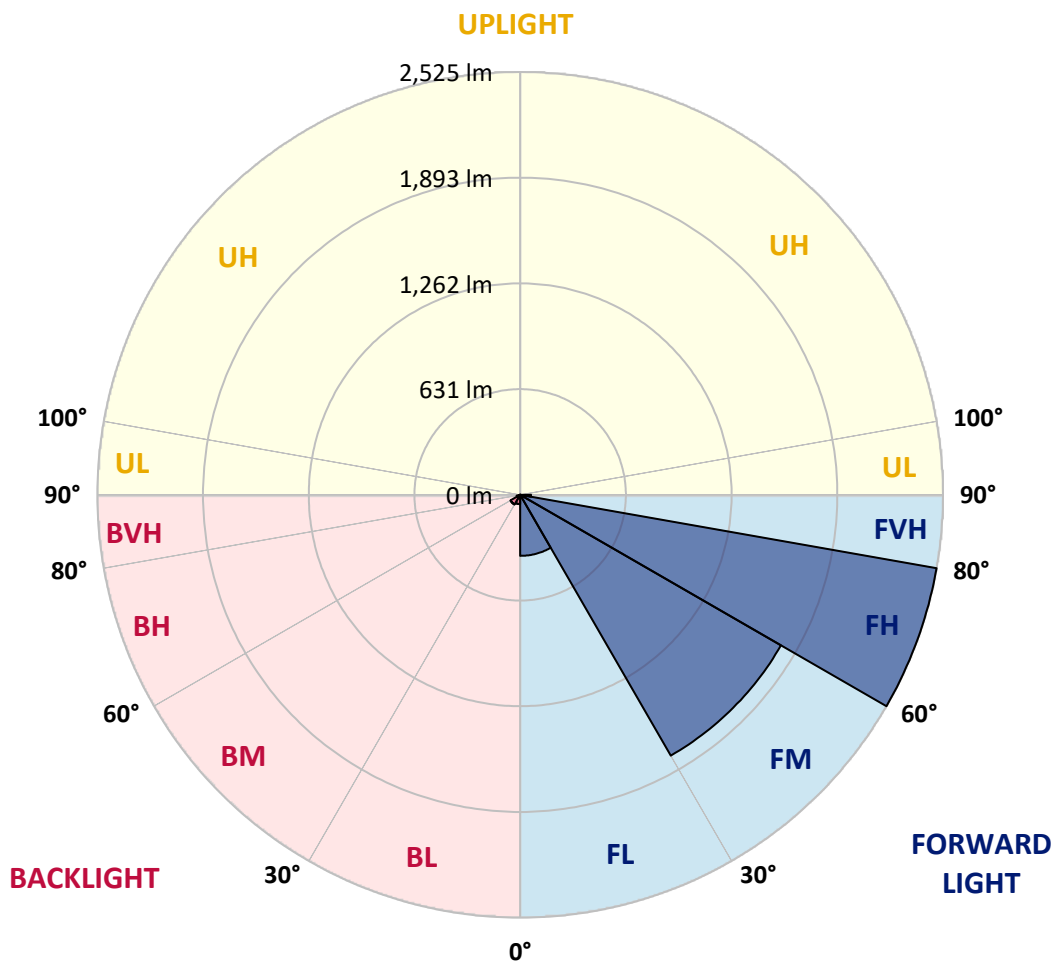
CATALOG NUMBER: EMM-E03-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.5	7.4			
FM (30°-60°)	1798.3	36.7			
FH (60°-80°)	2524.7	51.5			G2/5000
FVH (80°-90°)	65.1	1.3			G1/100
BL (0°-30°)	55.5	1.1	B0/110		
BM (30°-60°)	66.6	1.4	B0/220		
BH (60°-80°)	21.3	0.4	B0/110		G0/110
BVH (80°-90°)	2.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9
2.5°	493.5	487.9	481.5	481.5	473.4	473.4	468.6	455.8	454.2	447.0	439.7
5°	629.9	625.1	617.0	609.9	603.5	592.2	584.2	568.9	552.1	536.0	521.6
7.5°	763.1	760.7	746.3	743.9	733.4	714.9	698.9	676.5	647.6	625.1	598.6
10°	886.7	881.0	877.8	864.2	849.0	828.9	804.1	776.7	743.0	707.8	670.0
12.5°	984.6	981.4	967.0	961.3	945.3	925.2	893.9	858.6	824.9	779.2	735.0
15°	1057.6	1052.0	1042.3	1033.6	1014.3	996.6	967.7	929.2	888.3	838.5	785.6
17.5°	1118.6	1108.2	1105.7	1092.1	1072.0	1051.2	1019.1	983.8	935.6	885.9	828.1
20°	1200.4	1186.0	1181.2	1161.1	1137.9	1109.0	1072.0	1027.9	977.3	922.8	863.4
22.5°	1296.7	1286.3	1275.9	1258.2	1228.5	1187.6	1133.8	1085.7	1021.5	961.3	897.1
25°	1433.2	1424.3	1407.4	1383.4	1346.5	1297.6	1232.6	1161.9	1086.5	1009.5	934.0
27.5°	1565.5	1557.5	1545.5	1527.0	1485.3	1431.6	1351.3	1261.4	1166.0	1072.9	989.4
30°	1689.9	1682.7	1670.7	1652.2	1615.3	1562.3	1471.7	1375.4	1256.6	1148.2	1048.0
32.5°	1823.9	1821.5	1807.9	1781.4	1749.3	1677.9	1579.2	1475.6	1355.3	1230.1	1113.0
35°	1975.6	1957.1	1944.3	1917.8	1863.3	1787.0	1671.4	1558.3	1431.6	1303.1	1172.4
37.5°	2104.0	2086.3	2070.3	2036.6	1970.0	1872.9	1742.1	1617.7	1486.9	1356.1	1222.9
40°	2197.8	2189.1	2169.8	2125.7	2051.0	1935.4	1794.2	1658.6	1527.0	1395.5	1263.8
42.5°	2267.6	2254.0	2232.4	2186.6	2098.3	1966.8	1815.1	1675.5	1545.5	1419.5	1290.3
45°	2293.4	2282.2	2262.1	2212.3	2116.8	1975.6	1814.3	1670.7	1546.3	1426.8	1307.9
