

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: P141388

Luminaire Tested: **ECM-E02-LED-E1-SLL-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141388
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E02-LED-E1-SLL-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4415 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

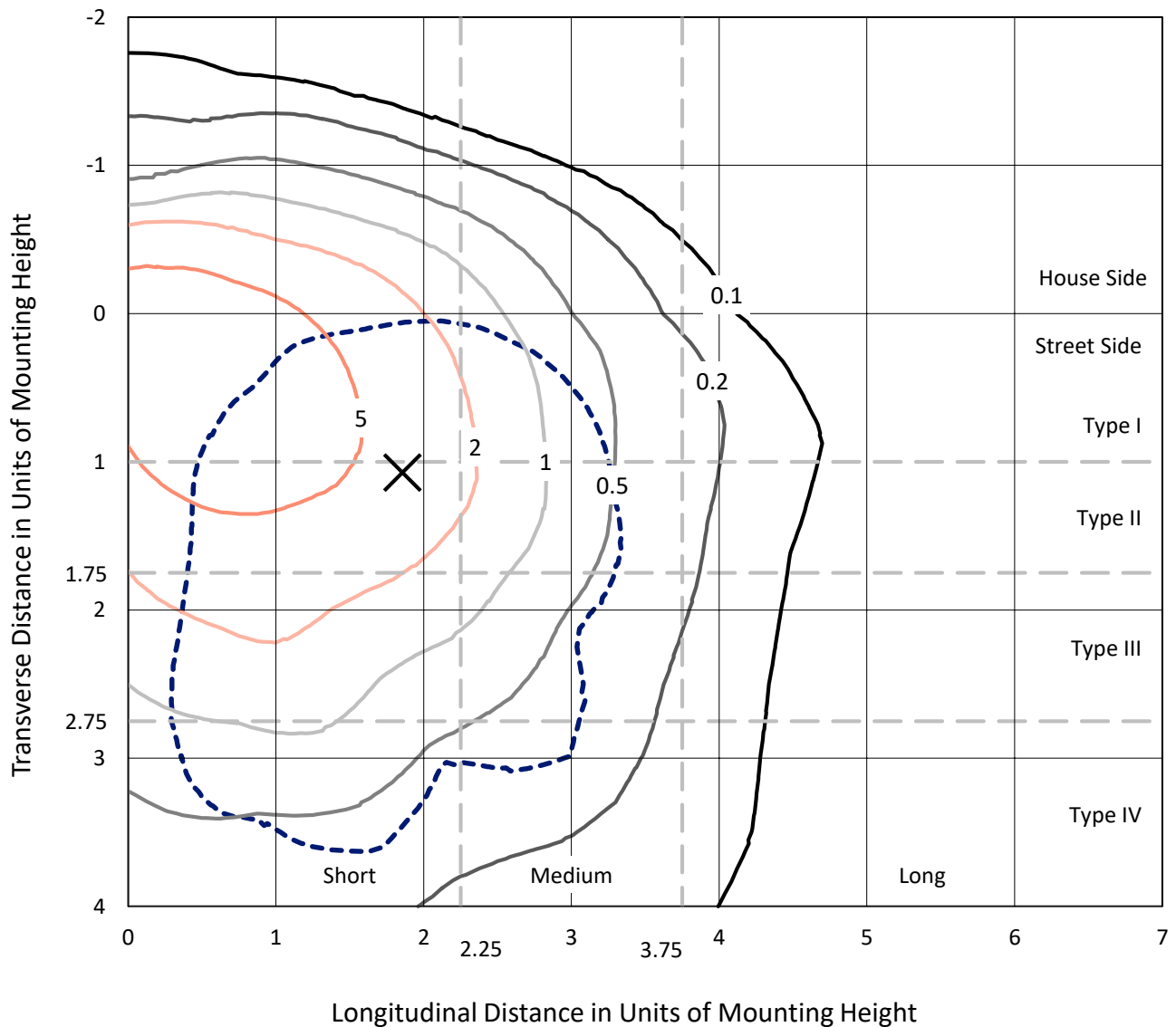
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

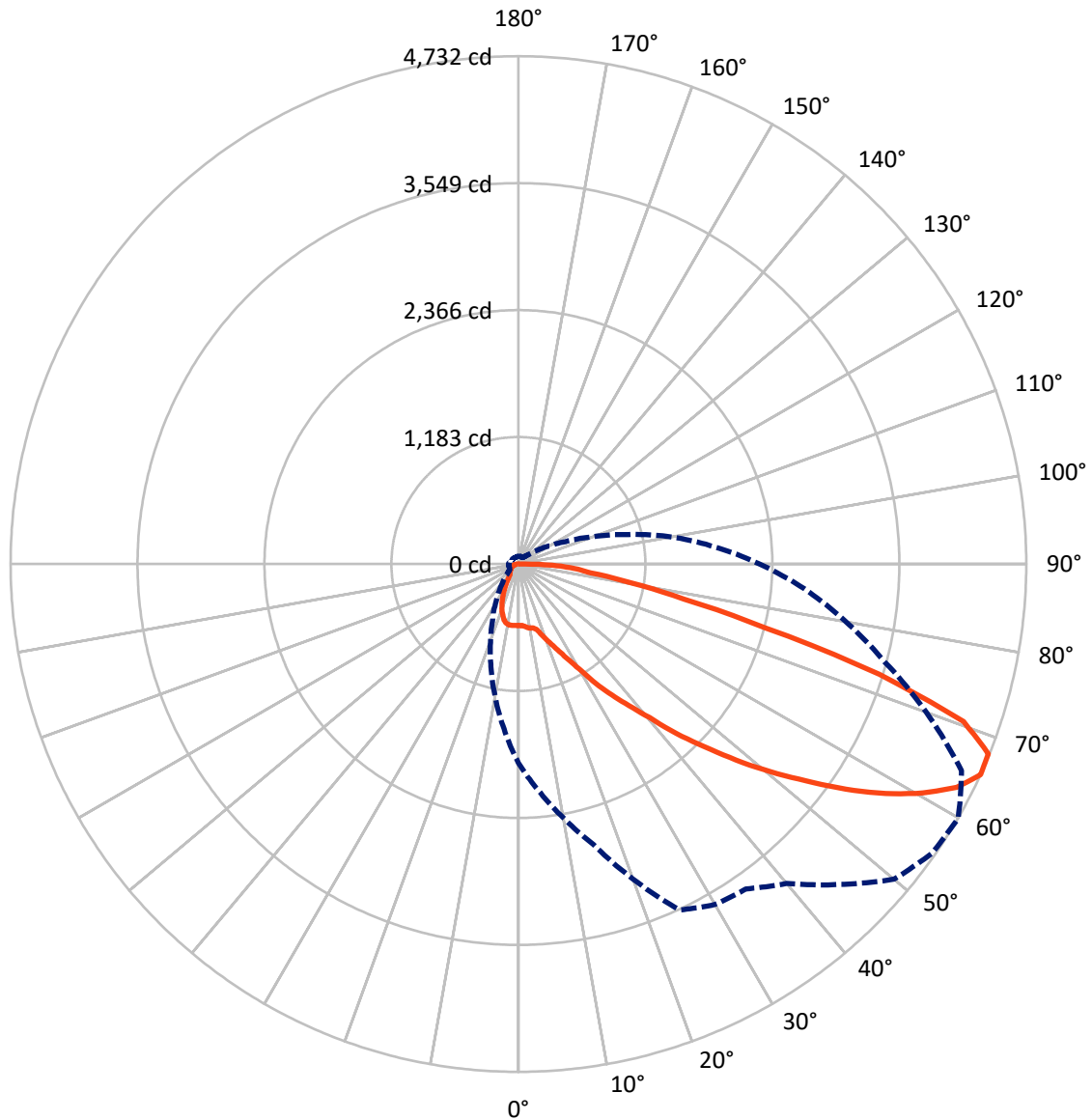
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	818.9	0.0	818.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3596.1	0.0	3596.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	4415.0	0.0	4415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	1.3
10°-20°	166.8	3.8
20°-30°	277.1	6.3
30°-40°	405.0	9.2
40°-50°	616.1	14.0
50°-60°	885.6	20.1
60°-70°	1088.8	24.7
70°-80°	728.4	16.5
80°-90°	191.6	4.3
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°	4415.0	100.0
0°-180°	4415.0	100.0

Coefficient of Utilization



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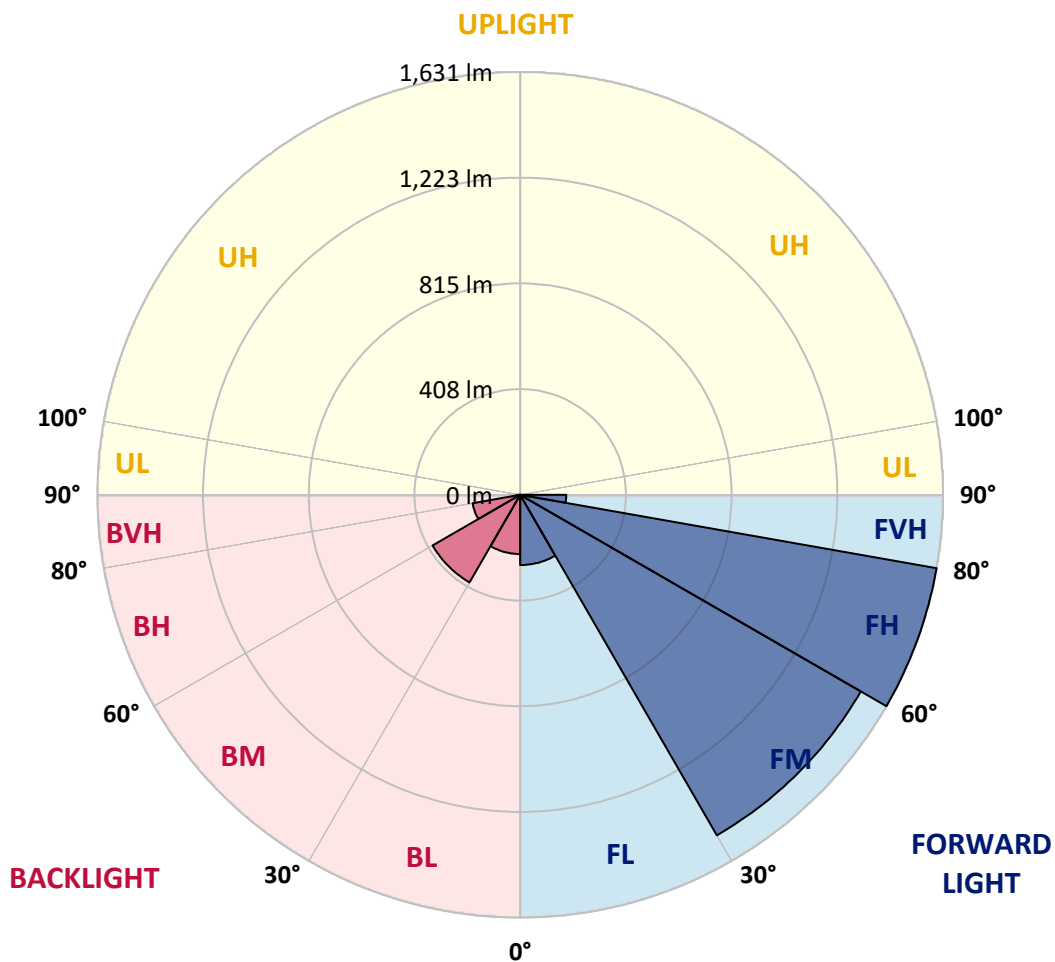
CATALOG NUMBER: ECM-E02-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.8	6.1			
FM	(30°-60°)	1516.7	34.4			
FH	(60°-80°)	1630.9	36.9			G1/1800
FVH	(80°-90°)	177.7	4.0			G2/225
BL	(0°-30°)	228.5	5.2	B1/500		
BM	(30°-60°)	390.0	8.8	B1/1000		
BH	(60°-80°)	186.4	4.2	B1/500		G1/500
BVH	(80°-90°)	13.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9
2.5°	574.5	575.0	575.0	574.5	573.9	574.5	573.4	574.5	573.9	573.4	573.9
5°	567.2	567.7	568.8	568.8	570.0	572.2	572.8	575.6	577.3	577.9	580.1
7.5°	549.7	552.5	554.2	556.5	559.8	565.5	569.4	576.2	581.2	585.7	591.9
10°	539.0	542.4	545.8	550.8	555.9	563.2	570.0	578.4	585.2	591.9	599.2
12.5°	541.8	545.8	550.3	554.2	562.1	568.8	577.3	587.4	590.8	597.5	603.7
15°	564.9	568.3	571.7	576.2	583.5	591.4	602.6	613.9	616.1	623.4	630.2
17.5°	595.9	596.4	602.0	609.9	616.7	629.6	643.1	658.3	667.9	672.4	676.3
20°	627.9	629.6	638.6	645.9	661.1	678.0	697.7	720.2	728.1	747.8	755.1
22.5°	675.8	675.2	685.9	696.0	712.9	730.9	759.6	790.5	808.5	823.7	829.4
25°	748.3	750.0	748.3	763.0	780.4	809.7	838.4	869.3	880.0	906.4	918.8
27.5°	820.4	833.3	850.7	855.2	876.6	910.4	932.9	966.1	992.0	999.3	1019.5
30°	887.3	914.3	943.0	967.2	1005.5	1046.5	1080.3	1118.0	1119.7	1133.2	1138.8
