

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: P226511

Luminaire Tested: **ISW-AF-1200-LED-E1-T4FT-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)-DOWNLIGHT AND
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-T4FT-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW, WITH UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7432.8 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - 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

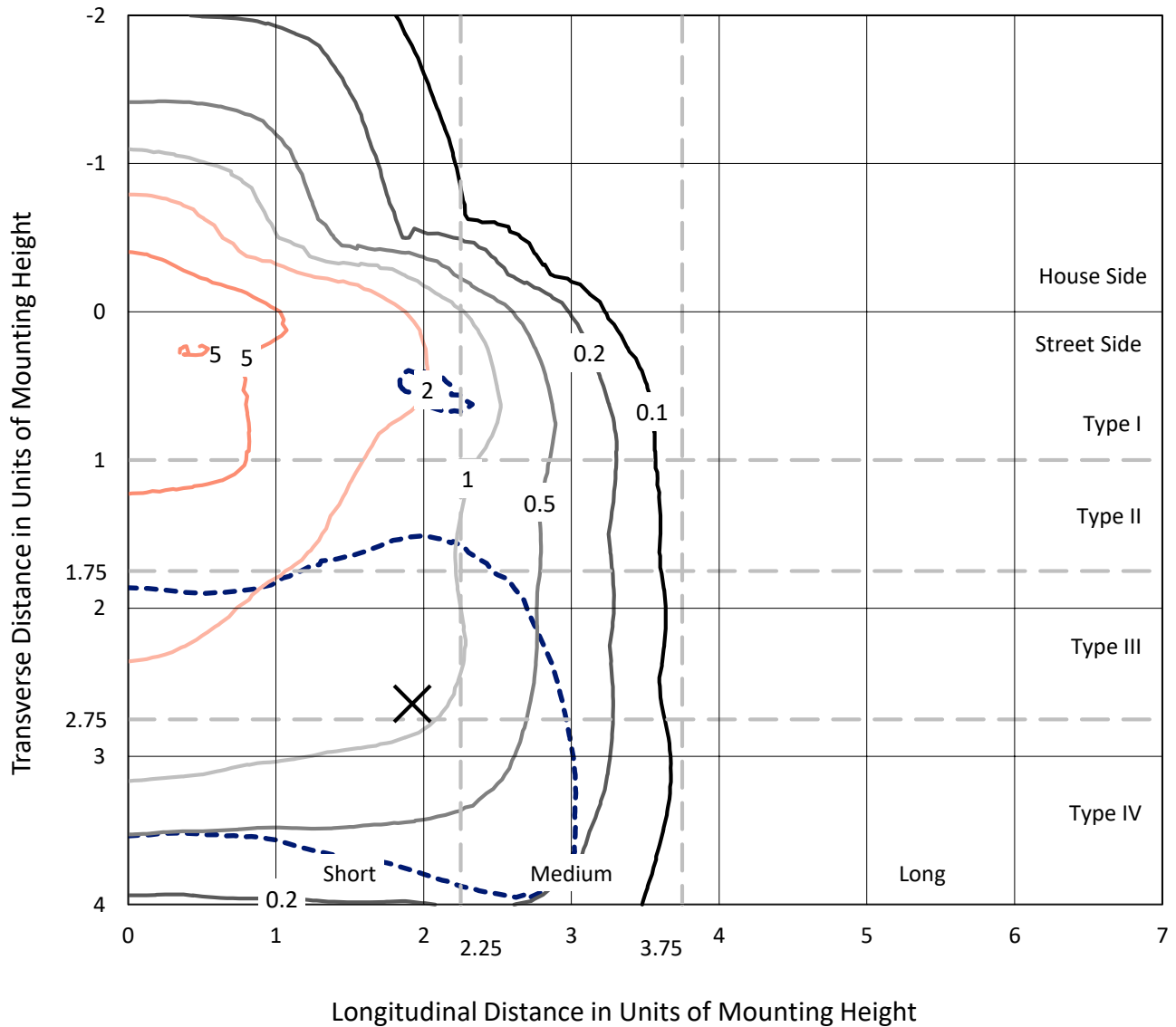


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

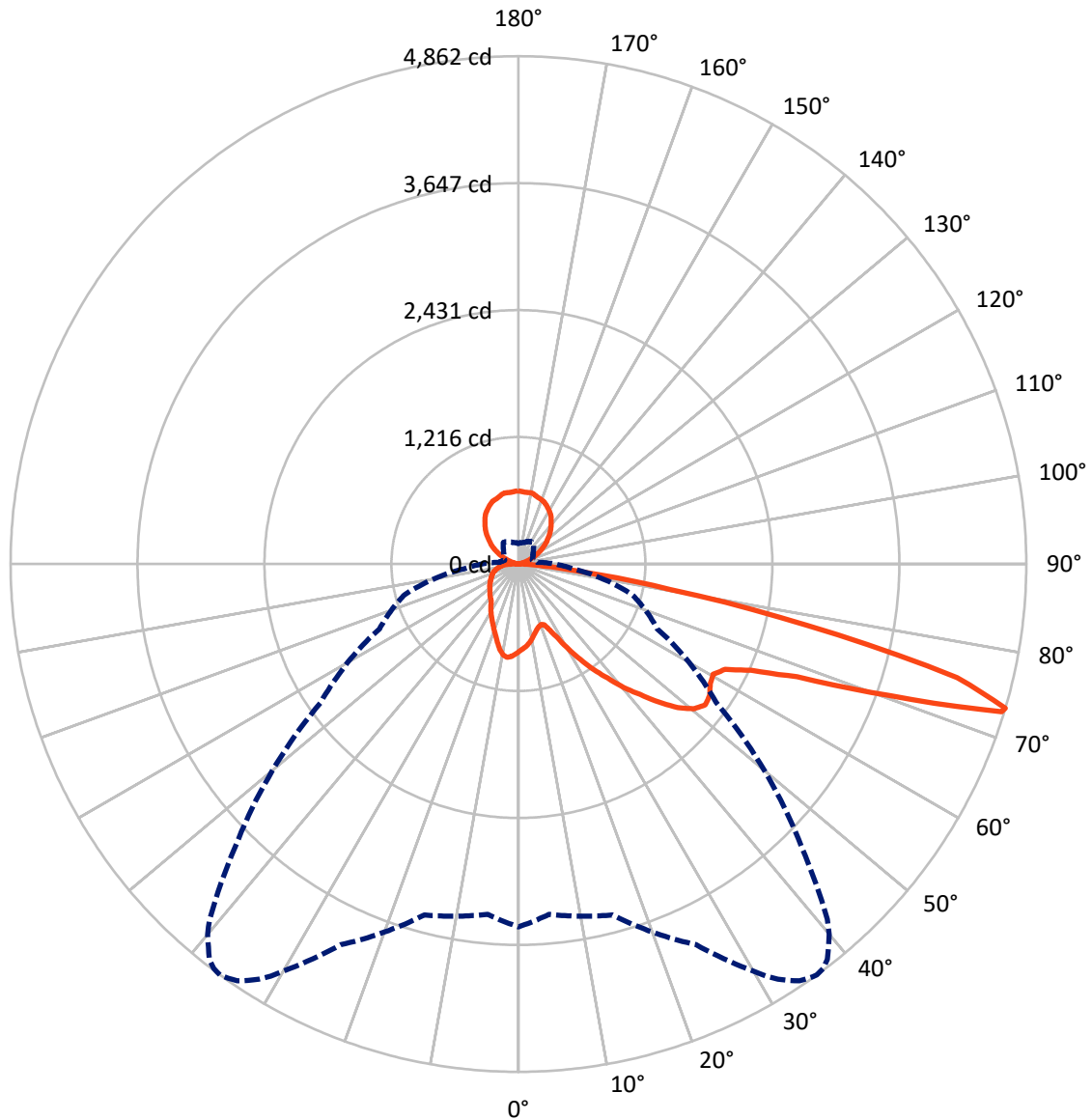


Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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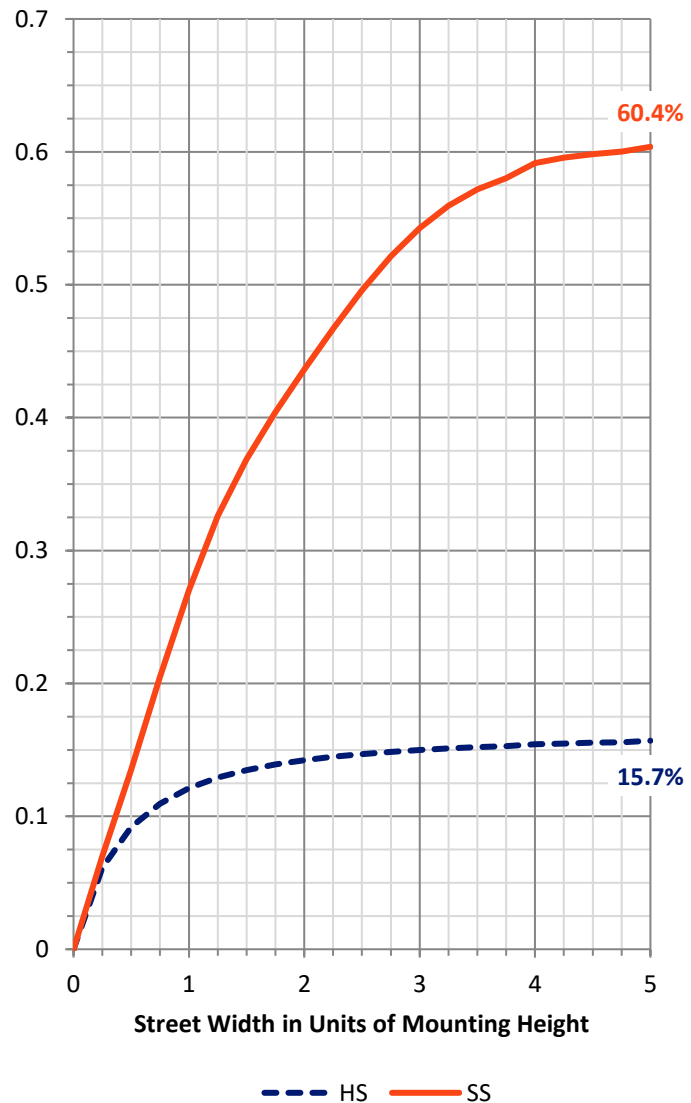
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1201.7	868.9	2070.5
	% Fixture	16.2	11.7	27.9
Street Side	Lumens	4494.2	868.0	5362.2
	% Fixture	60.5	11.7	72.1
Total	Lumens	5695.9	1736.9	7432.8
	% Fixture	76.6	23.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.1
10°-20°	208.7	2.8
20°-30°	342.0	4.6
30°-40°	566.7	7.6
40°-50°	832.7	11.2
50°-60°	1050.0	14.1
60°-70°	1375.0	18.5
70°-80°	1113.0	15.0
80°-90°	129.1	1.7
90°-100°	11.0	0.1
100°-110°	57.4	0.8
110°-120°	166.1	2.2
120°-130°	273.2	3.7
130°-140°	336.8	4.5
140°-150°	344.6	4.6
150°-160°	290.3	3.9
160°-170°	191.2	2.6
170°-180°	66.3	0.9
0°-90°	5695.9	76.6
0°-180°	7432.8	100.0



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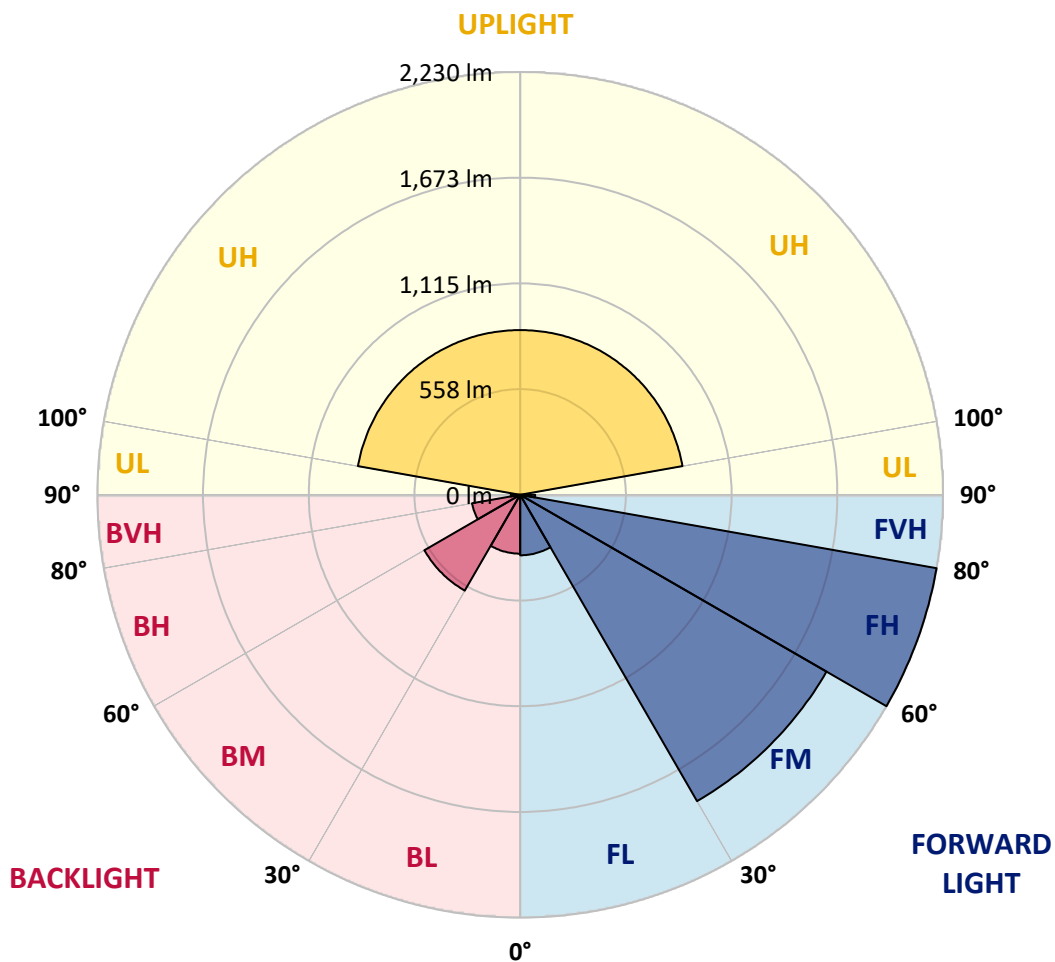
CATALOG NUMBER: ISW-AF-1200-LED-E1-T4FT-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.9	4.3			
