

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: McGRAW-EDISON

Report Number: P228009

Luminaire Tested: **ISC-AF-1200-LED-E1-T4W-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-1200-LED-E1-T4W-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7251.2 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 82.7
Input Voltage (V): 120
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

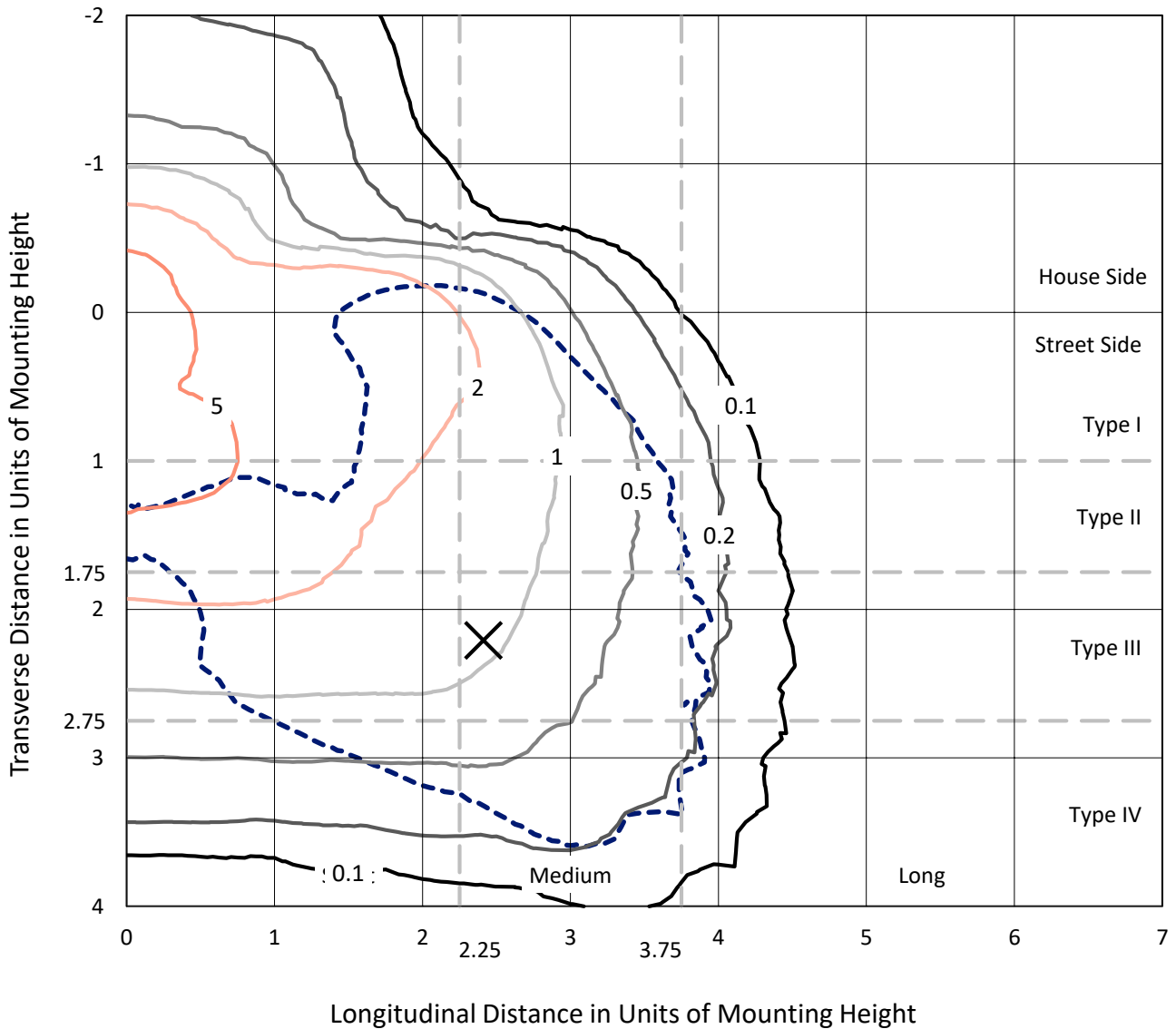


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Iso-Footcandle Lines of Horizontal Illumination

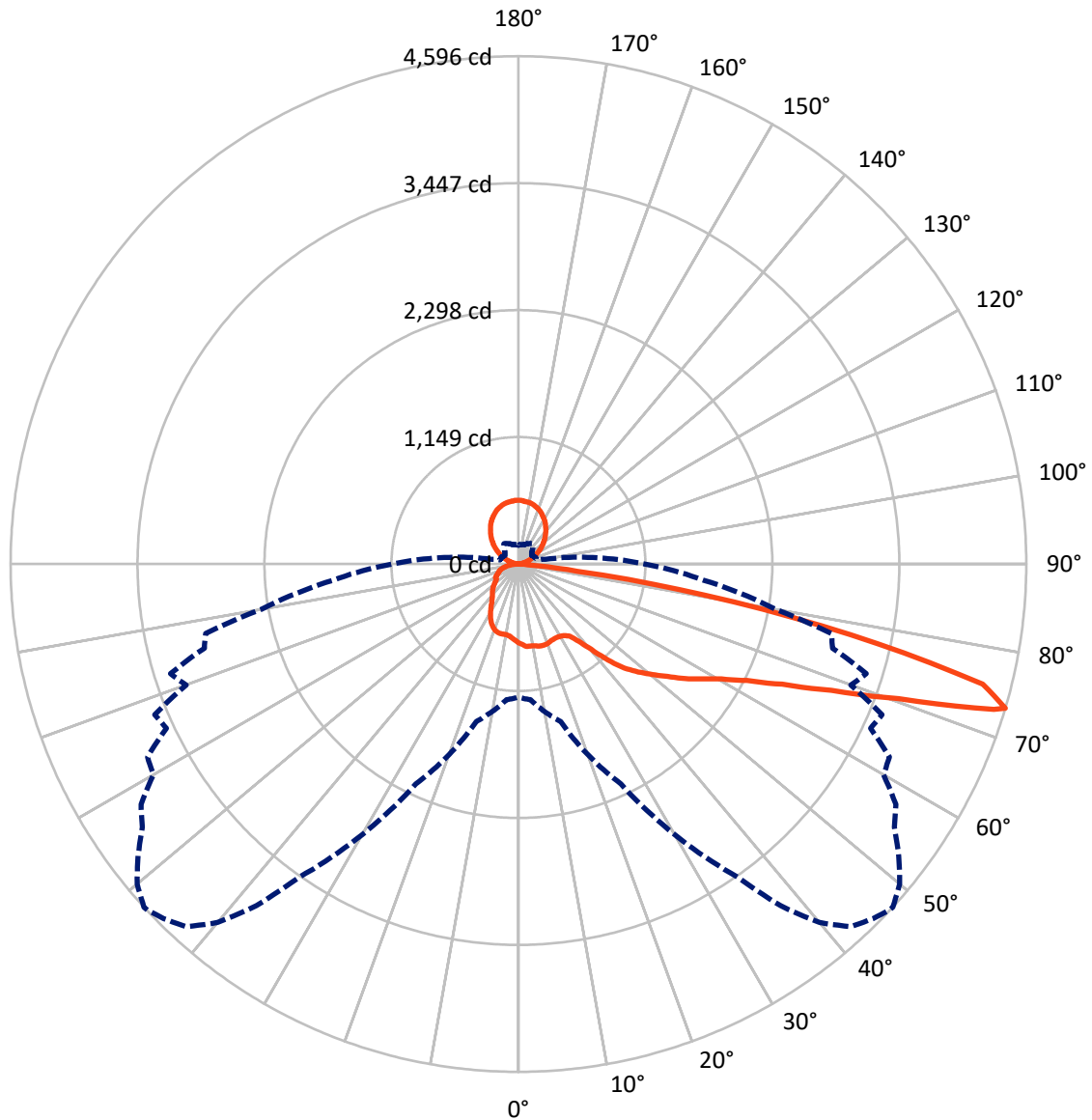
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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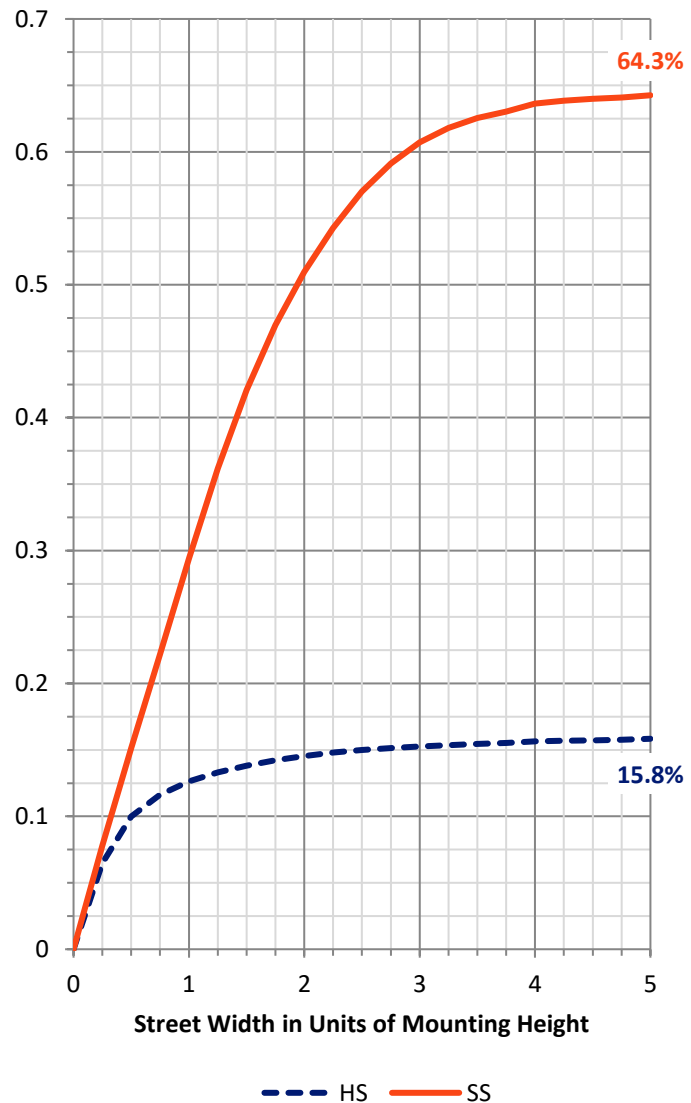
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1163.8	713.1	1876.9
	% Fixture	16.0	9.8	25.9
Street Side	Lumens	4661.2	713.1	5374.3
	% Fixture	64.3	9.8	74.1
Total	Lumens	5825.0	1426.2	7251.2
	% Fixture	80.3	19.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	0.9
10°-20°	202.7	2.8
20°-30°	311.6	4.3
30°-40°	454.5	6.3
40°-50°	749.4	10.3
50°-60°	1173.3	16.2
60°-70°	1591.6	22.0
70°-80°	1178.6	16.3
80°-90°	95.2	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.1
120°-130°	223.9	3.1
130°-140°	265.6	3.7
140°-150°	269.3	3.7
150°-160°	231.1	3.2
160°-170°	155.1	2.1
170°-180°	54.3	0.7
0°-90°	5825.0	80.3
0°-180°	7251.2	100.0



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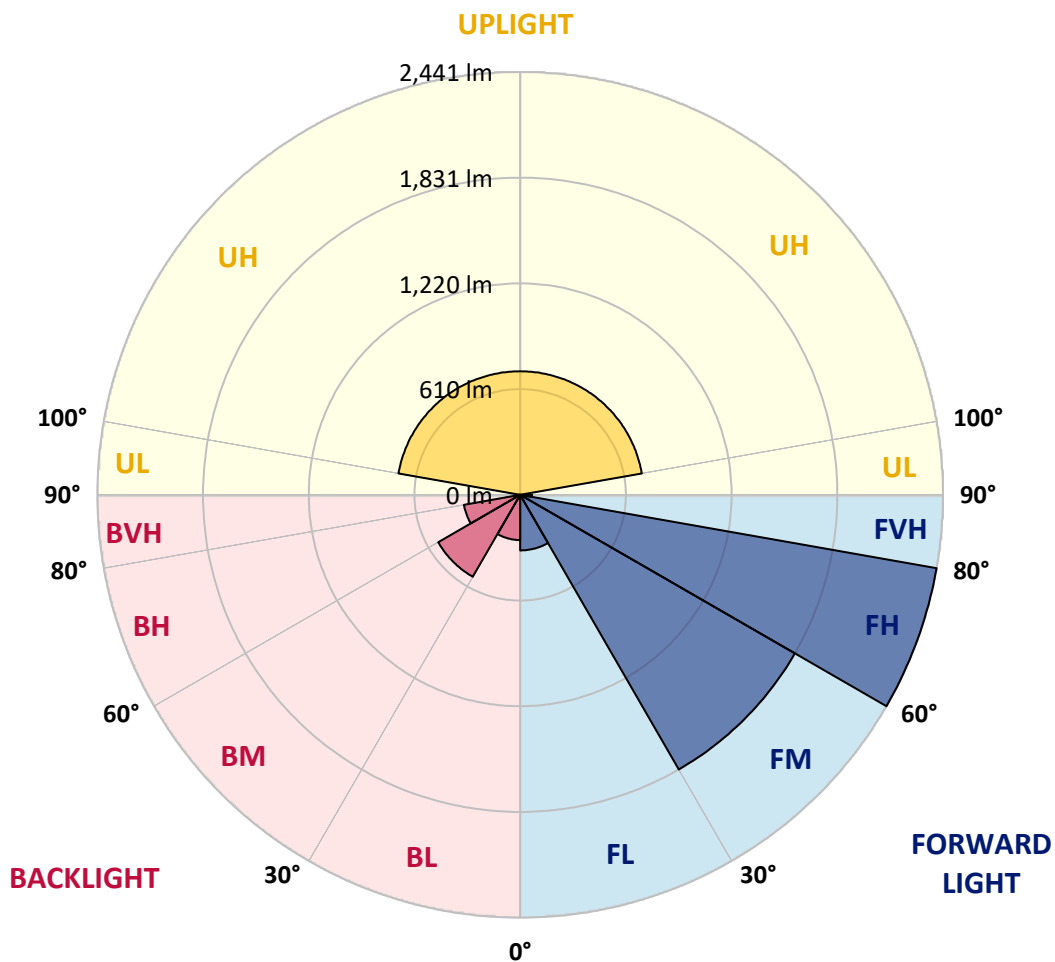
CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.1	4.4			
FM (30°-60°)	1830.7	25.2			
FH (60°-80°)	2440.7	33.7			G2/5000
FVH (80°-90°)	68.7	0.9			G1/100
BL (0°-30°)	261.2	3.6	B1/500		
BM (30°-60°)	546.5	7.5	B1/1000		
BH (60°-80°)	329.6	4.5	B1/500		G1/500
BVH (80°-90°)	26.5	0.4			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	9.8		U4/1000	

BUG Rating: B1-U5-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3
2.5°	757.6	755.7	749.9	748.0	742.2	738.4	736.5	734.5	740.3	736.5	730.7
5°	805.7	801.8	794.1	782.6	771.1	763.4	761.5	757.6	757.6	753.8	749.9
7.5°	840.3	838.4	826.8	809.5	790.3	776.8	769.2	763.4	765.3	761.5	749.9