32.5°	955.4	997.6	1039.8	1070.7	1107.9	1162.5	1224.9	1286.2	1326.2	1367.3	1346.4
35°	1040.9	1106.8	1165.8	1213.7	1245.2	1295.8	1367.8	1467.4	1531.6	1580.5	1608.6
37.5°	1119.1	1218.7	1309.3	1377.4	1454.5	1490.5	1537.8	1609.8	1683.5	1729.1	1752.7
40°	1176.5	1312.7	1441.0	1539.4	1637.3	1723.4	1783.1	1841.6	1941.2	1998.0	2002.5
42.5°	1221.5	1394.8	1549.6	1690.8	1834.8	1955.2	2027.3	2101.5	2228.1	2294.0	2288.9
45°	1252.5	1456.2	1648.0	1821.9	1996.3	2153.3	2292.3	2402.6	2532.0	2657.4	2632.1
47.5°	1279.5	1506.8	1726.2	1922.6	2131.9	2327.7	2501.0	2656.3	2827.4	2996.7	3006.9
50°	1306.5	1547.9	1797.1	2023.3	2259.1	2505.0	2714.3	2914.0	3127.8	3343.3	3392.8
52.5°	1343.6	1594.0	1863.0	2115.0	2389.1	2648.4	2881.9	3130.6	3395.1	3603.3	3743.9
55°	1399.3	1658.2	1944.6	2206.8	2505.5	2791.4	3049.6	3336.6	3579.6	3836.8	4037.1
57.5°	1490.5	1743.7	2039.1	2306.9	2618.1	2920.8	3189.2	3490.2	3722.0	4007.3	4258.8
60°	1605.8	1860.2	2146.0	2425.6	2750.3	3102.5	3373.2	3596.0	3828.3	4117.0	4419.7
62.5°	1736.9	1991.8	2276.5	2565.2	2934.3	3315.8	3548.1	3675.3	3877.9	4192.4	4523.8
65°	1852.3	2115.0	2399.2	2705.3	3122.8	3556.6	3663.5	3695.6	3885.2	4222.8	4568.8
67.5°	1946.8	2249.0	2514.0	2818.9	3321.4	3709.6	3665.7	3601.6	3785.6	4149.1	4482.7
70°	1996.3	2308.6	2568.5	2829.1	3363.6	3731.0	3577.4	3403.0	3486.8	3842.4	4121.5
72.5°	1941.7	2261.9	2467.3	2629.3	3111.0	3467.7	3271.9	2942.7	3019.2	3363.6	3435.6
75°	1727.9	2114.5	2234.3	2228.7	2488.1	2672.6	2530.8	2321.0	2516.2	2659.7	2586.0
77.5°	1290.2	1731.9	1798.8	1675.6	1730.7	1886.0	1752.1	1915.3	2152.2	2216.9	2077.3
80°	811.4	1269.4	1276.7	1123.1	1093.8	1154.6	1327.3	1674.5	1900.7	1887.2	1702.6
82.5°	451.8	823.2	901.4	760.7	724.7	873.8	1182.1	1366.7	1336.9	1325.6	1085.4
85°	308.9	562.1	687.0	658.9	728.6	871.6	969.5	866.5	834.4	710.6	576.7
87.5°	125.5	253.2	425.9	489.5	519.3	637.5	558.2	454.6	350.0	332.0	285.3
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°	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9
2.5°	572.2	573.4	573.4	573.9	574.5	575.0	575.0	575.0	575.6	576.2	575.6
5°	580.7	582.4	583.5	583.5	584.6	585.7	586.9	586.3	588.0	589.1	589.7
7.5°	594.2	597.5	600.4	602.6	603.7	603.7	603.7	602.0	603.7	604.3	604.9
10°	603.7	607.7	608.2	610.5	609.9	609.4	608.2	607.1	607.7	608.8	610.5
12.5°	606.5	610.5	611.6	613.3	612.7	612.2	609.9	609.9	609.4	611.0	612.7