FM	(30°-60°)	1865.6	25.1			
FH	(60°-80°)	2230.3	30.0			G2/5000
FVH	(80°-90°)	79.5	1.1			G1/100
BL	(0°-30°)	310.5	4.2	B1/500		
BM	(30°-60°)	583.8	7.9	B1/1000		
BH	(60°-80°)	257.7	3.5	B1/500		G1/500
BVH	(80°-90°)	49.6	0.7			G1/100
UL	(90°-100°)	11.0	0.1		U2/50	
UH	(100°-180°)	868.9	11.7		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	806.4	808.1	809.7	809.7	809.7	812.1	811.3	811.3	812.1	813.0	813.0
5°	776.2	777.0	781.9	783.6	788.5	787.6	787.6	787.6	790.9	788.5	790.1
7.5°	741.9	743.6	748.5	754.2	758.3	759.1	758.3	756.6	760.7	762.3	760.7
10°	701.1	701.9	708.5	713.4	719.9	719.1	721.5	721.5	723.2	722.4	725.6
12.5°	680.7	679.1	675.8	678.3	679.9	679.9	679.9	682.4	681.5	683.2	685.6
15°	678.3	674.2	657.9	652.2	650.5	650.5	649.7	648.9	651.3	653.8	653.8
17.5°	689.7	681.5	649.7	633.4	630.1	628.5	629.3	627.7	627.7	630.9	630.1
20°	745.2	730.5	666.8	630.9	621.1	621.1	620.3	617.9	617.9	618.7	618.7
22.5°	886.4	867.6	756.6	682.4	648.1	647.3	644.8	642.4	635.8	634.2	630.9
25°	1083.1	1061.1	870.9	790.9	742.8	741.1	728.9	727.2	711.7	712.6	701.9
27.5°	1235.8	1221.1	1023.5	917.4	871.7	861.9	856.2	841.5	828.5	817.8	804.8
30°	1288.0	1285.5	1177.8	1092.1	1023.5	1012.1	996.6	990.1	971.3	956.6	947.6
32.5°	1370.4	1372.9	1328.0	1233.3	1173.7	1162.3	1149.2	1133.7	1120.7	1110.9	1089.6
35°	1488.0	1488.8	1457.8	1386.8	1318.2	1302.7	1295.3	1277.4	1265.1	1252.9	1242.3
37.5°	1569.6	1573.7	1551.6	1496.9	1456.1	1434.1	1433.3	1420.2	1406.3	1395.7	1385.9
40°	1726.3	1704.3	1631.6	1596.5	1563.1	1560.6	1553.3	1545.9	1549.2	1543.5	1554.1
