

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: P181289

Luminaire Tested: **ICS-E02-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181289
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-T2
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5515.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

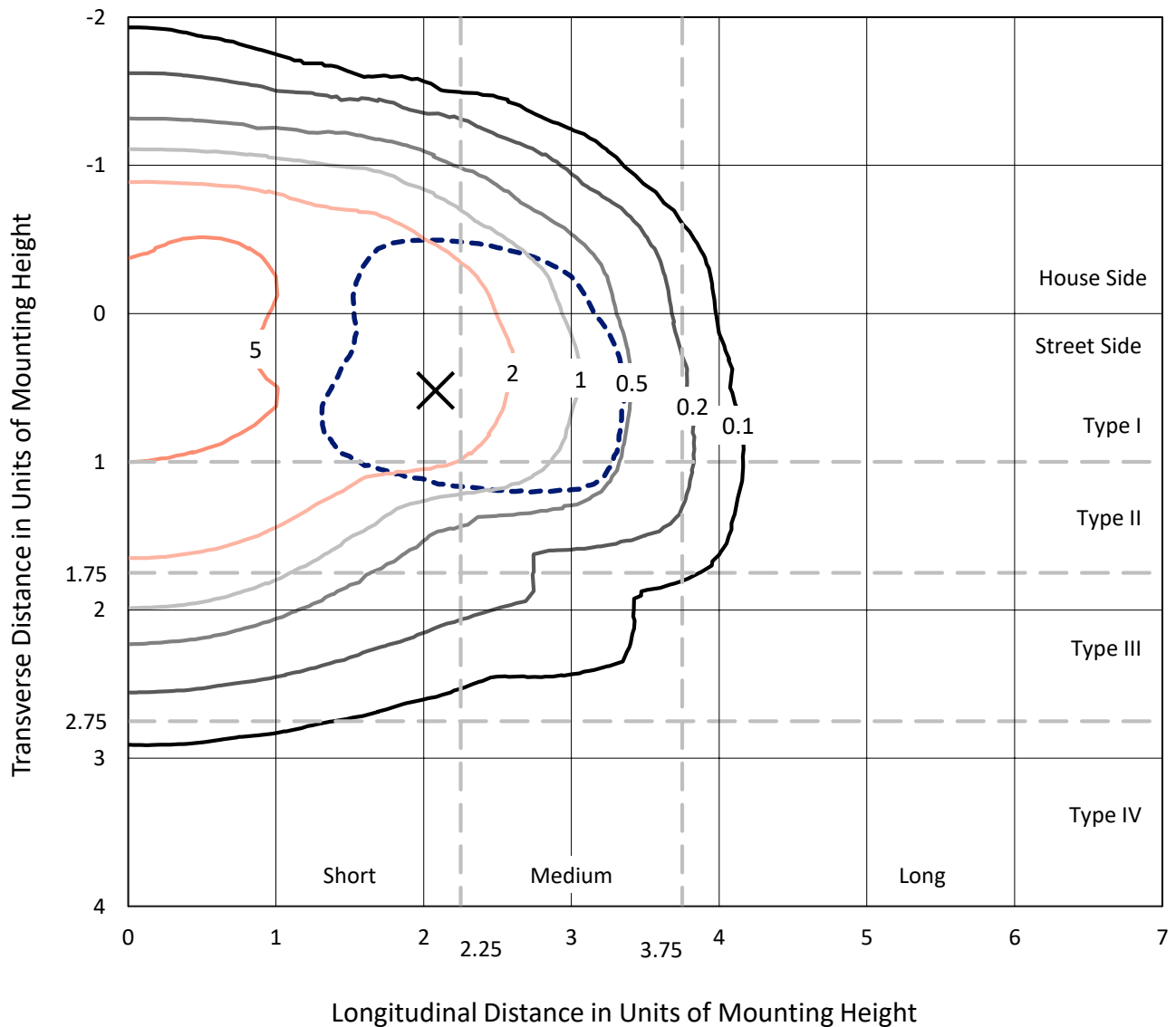
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

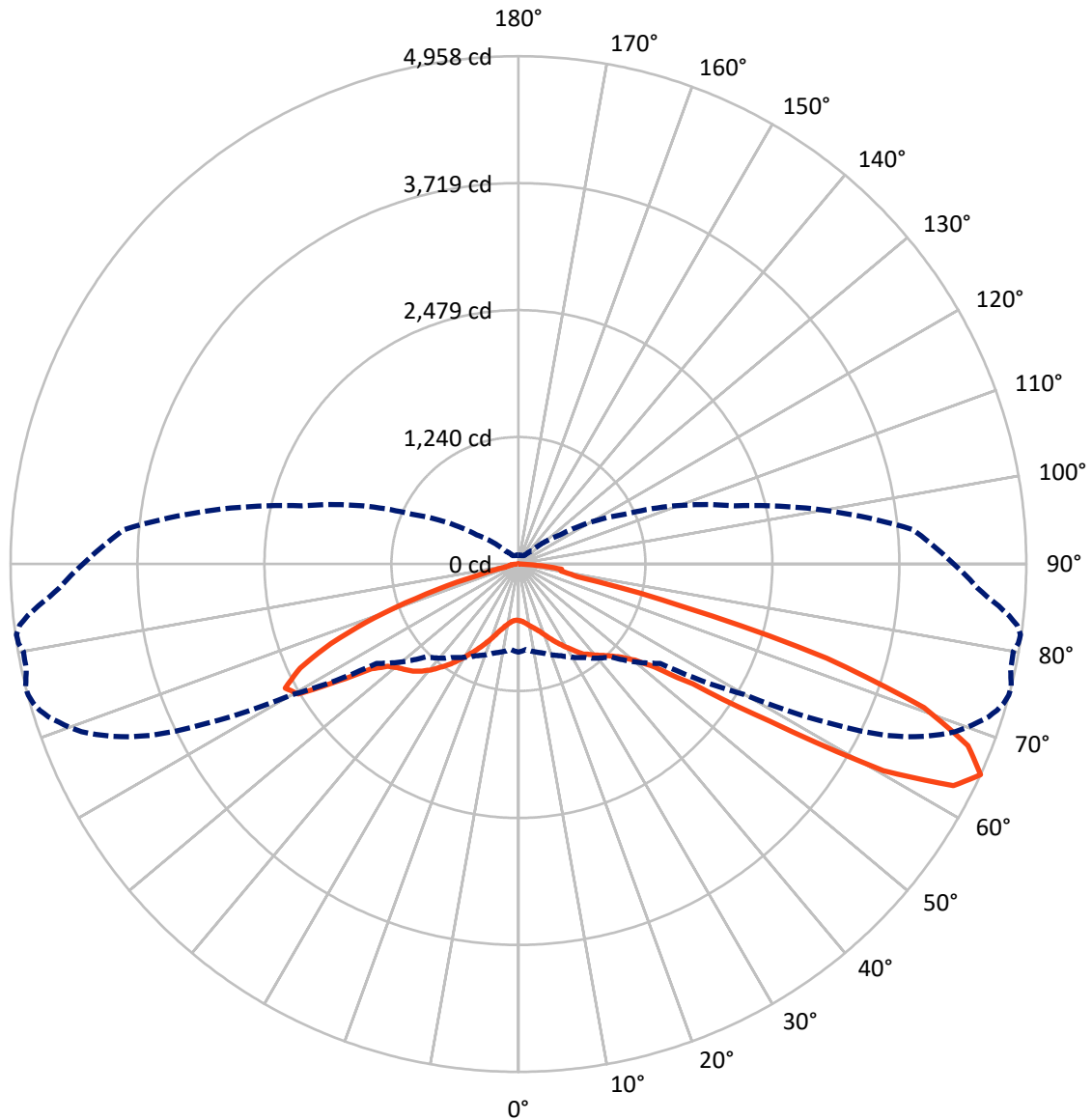
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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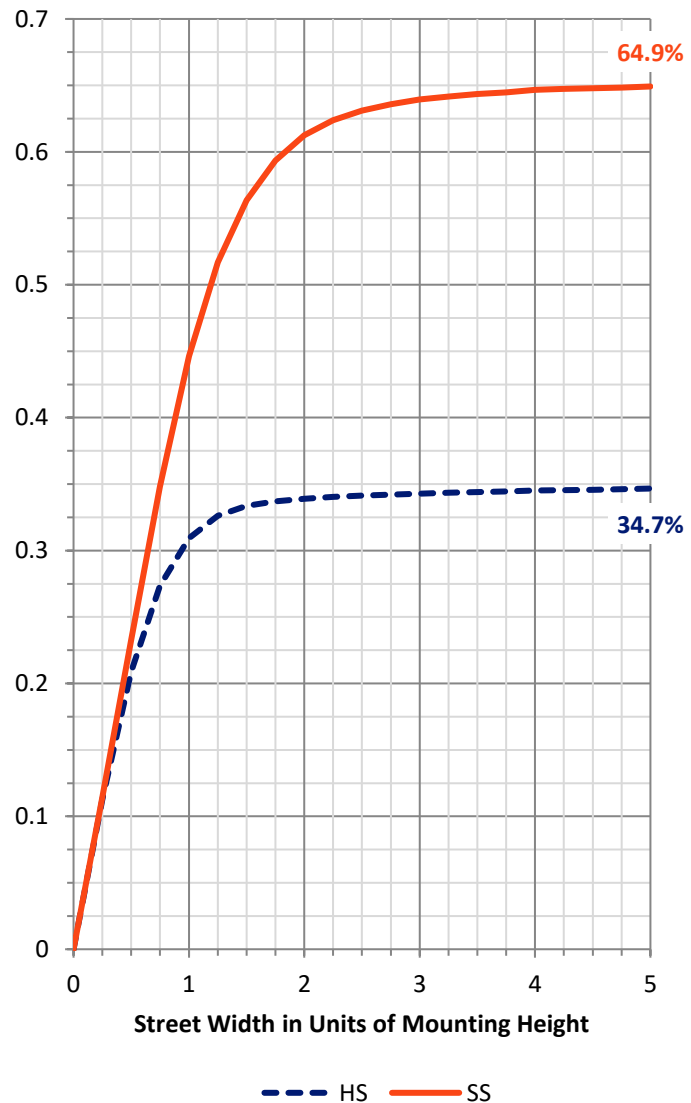
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1931.3	0.0	1931.3
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3583.9	0.0	3583.9
	% Fixture	65.0	0.0	65.0
Total	Lumens	5515.2	0.0	5515.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.0
10°-20°	189.7	3.4
20°-30°	372.6	6.8
30°-40°	619.1	11.2
40°-50°	909.8	16.5
50°-60°	1259.5	22.8
60°-70°	1503.4	27.3
70°-80°	531.7	9.6
80°-90°	74.3	1.3
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°	5515.2	100.0
0°-180°	5515.2	100.0

Coefficient of Utilization



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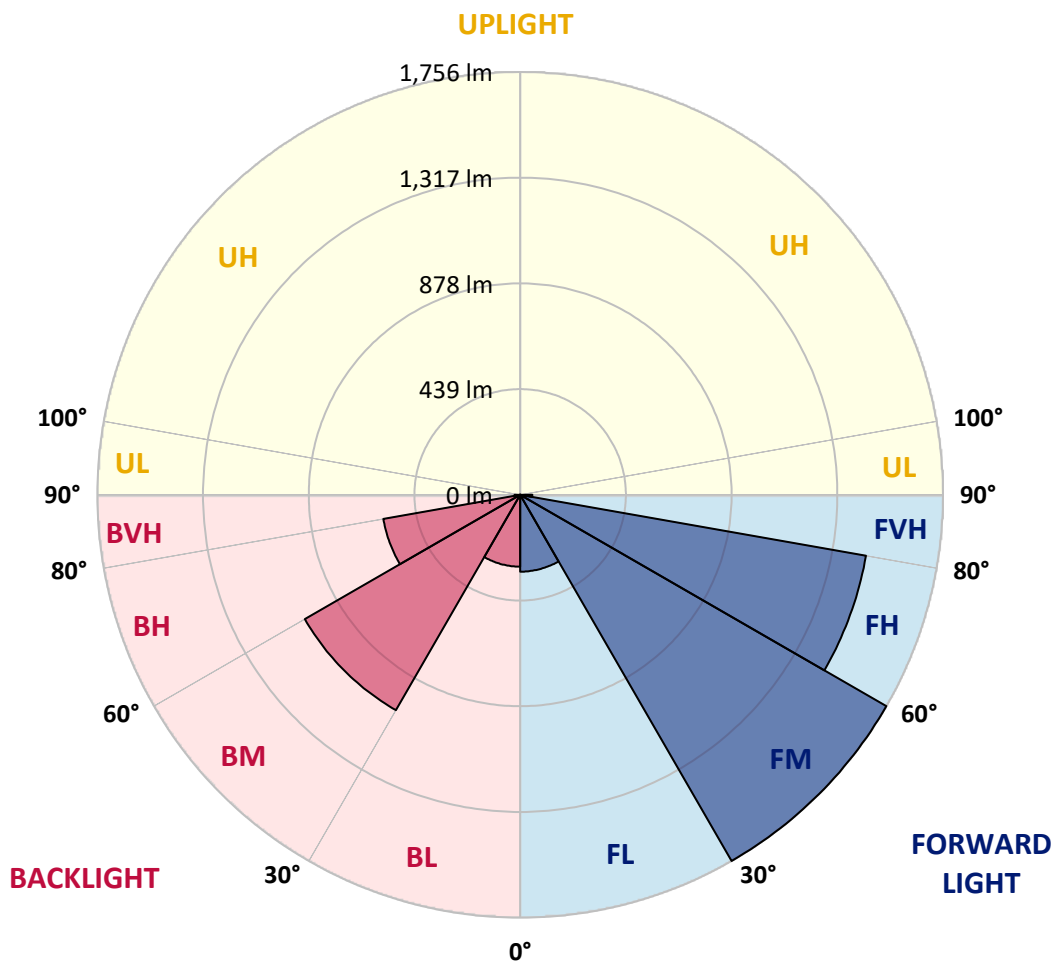
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	319.1	5.8			
FM	(30°-60°)	1755.9	31.8			
FH	(60°-80°)	1458.2	26.4			G1/1800
FVH	(80°-90°)	50.8	0.9			G1/100
BL	(0°-30°)	298.4	5.4	B1/500		
BM	(30°-60°)	1032.5	18.7	B2/2500		
BH	(60°-80°)	576.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	23.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4
2.5°	575.4	576.0	574.8	574.2	572.4	569.4	567.0	564.6	564.6	564.6	562.8
