

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: P180397

Luminaire Tested: **ICM-E05-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180397
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7789.3 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

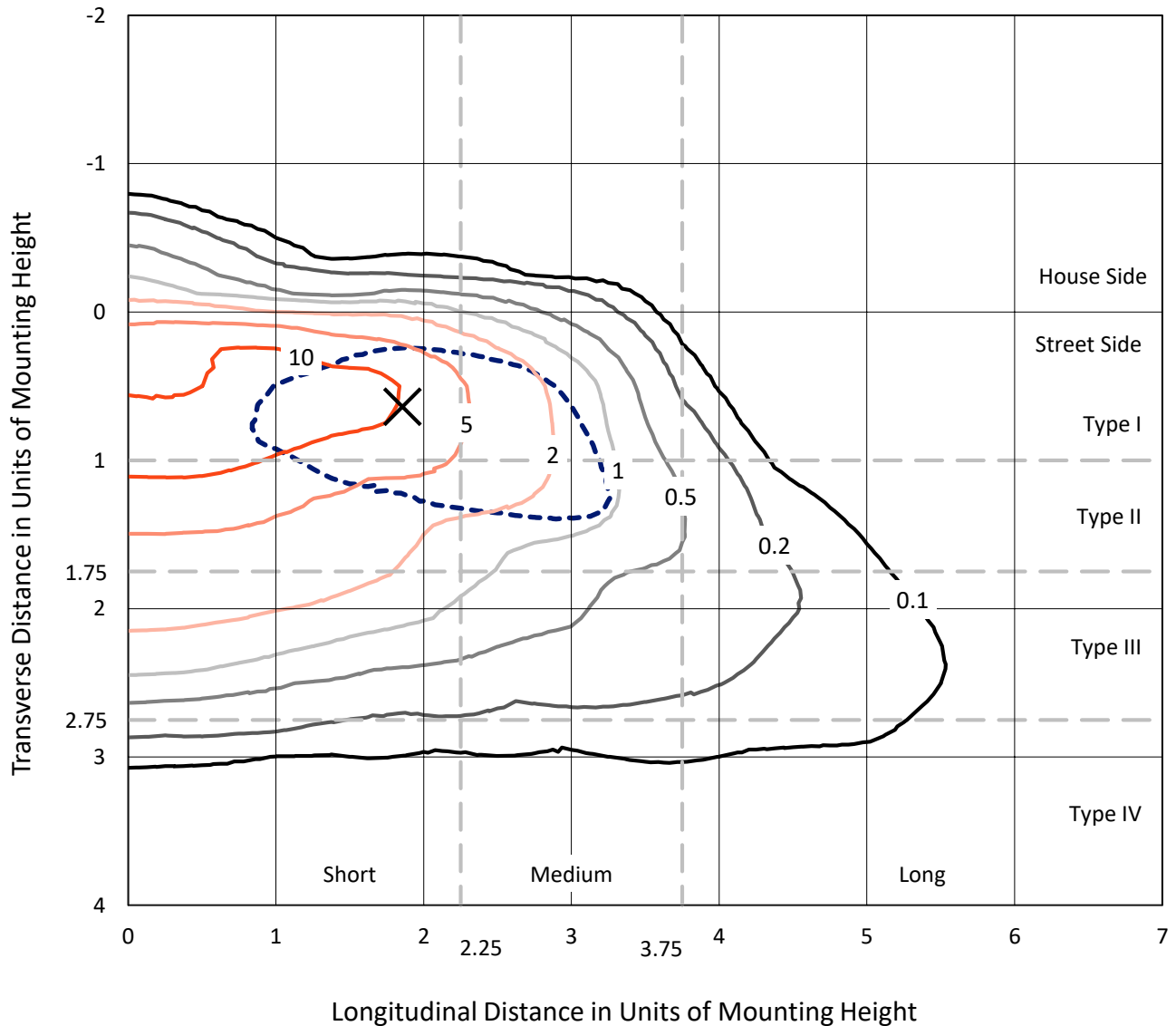
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180397
 CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

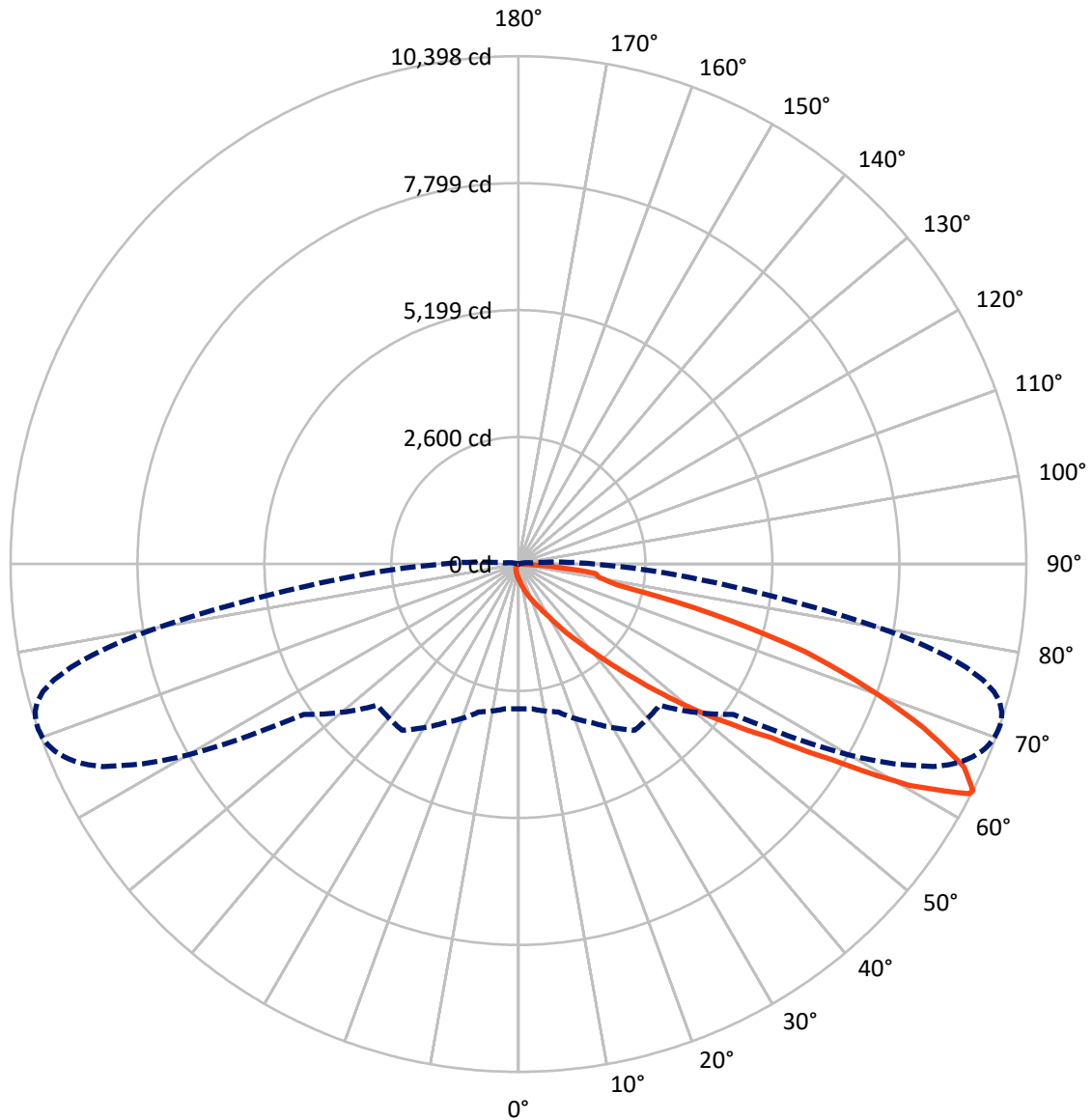
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P180397
CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P180397

CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	165.4	0.0	165.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7624.0	0.0	7624.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	7789.3	0.0	7789.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	0.4
10°-20°	128.1	1.6
20°-30°	260.1	3.3
30°-40°	635.6	8.2
40°-50°	1421.4	18.2
50°-60°	1998.7	25.7
60°-70°	2350.3	30.2
70°-80°	848.7	10.9
80°-90°	113.5	1.5
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°	7789.3	100.0
0°-180°	7789.3	100.0



REPORT NUMBER: P180397

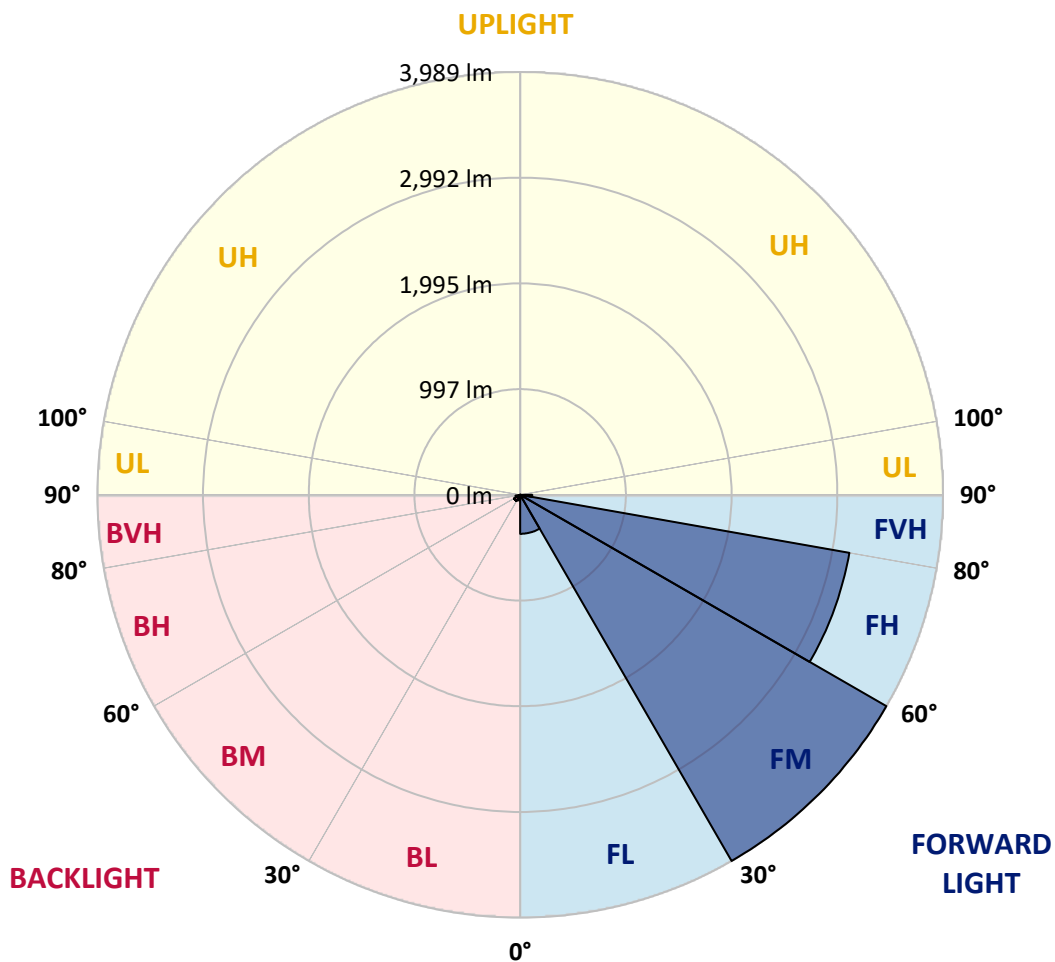
CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.1	4.7			
FM	(30°-60°)	3989.0	51.2			
FH	(60°-80°)	3153.6	40.5			G2/5000
FVH	(80°-90°)	113.2	1.5			G2/225
BL	(0°-30°)	53.2	0.7	B0/110		
BM	(30°-60°)	66.6	0.9	B0/220		
BH	(60°-80°)	45.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			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 II Short





REPORT NUMBER: P180397

CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	390.8	395.1	392.3	385.2	376.7	365.3	355.4	355.4	354.0	349.8	351.2
5°	512.7	514.0	508.4	491.4	475.8	451.7	424.8	422.0	419.2	414.9	413.5