42.5°	1884.6	1856.9	1755.7	1705.9	1685.5	1689.6	1687.1	1687.9	1697.7	1695.3	1706.7
45°	2020.1	1988.3	1892.0	1833.2	1849.5	1854.4	1868.3	1876.5	1872.4	1887.1	1887.1
47.5°	2155.6	2081.4	1967.1	1994.0	2005.4	2043.0	2052.8	2050.3	2064.2	2070.7	2052.8
50°	2060.1	2040.5	2031.6	2114.0	2165.4	2177.7	2191.5	2198.9	2205.4	2196.4	2178.5
52.5°	1858.5	1856.9	1983.4	2185.0	2228.3	2244.6	2257.7	2263.4	2260.9	2256.0	2241.3
55°	1790.8	1777.7	1887.1	2111.6	2177.7	2193.2	2211.9	2223.4	2234.8	2233.2	2221.7
57.5°	1883.0	1872.4	1873.2	2047.1	2111.6	2125.4	2137.7	2150.7	2154.0	2164.6	2165.4
60°	2150.7	2136.9	2025.0	2044.6	2109.9	2125.4	2127.1	2134.4	2135.2	2140.9	2141.8
62.5°	2536.8	2511.5	2340.9	2194.0	2216.8	2224.2	2229.9	2228.3	2225.0	2220.9	2220.9
65°	2959.6	2935.9	2716.4	2545.0	2478.8	2496.8	2468.2	2462.5	2456.0	2456.0	2448.6
67.5°	3462.4	3417.5	3247.7	3055.1	2959.6	2968.6	2981.6	2931.8	2913.9	2915.5	2877.2
70°	3975.0	3927.6	3853.4	3850.9	3899.1	3877.8	3817.4	3897.4	3802.8	3779.9	3771.7
72.5°	3691.7	3635.4	3650.9	4112.1	4544.7	4614.9	4681.8	4743.8	4799.4	4832.8	4837.7
73°	3474.6	3367.7	3478.7	4020.7	4500.6	4604.3	4687.5	4753.6	4813.2	4843.4	4862.2
75°	1735.3	1741.0	2287.9	3317.1	3933.3	4022.3	4152.1	4224.7	4332.5	4388.0	4339.0
77.5°	402.4	417.1	693.0	1574.5	2358.0	2485.4	2589.0	2695.1	2820.0	2866.6	2825.7
80°	142.0	148.6	244.0	598.3	984.4	1054.6	1143.5	1260.2	1376.1	1404.7	1476.5
82.5°	75.1	82.4	129.0	259.6	420.4	459.5	482.4	530.5	571.4	595.8	608.9
85°	43.3	44.1	73.5	143.7	192.6	208.1	222.8	234.3	247.3	238.3	238.3
87.5°	17.1	18.8	37.5	67.7	93.0	103.7	103.7	103.7	102.8	90.6	82.4
