

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: P181457

Luminaire Tested: **ICM-E05-LED-E1-T3-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181457  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E05-LED-E1-T3-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12106.1 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 127.3  
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

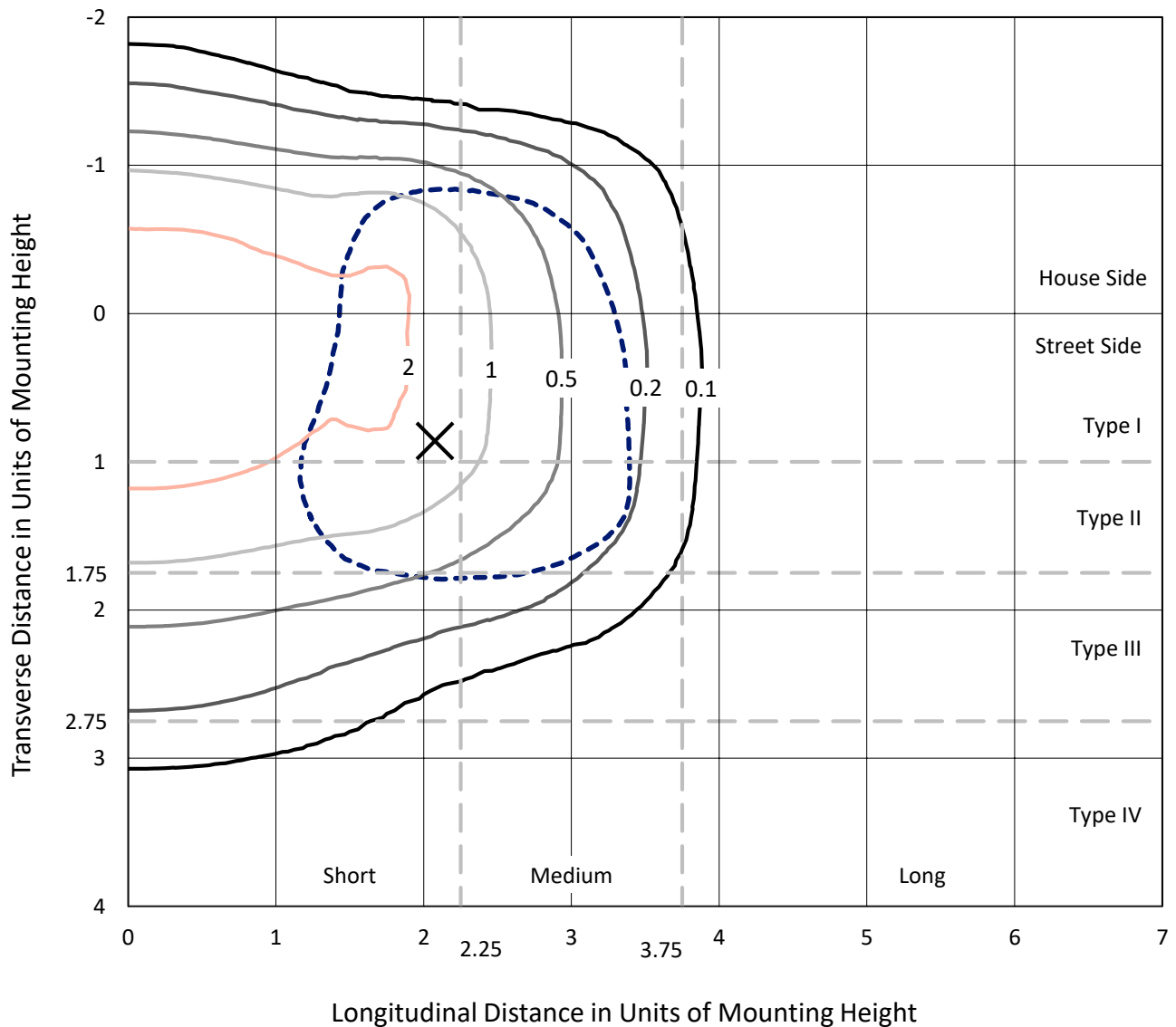


REPORT NUMBER: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

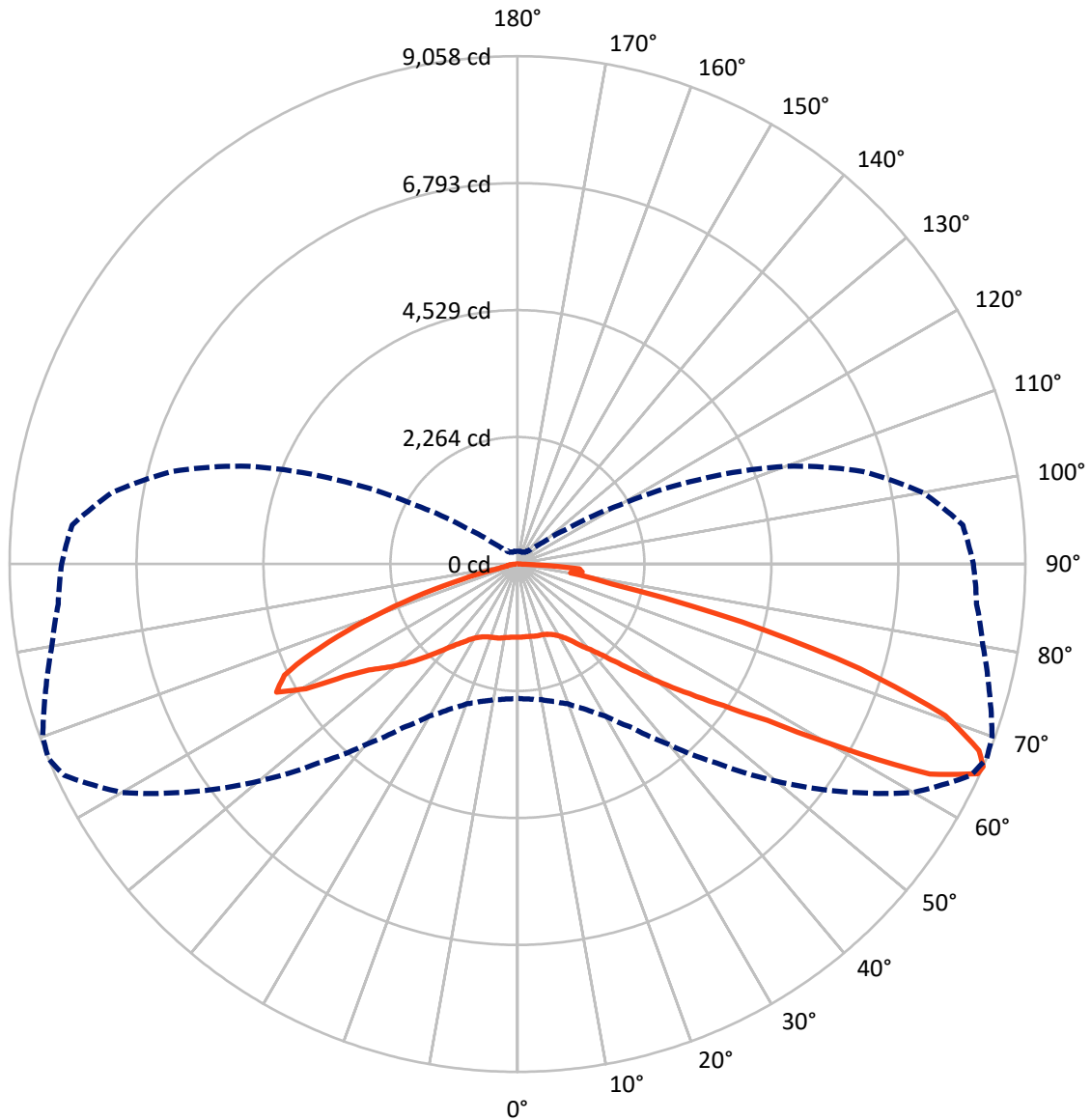


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4180.6	0.0	4180.6
	% Fixture	34.5	0.0	34.5
<b>Street Side</b>	Lumens	7925.5	0.0	7925.5
	% Fixture	65.5	0.0	65.5
<b>Total</b>	Lumens	12106.1	0.0	12106.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	1.0
10°-20°	368.8	3.0
20°-30°	633.8	5.2
30°-40°	1029.1	8.5
40°-50°	1718.1	14.2
50°-60°	2705.3	22.3
60°-70°	3689.0	30.5
70°-80°	1597.0	13.2
80°-90°	240.1	2.0
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°	12106.1	100.0
0°-180°	12106.1	100.0



REPORT NUMBER: P181457

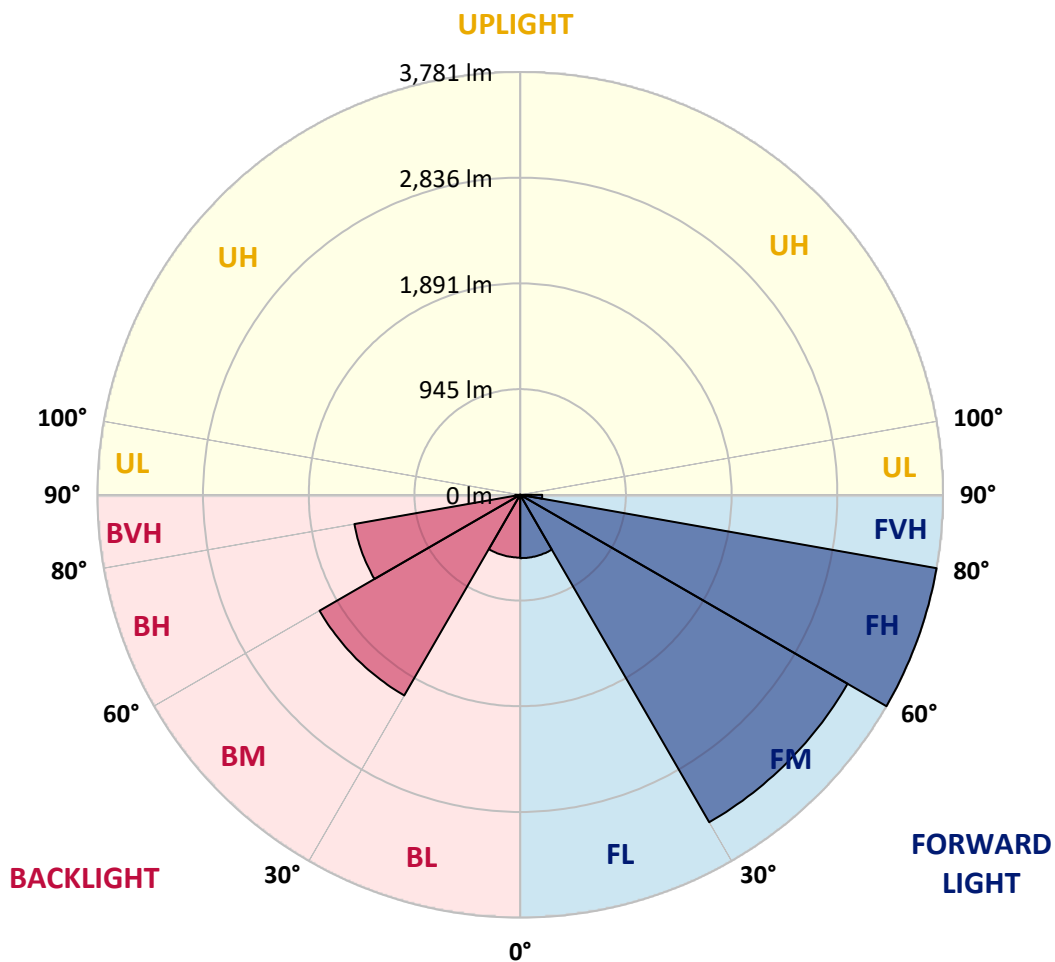
CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.3	4.7			
FM (30°-60°)	3380.8	27.9			
FH (60°-80°)	3781.2	31.2			G2/5000
FVH (80°-90°)	197.2	1.6			G2/225
BL (0°-30°)	561.2	4.6	B2/1000		
BM (30°-60°)	2071.7	17.1	B2/2500		
BH (60°-80°)	1504.8	12.4	B3/2500		G3/2500
BVH (80°-90°)	43.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





REPORT NUMBER: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1309.9	1315.1	1309.9	1311.2	1312.5	1311.2	1309.9	1309.9	1305.9	1308.6	1311.2
5°	1304.6	1308.6	1307.2	1308.6	1309.9	1308.6	1307.2	1308.6	1305.9	1307.2	1311.2