7.5°	631.5	637.2	631.5	613.1	582.0	545.2	502.7	498.4	490.0	490.0	484.3
10°	753.3	753.3	747.6	726.4	698.1	645.7	591.9	584.8	574.9	572.1	563.6
12.5°	839.7	839.7	836.9	825.6	802.9	756.2	691.1	683.9	671.2	667.0	657.0
15°	873.7	873.7	875.2	885.0	886.4	865.2	797.2	791.5	778.8	767.5	763.3
17.5°	895.0	893.5	893.5	907.7	933.2	947.4	903.4	897.8	883.6	878.0	863.8
20°	941.7	938.9	930.3	930.3	954.4	1004.0	1004.0	1002.6	987.0	982.7	975.6
22.5°	1011.1	1008.2	982.7	961.5	972.8	1035.2	1093.2	1090.3	1084.7	1079.1	1074.8
25°	1124.4	1114.4	1070.5	1008.2	998.3	1064.8	1161.1	1168.3	1172.5	1172.5	1175.4
27.5°	1295.7	1283.0	1205.0	1088.9	1045.0	1113.0	1236.2	1250.3	1263.1	1266.0	1278.7
30°	1533.6	1510.9	1399.1	1229.1	1128.6	1183.8	1346.7	1362.2	1380.7	1386.3	1406.1
32.5°	1924.4	1911.6	1804.0	1549.1	1334.0	1322.6	1501.0	1520.8	1544.9	1554.8	1578.9
35°	2519.2	2522.0	2434.2	2204.8	1907.5	1751.6	1777.1	1794.2	1802.6	1832.4	1845.1
37.5°	2922.7	2929.8	2949.6	2859.0	2646.6	2488.0	2288.4	2306.7	2262.9	2267.1	2268.5
40°	3143.6	3166.3	3282.4	3370.3	3353.2	3261.1	3101.1	3111.1	3028.9	3010.5	2921.3
42.5°	3290.9	3320.7	3506.2	3778.1	3916.8	4000.4	3963.6	3959.3	3895.6	3871.5	3796.5
45°	3383.0	3409.9	3643.6	4044.2	4364.3	4607.8	4708.4	4719.7	4665.9	4641.8	4579.6
47.5°	3378.7	3409.9	3660.5	4143.4	4614.9	5004.3	5287.6	5301.7	5334.3	5313.1	5317.3
50°	3191.8	3221.5	3473.6	3974.9	4541.3	5185.6	5703.8	5749.2	5801.6	5837.0	5854.0
52.5°	2965.2	2986.4	3210.2	3686.0	4226.9	5110.5	5950.3	6028.1	6106.0	6172.6	6219.3
55°	2881.7	2905.8	3081.3	3476.4	3974.9	4796.2	6065.0	6179.7	6290.1	6399.2	6488.4
57.5°	2925.6	2948.2	3074.3	3377.3	3824.8	4464.9	6097.5	6275.9	6457.2	6634.2	6809.8
60°	3087.0	3111.1	3218.7	3469.3	3785.1	4273.7	5970.1	6266.1	6567.7	6876.3	7166.6