15°	629.6	633.0	638.6	633.6	634.1	629.6	625.7	623.4	622.3	623.4	624.6
17.5°	682.5	688.1	685.9	678.0	677.4	667.9	666.2	654.9	654.9	654.9	651.6
20°	755.1	754.5	750.6	742.7	725.8	722.5	710.1	701.1	692.6	690.9	687.0
22.5°	834.4	826.0	823.7	807.4	796.7	776.5	757.9	751.2	743.3	741.6	741.0
25°	911.5	914.9	898.6	890.7	863.7	845.7	835.0	818.1	818.1	815.9	813.0
27.5°	1008.3	1019.5	1001.5	990.3	965.0	939.6	921.1	910.9	900.3	892.9	872.7
30°	1145.0	1152.3	1140.0	1116.9	1085.4	1040.4	1015.0	1003.8	984.1	959.3	926.1
32.5°	1337.4	1327.3	1285.1	1244.6	1203.5	1160.8	1130.4	1110.1	1079.7	1030.2	967.2
35°	1586.7	1499.5	1446.6	1390.9	1343.6	1295.8	1272.7	1236.2	1167.0	1086.5	1002.1
37.5°	1709.4	1670.5	1609.8	1568.1	1511.9	1464.0	1411.7	1349.3	1259.8	1144.5	1027.4
40°	1955.2	1882.1	1834.8	1787.6	1718.4	1653.1	1582.2	1481.5	1337.4	1194.0	1047.1
42.5°	2213.5	2159.5	2074.0	2010.9	1959.2	1851.2	1738.6	1598.0	1416.8	1239.0	1065.1
45°	2550.0	2426.2	2320.4	2267.0	2165.1	2033.5	1902.4	1701.5	1489.9	1286.2	1085.4
47.5°	2888.1	2728.9	2619.7	2520.2	2411.6	2234.9	2030.6	1791.5	1546.2	1325.6	1102.3
50°	3251.1	3041.2	2915.1	2795.9	2616.9	2403.1	2143.2	1865.8	1604.7	1362.8	1117.4
52.5°	3620.2	3355.1	3175.1	3036.1	2814.4	2550.0	2245.0	1942.9	1667.2	1398.8	1129.8
55°	3952.1	3703.4	3471.1	3256.7	2990.0	2682.8	2338.4	2012.1	1723.4	1436.5	1137.7
57.5°	4253.2	4036.5	3759.1	3471.6	3151.5	2806.0	2424.5	2086.9	1776.3	1464.0	1137.1
60°	4459.6	4333.0	4045.0	3694.4	3320.3	2919.1	2528.0	2170.2	1823.0	1483.7	1132.6
62.5°	4608.2	4582.9	4331.4	3908.8	3458.1	3020.9	2628.2	2239.4	1856.8	1486.0	1113.5
65°	4701.0	4732.0	4555.3	4045.0	3535.2	3098.6	2677.7	2245.6	1832.6	1448.9	1062.9
67.5°	4642.5	4722.4	4554.2	3985.9	3461.5	3026.0	2605.1	2142.0	1703.7	1333.5	949.2
70°	4279.6	4399.4	4233.5	3594.3	3100.8	2745.8	2337.9	1839.9	1465.7	1098.3	750.0
72.5°	3356.8	3514.9	3369.8	2931.5	2566.9	2269.8	1967.1	1444.9	1117.4	806.9	504.1
75°	2315.9	2376.7	2290.0	1987.3	1875.3	1759.4	1476.4	971.2	738.2	498.0	296.5
77.5°	1796.6	1576.6	1410.6	1286.8	1284.6	1263.2	966.1	581.2	441.7	274.0	164.9
80°	1350.9	1060.6	875.5	765.8	796.2	890.1	563.2	298.2	228.4	151.4	101.3
82.5°	889.0	676.9	540.2	478.3	483.3	558.2	283.0	164.3	112.5	86.1	65.8
85°	541.8	526.1	469.3	425.9	392.7	383.7	220.0	126.0	62.5	44.5	33.8