90°	8.3	9.9	14.3	21.9	20.2	20.2	19.4	17.8	17.0	17.8	13.6
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	8.0	8.0	8.5	8.6	8.7	8.8	8.9	9.0	9.0
100°	8.0	8.0	9.0	10.0	11.0	11.2	11.4	11.6	11.8	12.0	12.9
102.5°	11.0	11.0	13.0	18.0	22.5	23.4	24.3	25.2	26.1	27.0	28.3
105°	21.0	22.0	27.0	36.0	42.0	43.2	44.4	45.6	46.8	48.0	49.5
107.5°	41.0	42.0	49.0	58.0	65.5	67.0	68.5	70.0	71.5	73.0	74.5



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CATALOG NUMBER: ISW-AF-1200-LED-E1-T4FT-8030-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
110°	66.0	68.0	74.0	87.0	94.5	96.0	97.5	99.0	100.5	102.0	103.2
112.5°	99.0	99.0	106.0	121.0	127.5	128.8	130.1	131.4	132.7	134.0	134.9
115°	140.0	139.0	147.0	159.0	163.5	164.4	165.3	166.2	167.1	168.0	168.6
117.5°	184.0	184.0	189.0	197.0	199.5	200.0	200.5	201.0	201.5	202.0	202.3
120°	225.0	223.0	226.0	233.0	235.0	235.4	235.8	236.2	236.6	237.0	237.6
122.5°	263.0	260.0	261.0	267.0	269.0	269.4	269.8	270.2	270.6	271.0	271.6
125°	298.0	294.0	296.0	299.0	302.0	302.6	303.2	303.8	304.4	305.0	305.5
127.5°	330.0	329.0	329.0	333.0	336.0	336.6	337.2	337.8	338.4	339.0	339.1
130°	363.0	361.0	362.0	366.0	368.0	368.4	368.8	369.2	369.6	370.0	370.2
132.5°	396.0	394.0	393.0	401.0	402.5	402.8	403.1	403.4	403.7	404.0	404.1
135°	429.0	426.0	426.0	432.0	433.5	433.8	434.1	434.4	434.7	435.0	435.2
137.5°	460.0	457.0	459.0	460.0	462.0	462.4	462.8	463.2	463.6	464.0	464.4
140°	488.0	485.0	487.0	489.0	490.0	490.2	490.4	490.6	490.8	491.0	491.6
142.5°	518.0	515.0	517.0	518.0	519.5	519.8	520.1	520.4	520.7	521.0	521.4
