

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: P226419

Luminaire Tested: **ISW-AF-1200-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-1200-LED-E1-T3-7030
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6112.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U1 - G2

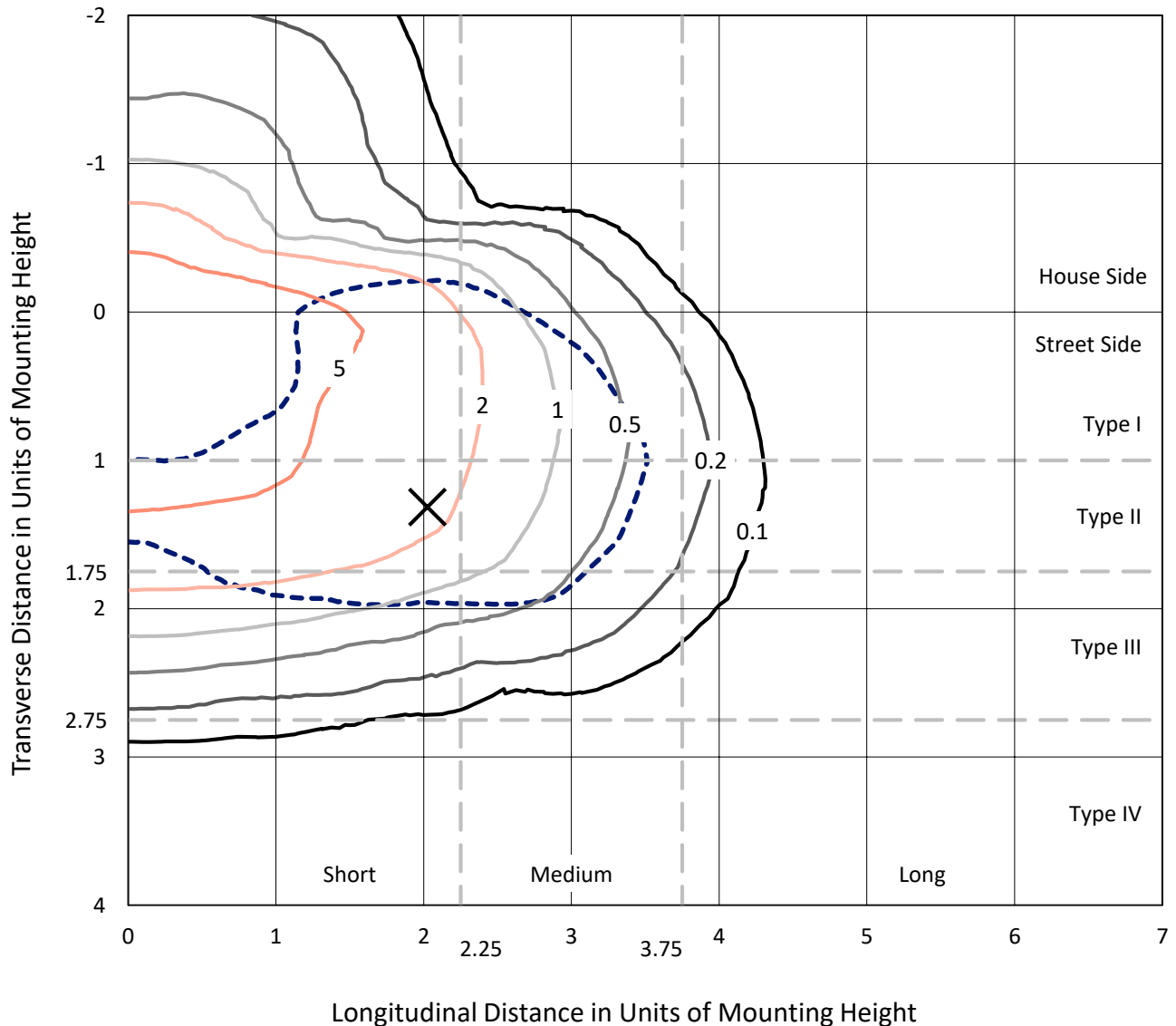
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

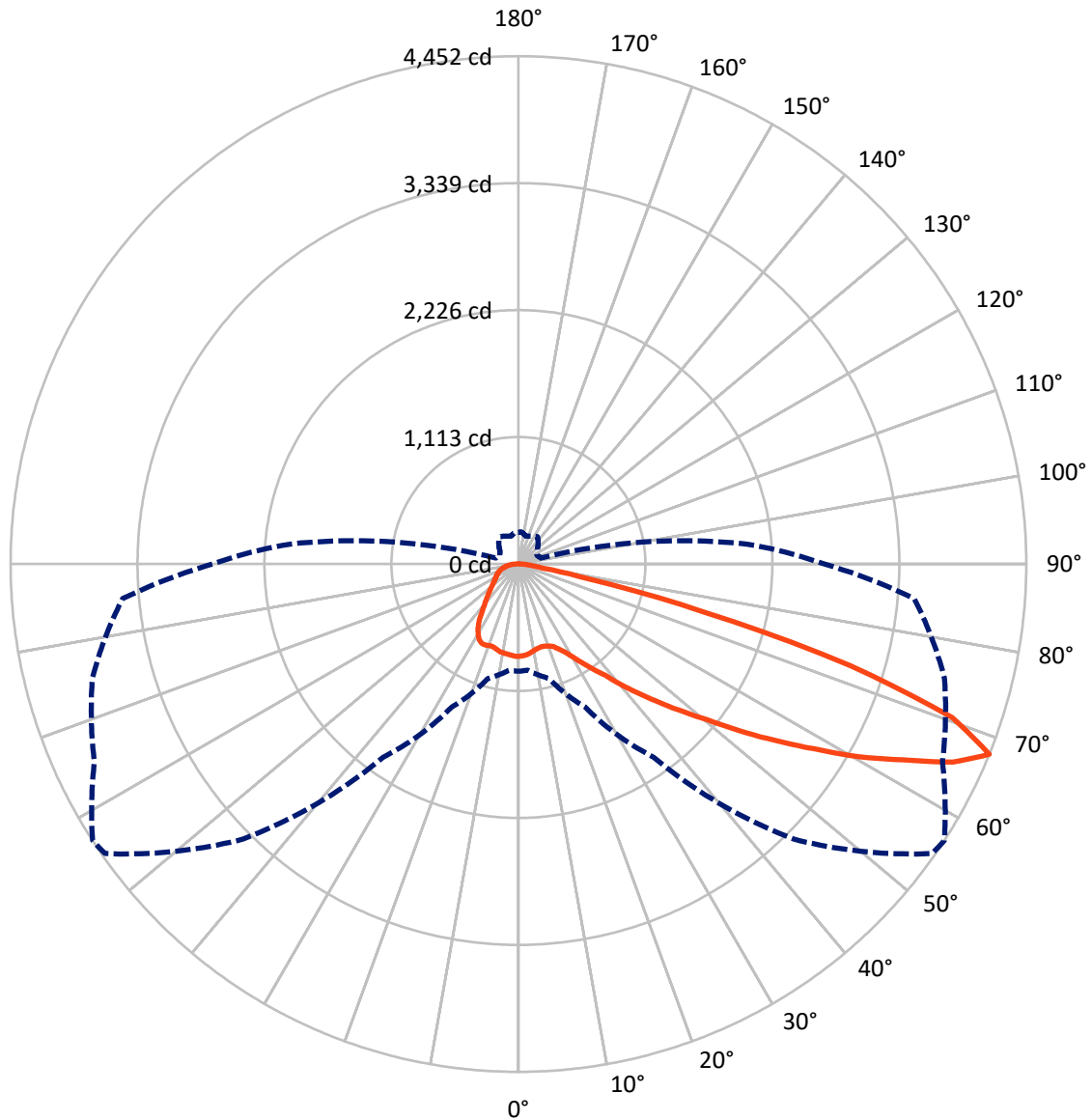
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1422.4	1.8	1424.2
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4687.6	0.5	4688.1
	% Fixture	76.7	0.0	76.7
Total	Lumens	6110.0	2.3	6112.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	1.2
10°-20°	217.7	3.6
20°-30°	374.7	6.1
30°-40°	609.2	10.0
40°-50°	982.7	16.1
50°-60°	1465.1	24.0
60°-70°	1650.1	27.0
70°-80°	636.1	10.4
80°-90°	98.6	1.6
90°-100°	2.3	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°	6110.0	100.0
0°-180°	6112.3	100.0



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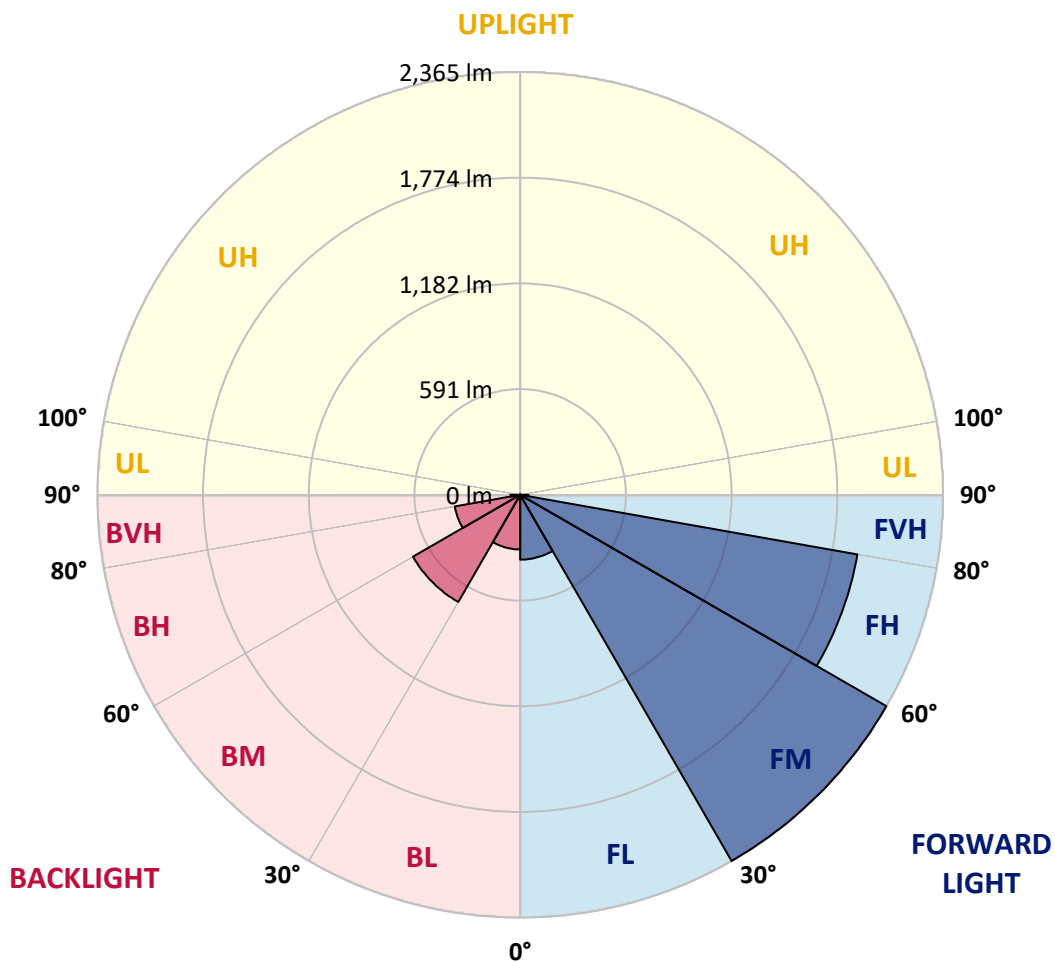
CATALOG NUMBER: ISW-AF-1200-LED-E1-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.6	5.9			
FM	(30°-60°)	2364.7	38.7			
FH	(60°-80°)	1915.0	31.3			G2/5000
FVH	(80°-90°)	45.3	0.7			G1/100
BL	(0°-30°)	305.6	5.0	B1/500		
BM	(30°-60°)	692.3	11.3	B1/1000		
BH	(60°-80°)	371.2	6.1	B1/500		G1/500
BVH	(80°-90°)	53.3	0.9			G1/100
UL	(90°-100°)	2.3	0.0		U1/10	