87.5°	264.5	313.4	382.6	387.7	333.1	282.5	114.2	36.0	26.4	14.1	10.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9
2.5°	576.2	579.0	577.9	577.3	577.3	580.1	580.1	579.0	579.0	579.5	579.5
5°	589.7	592.5	591.4	591.9	593.0	593.6	595.3	593.6	592.5	593.6	593.0
7.5°	605.4	608.2	607.7	608.8	609.9	611.0	612.2	611.6	610.5	610.5	609.9
10°	612.2	617.8	620.1	622.3	625.1	626.2	627.9	627.9	625.7	625.7	622.9
12.5°	616.7	621.2	626.8	630.2	635.2	639.2	640.9	641.4	639.7	637.5	634.7
15°	626.2	629.6	635.2	638.6	644.8	649.9	653.2	652.7	650.4	644.2	635.8
17.5°	649.9	649.3	651.6	653.8	655.5	658.3	657.2	652.1	641.4	630.2	618.4
20°	685.3	684.8	681.4	676.3	670.1	662.3	649.9	634.7	616.7	596.4	578.4
22.5°	735.4	730.3	725.8	712.3	690.9	664.5	632.4	602.6	581.2	561.5	541.8
25°	801.8	789.4	767.5	736.0	702.2	662.8	616.1	576.2	549.2	526.1	506.4
27.5°	843.4	814.7	778.2	734.8	689.8	639.2	587.4	548.0	517.6	492.3	469.8
30°	878.9	827.1	775.9	720.8	663.9	611.6	557.0	514.8	479.4	451.3	424.2
32.5°	898.6	829.4	765.2	699.4	637.5	577.9	518.8	473.2	439.4	404.6	367.4
35°	910.9	822.6	745.0	670.7	602.6	540.7	478.8	428.7	384.3	341.5	304.4
37.5°	914.3	811.4	718.5	638.6	561.0	493.5	434.9	376.4	332.0	285.8	243.1
40°	912.6	790.0	685.3	588.5	507.0	441.7	384.9	331.4	282.5	241.4	200.3
42.5°	905.9	765.8	645.9	547.5	465.3	402.9	350.5	296.5	252.6	208.7	173.9
45°	903.6	742.1	616.1	516.0	437.2	375.9	324.7	272.3	226.2	184.6	149.7
47.5°	898.6	720.8	588.5	491.8	414.1	355.0	302.1	250.9	203.1	165.4	131.7
50°	887.3	697.7	568.3	473.2	395.0	334.2	280.2	225.1	178.4	141.2	115.3
52.5°	875.5	683.1	555.3	454.6	374.7	309.5	256.0	200.3	156.4	121.5	101.8
55°	863.7	671.8	537.9	432.7	348.3	284.1	230.1	178.9	137.9	108.0	94.0
57.5°	850.7	656.6	516.5	404.6	318.5	256.0	202.0	153.6	119.8	97.3	87.8
60°	840.1	635.2	479.4	365.2	278.5	216.6	167.7	128.3	101.8	87.8	83.8
62.5°	811.9	594.2	425.9	307.2	226.2	169.4	127.7	100.2	85.5	78.8	79.3
65°	743.8	502.5	338.2	239.7	158.7	113.7	91.2	76.5	69.8	69.8	71.5
67.5°	626.8	382.6	239.7	152.5	104.1	82.1	69.8	63.6	62.5	63.6	66.4
70°	443.9	248.1	150.2	99.6	78.2	66.4	60.2	58.0	56.8	58.0	59.1
72.5°	273.5	146.3	95.7	77.6	67.0	59.6	55.7	54.0	53.5	53.5	52.9
75°	149.1	97.9	76.5	67.5	60.8	55.1	51.2	48.4	47.8	48.4	47.3
77.5°	95.1	76.5	68.1	62.5	56.3	49.0	45.6	43.3	43.3	42.8	41.6
80°	74.3	68.1	62.5	56.8	47.3	41.6	38.3	37.7	37.1	36.6	36.6