62.5°	3023.3	3033.2	3191.8	3630.8	4068.3	4110.8	5507.0	5920.5	6380.8	6856.5	7325.3
63°	2962.3	2973.7	3135.2	3586.9	4154.7	4086.7	5364.0	5800.1	6285.9	6798.5	7308.2
65°	2686.2	2687.6	2810.9	3167.7	4058.4	4129.2	4726.8	5143.1	5701.1	6315.6	6959.9
67.5°	2005.1	1995.3	2114.2	2386.1	3186.2	4130.6	4057.0	4290.6	4678.6	5223.8	5801.6
70°	710.9	695.3	887.9	1264.6	1985.3	3378.7	3486.3	3501.9	3609.5	3904.0	4266.5
72.5°	230.8	235.1	283.3	463.1	914.8	2274.2	3156.4	3108.2	3079.9	3078.5	3126.6
75°	92.0	93.5	113.3	205.3	410.7	1096.0	2764.1	2791.1	2800.9	2815.1	2830.7
77.5°	43.9	48.2	63.7	114.7	203.9	542.3	1978.2	2206.2	2336.5	2437.0	2497.9
80°	15.5	18.4	35.4	70.8	94.9	249.2	1042.2	1257.5	1448.7	1695.0	1907.5
82.5°	0.0	0.0	7.1	49.6	52.4	100.6	427.6	501.3	573.5	743.4	954.4
85°	0.0	0.0	0.0	14.1	15.5	17.0	144.5	174.1	195.4	228.0	263.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	8.5	21.2	32.6
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: P180397

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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	348.4	347.0	347.0	344.1	342.7	339.8	338.4	334.2	332.7	332.7	332.7
5°	412.1	406.4	403.5	396.5	392.3	390.8	383.7	380.9	376.7	378.0	371.0
7.5°	482.9	472.9	468.7	458.8	456.0	446.0	443.3	436.2	431.9	423.4	420.6
10°	560.7	548.0	540.9	525.4	521.1	514.0	505.5	497.0	490.0	481.5	477.2
12.5°	650.0	638.6	632.9	611.7	601.9	591.9	580.6	569.2	558.0	550.9	540.9
15°	754.8	736.4	730.7	710.9	693.9	681.1	665.6	651.4	642.9	628.7	618.8
17.5°	858.1	839.7	835.4	805.8	787.4	778.8	761.9	743.4	727.8	713.7	698.1
20°	961.5	948.7	937.4	909.1	889.3	875.2	852.5	834.1	821.3	801.5	781.7
22.5°	1064.8	1052.1	1043.6	1013.9	995.4	975.6	955.8	936.0	917.6	893.5	870.9
25°	1171.1	1162.6	1158.3	1131.4	1114.4	1096.0	1076.2	1053.6	1030.9	1004.0	979.9