7.5°	1298.1	1296.8	1298.1	1300.7	1303.3	1303.3	1303.3	1304.6	1303.3	1303.3	1307.2
10°	1278.4	1279.7	1282.3	1286.2	1287.5	1291.5	1291.5	1295.4	1296.8	1299.4	1304.6
12.5°	1253.6	1254.9	1257.5	1260.1	1266.6	1273.2	1273.2	1282.3	1286.2	1292.8	1302.0
15°	1235.3	1236.6	1239.2	1241.8	1247.0	1253.6	1257.5	1267.9	1274.5	1286.2	1299.4
17.5°	1245.7	1244.4	1247.0	1248.3	1248.3	1253.6	1253.6	1261.4	1269.3	1279.7	1296.8
20°	1275.8	1275.8	1278.4	1278.4	1277.1	1279.7	1274.5	1274.5	1275.8	1281.0	1292.8
22.5°	1305.9	1304.6	1309.9	1312.5	1313.8	1317.7	1312.5	1311.2	1304.6	1300.7	1304.6
25°	1334.7	1333.4	1339.9	1343.8	1350.4	1354.3	1354.3	1354.3	1349.1	1342.5	1338.6
27.5°	1379.2	1379.2	1385.7	1389.7	1394.9	1402.7	1406.7	1406.7	1408.0	1398.8	1392.3
30°	1453.8	1455.1	1456.4	1461.6	1466.9	1469.5	1474.7	1478.6	1482.5	1477.3	1466.9
32.5°	1542.7	1534.9	1534.9	1542.7	1549.3	1557.1	1559.7	1565.0	1572.8	1568.9	1567.6
35°	1648.8	1646.1	1643.5	1646.1	1654.0	1663.2	1673.6	1682.8	1677.5	1685.4	1681.4
37.5°	1805.8	1808.4	1809.7	1809.7	1808.4	1811.0	1816.2	1825.4	1822.8	1825.4	1830.6
40°	2064.8	2055.6	2046.5	2047.8	2034.7	2037.4	2016.5	2025.6	2026.9	2017.8	2021.7
42.5°	2323.9	2329.1	2333.1	2343.5	2334.4	2329.1	2309.5	2309.5	2299.1	2289.9	2287.3
45°	2603.9	2614.4	2615.7	2636.7	2628.9	2645.8	2660.2	2656.3	2639.3	2638.0	2619.6
47.5°	2827.7	2844.8	2863.1	2887.9	2907.6	2945.5	2990.0	3012.2	3025.3	3035.7	3014.8
50°	2995.2	3003.1	3050.2	3089.4	3132.6	3195.4	3257.0	3336.8	3400.9	3430.9	3459.7
52.5°	3085.5	3105.1	3156.1	3217.7	3293.5	3387.7	3487.2	3614.2	3724.0	3797.3	3862.7
55°	3105.1	3124.8	3182.3	3260.9	3364.2	3491.1	3633.8	3806.4	3971.4	4112.7	4250.1
57.5°	3050.2	3072.4	3133.9	3224.2	3345.9	3500.3	3679.6	3906.0	4133.6	4362.6	4565.4