5°	600.6	601.8	599.4	597.6	592.2	589.2	585.0	582.0	580.8	580.2	578.4
7.5°	632.4	630.6	627.0	625.8	621.6	615.0	607.2	601.2	601.2	600.6	601.2
10°	664.2	659.4	657.6	655.8	649.2	640.8	631.8	625.2	624.6	624.0	622.2
12.5°	696.0	694.2	692.4	685.8	679.2	666.0	655.8	649.2	648.6	649.2	646.8
15°	738.0	733.8	732.0	720.6	706.2	691.8	679.2	673.2	671.4	672.0	670.2
17.5°	770.4	770.4	766.2	753.6	735.0	715.2	702.0	698.4	697.8	697.8	698.4
20°	796.2	795.6	791.4	781.2	759.0	739.2	732.6	731.4	730.8	730.8	732.6
22.5°	810.6	809.4	807.6	796.2	778.8	765.6	766.2	769.8	771.0	772.2	774.6
25°	817.8	816.0	815.4	807.6	795.0	793.2	804.0	813.6	816.0	818.4	821.4
27.5°	829.8	826.8	828.0	825.0	822.0	827.4	849.6	859.8	861.6	864.6	866.4
30°	862.8	861.6	866.4	867.6	870.0	877.8	898.2	907.8	912.0	912.0	920.5
32.5°	925.9	926.5	927.7	940.3	944.5	949.9	960.7	968.5	969.1	969.7	977.5
35°	1010.5	1014.1	1024.3	1035.1	1045.3	1044.7	1038.1	1042.3	1039.3	1042.9	1043.5
37.5°	1117.3	1112.5	1127.5	1152.1	1167.7	1163.5	1134.1	1114.9	1120.3	1117.9	1116.1
40°	1199.5	1204.9	1233.7	1266.1	1278.1	1291.3	1252.9	1219.9	1215.1	1206.1	1200.7
42.5°	1312.9	1313.5	1336.9	1360.9	1395.7	1424.5	1399.9	1352.5	1338.1	1327.3	1303.9
45°	1417.9	1416.1	1435.3	1464.7	1506.1	1547.5	1556.5	1504.9	1499.5	1480.3	1449.7
47.5°	1488.1	1485.7	1498.9	1537.3	1604.5	1672.3	1709.5	1693.9	1683.7	1675.9	1627.9
50°	1535.5	1530.7	1545.7	1586.5	1661.5	1765.9	1863.1	1876.3	1872.1	1872.1	1841.5
52.5°	1570.9	1570.9	1581.7	1614.7	1690.9	1821.1	1995.1	2061.7	2067.1	2073.1	2071.3
55°	1551.1	1554.1	1581.1	1629.1	1709.5	1859.5	2104.3	2250.1	2280.1	2305.3	2334.1
57.5°	1483.3	1493.5	1529.5	1608.1	1714.3	1888.3	2225.5	2514.1	2598.7	2671.9	2786.0