UH	(100°-180°)	1.8	0.0		U1/10	

BUG Rating: B1-U1-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0
2.5°	803.8	805.6	807.3	806.5	806.5	806.5	806.5	804.7	807.3	807.3	805.6
5°	790.5	791.4	792.3	794.1	795.8	797.6	798.5	798.5	799.4	798.5	796.7
7.5°	771.0	771.9	775.5	775.5	777.2	780.8	782.6	784.3	787.0	787.0	786.1
10°	764.8	764.8	764.8	762.2	764.0	764.8	767.5	767.5	774.6	778.1	779.9
12.5°	771.9	771.0	771.0	764.0	757.8	755.1	757.8	758.7	766.6	771.9	775.5
15°	787.9	787.9	786.1	775.5	763.1	753.3	752.5	752.5	758.7	766.6	772.8
17.5°	825.0	828.6	816.2	799.4	779.0	763.1	756.9	756.0	760.4	766.6	772.8
20°	895.9	895.0	876.4	846.3	810.9	784.3	769.3	767.5	766.6	770.2	777.2
22.5°	980.0	976.4	954.3	916.2	867.5	818.8	789.6	786.1	779.0	781.7	791.4
25°	1070.3	1071.1	1043.7	994.1	933.0	874.6	830.4	826.8	811.8	810.0	820.6
27.5°	1160.6	1172.1	1134.9	1088.0	1015.4	945.4	880.8	875.5	862.2	857.8	868.4
30°	1292.5	1288.0	1242.0	1180.9	1108.3	1020.7	958.7	949.0	922.4	928.6	940.1
32.5°	1404.0	1413.7	1372.1	1299.5	1203.9	1111.9	1040.2	1034.8	1009.2	1016.3	1032.2
35°	1540.3	1563.3	1508.5	1419.0	1327.0	1232.3	1146.4	1132.2	1111.9	1126.0	1138.4
37.5°	1696.1	1707.6	1665.1	1550.1	1456.2	1357.1	1259.7	1237.6	1215.4	1244.6	1266.8
40°	1844.8	1863.4	1808.5	1711.2	1602.3	1507.6	1401.3	1396.9	1345.6	1377.4	1435.0
42.5°	2065.3	2088.3	2000.6	1887.3	1789.1	1674.9	1574.0	1550.1	1494.3	1539.4	1635.9