60°	2949.4	2976.9	3033.1	3122.2	3257.0	3430.9	3645.5	3929.5	4248.8	4599.5	4988.1
62.5°	2783.2	2812.0	2864.4	2962.5	3101.2	3293.5	3542.2	3895.5	4346.9	4899.1	5588.7
65°	2516.3	2529.4	2593.5	2692.9	2815.9	3027.9	3301.4	3728.0	4315.5	5083.6	6033.6
66°	2395.9	2418.2	2457.4	2537.2	2655.0	2853.9	3128.7	3561.8	4196.4	5019.5	6021.8
67.5°	2207.5	2224.5	2250.6	2304.3	2376.3	2522.8	2783.2	3192.8	3832.7	4695.0	5771.8
70°	1784.8	1792.7	1828.0	1846.3	1871.2	1919.6	2013.8	2249.3	2747.9	3557.9	4658.4
72.5°	1216.9	1239.2	1277.1	1329.5	1397.5	1462.9	1507.5	1537.5	1644.8	2122.4	3103.8
75°	892.4	916.0	964.4	1033.8	1152.8	1288.9	1430.2	1495.6	1451.2	1389.7	1728.6
77.5°	518.1	549.6	590.1	656.8	766.8	947.4	1189.4	1404.0	1549.3	1558.4	1479.9
80°	218.5	222.4	247.4	281.3	349.4	476.3	664.7	973.5	1295.4	1512.7	1563.6
82.5°	49.8	61.5	78.5	92.9	113.9	157.0	232.9	387.4	700.1	1097.9	1431.5
85°	18.3	18.3	24.8	36.7	41.9	47.1	61.5	98.1	167.5	308.8	643.8
87.5°	0.0	1.3	2.6	2.6	5.2	6.5	10.5	14.4	13.1	11.8	39.3
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: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1308.6	1307.2	1304.6	1304.6	1304.6	1304.6	1302.0	1303.3	1300.7	1302.0	1302.0
5°	1307.2	1307.2	1305.9	1303.3	1304.6	1304.6	1305.9	1303.3	1303.3	1304.6	1303.3
7.5°	1307.2	1305.9	1305.9	1305.9	1307.2	1305.9	1307.2	1307.2	1307.2	1308.6	1308.6
10°	1307.2	1307.2	1309.9	1311.2	1311.2	1312.5	1316.4	1316.4	1317.7	1319.0	1321.6
12.5°	1308.6	1313.8	1317.7	1321.6	1322.9	1325.5	1332.1	1332.1	1334.7	1338.6	1339.9
15°	1309.9	1317.7	1325.5	1328.2	1330.8	1336.0	1342.5	1345.1	1349.1	1353.0	1355.6
17.5°	1308.6	1319.0	1328.2	1332.1	1336.0	1342.5	1350.4	1353.0	1358.2	1363.5	1368.8