60°	1384.3	1397.5	1449.7	1549.9	1678.9	1841.5	2268.1	2737.3	2871.8	3031.4	3329.0
62.5°	1214.5	1227.7	1278.7	1378.9	1489.3	1662.1	2091.7	2770.4	2985.2	3211.4	3661.4
65°	860.4	839.4	898.2	988.3	1114.9	1282.3	1690.3	2548.9	2858.0	3164.6	3720.2
67.5°	479.4	477.6	513.6	580.8	702.0	882.0	1164.7	1954.9	2239.3	2586.7	3269.0
70°	330.6	334.2	357.0	429.6	529.8	685.2	829.8	1227.7	1432.3	1668.1	2338.9
72.5°	232.2	240.0	252.6	295.8	398.4	577.2	847.8	733.8	835.8	996.7	1406.5
75°	136.2	141.6	150.6	171.6	226.8	385.8	877.8	645.0	645.0	682.8	850.8
77.5°	84.0	84.0	89.4	97.8	120.6	189.0	625.2	724.8	704.4	682.8	684.6
80°	43.2	46.2	54.0	58.2	67.2	86.4	280.8	676.2	741.6	785.4	754.8
82.5°	19.8	22.2	33.0	35.4	39.0	45.6	96.6	384.6	515.4	678.6	847.8
85°	10.2	10.2	17.4	21.6	23.4	21.0	35.4	155.4	235.2	358.8	561.6
87.5°	1.8	1.8	3.0	3.6	5.4	4.8	6.0	9.0	15.0	16.2	16.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4
2.5°	562.2	562.8	562.2	561.6	560.4	560.4	560.4	559.8	559.8	559.8	559.2
5°	578.4	576.0	576.6	575.4	574.8	574.2	574.8	573.6	572.4	573.0	572.4
7.5°	598.8	597.6	595.2	595.2	594.6	593.4	593.4	591.6	591.0	589.8	589.2
10°	621.6	618.6	619.8	618.6	619.2	616.8	615.6	614.4	613.2	613.2	613.8
12.5°	645.0	644.4	642.6	641.4	641.4	639.6	640.2	639.6	637.8	637.2	635.4
15°	669.0	669.0	667.2	667.8	667.2	666.0	664.8	664.8	663.6	662.4	663.0
17.5°	697.2	697.2	697.2	697.2	697.8	696.0	696.6	695.4	694.2	696.6	696.6
20°	733.8	736.2	736.2	735.6	738.6	736.8	736.2	739.2	736.2	740.4	739.8
22.5°	775.8	778.2	778.2	780.6	781.2	783.0	784.2	783.0	785.4	787.8	787.8
25°	822.6	825.0	826.8	830.4	832.2	831.0	831.6	834.6	835.8	838.2	840.6
27.5°	871.8	872.4	874.8	879.0	882.0	883.2	883.8	888.6	889.2	890.4	892.8