27.5°	1281.5	1284.4	1275.8	1270.2	1251.8	1239.1	1207.9	1192.3	1175.4	1142.8	1113.0
30°	1421.7	1430.2	1427.4	1431.6	1420.3	1411.8	1387.7	1367.9	1348.1	1316.9	1283.0
32.5°	1598.7	1610.1	1615.7	1631.3	1625.6	1622.8	1615.7	1587.4	1573.2	1519.5	1505.3
35°	1872.0	1866.3	1890.4	1903.2	1897.5	1894.7	1886.2	1870.6	1853.6	1815.4	1780.0
37.5°	2227.5	2233.1	2241.6	2216.1	2199.2	2197.7	2172.2	2156.7	2132.6	2090.1	2047.6
40°	2878.8	2843.5	2803.8	2696.2	2649.4	2622.5	2547.5	2526.2	2485.1	2427.1	2383.2
42.5°	3725.6	3690.3	3571.3	3391.5	3295.2	3162.1	3101.1	3026.1	2968.0	2873.1	2822.2
45°	4566.8	4464.9	4450.6	4241.0	4122.2	3946.5	3837.5	3711.5	3579.7	3455.2	3364.6
47.5°	5276.2	5253.5	5184.2	5056.8	4946.3	4799.0	4658.8	4464.9	4328.9	4151.8	3989.0
50°	5844.0	5842.6	5817.2	5743.5	5651.5	5532.5	5409.3	5245.1	5090.7	4874.1	4699.8
52.5°	6268.9	6291.6	6300.0	6277.3	6242.0	6137.2	6074.9	5937.5	5807.2	5623.2	5434.8
55°	6580.4	6663.9	6706.5	6754.6	6744.7	6707.9	6705.1	6615.9	6556.3	6410.5	6277.3
57.5°	6965.6	7102.9	7234.6	7468.2	7476.8	7558.9	7601.3	7643.9	7655.2	7597.2	7553.3
60°	7455.5	7736.0	7985.2	8473.6	8601.1	8802.2	8932.5	9074.1	9194.5	9204.3	9201.5
62.5°	7801.1	8233.0	8635.1	9360.2	9608.0	9840.2	10014.4	10151.7	10235.2	10320.2	10359.9
63°	7810.9	8284.0	8711.6	9459.2	9719.8	9940.7	10106.4	10233.8	10321.6	10372.6	10398.1
65°	7571.7	8145.2	8654.9	9399.8	9644.7	9867.0	9953.5	10037.0	10079.5	10099.3	10024.2
67.5°	6417.5	6978.4	7573.1	8405.7	8615.3	8881.5	8952.3	8994.8	9014.6	9010.4	8946.7
70°	4799.0	5269.1	5930.5	6882.0	7159.6	7420.1	7581.5	7650.9	7673.6	7666.6	7571.7
72.5°	3350.3	3626.5	4171.7	5230.9	5609.0	5943.2	6142.8	6246.2	6267.5	6225.0	6137.2
75°	2813.7	2827.8	2951.1	3530.3	3884.2	4241.0	4466.3	4531.4	4488.9	4360.0	4136.3