10°	873.0	869.1	849.9	828.8	799.9	784.5	774.9	765.3	773.0	767.2	751.8
12.5°	898.0	894.1	867.2	840.3	807.6	790.3	780.7	774.9	782.6	778.8	761.5
15°	911.4	907.6	880.7	848.0	813.4	794.1	790.3	786.5	792.2	784.5	769.2
17.5°	903.8	903.8	878.8	844.1	815.3	796.1	790.3	786.5	794.1	786.5	769.2
20°	874.9	878.8	861.4	824.9	803.8	790.3	784.5	776.8	784.5	776.8	765.3
22.5°	838.4	842.2	832.6	799.9	784.5	774.9	773.0	765.3	771.1	765.3	753.8
25°	805.7	805.7	801.8	773.0	771.1	763.4	765.3	761.5	765.3	757.6	749.9
27.5°	807.6	807.6	792.2	763.4	761.5	761.5	761.5	761.5	763.4	757.6	749.9
30°	921.1	924.9	880.7	799.9	771.1	767.2	769.2	767.2	769.2	767.2	757.6
32.5°	1092.2	1092.2	1049.9	924.9	823.0	798.0	788.4	786.5	780.7	778.8	771.1
35°	1261.4	1259.5	1217.2	1078.7	949.9	901.8	871.1	842.2	828.8	815.3	801.8
37.5°	1403.7	1397.9	1392.2	1234.5	1099.9	1044.1	1007.6	965.3	938.4	915.3	884.5
40°	1536.4	1546.0	1567.1	1378.7	1249.9	1198.0	1161.4	1107.6	1080.7	1051.8	1015.3
42.5°	1719.1	1732.5	1734.4	1534.5	1386.4	1351.8	1322.9	1282.6	1253.7	1219.1	1186.4
45°	1896.0	1897.9	1903.7	1701.7	1553.7	1509.5	1488.3	1449.9	1413.3	1369.1	1342.2
47.5°	2017.1	2011.3	2036.3	1894.0	1749.8	1699.8	1669.1	1611.4	1555.6	1499.8	1459.5
50°	2165.2	2159.4	2159.4	2113.2	1976.7	1919.0	1865.2	1757.5	1697.9	1628.7	1571.0
52.5°	2295.9	2274.8	2288.2	2315.1	2215.2	2142.1	2047.9	1926.7	1847.9	1763.3	1690.2
55°	2474.7	2365.1	2395.9	2490.1	2451.7	2338.2	2213.2	2084.4	1994.0	1897.9	1830.6
57.5°	2413.2	2338.2	2428.6	2594.0	2592.0	2486.3	2380.5	2222.8	2132.5	2042.1	1959.4
60°	2192.1	2230.5	2426.7	2665.1	2674.7	2592.0	2505.5	2359.4	2288.2	2194.0	2111.3
62.5°	2020.9	2076.7	2345.9	2659.3	2768.9	2692.0	2620.9	2534.4	2484.4	2405.5	2320.9
65°	2011.3	2044.0	2305.5	2653.6	2901.6	2861.2	2828.6	2788.2	2778.6	2720.9	2622.8
67.5°	2103.6	2134.4	2374.8	2801.6	3097.8	3080.5	3128.5	3120.8	3163.1	3134.3	3053.5
70°	1922.9	1940.2	2236.3	2853.6	3545.8	3622.7	3730.4	3724.6	3815.0	3745.8	3651.5
72.5°	1349.9	1384.5	1646.0	2357.4	3555.4	3966.9	4216.9	4428.4	4526.5	4543.8	4499.5
73°	1205.6	1232.6	1474.8	2195.9	3459.3	3897.7	4234.2	4451.5	4538.0	4591.8	4595.7
75°	419.2	432.6	644.2	1330.6	2765.1	3401.6	3834.2	4030.4	4009.2	4166.9	4339.9