145°	550.0	546.0	544.0	547.0	548.5	548.8	549.1	549.4	549.7	550.0	550.1
147.5°	575.0	572.0	571.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.1
150°	595.0	592.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	608.0	608.0	609.0	609.5	609.6	609.7	609.8	609.8	609.9	610.0
155°	629.0	625.0	625.0	627.0	628.5	628.8	629.1	629.4	629.7	630.0	629.8
157.5°	646.0	643.0	643.0	644.0	645.0	645.2	645.4	645.6	645.8	646.0	645.9
160°	663.0	660.0	659.0	656.0	655.5	655.4	655.3	655.2	655.1	655.0	655.0
162.5°	673.0	669.0	669.0	665.0	663.0	662.6	662.2	661.8	661.4	661.0	661.2
165°	681.0	678.0	676.0	676.0	674.5	674.2	673.9	673.6	673.3	673.0	673.0
167.5°	690.0	687.0	684.0	686.0	687.0	687.2	687.4	687.6	687.8	688.0	687.7
170°	698.0	695.0	692.0	692.0	692.5	692.6	692.7	692.8	692.9	693.0	692.8
172.5°	699.0	697.0	695.0	693.0	691.5	691.2	690.9	690.6	690.3	690.0	690.0
175°	700.0	698.0	697.0	695.0	693.0	692.6	692.2	691.8	691.4	691.0	690.9
177.5°	707.0	705.0	700.0	699.0	698.0	697.8	697.6	697.4	697.2	697.0	696.8
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	814.6	815.4	813.8	817.0	814.6	814.6	818.7	826.0	831.7	833.4	838.3
5°	791.7	792.5	792.5	793.4	792.5	794.2	801.5	808.1	819.5	825.2	832.5
7.5°	762.3	764.8	764.0	765.6	765.6	767.2	778.7	789.3	800.7	811.3	820.3
10°	727.2	728.9	732.1	730.5	730.5	735.4	747.7	763.2	777.0	792.5	803.2
12.5°	685.6	689.7	688.9	692.2	693.8	697.0	717.5	734.6	751.7	769.7	783.6
15°	653.0	655.4	657.1	657.9	657.9	665.2	685.6	706.8	729.7	750.9	765.6
17.5°	631.8	631.8	633.4	634.2	635.8	640.7	662.0	685.6	711.7	737.9	754.2
20°	619.5	619.5	620.3	621.1	621.1	626.9	646.4	673.4	701.9	735.4	755.0