45°	2219.3	2218.4	2159.1	2065.3	2005.1	1894.4	1758.1	1729.8	1669.6	1729.8	1859.0
47.5°	2275.1	2288.3	2268.0	2256.5	2235.2	2154.7	1953.7	1927.2	1870.5	1959.9	2079.4
50°	2357.4	2353.9	2353.9	2424.7	2485.8	2468.9	2183.0	2144.9	2085.6	2192.7	2364.5
52.5°	2378.6	2346.8	2396.3	2531.8	2725.7	2739.8	2449.5	2428.2	2357.4	2461.9	2673.4
55°	2319.3	2311.4	2390.2	2586.7	2892.1	2993.0	2758.4	2729.2	2649.5	2738.9	3007.2
57.5°	2186.5	2206.9	2333.5	2575.2	3007.2	3216.1	3097.5	3055.9	2941.7	2995.7	3338.2
60°	2047.6	2057.3	2224.6	2534.4	3038.1	3371.0	3453.3	3429.4	3233.8	3265.7	3583.5
62.5°	1893.5	1870.5	2044.0	2500.8	3003.6	3584.3	3798.6	3780.0	3548.9	3539.2	3757.8
65°	1463.3	1495.2	1643.0	2067.0	2767.3	3750.8	4210.2	4186.3	3900.4	3764.9	3739.3
67.5°	940.1	933.9	1038.4	1381.9	2067.9	3409.1	4425.3	4451.9	4101.3	3866.7	3482.5
70°	337.3	347.0	386.0	627.6	1134.0	2271.5	3901.3	4033.2	3953.5	3676.4	2834.5
72.5°	205.4	205.4	233.7	282.4	459.4	1077.3	2780.5	3041.7	3226.7	3029.3	2093.6
75°	161.1	160.2	170.0	194.8	247.9	353.2	1478.4	1680.2	2069.7	2092.7	1191.5
77.5°	127.5	126.6	136.3	147.8	185.0	186.8	471.8	614.4	949.9	894.1	425.8
80°	102.7	101.8	108.9	112.4	135.4	129.2	189.4	219.5	332.9	292.1	184.1
82.5°	93.0	93.0	100.0	85.9	93.8	91.2	117.7	125.7	167.3	173.5	110.7
85°	60.2	62.0	93.8	83.2	61.1	55.8	75.2	79.7	104.5	114.2	54.0
87.5°	28.3	31.0	71.7	69.0	40.7	30.1	42.5	45.1	56.7	69.9	31.9
90°	5.3	5.3	8.9	9.7	5.3	5.3	7.1	6.2	6.2	8.9	8.9