47.5°	2278.1	2266.9	2249.2	2202.6	2108.8	1965.1	1799.9	1657.0	1538.3	1429.1	1324.1
50°	2227.5	2221.1	2207.5	2168.2	2083.9	1945.1	1787.0	1649.8	1536.7	1441.2	1346.5
52.5°	2222.7	2218.8	2201.9	2162.6	2076.7	1938.6	1785.4	1653.8	1550.3	1456.4	1362.5
55°	2716.2	2659.2	2531.6	2423.4	2245.2	2033.3	1866.5	1718.8	1608.1	1516.6	1450.8
57.5°	3860.5	3775.4	3607.7	3401.5	2992.3	2590.3	2268.5	2035.8	1921.0	1879.3	1904.2
60°	4396.5	4381.2	4354.8	4256.9	4047.4	3701.7	3316.5	2900.0	2733.1	2718.7	2769.2
62.5°	4650.9	4641.3	4649.3	4637.2	4572.2	4471.1	4360.4	4180.7	4015.4	3908.7	3682.3
65°	4768.0	4774.5	4820.2	4856.3	4864.3	4890.8	4971.9	5195.8	5359.4	5084.2	4455.9
67.5°	4470.4	4508.1	4613.2	4744.7	4898.9	5048.1	5288.9	5760.7	6096.9	5773.5	4881.2
69°	3700.8	3719.3	3976.0	4224.0	4600.3	4863.6	5212.6	5831.3	6209.2	5844.1	4847.5
70°	2913.6	2930.5	3205.7	3542.7	4179.1	4517.7	4974.3	5711.7	6104.1	5750.2	4674.2
72.5°	1314.3	1290.3	1387.4	1568.0	2259.6	2797.2	3595.7	4627.6	5036.1	4606.8	3497.0
75°	918.0	907.5	918.0	918.8	1026.3	1324.1	1670.7	2508.4	3102.2	2676.9	1670.7
77.5°	711.0	703.7	696.5	688.5	701.4	785.6	819.3	889.9	1155.5	1092.9	637.1
80°	562.5	556.1	573.7	568.1	568.1	577.7	571.3	544.9	495.1	459.0	410.9
82.5°	261.6	263.2	263.2	285.7	344.3	402.0	420.5	394.0	349.8	297.7	239.9
85°	24.9	28.1	47.3	73.0	145.3	163.7	164.5	136.4	136.4	107.5	86.7
87.5°	0.0	0.8	0.8	0.8	7.3	20.1	16.9	4.8	2.4	2.4	4.1
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9
2.5°	426.9	424.5	414.8	405.2	396.4	386.8	377.9	369.1	359.5	352.3	343.4
5°	499.1	481.5	461.4	442.2	422.9	402.8	382.0	363.5	344.3	326.6	309.7
7.5°	572.1	537.6	510.4	475.8	444.5	413.2	384.4	354.6	327.4	301.7	277.7
10°	633.9	592.2	549.7	505.6	460.6	418.9	378.8	343.4	307.3	276.1	246.4
12.5°	684.5	631.5	579.3	523.9	473.4	420.5	370.8	328.2	285.7	250.3	219.9
15°	730.2	669.2	606.7	542.4	478.3	418.0	362.7	309.7	266.4	226.3	191.8