30°	919.9	925.9	924.7	930.1	931.9	933.7	937.3	939.1	943.3	945.7	945.7
32.5°	976.3	975.1	979.9	984.1	987.1	990.1	993.1	995.5	997.9	999.1	1005.1
35°	1046.5	1048.9	1048.9	1049.5	1056.7	1057.3	1059.7	1065.1	1066.9	1070.5	1072.9
37.5°	1116.1	1111.9	1111.3	1111.3	1108.9	1110.7	1111.3	1111.9	1114.3	1114.9	1117.3
40°	1194.1	1188.7	1183.9	1180.9	1176.1	1169.5	1168.3	1165.3	1167.1	1166.5	1167.1
42.5°	1300.9	1285.9	1274.5	1266.1	1256.5	1249.3	1243.9	1236.1	1230.7	1224.1	1222.9
45°	1437.1	1408.9	1389.7	1375.9	1362.1	1342.3	1330.9	1318.9	1308.1	1297.3	1288.3
47.5°	1615.9	1585.9	1555.3	1530.1	1508.5	1476.7	1444.3	1426.3	1405.3	1386.7	1373.5
50°	1826.5	1790.5	1776.1	1740.7	1713.7	1665.7	1625.5	1596.1	1554.1	1525.9	1501.3
52.5°	2041.9	2032.9	2025.1	1995.1	1963.3	1935.7	1900.3	1848.7	1806.1	1773.7	1723.3
55°	2335.3	2339.5	2336.5	2320.3	2308.9	2282.5	2268.1	2223.1	2203.9	2157.1	2104.3
57.5°	2829.2	2862.8	2905.4	2922.2	2945.0	2923.4	2948.6	2979.2	2903.0	2929.4	2882.0
60°	3459.8	3614.0	3705.8	3818.6	3892.4	3995.6	4014.2	4041.2	4033.4	4048.4	4079.0
62.5°	3845.0	4028.0	4203.8	4331.6	4468.4	4544.0	4635.3	4698.9	4764.9	4809.3	4796.7
65°	3958.4	4146.8	4306.4	4446.2	4568.6	4661.1	4745.7	4825.5	4886.1	4928.7	4953.9
67.5°	3542.0	3788.0	3956.0	4119.8	4277.6	4374.8	4445.6	4523.0	4611.9	4685.7	4700.1
70°	2665.3	3034.4	3272.6	3468.8	3654.2	3785.0	3884.0	3956.0	4025.0	4077.8	4135.4
72.5°	1666.9	1989.7	2262.1	2516.5	2713.3	2893.4	2976.8	3136.4	3115.4	3155.6	3198.8
75°	999.1	1156.3	1306.3	1485.7	1588.9	1738.9	1765.9	1792.3	1778.5	1733.5	1767.1
77.5°	694.2	720.0	718.8	708.6	697.8	671.4	637.2	618.6	606.0	588.0	595.2