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0	810.0
2.5°	808.2	806.5	807.3	808.2	809.1	811.8	812.7	812.7	812.7	811.8	813.5
5°	798.5	796.7	796.7	799.4	802.0	805.6	810.9	815.3	817.1	818.0	818.0
7.5°	787.9	786.1	787.0	791.4	795.8	798.5	803.8	806.5	813.5	813.5	815.3
10°	780.8	782.6	783.4	787.9	791.4	791.4	790.5	788.7	787.0	791.4	789.6
12.5°	776.4	779.0	778.1	783.4	785.2	778.1	767.5	753.3	751.6	753.3	755.1
15°	774.6	774.6	777.2	777.2	768.4	754.2	740.9	741.8	743.6	748.9	748.9
17.5°	774.6	775.5	777.2	771.0	755.1	742.7	740.1	737.4	727.7	725.0	722.4
20°	780.8	779.0	780.8	769.3	755.1	745.4	725.0	705.5	686.9	679.0	675.4
22.5°	795.8	793.2	792.3	780.8	763.1	730.3	690.5	660.4	628.5	617.9	614.4
25°	822.4	821.5	815.3	807.3	757.8	694.0	643.6	595.8	561.2	542.7	543.5
27.5°	869.3	869.3	865.8	830.4	730.3	648.9	580.7	532.0	496.6	478.9	476.3
30°	940.1	941.9	943.7	836.6	686.9	582.5	511.7	478.9	457.7	444.4	443.5
32.5°	1027.8	1037.5	1026.0	829.5	627.6	501.9	457.7	446.2	435.5	426.7	425.8
35°	1143.7	1170.3	1097.7	801.1	561.2	447.0	424.9	416.9	409.0	402.8	403.7
37.5°	1299.5	1325.2	1143.7	753.3	476.3	416.1	406.3	393.9	381.5	368.3	366.5
40°	1483.7	1475.7	1159.7	663.0	423.1	401.0	387.7	371.8	350.6	331.1	327.5
42.5°	1667.8	1614.7	1146.4	551.5	388.6	387.7	369.1	348.8	327.5	310.7	310.7
45°	1874.1	1736.8	1105.7	447.0	361.2	373.6	350.6	329.3	309.8	297.4	296.6
47.5°	2068.8	1851.0	1038.4	372.7	333.7	355.0	336.4	316.9	298.3	287.7	285.0