17.5°	767.1	697.3	626.7	554.5	485.5	414.8	352.3	296.9	246.4	204.6	170.9
20°	799.3	726.2	650.0	568.9	490.3	414.1	343.4	280.9	228.7	184.6	151.7
22.5°	828.9	755.9	674.0	587.4	497.5	413.2	335.4	268.8	213.4	169.3	136.4
25°	862.6	785.6	699.8	606.7	510.4	416.4	330.6	259.2	199.8	154.9	124.4
27.5°	900.4	819.3	730.2	630.7	527.2	422.9	329.0	248.7	187.8	141.2	114.8
30°	953.3	859.4	760.7	654.8	542.4	430.1	327.4	242.3	175.7	130.8	105.1
32.5°	999.8	898.8	794.4	679.7	559.3	437.4	326.6	233.5	164.5	120.4	97.9
35°	1048.7	934.8	823.3	703.7	573.7	445.4	325.8	227.1	154.0	110.0	90.6
37.5°	1091.3	965.4	845.8	724.6	589.8	452.5	326.6	221.5	144.4	101.1	84.2
40°	1127.4	996.6	870.7	743.9	606.7	463.8	327.4	215.9	134.8	93.1	78.7
42.5°	1159.5	1026.3	897.1	765.5	625.9	476.7	332.2	211.0	126.8	85.8	73.0
45°	1184.4	1053.6	926.0	796.1	657.2	497.5	341.1	207.8	118.7	79.4	68.2
47.5°	1210.0	1093.7	975.0	844.2	703.0	530.4	356.2	207.0	112.3	74.6	64.2
50°	1245.4	1133.8	1018.3	893.1	744.7	564.1	374.7	207.8	104.3	69.8	60.2
52.5°	1271.1	1174.8	1074.5	978.2	844.2	666.8	446.1	222.3	100.3	65.8	55.4
55°	1422.7	1405.8	1408.3	1424.3	1320.8	1134.7	746.3	321.0	118.0	74.6	54.6
57.5°	2006.1	2065.5	2099.9	2099.2	1928.3	1599.3	1002.2	412.5	131.6	86.7	65.0
60°	2773.2	2728.3	2664.9	2508.4	2281.3	1825.6	1121.0	443.8	113.9	69.0	59.4
62.5°	3451.2	3188.1	2954.6	2701.0	2403.3	1904.2	1145.0	441.3	99.5	52.2	41.7
65°	3874.2	3400.7	3023.6	2705.8	2355.2	1838.4	1083.3	405.2	84.2	42.5	34.5
67.5°	3975.3	3286.0	2752.3	2347.1	1967.6	1430.7	795.2	304.9	65.8	35.3	30.5
69°	3754.6	2920.9	2280.5	1820.7	1431.6	949.2	491.9	192.6	50.6	32.1	28.1
70°	3453.7	2540.5	1857.6	1461.2	1060.1	666.8	344.3	135.6	40.9	29.7	25.7
72.5°	2222.0	1334.4	913.2	635.5	437.4	265.6	134.8	61.0	31.3	24.9	20.8
75°	861.8	493.5	357.9	272.0	212.7	147.6	81.9	39.3	26.5	20.8	16.0