77.5°	2512.1	2543.3	2543.3	2629.6	2699.0	2798.2	2819.4	2660.8	2476.7	2238.8	2046.2
80°	2107.1	2216.1	2292.6	2356.3	2363.4	2343.5	2291.2	2202.0	2060.4	1879.1	1678.1
82.5°	1280.1	1495.4	1583.2	1911.6	2073.1	2182.2	2173.7	2054.7	1947.1	1758.7	1587.4
85°	322.9	348.4	378.0	491.4	550.9	672.7	749.1	784.5	797.2	732.1	662.7
87.5°	31.2	21.2	35.4	26.9	38.2	28.3	38.2	35.4	43.9	46.7	51.0
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: P180397

CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	330.0	328.6	327.1	325.7	324.3	322.9	320.0	320.0	317.2	315.8	314.3
5°	366.8	363.9	362.5	359.7	355.4	352.6	348.4	342.7	338.4	337.0	334.2
7.5°	413.5	406.4	403.5	399.4	393.7	385.2	379.5	375.3	368.2	363.9	355.4
10°	465.9	458.8	450.3	441.8	433.3	423.4	416.3	410.7	399.4	393.7	383.7
12.5°	532.5	519.7	509.8	498.4	487.2	475.8	467.3	450.3	440.4	427.6	419.2
15°	600.4	589.1	577.8	563.6	546.6	528.2	519.7	504.1	491.4	471.5	460.2
17.5°	682.5	661.3	644.3	627.4	611.7	594.7	577.8	553.7	535.3	518.2	495.6
20°	763.3	737.8	719.4	696.7	674.1	647.2	627.4	610.3	584.8	562.1	538.1
22.5°	849.7	824.1	794.4	771.7	740.6	719.4	692.5	664.1	638.6	608.9	579.2
25°	954.4	927.5	893.5	863.8	828.4	798.6	766.1	733.5	702.3	668.4	630.1
27.5°	1083.3	1055.0	1018.1	982.7	936.0	899.2	868.0	824.1	784.5	742.1	698.1
30°	1246.1	1215.0	1169.7	1118.7	1071.9	1030.9	987.0	928.9	885.0	834.1	777.4
32.5°	1458.5	1421.7	1360.8	1312.7	1254.6	1200.8	1139.9	1081.9	1019.5	953.0	887.9
35°	1726.2	1692.2	1621.4	1550.6	1486.9	1423.2	1346.7	1280.1	1192.3	1111.6	1028.1
37.5°	2003.7	1942.8	1877.7	1801.2	1722.0	1645.5	1552.0	1459.9	1359.5	1271.6	1166.8
40°	2320.9	2247.3	2193.5	2111.4	1999.5	1890.4	1804.0	1689.3	1563.4	1445.8	1322.6
42.5°	2755.6	2673.5	2577.2	2452.6	2371.9	2244.5	2132.6	1996.7	1831.0	1699.3	1550.6