20°	1307.2	1321.6	1336.0	1341.2	1346.4	1355.6	1366.1	1372.7	1377.9	1385.7	1391.0
22.5°	1315.1	1332.1	1351.7	1359.5	1368.8	1380.5	1394.9	1402.7	1409.3	1417.1	1421.0
25°	1339.9	1353.0	1376.6	1389.7	1401.4	1421.0	1440.7	1449.9	1457.7	1464.2	1465.5
27.5°	1381.8	1385.7	1414.5	1431.5	1448.6	1479.9	1503.5	1510.1	1524.4	1529.7	1528.4
30°	1449.9	1443.3	1466.9	1493.0	1517.9	1561.0	1589.9	1606.9	1619.9	1619.9	1609.5
32.5°	1548.0	1537.5	1544.0	1574.1	1602.9	1665.8	1699.7	1722.1	1731.2	1728.6	1706.3
35°	1676.2	1669.7	1665.8	1689.3	1735.1	1808.4	1852.8	1864.7	1879.1	1876.4	1847.6
37.5°	1828.0	1822.8	1822.8	1850.2	1894.7	2003.4	2051.7	2059.6	2058.3	2037.4	1983.7
40°	2007.3	2004.7	1992.8	2008.6	2046.5	2187.8	2253.3	2263.7	2249.3	2215.4	2152.5
42.5°	2265.0	2249.3	2212.7	2221.9	2250.6	2388.0	2473.1	2501.9	2487.5	2453.5	2351.5
45°	2601.3	2584.3	2522.8	2515.0	2530.7	2651.1	2760.9	2767.6	2764.9	2721.7	2601.3
47.5°	2996.5	2970.3	2904.9	2884.0	2878.7	2990.0	3095.9	3106.4	3099.9	3035.7	2874.8
50°	3424.4	3386.4	3343.3	3328.9	3307.9	3387.7	3495.1	3496.4	3470.2	3381.2	3230.7
52.5°	3881.0	3868.0	3860.1	3845.7	3836.6	3906.0	3971.4	3932.1	3892.9	3799.9	3669.1
55°	4341.7	4395.3	4450.3	4455.5	4471.2	4545.8	4544.5	4437.2	4408.4	4357.3	4227.8
57.5°	4831.1	5030.0	5202.6	5256.3	5308.7	5447.4	5434.3	5328.3	5291.7	5228.9	5121.5
60°	5497.1	6033.6	6532.1	6651.2	6733.6	6899.9	6884.1	6720.6	6796.4	6791.2	6652.5
62.5°	6430.1	7322.5	8069.6	8252.9	8310.4	8328.7	8229.3	8052.6	8127.2	8210.9	7784.4
65°	7062.1	8111.5	8878.3	9019.6	9027.5	8809.0	8587.9	8379.8	8361.4	8289.4	7679.7
66°	7076.5	8150.7	8920.1	9057.5	9009.2	8710.8	8430.8	8221.4	8131.1	7972.8	7340.8
67.5°	6822.6	7906.1	8734.4	8879.6	8773.6	8351.0	7965.0	7695.4	7518.7	7262.3	6704.9