77.5°	134.6	136.5	167.3	344.2	1334.5	2111.3	2594.0	2774.7	2670.9	2842.0	3072.8
80°	82.7	86.5	109.6	155.8	350.0	640.3	1084.5	1357.6	1301.8	1461.4	1707.5
82.5°	50.0	51.9	67.3	96.1	140.4	155.8	203.8	276.9	340.3	409.6	536.5
85°	23.1	25.0	32.7	44.2	57.7	59.6	57.7	53.8	61.5	71.1	82.7
87.5°	0.0	0.0	1.9	3.8	1.9	0.0	0.0	0.0	0.0	1.9	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	9.8	10.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.4	30.5
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.2
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.2
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.4	91.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.4	112.5
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.4	134.5
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.4	156.5
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.2
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.4	202.5
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.2
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.2
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.4	276.5
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.4	299.5
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.6	322.8
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.6	345.8
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.4	367.5
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.2
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.4	410.5
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.4	432.5
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.2
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.2
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.2
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.2
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.2
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.2
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.8
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.2
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.2
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3
2.5°	736.5	730.7	730.7	723.0	726.8	719.2	723.0	715.3	719.2	709.5	715.3
5°	748.0	738.4	738.4	726.8	728.8	715.3	721.1	705.7	713.4	696.1	707.6
7.5°	753.8	736.5	744.2	723.0	732.6	709.5	721.1	696.1	711.5	684.5	703.8
10°	761.5	736.5	749.9	726.8	738.4	711.5	726.8	696.1	715.3	682.6	699.9
12.5°	773.0	746.1	757.6	730.7	746.1	715.3	730.7	699.9	719.2	682.6	703.8
15°	780.7	753.8	765.3	738.4	749.9	715.3	734.5	698.0	719.2	680.7	703.8
17.5°	778.8	753.8	765.3	734.5	748.0	713.4	732.6	696.1	715.3	674.9	699.9
20°	771.1	749.9	757.6	730.7	742.2	707.6	724.9	688.4	709.5	669.2	694.2
22.5°	761.5	740.3	749.9	724.9	736.5	701.9	717.2	684.5	705.7	665.3	688.4
25°	755.7	738.4	744.2	719.2	734.5	703.8	719.2	682.6	705.7	665.3	692.2
27.5°	753.8	738.4	749.9	726.8	740.3	713.4	728.8	696.1	715.3	673.0	699.9
30°	765.3	751.8	761.5	742.2	753.8	726.8	742.2	711.5	730.7	690.3	721.1
32.5°	778.8	765.3	774.9	757.6	774.9	748.0	767.2	736.5	759.5	719.2	748.0
35°	807.6	792.2	805.7	786.5	805.7	784.5	805.7	773.0	801.8	761.5	792.2
37.5°	882.6	840.3	853.8	832.6	851.8	824.9	861.4	828.8	861.4	823.0	865.3
40°	1001.8	926.8	940.3	896.1	924.9	884.5	928.8	903.8	948.0	899.9	953.7
42.5°	1157.6	1086.4	1073.0	1005.7	1030.7	982.6	1026.8	982.6	1042.2	996.1	1063.4
45°	1299.9	1224.9	1203.7	1138.3	1155.7	1092.2	1148.0	1086.4	1165.3	1111.4	1196.0
47.5°	1417.2	1328.7	1311.4	1236.4	1267.2	1207.6	1276.8	1211.4	1307.6	1253.7	1351.8
50°	1524.8	1415.2	1411.4	1330.6	1382.6	1322.9	1421.0	1376.8	1471.0	1417.2	1532.5
52.5°	1647.9	1509.5	1528.7	1455.6	1538.3	1488.3	1601.8	1538.3	1661.4	1603.7	1730.6
55°	1778.7	1632.5	1682.5	1638.3	1736.4	1703.7	1799.8	1742.1	1863.3	1805.6	1940.2
57.5°	1922.9	1797.9	1886.3	1865.2	1951.7	1911.3	2019.0	1967.1	2088.2	2040.2	2174.8
60°	2111.3	2028.6	2115.2	2113.2	2188.2	2186.3	2255.5	2224.8	2340.1	2319.0	2442.1
62.5°	2355.5	2290.1	2382.4	2357.4	2447.8	2432.4	2517.0	2517.0	2599.7	2628.6	2751.6
65°	2684.3	2597.8	2707.4	2669.0	2759.3	2763.2	2817.0	2826.6	2926.6	2959.3	3065.1
67.5°	3130.4	3030.5	3117.0	3043.9	3147.8	3142.0	3188.1	3207.4	3220.8	3299.7	3311.2
70°	3772.7	3622.7	3701.5	3601.6	3620.8	3634.2	3547.7	3611.2	3457.3	3582.3	3413.1
72.5°	4466.8	4295.7	4159.2	4059.2	3861.1	3832.3	3580.4	3634.2	3307.4	3415.0	3072.8