82.5°	55.7	54.0	51.2	46.1	37.7	33.2	31.5	31.5	30.9	29.3	29.3
85°	32.1	31.5	33.8	29.8	25.3	21.9	21.9	22.5	23.1	22.5	20.8
87.5°	10.7	9.0	9.6	9.6	7.9	6.2	8.4	10.1	9.6	8.4	10.1
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: ECM-E02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9
2.5°	577.9	579.0	581.2	579.0	577.9	577.9	576.7	577.3	575.6	573.9	574.5
5°	591.9	590.8	591.9	590.2	586.9	586.3	584.0	584.0	581.8	579.5	578.4
7.5°	607.7	606.0	606.5	603.2	599.2	596.4	593.6	592.5	589.7	586.3	584.0
10°	620.1	618.4	617.2	613.3	608.2	605.4	601.5	599.2	596.4	591.9	589.7
12.5°	627.9	624.0	621.7	615.0	610.5	607.7	603.2	602.0	598.7	594.7	593.0
15°	626.2	617.2	610.5	602.6	596.4	592.5	588.5	587.4	585.7	584.0	580.7
17.5°	598.7	587.4	580.1	563.8	554.8	550.8	550.3	549.7	548.6	548.6	544.7
20°	560.4	547.5	536.2	520.5	508.6	504.7	494.0	491.2	487.8	491.2	487.8
22.5°	526.1	509.8	496.8	483.9	469.8	458.6	444.5	437.7	428.2	425.9	427.1
25°	489.5	469.3	452.9	437.7	422.6	406.8	393.9	384.3	378.1	369.7	361.8
27.5°	445.1	428.2	406.2	393.9	375.9	358.4	344.9	334.8	323.5	316.8	305.5
30°	400.1	374.2	352.2	334.8	315.1	306.7	293.7	283.0	272.9	265.6	256.0
32.5°	341.5	314.5	291.5	271.2	257.7	245.9	238.0	229.0	223.9	217.7	211.6
35°	279.6	245.9	218.3	209.3	194.1	194.7	190.7	186.2	182.3	176.7	176.1
37.5°	211.0	184.6	166.5	155.3	153.0	149.7	150.2	149.7	148.5	146.9	146.9
40°	167.1	143.5	131.7	129.4	129.4	128.8	128.3	128.3	128.3	127.2	126.6
42.5°	142.9	126.0	122.1	121.0	119.8	119.3	118.2	116.5	116.5	115.3	113.7
45°	126.0	116.5	115.3	114.2	114.2	112.5	110.8	109.7	109.2	108.6	107.5
47.5°	115.3	110.3	109.2	108.0	107.5	106.3	104.7	103.0	102.4	101.8	101.8
50°	103.5	100.2	100.2	100.2	98.5	97.3	95.7	94.5	94.5	94.0	93.4
52.5°	95.1	93.4	92.8	92.3	91.2	89.5	88.3	87.8	87.2	87.8	87.2
55°	91.2	90.0	89.5	88.3	87.2	85.5	84.4	82.7	82.1	83.3	83.3
57.5°	86.6	86.1	85.5	84.4	83.3	81.0	79.3	78.2	78.2	79.9	79.3
60°	85.0	84.4	83.8	83.3	81.6	78.8	76.0	74.8	74.8	76.5	76.5
62.5°	81.0	80.5	79.9	79.3	77.1	74.8	72.0	70.9	71.5	72.6	74.3
65°	73.7	74.3	73.7	73.7	72.0	70.3	68.6	67.5	67.0	67.5	69.2
67.5°	67.0	67.5	67.5	67.5	67.0	65.3	64.1	62.5	61.3	61.9	62.5
70°	60.8	61.3	61.9	61.9	60.8	59.1	57.4	55.7	55.1	55.7	55.7
72.5°	54.0	54.0	54.0	54.6	54.0	53.5	51.2	49.0	49.0	48.4	49.0
75°	47.3	47.3	47.3	47.3	46.1	46.1	45.0	42.8	42.2	42.8	43.3