45°	3258.3	3146.4	3053.0	2932.7	2834.9	2676.4	2546.1	2364.9	2199.2	2026.3	1845.1
47.5°	3831.8	3693.0	3557.1	3438.2	3282.4	3126.6	2960.9	2768.4	2556.0	2366.2	2151.0
50°	4490.4	4293.5	4105.1	3952.2	3738.3	3558.5	3378.7	3162.1	2927.0	2708.9	2463.9
52.5°	5222.5	4994.4	4745.2	4510.2	4262.4	4031.5	3814.8	3565.6	3303.6	3037.4	2764.1
55°	6106.0	5934.7	5641.5	5342.8	5011.4	4702.7	4423.7	4115.1	3796.5	3446.7	3159.2
57.5°	7489.5	7406.0	7161.0	6862.2	6430.3	6055.0	5582.1	5204.0	4742.4	4261.0	3889.9
60°	9364.3	9261.0	9123.7	8881.5	8538.8	8029.1	7508.0	6920.2	6217.9	5550.9	4918.0
62.5°	10364.2	10327.3	10215.4	10048.3	9728.3	9326.1	8800.8	8155.0	7362.1	6552.1	5745.0
63°	10393.8	10347.1	10250.9	10080.9	9799.1	9409.7	8894.3	8266.9	7490.9	6665.3	5841.2
65°	9991.7	9973.3	9875.6	9690.1	9497.5	9200.1	8800.8	8261.3	7609.9	6829.6	6009.7
67.5°	8861.6	8806.5	8656.3	8599.7	8465.2	8258.5	7954.0	7583.0	7117.1	6503.9	5795.9
70°	7495.2	7413.1	7224.7	7124.1	6959.9	6829.6	6644.1	6379.3	6091.9	5664.2	5136.0
72.5°	6046.5	5876.6	5703.8	5441.9	5212.5	4980.3	4774.9	4588.0	4272.2	4099.5	3698.7
75°	3926.7	3618.1	3322.1	2925.6	2568.8	2252.9	1945.7	1789.9	1465.6	1334.0	1145.6
77.5°	1863.5	1690.8	1458.5	1278.7	1049.3	856.7	699.5	525.4	412.1	322.9	246.4
80°	1503.8	1358.0	1217.8	1055.0	882.2	703.8	539.5	403.5	286.0	198.2	140.2
82.5°	1341.0	1182.4	1009.7	897.8	780.3	638.6	523.9	427.6	315.8	230.8	157.2
85°	521.1	439.0	338.4	276.1	215.3	177.0	160.0	110.4	86.4	68.0	52.4
87.5°	45.3	36.8	29.8	19.8	21.2	11.3	12.7	8.5	7.1	7.1	5.7
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: P180397

CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	312.9	311.5	310.1	307.3	307.3	304.5	303.1	301.6	294.5	279.0	266.2
5°	328.6	325.7	322.9	318.6	315.8	311.5	308.7	304.5	288.8	259.2	233.7