22.5°	629.3	626.9	626.0	626.0	622.8	622.8	641.5	670.1	706.0	749.3	774.6
25°	696.2	688.9	677.5	675.0	670.9	651.3	648.9	681.5	725.6	779.5	817.8
27.5°	796.6	789.3	781.9	773.0	766.4	730.5	681.5	710.9	763.2	839.9	887.2
30°	928.0	913.3	902.7	892.9	864.4	825.2	749.3	756.6	821.1	924.0	983.5
32.5°	1075.0	1059.4	1043.1	1020.3	1012.9	949.3	852.1	832.5	894.6	1021.9	1083.9
35°	1217.0	1209.6	1198.2	1189.2	1172.1	1119.0	986.0	924.0	979.5	1137.0	1185.1
37.5°	1381.9	1368.0	1368.8	1361.4	1351.7	1306.8	1124.7	1034.1	1070.9	1247.2	1277.4
40°	1544.3	1541.0	1545.9	1533.7	1517.3	1456.9	1226.8	1115.0	1166.4	1353.3	1345.9
42.5°	1697.7	1700.2	1694.5	1680.6	1662.6	1561.4	1292.1	1183.5	1252.1	1446.3	1400.6
45°	1873.2	1864.2	1840.6	1816.1	1794.0	1651.2	1327.2	1260.2	1334.5	1546.7	1456.1
47.5°	2038.9	2003.8	1983.4	1945.9	1902.6	1732.8	1374.5	1341.0	1425.9	1641.4	1509.2
50°	2160.5	2127.9	2093.6	2047.9	2002.2	1803.8	1437.4	1432.5	1529.6	1747.5	1581.8
52.5°	2216.0	2185.8	2152.4	2105.8	2060.1	1855.3	1521.4	1521.4	1652.0	1887.9	1682.2
55°	2207.0	2185.0	2155.6	2113.2	2078.1	1883.0	1607.9	1619.4	1805.5	2039.7	1798.1
57.5°	2159.7	2147.5	2130.3	2100.9	2072.4	1904.2	1710.0	1717.3	2011.2	2185.8	1907.5
60°	2143.4	2138.5	2128.7	2111.6	2089.5	1950.8	1818.5	1834.9	2241.3	2319.7	1969.5
62.5°	2216.0	2206.2	2198.9	2181.7	2161.3	2065.0	1954.8	1959.7	2457.6	2336.0	1909.1
65°	2420.1	2402.1	2389.9	2367.0	2344.2	2237.2	2128.7	2075.6	2563.7	2183.4	1704.3
67.5°	2847.8	2818.4	2783.3	2740.0	2677.2	2580.9	2300.9	2092.0	2467.4	1849.5	1344.3