77.5°	41.6	40.5	39.9	39.9	39.9	38.8	38.3	38.3	37.7	37.7	37.7
80°	34.3	33.2	32.1	31.5	32.1	32.1	33.2	33.2	32.6	32.6	32.6
82.5°	27.0	24.8	24.2	24.2	23.1	24.2	26.4	29.3	28.1	28.7	28.7
85°	19.7	17.4	16.3	16.3	15.2	17.4	20.3	22.5	21.4	22.5	21.9
87.5°	9.0	8.4	6.8	5.6	6.8	10.1	11.8	12.4	10.7	12.9	12.9
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9
2.5°	576.7	574.5	573.9	574.5	573.4	575.0	575.0	574.5	574.5	573.9	575.0
5°	580.1	577.3	575.6	575.6	574.5	576.2	575.0	574.5	573.9	573.9	573.9
7.5°	585.2	581.2	578.4	576.7	574.5	574.5	572.8	571.1	570.0	569.4	569.4
10°	589.7	584.0	579.5	575.6	572.2	569.4	566.6	562.7	561.5	560.4	561.0
12.5°	589.1	582.9	576.2	570.0	562.1	558.7	551.4	546.9	546.9	544.1	545.8
15°	576.7	566.0	556.5	546.3	536.8	530.0	521.0	516.0	513.1	512.6	516.5
17.5°	539.6	529.5	520.5	509.2	496.8	492.3	486.1	483.9	482.2	485.0	487.8
20°	489.5	476.6	468.1	461.4	461.4	460.3	457.4	453.5	450.1	449.6	452.9
22.5°	418.6	413.6	415.2	410.7	410.7	408.5	413.0	405.7	409.6	406.2	407.9
25°	359.5	357.3	356.2	355.6	355.6	359.5	359.0	360.1	356.2	358.4	357.9
27.5°	306.1	303.3	299.3	301.6	303.8	306.7	307.8	308.3	311.7	305.5	307.8
30°	254.9	250.4	253.2	250.9	252.1	251.5	251.5	251.5	253.8	258.3	254.9
32.5°	208.7	206.5	209.3	205.4	205.9	205.9	204.8	203.1	204.2	199.2	203.1
35°	172.7	169.9	172.2	170.5	168.8	164.3	162.6	159.8	160.4	159.2	158.7
37.5°	144.6	144.0	142.4	142.4	141.2	140.7	137.9	138.4	139.0	140.1	140.1
40°	124.9	124.3	123.8	124.9	125.5	126.0	127.2	128.3	130.0	131.7	133.4
42.5°	113.7	113.7	113.7	115.9	117.6	120.4	122.1	124.3	126.6	129.4	131.7
45°	106.9	106.3	107.5	109.2	112.0	114.8	117.6	121.0	124.3	127.2	128.8
47.5°	101.3	100.7	101.8	103.5	106.3	110.8	114.8	118.7	122.7	125.5	126.6
50°	94.0	94.0	94.5	96.2	99.0	103.0	106.9	111.4	115.3	117.6	118.7
52.5°	88.3	88.9	88.9	90.6	93.4	96.8	100.7	104.7	107.5	109.2	111.4
55°	82.7	83.8	83.8	85.5	88.3	92.3	97.3	100.7	104.1	106.3	108.0
57.5°	78.8	79.3	79.3	81.6	85.0	88.3	93.4	97.9	101.8	104.7	106.9
60°	75.4	76.0	75.4	78.2	81.0	85.0	89.5	94.5	100.2	104.1	105.8
62.5°	72.6	72.6	72.0	74.3	76.0	78.2	82.1	87.8	92.8	96.2	97.9
65°	69.2	69.2	68.1	70.3	70.3	73.7	76.5	81.6	85.5	89.5	90.6
67.5°	62.5	63.6	63.0	64.7	67.0	69.2	72.6	76.5	80.5	83.3	85.0
70°	55.7	56.3	58.0	59.1	61.3	62.5	65.3	68.1	72.0	73.7	75.4
72.5°	49.5	50.1	51.2	52.3	54.6	55.7	58.0	60.2	63.6	65.3	67.0