73°	4503.4	4338.0	4153.4	4049.6	3815.0	3784.2	3515.0	3561.2	3199.7	3301.6	2942.0
75°	4093.8	4138.0	3693.9	3736.2	3328.5	3376.6	2955.5	3009.3	2565.1	2642.0	2178.6
77.5°	2759.3	2907.4	2409.4	2595.9	2090.2	2276.7	1705.6	1722.9	1257.6	1174.9	798.0
80°	1367.2	1494.1	1059.5	1157.6	776.8	763.4	465.3	386.5	328.8	336.5	346.1
82.5°	394.2	444.2	275.0	273.0	194.2	184.6	184.6	196.1	200.0	223.1	217.3
85°	75.0	90.4	78.8	105.8	94.2	103.8	96.1	111.5	103.8	128.8	111.5
87.5°	1.9	0.0	1.9	5.8	5.8	13.5	9.6	15.4	15.4	26.9	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CATALOG NUMBER: ISC-AF-1200-LED-E1-T4W-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3
2.5°	707.6	717.2	713.4	709.5	705.7	703.8	696.1	699.9	690.3	698.0	690.3
5°	692.2	703.8	698.0	690.3	686.5	682.6	669.2	678.8	663.4	676.9	665.3
7.5°	674.9	694.2	688.4	680.7	673.0	669.2	642.2	663.4	640.3	659.5	640.3
10°	669.2	690.3	682.6	673.0	665.3	661.5	628.8	653.8	628.8	649.9	624.9
12.5°	665.3	690.3	678.8	669.2	661.5	655.7	619.2	649.9	617.2	648.0	619.2
15°	661.5	690.3	674.9	663.4	655.7	649.9	611.5	646.1	609.6	644.2	611.5
17.5°	657.6	684.5	671.1	657.6	649.9	646.1	603.8	640.3	601.9	640.3	607.6
20°	651.9	678.8	663.4	649.9	642.2	636.5	594.2	632.6	592.2	630.7	594.2
22.5°	644.2	673.0	659.5	646.1	638.4	628.8	582.6	623.0	580.7	619.2	584.6
25°	646.1	676.9	659.5	646.1	634.6	624.9	574.9	619.2	571.1	609.6	571.1
27.5°	655.7	682.6	665.3	653.8	638.4	626.9	574.9	615.3	567.2	599.9	559.6
30°	674.9	701.9	686.5	669.2	655.7	640.3	584.6	617.2	567.2	588.4	548.0
32.5°	707.6	732.6	717.2	703.8	688.4	665.3	603.8	626.9	571.1	580.7	538.4
35°	749.9	780.7	773.0	763.4	744.2	703.8	636.5	640.3	578.8	573.0	524.9
37.5°	819.1	861.4	859.5	857.6	836.5	763.4	673.0	667.2	586.5	567.2	507.6
40°	909.5	959.5	973.0	986.4	942.2	834.5	715.3	694.2	590.3	555.7	480.7
42.5°	1015.3	1082.6	1123.0	1148.0	1067.2	913.4	763.4	724.9	590.3	538.4	450.0
45°	1146.0	1224.9	1301.8	1328.7	1205.6	998.0	813.4	749.9	582.6	511.5	409.6
47.5°	1305.6	1397.9	1503.7	1517.2	1355.6	1088.3	848.0	767.2	557.6	475.0	373.0
50°	1482.5	1594.1	1749.8	1740.2	1515.2	1182.6	871.1	778.8	513.4	432.6	328.8