70°	3693.4	3629.7	3548.9	3456.7	3433.0	3152.2	2408.7	1971.2	2051.2	1292.1	891.3
72.5°	4829.6	4763.4	4691.6	4615.7	4465.5	3848.5	2361.3	1590.0	1275.7	664.4	424.4
73°	4848.3	4803.4	4716.9	4628.8	4506.3	3836.2	2309.9	1465.9	1124.7	523.2	347.7
75°	4348.0	4330.0	4245.1	4075.4	3971.7	3240.4	1701.0	849.7	492.2	323.2	226.1
77.5°	2821.7	2802.1	2753.9	2737.6	2546.6	2100.9	761.5	330.6	267.7	214.7	160.0
80°	1503.5	1412.1	1395.7	1330.4	1190.9	808.9	260.4	202.4	177.9	143.7	111.8
82.5°	609.7	570.5	555.8	503.6	473.4	242.4	130.6	140.4	119.2	84.9	68.6
85°	224.5	206.5	201.6	164.1	144.5	71.8	80.0	98.8	74.3	47.3	34.3
87.5°	77.5	66.9	58.0	44.9	41.6	29.4	44.1	53.9	47.3	28.6	16.3
90°	13.5	12.6	11.7	10.8	11.5	10.3	11.9	16.3	17.2	11.9	10.3
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0
97.5°	9.0	9.0	9.0	9.0	9.0	9.0	12.0	10.0	9.0	8.0	8.0
100°	13.8	14.7	15.6	16.5	17.4	21.0	29.0	26.0	23.0	19.0	19.0
102.5°	29.6	30.9	32.2	33.5	34.8	40.0	50.0	47.0	42.0	39.0	38.0
105°	51.0	52.5	54.0	55.5	57.0	63.0	72.0	70.0	65.0	61.0	61.0
107.5°	76.0	77.5	79.0	80.5	82.0	88.0	95.0	94.0	90.0	87.0	86.0



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CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
110°	104.4	105.6	106.8	108.0	109.2	114.0	120.0	121.0	119.0	116.0	117.0
112.5°	135.8	136.7	137.6	138.5	139.4	143.0	148.0	150.0	149.0	147.0	147.0
115°	169.2	169.8	170.4	171.0	171.6	174.0	179.0	182.0	179.0	177.0	178.0
117.5°	202.6	202.9	203.2	203.5	203.8	205.0	211.0	215.0	210.0	208.0	209.0
120°	238.2	238.8	239.4	240.0	240.6	243.0	246.0	250.0	245.0	243.0	243.0
122.5°	272.2	272.8	273.4	274.0	274.6	277.0	279.0	283.0	278.0	276.0	277.0