75°	43.3	43.9	44.5	45.6	46.7	47.8	49.0	51.2	53.5	55.7	57.4
77.5°	37.1	37.7	39.4	38.8	39.9	40.5	42.2	43.3	44.5	46.7	49.0
80°	32.6	32.1	33.2	33.8	34.9	34.9	36.0	36.0	37.7	37.7	38.3
82.5°	27.6	27.0	28.1	29.8	30.4	30.4	31.5	29.3	28.7	29.3	30.9
85°	20.8	21.4	21.9	24.2	24.8	24.8	25.9	24.2	21.9	21.9	23.1
87.5°	11.8	9.0	12.9	15.2	15.2	15.8	16.9	16.3	15.8	12.4	12.9
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	573.9	0°
2.5°	574.5	575.0	575.6	576.2	576.7	576.2	577.3	576.2	576.7	575.6	575.0	2.5°
5°	573.9	574.5	574.5	575.6	576.2	574.5	575.6	573.9	573.9	572.8	571.1	5°
7.5°	570.0	571.1	571.1	572.2	572.2	570.5	570.5	567.2	566.0	562.1	559.3	7.5°
10°	562.1	563.8	564.9	567.2	568.3	565.5	563.8	559.8	555.3	550.8	546.3	10°
12.5°	548.6	549.2	553.1	556.5	558.2	559.8	558.7	558.2	553.7	550.8	549.2	12.5°
15°	517.6	522.1	526.1	534.0	539.6	545.8	550.3	555.3	557.6	560.4	561.5	15°
17.5°	490.6	495.7	498.5	505.3	510.9	520.5	532.3	545.2	554.2	565.5	576.2	17.5°
20°	452.9	461.4	463.6	474.3	481.6	494.0	507.0	523.3	541.3	558.7	577.9	20°
22.5°	410.7	414.7	419.2	430.4	439.4	455.2	474.9	497.4	518.2	542.4	570.0	22.5°
25°	359.5	364.6	369.1	381.5	394.4	409.1	432.7	460.3	486.7	518.8	554.8	25°
27.5°	308.9	312.8	320.7	329.7	344.3	360.1	389.4	419.7	450.1	489.0	531.7	27.5°
30°	256.0	259.9	263.9	274.6	289.8	308.3	334.8	370.8	406.8	448.4	499.1	30°
32.5°	205.4	206.5	214.4	222.3	235.2	250.9	279.6	314.5	353.4	404.0	454.1	32.5°
35°	160.4	167.1	170.5	181.2	189.1	205.4	229.6	261.6	302.1	353.4	407.4	35°
37.5°	142.4	144.6	149.1	157.0	167.7	182.3	199.2	223.9	258.8	302.1	352.8	37.5°
40°	135.6	137.9	141.2	147.4	157.5	171.0	185.1	204.8	231.8	266.1	311.7	40°
42.5°	133.4	133.9	135.0	140.7	150.8	166.0	182.9	201.4	222.3	249.8	285.8	42.5°
45°	130.5	130.5	131.1	135.0	144.0	159.8	181.2	204.8	228.4	253.2	283.6	45°
47.5°	128.3	128.8	128.3	130.0	136.7	151.9	175.6	204.2	235.8	267.8	301.0	47.5°
50°	119.3	119.3	119.8	120.4	125.5	140.1	163.2	194.7	233.5	276.8	322.4	50°
52.5°	112.0	113.1	113.1	114.2	117.6	129.4	152.5	185.7	227.9	278.5	339.8	52.5°
55°	109.7	110.8	111.4	111.4	113.7	123.8	145.7	177.2	221.7	276.8	346.6	55°
57.5°	108.0	109.2	109.7	109.2	110.8	119.3	139.5	170.5	214.9	272.9	349.4	57.5°
60°	106.3	106.9	105.8	104.7	105.2	112.5	130.5	160.9	207.1	267.3	348.3	60°
62.5°	98.5	99.0	97.9	96.8	95.7	101.3	117.6	147.4	190.7	254.3	339.3	62.5°