7.5°	351.2	345.5	341.3	332.7	328.6	322.9	318.6	311.5	286.0	240.7	205.3
10°	378.0	368.2	361.1	351.2	342.7	335.6	328.6	318.6	283.3	220.9	179.8
12.5°	410.7	399.4	385.2	373.9	362.5	352.6	342.7	330.0	279.0	203.9	160.0
15°	443.3	426.2	416.3	400.7	385.2	371.0	356.8	345.5	280.4	185.5	143.0
17.5°	480.0	463.1	441.8	424.8	407.8	389.4	372.5	349.8	273.3	171.3	130.2
20°	515.4	491.4	471.5	450.3	426.2	403.5	382.3	362.5	267.6	157.2	119.0
22.5°	553.7	525.4	499.9	472.9	443.3	417.8	392.3	366.8	257.7	144.5	109.0
25°	600.4	567.8	531.0	498.4	467.3	436.2	403.5	372.5	247.8	133.1	102.0
27.5°	657.0	614.6	577.8	536.7	492.7	453.1	417.8	383.7	237.9	124.7	94.9
30°	729.3	679.7	627.4	574.9	528.2	482.9	433.3	390.8	228.0	116.1	87.8
32.5°	825.6	763.3	699.5	638.6	576.4	518.2	465.9	410.7	222.3	109.0	80.7
35°	953.0	872.3	794.4	718.0	642.9	572.1	504.1	441.8	222.3	100.6	72.2
37.5°	1073.4	979.9	880.7	785.9	696.7	614.6	533.9	458.8	211.0	93.5	65.1
40°	1203.6	1091.8	975.6	863.8	756.2	654.2	562.1	475.8	201.1	84.9	58.0
42.5°	1403.4	1261.7	1110.1	979.9	851.1	725.0	610.3	508.4	188.4	76.5	51.0
45°	1665.3	1485.4	1307.0	1148.4	984.2	829.8	693.9	567.8	185.5	69.4	43.9
47.5°	1945.7	1733.2	1523.6	1321.2	1128.6	948.7	785.9	634.4	185.5	62.3	38.2
50°	2224.7	1958.4	1734.7	1499.6	1283.0	1070.5	876.6	703.8	186.9	56.7	31.2
52.5°	2476.7	2192.0	1941.4	1669.5	1430.2	1183.8	972.8	771.7	184.1	49.6	25.5
55°	2826.4	2492.3	2202.0	1901.8	1621.4	1343.8	1104.6	873.7	185.5	43.9	21.2
57.5°	3470.7	3078.5	2728.8	2335.1	2012.2	1654.0	1363.6	1083.3	202.5	36.8	15.5
60°	4395.5	3885.7	3394.3	2914.3	2503.6	2077.3	1700.7	1370.7	237.9	29.8	11.3
62.5°	5017.1	4350.2	3763.8	3234.3	2757.0	2311.0	1900.4	1525.1	262.0	24.1	7.1
63°	5080.8	4391.2	3802.1	3255.6	2768.4	2322.3	1908.8	1536.4	263.4	22.7	7.1