80°	698.4	642.6	557.4	468.6	387.0	333.0	311.4	311.4	333.6	365.4	397.2
82.5°	834.6	775.2	691.2	578.4	458.4	373.2	316.2	293.4	297.6	330.0	370.8
85°	562.8	576.0	505.2	462.0	366.0	285.0	238.8	193.8	171.6	177.0	200.4
87.5°	20.4	24.6	9.0	12.0	8.4	7.2	7.2	7.8	5.4	6.6	6.0
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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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4
2.5°	558.6	558.0	558.0	556.8	556.8	556.2	556.2	555.6	555.0	555.0	554.4
5°	571.8	571.2	570.0	569.4	568.2	568.2	567.6	566.4	566.4	565.2	564.6
7.5°	590.4	589.2	588.0	587.4	586.8	585.0	585.0	583.8	583.8	582.6	582.0
10°	612.6	611.4	610.2	610.8	609.0	608.4	607.2	607.2	605.4	604.8	604.8
12.5°	636.6	636.0	636.0	634.2	633.6	633.0	630.6	630.6	630.6	629.4	630.0
15°	662.4	663.0	661.2	663.0	662.4	660.6	660.6	660.6	658.2	661.2	658.8
17.5°	697.2	699.0	697.8	698.4	697.2	697.2	697.8	697.2	698.4	698.4	702.0
20°	740.4	741.0	744.0	742.8	742.8	742.2	743.4	744.0	746.4	745.2	747.6
22.5°	787.8	790.8	791.4	793.8	793.8	793.2	794.4	796.8	798.0	799.8	799.2
25°	841.8	843.6	846.0	843.0	847.8	847.8	849.0	852.0	852.6	852.6	856.8
27.5°	892.2	897.0	897.6	900.6	898.8	900.0	904.2	906.0	908.4	908.4	909.6
30°	949.3	951.1	952.3	955.9	955.3	955.9	956.5	959.5	959.5	962.5	965.5
32.5°	1008.1	1009.3	1010.5	1014.1	1015.3	1017.7	1016.5	1018.9	1021.9	1022.5	1024.3
35°	1078.3	1079.5	1080.7	1086.1	1086.7	1090.9	1092.1	1090.9	1095.7	1092.7	1095.7
37.5°	1119.1	1124.5	1125.7	1129.3	1128.1	1131.1	1132.9	1135.3	1136.5	1138.9	1143.7
40°	1168.9	1170.7	1174.3	1176.1	1178.5	1179.1	1181.5	1183.3	1185.1	1190.5	1195.9
42.5°	1219.9	1222.3	1224.1	1226.5	1229.5	1231.9	1233.7	1239.1	1240.3	1243.9	1254.1