65°	91.7	91.7	91.7	90.6	89.5	92.8	104.7	130.0	167.7	231.3	318.5	65°
67.5°	86.1	85.5	85.5	85.0	83.8	85.0	92.3	109.7	139.0	194.7	280.8	67.5°
70°	77.1	76.5	77.1	76.5	75.4	75.4	78.8	88.3	108.0	142.9	218.3	70°
72.5°	68.1	68.6	69.8	69.8	69.8	70.3	70.3	73.1	83.8	102.4	148.5	72.5°
75°	58.5	59.1	60.8	63.0	61.9	62.5	62.5	64.1	69.8	81.0	104.1	75°
77.5°	49.5	51.2	53.5	54.0	52.3	52.3	53.5	56.3	61.3	68.1	79.3	77.5°
80°	40.5	42.8	43.3	44.5	45.0	45.0	46.1	48.4	53.5	61.9	70.9	80°
82.5°	32.1	33.8	35.4	37.1	38.3	39.9	40.5	41.6	46.7	55.1	65.3	82.5°
85°	24.2	25.9	28.1	29.8	30.9	32.6	32.1	32.6	35.4	42.2	49.5	85°
87.5°	14.6	14.6	16.3	16.9	17.4	17.4	18.6	16.3	17.4	22.5	27.0	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
573.9	573.9	573.9	573.9	573.9	573.9	573.9
575.6	575.0	574.5	575.0	576.2	576.2	574.5
571.7	570.0	568.8	568.8	568.8	568.3	567.2
558.2	555.3	553.7	552.5	552.0	552.0	549.7
543.5	541.8	538.5	537.3	537.9	539.6	539.0
546.9	541.8	540.2	540.2	539.6	542.4	541.8
565.5	565.5	563.2	562.7	561.5	564.9	564.9
585.2	590.2	592.5	590.2	590.8	591.4	595.9
595.9	610.5	618.4	624.6	625.1	628.5	627.9
597.5	624.0	644.8	658.3	670.7	676.9	675.8
589.1	625.7	662.3	696.6	722.5	736.5	748.3
577.9	621.2	668.4	716.8	759.0	796.7	820.4
551.4	606.5	667.3	729.2	789.4	843.4	887.3
514.3	577.9	650.4	732.0	816.4	891.3	955.4
464.8	532.8	621.2	721.3	832.7	944.1	1040.9
411.3	486.1	582.9	703.3	841.2	986.3	1119.1
364.6	438.3	544.1	680.3	840.1	1013.9	1176.5
334.2	403.4	510.3	658.3	834.4	1029.7	1221.5
324.1	386.5	487.8	640.9	831.0	1040.9	1252.5
337.6	391.6	482.8	633.0	829.9	1053.9	1279.5
369.1	419.7	501.9	645.9	840.1	1066.8	1306.5
398.9	459.1	543.5	683.1	877.8	1104.5	1343.6
423.1	501.9	588.5	732.0	931.8	1163.0	1399.3
436.6	535.1	647.1	800.1	1005.5	1249.1	1490.5
442.3	558.2	697.1	871.6	1098.3	1347.6	1605.8
440.0	568.8	733.1	936.8	1182.1	1455.6	1736.9
425.9	568.8	755.7	989.2	1252.5	1541.7	1852.3
392.2	549.2	757.9	1019.5	1306.5	1614.3	1946.8
330.3	492.3	720.2	1016.2	1323.4	1637.3	1996.3
231.3	367.4	600.9	918.3	1251.4	1582.8	1941.7
143.5	229.0	430.4	710.1	1041.5	1343.1	1727.9
100.7	139.0	246.4	449.6	716.8	1001.0	1290.2
83.8	102.4	140.7	247.6	431.0	616.7	811.4
72.6	82.7	97.9	141.2	219.4	328.6	451.8
54.0	60.2	67.5	92.8	138.4	203.1	308.9
21.9	24.8	27.6	37.1	85.0	117.0	125.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)