77.5°	424.5	325.0	265.6	182.1	105.9	65.8	44.1	30.5	21.7	15.3	10.5
80°	335.4	223.1	133.2	82.6	62.6	47.3	33.7	24.9	16.0	9.6	7.3
82.5°	171.8	93.9	69.0	56.2	46.5	36.9	27.3	17.6	10.5	6.4	5.7
85°	53.8	39.3	35.3	34.5	32.1	26.5	19.2	11.2	6.4	4.1	4.1
87.5°	4.1	5.7	7.3	5.7	6.4	5.7	7.3	4.8	3.2	3.2	2.4
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9
2.5°	337.0	327.4	318.6	313.0	302.5	298.5	294.5	292.9	285.7	287.3	280.9
5°	294.5	277.7	264.8	251.9	239.9	231.1	223.9	215.0	207.8	204.6	198.2
7.5°	256.0	234.3	217.5	203.8	189.4	178.2	168.5	162.1	155.6	149.2	146.0
10°	222.3	199.0	179.8	166.1	152.4	142.8	135.6	130.8	126.8	124.4	123.6
12.5°	191.0	168.5	150.8	138.8	128.4	123.6	120.4	118.0	117.1	116.4	116.4
15°	166.9	144.4	130.8	122.0	117.1	114.8	113.9	112.3	110.7	110.0	110.0
17.5°	144.4	127.6	118.0	113.2	110.7	109.1	107.5	105.9	104.3	103.5	103.5
20°	129.2	115.5	110.7	107.5	105.1	103.5	101.1	99.5	98.7	97.9	97.1
22.5°	117.1	108.4	105.1	102.7	99.5	97.1	95.5	93.9	92.2	91.5	90.6
25°	108.4	102.7	100.3	97.1	93.9	91.5	89.0	86.7	85.1	84.2	82.6
27.5°	101.9	97.9	94.7	90.6	87.4	85.1	82.6	80.3	78.7	77.1	76.2
30°	96.3	92.2	88.3	85.1	81.0	78.7	75.5	73.0	72.2	70.6	69.0
32.5°	90.6	86.7	82.6	78.7	74.6	71.4	69.8	66.6	65.0	64.2	62.6
35°	84.2	80.3	75.5	72.2	68.2	65.0	62.6	60.2	58.6	57.0	56.2
37.5°	78.7	73.8	69.0	65.0	61.8	58.6	56.2	53.8	52.2	50.6	49.7
40°	72.2	67.4	62.6	58.6	55.4	53.0	50.6	48.1	46.5	45.7	45.7
42.5°	66.6	61.0	56.2	53.0	50.6	47.3	44.9	42.5	41.7	40.9	41.7
45°	61.0	55.4	51.3	48.1	45.7	42.5	40.1	38.5	37.7	38.5	39.3
47.5°	56.2	50.6	46.5	44.1	41.7	39.3	36.9	35.3	35.3	36.9	38.5
50°	51.3	45.7	42.5	40.9	38.5	36.1	32.9	32.1	32.9	34.5	36.1
52.5°	46.5	40.1	37.7	36.9	34.5	32.1	29.7	28.9	29.7	31.3	30.5
55°	41.7	35.3	34.5	33.7	31.3	28.1	25.7	25.7	25.7	24.9	23.3
57.5°	40.1	31.3	30.5	29.7	27.3	24.1	22.5	20.8	20.1	17.6	16.9