45°	1281.7	1280.5	1281.1	1281.7	1282.9	1285.9	1291.3	1296.7	1300.3	1308.7	1317.1
47.5°	1358.5	1350.7	1347.7	1342.9	1344.1	1350.7	1351.9	1360.9	1368.1	1375.9	1386.1
50°	1474.9	1453.9	1441.3	1428.7	1427.5	1431.1	1435.9	1445.5	1453.9	1464.1	1478.5
52.5°	1670.5	1630.3	1605.1	1570.3	1560.7	1558.9	1555.3	1560.7	1563.1	1576.9	1603.9
55°	2066.5	1992.1	1944.1	1890.1	1839.7	1824.7	1795.9	1801.9	1795.9	1804.3	1844.5
57.5°	2893.4	2834.0	2787.2	2718.1	2631.7	2539.9	2517.1	2422.9	2441.5	2495.5	2460.7
60°	4094.0	4072.4	4038.8	4005.8	3887.6	3821.0	3712.4	3700.4	3624.2	3624.8	3575.0
62.5°	4766.1	4793.7	4773.3	4763.7	4757.1	4736.1	4682.1	4617.3	4520.0	4449.8	4346.6
65°	4958.1	4934.7	4912.5	4909.5	4907.7	4941.9	4949.7	4904.1	4815.9	4706.7	4587.8
67.5°	4734.3	4721.1	4722.3	4697.1	4712.7	4772.1	4813.5	4800.9	4719.9	4587.8	4436.6
70°	4201.4	4175.6	4202.0	4235.0	4258.4	4292.6	4334.0	4344.2	4270.4	4134.8	3980.6
72.5°	3146.0	3150.2	3175.4	3184.4	3278.6	3269.0	3306.2	3185.0	3131.6	3002.6	2923.4
75°	1655.5	1628.5	1698.7	1549.9	1488.7	1531.3	1411.9	1297.3	1321.3	1341.1	1198.3
77.5°	585.0	547.2	483.0	457.2	380.4	322.2	263.4	237.6	223.8	216.6	207.6
80°	420.0	432.0	418.8	387.6	329.4	264.0	208.2	164.4	141.0	128.4	120.0
82.5°	424.8	472.2	493.2	484.2	431.4	326.4	215.4	137.4	102.0	85.2	79.2
85°	228.0	249.6	240.0	202.2	181.8	108.6	74.4	49.8	42.0	38.4	35.4
87.5°	9.0	7.2	6.0	6.0	6.6	7.2	6.0	6.6	6.0	6.0	6.0
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: ICS-E02-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4
2.5°	553.2	553.2	553.2	552.6	551.4	548.4	545.4	543.0	541.2	539.4	537.0
5°	564.0	562.8	562.8	562.8	558.0	553.2	549.0	544.8	541.2	538.2	535.8