70°	5730.0	6804.3	7825.0	8095.9	8129.8	7499.1	6963.9	6647.3	6409.2	6057.2	5576.9
72.5°	4260.6	5231.5	6131.8	6390.8	6523.0	6019.2	5567.8	5327.0	5001.1	4630.8	4289.3
75°	2670.7	3356.4	3959.6	4141.5	4017.1	3627.2	3356.4	3255.6	2935.0	2713.9	2558.2
77.5°	1527.1	1741.7	1790.1	1720.7	1574.1	1205.1	857.1	634.6	550.9	609.8	672.6
80°	1490.4	1366.1	1088.7	957.9	867.5	596.7	350.7	240.7	200.2	205.4	222.4
82.5°	1614.7	1732.5	1426.3	1163.3	976.2	659.5	363.7	193.7	130.9	154.4	174.0
85°	1049.4	1460.3	1315.1	1108.3	897.7	564.0	299.6	100.7	66.7	87.6	120.4
87.5°	106.0	116.5	99.4	134.8	100.7	47.1	23.5	14.4	13.1	15.7	23.5
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: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1303.3	1303.3	1304.6	1305.9	1307.2	1308.6	1308.6	1308.6	1308.6	1311.2	1309.9
5°	1305.9	1308.6	1311.2	1312.5	1315.1	1315.1	1319.0	1317.7	1317.7	1321.6	1322.9
7.5°	1311.2	1315.1	1320.3	1319.0	1324.2	1322.9	1325.5	1325.5	1321.6	1322.9	1320.3
10°	1322.9	1328.2	1330.8	1326.8	1328.2	1322.9	1321.6	1315.1	1307.2	1303.3	1298.1
12.5°	1342.5	1347.8	1347.8	1341.2	1333.4	1321.6	1312.5	1298.1	1286.2	1279.7	1273.2
15°	1359.5	1364.8	1363.5	1353.0	1341.2	1322.9	1309.9	1292.8	1275.8	1265.3	1258.8
17.5°	1372.7	1375.3	1371.4	1356.9	1343.8	1326.8	1313.8	1295.4	1275.8	1262.7	1251.0
20°	1392.3	1389.7	1380.5	1362.1	1347.8	1332.1	1321.6	1305.9	1283.6	1266.6	1249.7
22.5°	1421.0	1410.6	1393.6	1374.0	1359.5	1345.1	1334.7	1317.7	1295.4	1274.5	1254.9
25°	1459.0	1438.1	1414.5	1393.6	1380.5	1364.8	1353.0	1334.7	1311.2	1287.5	1264.0
27.5°	1514.0	1477.3	1447.3	1428.9	1414.5	1394.9	1380.5	1356.9	1332.1	1304.6	1278.4
30°	1575.5	1525.8	1496.9	1482.5	1466.9	1445.9	1423.6	1393.6	1364.8	1334.7	1303.3