60°	41.7	28.1	28.1	26.5	24.1	20.8	18.5	16.0	14.4	12.8	12.8
62.5°	33.7	25.7	24.9	23.3	20.1	16.9	14.4	12.1	11.2	10.5	10.5
65°	27.3	23.3	21.7	19.2	16.9	13.7	11.2	9.6	8.9	8.9	9.6
67.5°	24.9	20.8	18.5	16.0	13.7	10.5	8.9	8.0	8.0	8.9	8.9
69°	23.3	19.2	16.9	14.4	12.1	9.6	8.0	8.0	8.0	8.0	8.9
70°	21.7	18.5	16.0	13.7	10.5	8.0	7.3	7.3	8.0	8.0	8.9
72.5°	16.9	14.4	13.7	11.2	8.0	7.3	6.4	7.3	7.3	8.0	8.0
75°	12.8	10.5	10.5	8.9	6.4	5.7	5.7	6.4	6.4	7.3	7.3
77.5°	8.9	7.3	7.3	6.4	5.7	4.8	4.8	5.7	6.4	6.4	7.3
80°	6.4	5.7	4.8	5.7	4.8	4.1	4.8	5.7	5.7	6.4	6.4
82.5°	4.8	4.8	4.8	4.8	4.1	4.1	4.8	4.8	5.7	6.4	6.4
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.8	4.8	5.7	5.7
87.5°	2.4	2.4	2.4	3.2	3.2	4.1	4.1	4.1	4.1	4.8	4.8
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: P162645
 CATALOG NUMBER: EMM-E03-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	369.9	369.9	369.9	369.9
2.5°	279.3	278.4	275.2	276.1
5°	195.8	191.0	194.2	193.4
7.5°	143.6	142.8	142.0	143.6
10°	122.8	122.8	122.0	122.8
12.5°	115.5	115.5	115.5	115.5
15°	110.0	110.0	109.1	109.1
17.5°	103.5	103.5	103.5	102.7
20°	97.1	96.3	96.3	96.3
22.5°	89.9	89.0	89.0	89.0
25°	82.6	81.9	81.9	81.9
27.5°	75.5	74.6	73.8	73.8
30°	68.2	67.4	66.6	66.6
32.5°	61.0	60.2	59.4	59.4
35°	54.6	54.6	53.8	53.0
37.5°	49.0	49.0	49.0	49.0
40°	44.9	45.7	45.7	45.7
42.5°	42.5	43.3	44.1	44.9
45°	40.9	42.5	43.3	43.3
47.5°	40.1	40.9	41.7	41.7
50°	36.9	36.1	36.1	36.1
52.5°	29.7	28.1	27.3	26.5
55°	21.7	20.8	19.2	19.2
57.5°	15.3	15.3	14.4	14.4
60°	12.1	12.1	11.2	12.1
62.5°	10.5	10.5	10.5	10.5
65°	9.6	9.6	9.6	9.6
67.5°	9.6	9.6	9.6	9.6
69°	8.9	8.9	8.9	8.9
70°	8.9	8.9	8.9	8.9
72.5°	8.0	8.0	8.0	8.0
75°	7.3	8.0	8.0	8.0
77.5°	7.3	7.3	7.3	7.3
80°	6.4	6.4	7.3	7.3
82.5°	6.4	6.4	6.4	6.4
85°	5.7	5.7	6.4	6.4
87.5°	4.8	4.8	5.7	5.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)