52.5°	1680.6	1821.0	2042.1	1997.9	1709.4	1299.9	892.2	794.1	459.6	382.7	284.6
55°	1928.6	2095.9	2372.8	2278.6	1924.8	1428.7	923.0	796.1	388.4	323.0	251.9
57.5°	2195.9	2374.8	2728.6	2557.4	2126.7	1528.7	909.5	734.5	317.3	273.0	226.9
60°	2517.0	2734.3	3084.3	2817.0	2295.9	1563.3	815.3	605.7	271.1	246.1	215.4
62.5°	2876.6	3092.0	3376.6	2997.8	2392.1	1505.6	605.7	419.2	232.7	219.2	198.1
65°	3259.3	3463.1	3516.9	3013.2	2328.6	1251.8	375.0	275.0	201.9	196.1	182.7
67.5°	3611.2	3630.4	3384.3	2763.2	2020.9	873.0	255.7	219.2	186.5	184.6	176.9
70°	3701.5	3368.9	2813.2	2151.7	1459.5	519.2	207.7	190.4	178.8	178.8	173.1
72.5°	3092.0	2565.1	1880.6	1303.7	796.1	276.9	176.9	173.1	169.2	169.2	165.4
73°	2899.7	2363.2	1684.4	1138.3	673.0	248.1	173.1	169.2	167.3	165.4	163.4
75°	1926.7	1484.5	955.7	576.9	313.4	178.8	153.8	153.8	151.9	153.8	151.9
77.5°	742.2	559.6	369.2	248.1	178.8	140.4	130.8	132.7	130.8	134.6	132.7
80°	326.9	323.0	244.2	175.0	130.8	105.8	105.8	105.8	107.7	109.6	109.6
82.5°	223.1	188.4	144.2	107.7	78.8	76.9	78.8	78.8	80.8	82.7	80.8
85°	123.1	103.8	76.9	48.1	42.3	51.9	51.9	51.9	50.0	50.0	48.1
87.5°	38.5	28.8	21.2	5.8	9.6	9.6	13.5	11.5	11.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												72.5°
												73°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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 NUMBER: ISC-AF-1200-LED-E1-T4W-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	715.3	110°	114.0
698.0	692.2	698.0	688.4	696.1	688.4	694.2	694.2	692.2	692.2	692.2	112.5°	136.0
674.9	665.3	674.9	669.2	674.9	667.2	673.0	674.9	676.9	682.6	680.7	115°	158.0
657.6	638.4	659.5	640.3	657.6	640.3	655.7	657.6	663.4	671.1	676.9	117.5°	181.0
649.9	624.9	649.9	626.9	648.0	628.8	648.0	649.9	655.7	665.3	674.9	120°	204.0
646.1	619.2	646.1	623.0	646.1	626.9	646.1	651.9	655.7	663.4	674.9	122.5°	228.0
642.2	615.3	646.1	621.1	646.1	626.9	648.0	651.9	657.6	665.3	674.9	125°	254.0
640.3	609.6	642.2	619.2	642.2	623.0	646.1	646.1	653.8	663.4	669.2	127.5°	277.0
632.6	603.8	632.6	609.6	632.6	615.3	634.6	634.6	642.2	646.1	655.7	130°	301.0
621.1	590.3	617.2	596.1	617.2	599.9	615.3	615.3	621.1	626.9	632.6	132.5°	325.0