7.5°	582.0	581.4	579.0	578.4	574.8	567.0	562.2	555.0	550.8	546.6	545.4
10°	603.6	603.0	602.4	601.8	597.0	589.2	583.2	576.6	570.6	564.6	558.6
12.5°	628.8	628.2	627.6	625.8	624.0	619.8	613.2	606.0	598.8	586.2	579.6
15°	660.0	661.2	660.0	659.4	658.2	658.8	654.6	644.4	633.0	616.8	603.0
17.5°	701.4	700.2	699.6	702.0	701.4	704.4	703.2	690.0	672.6	646.8	622.8
20°	747.0	747.0	749.4	751.2	756.6	764.4	760.8	744.6	712.8	676.8	645.6
22.5°	801.6	802.8	805.2	804.0	812.4	825.0	826.2	803.4	762.0	712.2	668.4
25°	858.6	859.8	857.4	861.0	874.8	892.8	896.4	864.0	809.4	744.6	687.6
27.5°	912.6	913.8	913.8	918.6	931.9	962.5	966.1	930.1	857.4	772.8	701.4
30°	965.5	970.3	971.5	972.7	992.5	1035.1	1042.9	990.7	899.4	793.8	711.0
32.5°	1032.1	1033.9	1036.3	1039.3	1062.1	1114.3	1114.3	1042.9	926.5	807.0	712.8
35°	1103.5	1104.1	1109.5	1110.1	1142.5	1194.7	1184.5	1086.1	945.7	804.0	699.6
37.5°	1146.7	1149.1	1154.5	1161.7	1195.9	1269.7	1246.3	1123.3	949.3	784.2	669.6
40°	1200.1	1204.9	1210.3	1217.5	1268.5	1345.9	1298.5	1146.7	934.3	745.2	624.6
42.5°	1257.7	1264.3	1272.7	1285.9	1346.5	1413.1	1338.1	1150.3	900.0	701.4	571.2
45°	1322.5	1334.5	1344.1	1359.7	1428.1	1471.3	1362.1	1129.3	856.8	643.8	514.2
47.5°	1397.5	1407.1	1423.9	1440.7	1509.1	1510.9	1364.5	1088.5	798.0	586.2	453.6
50°	1489.9	1495.9	1521.1	1531.3	1595.5	1552.3	1347.1	1033.3	736.2	521.4	386.4
52.5°	1612.9	1621.3	1653.7	1669.3	1714.9	1608.7	1322.5	973.3	665.4	448.8	317.4
55°	1855.9	1892.5	1915.3	1942.3	1971.7	1736.5	1311.7	909.0	585.6	364.8	251.4
57.5°	2538.1	2526.1	2576.5	2637.7	2637.1	2028.7	1376.5	853.8	491.4	279.0	193.2
60°	3554.6	3566.0	3540.2	3576.8	3460.4	2391.1	1465.3	795.6	385.2	207.6	147.6