32.5°	1655.3	1595.1	1567.6	1553.2	1532.3	1506.1	1479.9	1445.9	1405.3	1366.1	1328.2
35°	1759.9	1698.4	1669.7	1647.5	1618.6	1584.7	1546.7	1500.8	1445.9	1393.6	1345.1
37.5°	1872.5	1805.8	1778.2	1754.7	1711.5	1667.1	1613.4	1546.7	1472.1	1402.7	1342.5
40°	2015.1	1953.6	1918.3	1877.7	1826.7	1749.5	1665.8	1568.9	1473.4	1388.4	1317.7
42.5°	2195.7	2134.2	2081.9	2017.8	1928.8	1809.7	1690.6	1565.0	1449.9	1353.0	1277.1
45°	2435.2	2360.6	2270.2	2157.8	2013.8	1847.6	1691.9	1540.1	1405.3	1298.1	1216.9
47.5°	2728.3	2614.4	2466.5	2276.9	2070.1	1858.1	1671.0	1490.4	1336.0	1219.5	1129.2
50°	3076.3	2897.0	2653.7	2375.0	2098.9	1842.4	1618.6	1415.8	1237.9	1113.6	1006.2
52.5°	3474.2	3181.0	2822.4	2445.6	2097.6	1790.1	1529.7	1303.3	1109.6	970.9	868.8
55°	3941.2	3505.5	2996.5	2498.0	2060.9	1693.2	1393.6	1144.9	951.3	823.1	728.8
57.5°	4625.6	4031.6	3300.1	2579.1	1987.6	1544.0	1209.0	955.3	785.1	663.4	583.6
60°	5876.6	4909.6	3847.1	2742.6	1875.1	1325.5	993.1	752.4	609.8	511.6	458.0
62.5°	6818.7	5588.7	4142.8	2706.1	1648.8	1056.0	736.7	548.3	448.8	382.0	348.1
65°	6683.9	5378.0	3827.5	2330.4	1292.8	744.6	489.4	372.9	308.8	277.4	257.8
66°	6379.0	5103.2	3554.0	2097.6	1117.5	618.9	403.0	312.7	265.7	243.4	230.3
67.5°	5800.7	4592.9	3064.6	1719.4	858.4	448.8	303.5	247.4	215.9	206.8	197.6
70°	4821.9	3662.5	2151.2	1001.0	438.3	250.0	192.4	172.7	164.8	163.5	160.9
72.5°	3695.3	2592.2	1266.6	473.7	227.7	166.1	149.2	142.6	140.0	140.0	141.3
75°	2265.0	1456.4	560.0	231.6	159.6	140.0	132.2	129.6	128.3	129.6	128.3
77.5°	756.3	463.3	239.4	175.3	145.2	129.6	124.3	121.7	121.7	121.7	121.7
80°	231.6	201.5	183.2	162.2	137.4	123.0	115.2	113.9	115.2	116.5	112.6