603.8	574.9	598.0	578.8	594.2	578.8	590.3	588.4	592.2	596.1	599.9	135°	348.0
584.6	555.7	574.9	553.8	563.4	548.0	555.7	551.9	553.8	555.7	557.6	137.5°	369.0
563.4	534.6	544.2	524.9	526.9	511.5	515.3	509.6	507.6	505.7	501.9	140°	390.0
540.3	509.6	509.6	490.3	486.5	473.0	473.0	465.3	459.6	451.9	444.2	142.5°	412.0
511.5	484.6	471.1	455.7	448.0	434.6	432.6	423.0	409.6	396.1	388.4	145°	433.0
482.6	451.9	432.6	417.3	409.6	400.0	398.0	390.3	375.0	359.6	348.0	147.5°	452.0
444.2	413.4	392.3	386.5	380.7	373.0	375.0	365.3	350.0	332.7	323.0	150°	469.0
405.7	378.8	361.5	359.6	355.7	353.8	355.7	348.0	330.7	315.4	303.8	152.5°	486.0
373.0	346.1	328.8	326.9	325.0	332.7	334.6	332.7	313.4	298.0	282.7	155°	503.0
340.3	307.7	296.1	292.3	294.2	305.7	309.6	315.4	298.0	280.7	259.6	157.5°	517.0
301.9	271.1	267.3	263.4	265.4	275.0	284.6	296.1	280.7	255.7	226.9	160°	530.0
267.3	240.4	242.3	238.4	242.3	250.0	257.7	276.9	257.7	232.7	219.2	162.5°	540.0
240.4	219.2	223.1	219.2	223.1	232.7	238.4	253.8	253.8	248.1	236.5	165°	550.0
221.1	205.7	209.6	205.7	211.5	219.2	225.0	257.7	276.9	261.5	238.4	167.5°	558.0
209.6	196.1	198.1	194.2	198.1	209.6	221.1	259.6	290.4	259.6	242.3	170°	564.0
192.3	180.8	178.8	178.8	182.7	201.9	207.7	242.3	286.5	257.7	244.2	172.5°	567.0
180.8	171.1	169.2	167.3	171.1	184.6	190.4	225.0	276.9	244.2	221.1	175°	570.0
175.0	167.3	163.4	159.6	163.4	175.0	180.8	211.5	261.5	232.7	207.7	177.5°	574.0
169.2	161.5	159.6	155.8	157.7	165.4	173.1	194.2	248.1	219.2	194.2	180°	576.0
161.5	153.8	151.9	146.1	148.1	155.8	159.6	182.7	230.7	205.7	180.8		
159.6	151.9	150.0	144.2	146.1	151.9	155.8	178.8	226.9	203.8	178.8		
150.0	142.3	140.4	136.5	138.4	138.4	142.3	163.4	215.4	192.3	167.3		
132.7	126.9	125.0	121.1	119.2	117.3	123.1	144.2	196.1	173.1	134.6		
109.6	103.8	101.9	94.2	94.2	94.2	101.9	123.1	146.1	125.0	103.8		
80.8	76.9	76.9	71.1	69.2	67.3	73.1	84.6	115.4	98.1	80.8		
48.1	46.1	48.1	42.3	44.2	42.3	48.1	59.6	63.5	50.0	38.5		
11.5	13.5	13.5	13.5	11.5	11.5	9.6	7.7	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'228009
 ISC-AF-1200-LED-E1-T4W-7030-ULG

REPORT NUMBER: P228009
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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	715.3	715.3
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	690.3	688.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	680.7	680.7
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	676.9	676.9
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	678.8	678.8
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	678.8	682.6
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	684.5	682.6
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	678.8	678.8
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	663.4	667.2
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	642.2	642.2
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	607.6	609.6
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	561.5	565.3
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	503.8	507.6
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	438.4	442.3
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	386.5	388.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	351.9	351.9
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	323.0	323.0
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	296.1	294.2
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	269.2	265.4
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	242.3	240.4
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	219.2	219.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	223.1	223.1
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	240.4	240.4
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	242.3	240.4
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	263.4	261.5
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	275.0	280.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	240.4	232.7
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	228.8	217.3
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	205.7	188.4
										72.5°	182.7	173.1
										73°	176.9	169.2
										75°	157.7	153.8
										77.5°	119.2	117.3
										80°	100.0	98.1
										82.5°	67.3	63.5
										85°	28.8	26.9
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