50°	2297.2	1981.2	987.0	322.2	307.2	336.4	328.4	310.7	293.0	280.6	278.9
52.5°	2528.2	2107.8	948.1	287.7	283.3	322.2	324.9	314.3	295.7	271.8	270.0
55°	2769.9	2266.2	870.2	260.3	262.0	311.6	329.3	321.3	308.1	269.1	267.3
57.5°	2972.6	2412.3	733.9	241.7	245.2	303.6	331.1	316.0	301.0	270.9	268.2
60°	3131.1	2512.3	538.2	226.6	230.2	294.8	323.1	297.4	278.0	270.9	266.5
62.5°	3179.8	2515.9	357.6	208.9	218.7	279.7	308.9	287.7	264.7	268.2	266.5
65°	3057.6	2383.1	255.8	192.1	208.9	262.0	302.8	278.0	258.5	272.7	270.9
67.5°	2681.4	2007.7	205.4	178.8	195.6	243.4	291.2	269.1	253.2	282.4	277.1
70°	2089.2	1440.3	174.4	165.5	181.5	225.7	275.3	259.4	246.1	274.4	267.3
72.5°	1377.4	848.1	154.0	153.1	164.7	210.7	257.6	250.5	234.6	248.8	238.1
75°	718.8	393.0	133.7	139.0	146.1	197.4	241.7	234.6	216.9	222.2	218.7
77.5°	282.4	184.1	116.0	122.2	130.1	177.9	221.3	214.2	199.2	194.8	193.9
80°	154.9	123.9	96.5	104.5	109.8	160.2	200.1	192.1	176.2	173.5	170.9
82.5°	98.3	80.6	79.7	85.0	92.1	142.5	179.7	167.3	154.0	181.5	147.0
85°	46.0	47.8	56.7	63.7	71.7	121.3	156.7	143.4	130.1	126.6	112.4
87.5°	25.7	31.9	37.2	43.4	49.6	85.0	123.9	111.5	97.4	83.2	85.9
90°	6.2	6.2	10.6	9.7	10.6	12.4	61.1	54.9	48.7	23.0	15.0
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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: ISW-AF-1200-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)