82.5°	174.0	164.8	154.4	143.9	124.3	110.0	107.3	107.3	107.3	103.3	98.1
85°	128.3	126.9	104.7	98.1	91.6	91.6	91.6	91.6	87.6	81.1	75.9
87.5°	23.5	22.2	23.5	24.8	36.7	39.3	39.3	41.9	45.8	43.2	43.2
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: P181457

CATALOG NUMBER: ICM-E05-LED-E1-T3-8030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1309.9	1308.6	1312.5	1309.9	1311.2
5°	1321.6	1320.3	1322.9	1320.3	1324.2
7.5°	1317.7	1315.1	1313.8	1315.1	1316.4
10°	1290.2	1287.5	1286.2	1284.9	1286.2
12.5°	1266.6	1261.4	1261.4	1258.8	1260.1
15°	1249.7	1245.7	1244.4	1241.8	1243.1
17.5°	1241.8	1235.3	1232.7	1230.1	1230.1
20°	1236.6	1228.7	1224.8	1222.1	1220.8
22.5°	1236.6	1224.8	1219.5	1216.9	1215.6
25°	1241.8	1227.4	1219.5	1215.6	1214.3
27.5°	1252.3	1234.0	1224.8	1219.5	1219.5
30°	1270.6	1247.0	1234.0	1227.4	1226.1
32.5°	1288.9	1257.5	1239.2	1231.4	1228.7
35°	1298.1	1257.5	1235.3	1222.1	1219.5
37.5°	1287.5	1240.5	1213.0	1193.4	1189.4
40°	1254.9	1205.1	1175.1	1156.8	1154.1
42.5°	1211.7	1163.3	1127.9	1114.9	1110.9
45°	1152.8	1095.3	1059.9	1041.6	1042.9
47.5°	1052.0	993.1	961.8	944.7	947.4
50°	932.9	875.4	847.9	829.6	833.5
52.5°	802.1	749.8	723.6	714.4	711.8
55°	664.7	624.2	605.9	595.4	591.4
57.5°	539.1	510.3	497.2	484.2	485.5
60°	425.3	410.9	407.0	392.6	391.3
62.5°	335.0	325.9	321.9	311.4	312.7
65°	253.9	251.3	253.9	247.4	250.0
66°	229.0	230.3	230.3	226.4	229.0
67.5°	197.6	200.2	204.1	200.2	202.8
70°	163.5	166.1	168.8	168.8	168.8
72.5°	142.6	145.2	146.5	146.5	146.5
75°	130.9	132.2	133.5	130.9	130.9
77.5°	123.0	123.0	120.4	119.1	117.8
80°	111.3	110.0	106.0	103.3	103.3
82.5°	92.9	90.3	87.6	83.7	83.7
85°	70.7	68.0	65.4	60.2	57.6
87.5°	36.7	38.0	36.7	30.1	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)