65°	5201.1	4462.0	3823.4	3259.7	2757.0	2306.7	1903.2	1535.0	266.2	18.4	5.7
67.5°	5063.8	4353.0	3700.1	3138.0	2658.0	2214.7	1832.4	1478.3	264.8	12.7	4.3
70°	4528.6	3939.5	3366.0	2842.1	2405.9	2005.1	1668.1	1348.1	243.5	8.5	2.8
72.5°	3324.9	2924.1	2479.6	2101.4	1812.6	1505.3	1284.4	1012.5	188.4	5.7	1.4
75°	985.6	897.8	754.8	665.6	587.6	485.7	431.9	337.0	96.3	2.8	0.0
77.5°	196.8	178.4	160.0	145.9	137.4	117.5	111.9	92.0	39.6	1.4	0.0
80°	103.3	84.9	72.2	63.7	55.3	45.3	38.2	31.2	7.1	0.0	0.0
82.5°	99.2	66.5	48.2	39.6	34.0	26.9	21.2	15.5	4.3	0.0	0.0
85°	36.8	28.3	21.2	17.0	14.1	12.7	10.0	8.5	0.0	0.0	0.0
87.5°	5.7	4.3	4.3	2.8	2.8	1.4	1.4	1.4	0.0	0.0	0.0
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: P180397

CATALOG NUMBER: ICM-E05-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	298.8	298.8	298.8	298.8	298.8	298.8	298.8
2.5°	253.5	242.1	236.5	229.4	229.4	228.0	230.8
5°	211.0	195.4	184.1	175.6	177.0	172.7	174.1
7.5°	178.4	162.9	152.9	147.3	145.9	144.5	144.5
10°	154.3	140.2	131.7	127.4	126.0	126.0	126.0
12.5°	137.4	123.2	116.1	113.3	113.3	111.9	111.9
15°	123.2	111.9	104.7	102.0	102.0	100.6	102.0
17.5°	111.9	100.6	94.9	92.0	92.0	90.6	90.6
20°	102.0	92.0	86.4	82.1	82.1	80.7	82.1
22.5°	93.5	83.5	76.5	73.7	72.2	70.8	72.2
25°	84.9	75.1	68.0	63.7	62.3	62.3	60.9
27.5°	77.9	68.0	59.4	55.3	53.8	53.8	52.4
30°	70.8	59.4	51.0	46.7	45.3	45.3	45.3
32.5°	63.7	51.0	43.9	39.6	38.2	38.2	38.2
35°	56.7	43.9	36.8	32.6	31.2	31.2	31.2
37.5°	48.2	36.8	28.3	25.5	24.1	22.7	22.7
40°	41.0	28.3	21.2	18.4	15.5	15.5	15.5
42.5°	34.0	22.7	15.5	11.3	10.0	8.5	10.0
45°	28.3	17.0	10.0	5.7	4.3	4.3	4.3
47.5°	22.7	11.3	4.3	1.4	1.4	1.4	1.4
50°	17.0	7.1	1.4	0.0	0.0	1.4	1.4
52.5°	12.7	4.3	0.0	0.0	0.0	0.0	0.0
55°	7.1	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)