62.5°	4310.0	4244.0	4207.4	4164.2	3908.0	2430.7	1400.5	676.2	280.2	145.8	113.4
65°	4488.8	4411.4	4332.8	4250.6	3864.2	2191.3	1149.1	496.2	181.2	100.2	90.0
67.5°	4312.4	4188.2	4088.0	4003.4	3540.8	1816.3	840.0	304.8	103.8	81.0	76.8
70°	3855.2	3717.8	3555.8	3461.0	2981.6	1338.7	538.2	164.4	79.8	72.0	70.2
72.5°	2822.0	2709.1	2532.1	2423.5	2140.9	813.6	300.6	92.4	74.4	69.0	66.6
75°	1099.3	1040.5	966.7	972.7	868.2	360.0	136.2	79.8	72.6	67.8	65.4
77.5°	189.0	184.2	170.4	170.4	193.8	131.4	90.6	80.4	72.0	66.6	62.4
80°	113.4	111.0	105.6	104.4	100.8	92.4	87.0	81.6	70.8	63.0	57.6
82.5°	74.4	71.4	69.6	69.0	75.0	81.0	81.6	81.0	67.2	54.6	46.8
85°	31.8	31.8	31.8	32.4	43.2	65.4	67.2	72.0	55.2	42.6	33.6
87.5°	5.4	6.6	6.6	7.2	7.8	14.4	18.0	23.4	18.6	18.0	16.2
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):

	165°	175°	180°
0°	551.4	551.4	551.4
2.5°	536.4	535.2	535.2
5°	534.6	533.4	534.0
7.5°	541.8	539.4	540.0
10°	555.0	552.6	551.4
12.5°	571.8	568.8	568.8
15°	589.2	582.0	581.4
17.5°	603.6	594.6	593.4
20°	619.8	607.8	606.0
22.5°	634.8	618.6	616.2
25°	645.6	625.8	622.8
27.5°	650.4	627.0	624.6
30°	654.0	627.6	624.0
32.5°	650.4	622.2	619.2
35°	630.6	600.0	598.2
37.5°	596.4	562.2	559.8
40°	551.4	515.4	509.4
42.5°	493.8	460.2	453.6
45°	438.0	399.6	396.6
47.5°	378.0	341.4	343.2
50°	315.0	282.0	281.4
52.5°	255.0	226.2	224.4
55°	201.0	180.6	178.8
57.5°	159.0	148.2	146.4
60°	129.6	124.2	122.4
62.5°	104.4	102.6	102.0
65°	87.0	87.0	87.0
67.5°	75.6	76.2	76.2
70°	69.6	70.2	69.6
72.5°	67.2	69.0	69.0
75°	65.4	66.6	64.2
77.5°	64.2	64.8	60.6
80°	63.6	63.0	55.2
82.5°	55.2	53.4	46.8
85°	50.4	38.4	32.4
87.5°	25.8	18.0	13.8
90°	0.0	0.0	0.0

(END OF REPORT)