125°	306.0	306.5	307.0	307.5	308.0	310.0	313.0	315.0	310.0	310.0	310.0
127.5°	339.2	339.3	339.4	339.5	339.6	340.0	345.0	346.0	346.0	345.0	347.0
130°	370.4	370.6	370.8	371.0	371.2	372.0	377.0	381.0	381.0	379.0	380.0
132.5°	404.2	404.3	404.4	404.5	404.6	405.0	411.0	416.0	414.0	414.0	415.0
135°	435.4	435.6	435.8	436.0	436.2	437.0	443.0	448.0	447.0	450.0	451.0
137.5°	464.8	465.2	465.6	466.0	466.4	468.0	473.0	475.0	476.0	481.0	482.0
140°	492.2	492.8	493.4	494.0	494.6	497.0	500.0	502.0	504.0	509.0	511.0
142.5°	521.8	522.2	522.6	523.0	523.4	525.0	527.0	533.0	533.0	534.0	536.0
145°	550.2	550.3	550.4	550.5	550.6	551.0	556.0	562.0	561.0	558.0	560.0
147.5°	574.2	574.3	574.4	574.5	574.6	575.0	580.0	585.0	586.0	583.0	585.0
150°	593.0	593.0	593.0	593.0	593.0	593.0	597.0	600.0	603.0	606.0	610.0
152.5°	610.0	610.0	610.0	610.0	610.0	610.0	611.0	614.0	618.0	623.0	628.0
155°	629.6	629.4	629.2	629.0	628.8	628.0	626.0	631.0	636.0	638.0	641.0
157.5°	645.8	645.7	645.6	645.5	645.4	645.0	644.0	648.0	650.0	650.0	655.0
160°	655.0	655.0	655.0	655.0	655.0	655.0	658.0	664.0	661.0	660.0	666.0
162.5°	661.4	661.6	661.8	662.0	662.2	663.0	667.0	671.0	670.0	668.0	674.0
165°	673.0	673.0	673.0	673.0	673.0	673.0	672.0	677.0	680.0	678.0	682.0
167.5°	687.4	687.1	686.8	686.5	686.2	685.0	678.0	684.0	688.0	688.0	694.0
170°	692.6	692.4	692.2	692.0	691.8	691.0	686.0	689.0	694.0	696.0	701.0
172.5°	690.0	690.0	690.0	690.0	690.0	690.0	689.0	692.0	694.0	696.0	701.0
175°	690.8	690.7	690.6	690.5	690.4	690.0	690.0	695.0	696.0	694.0	699.0
177.5°	696.6	696.4	696.2	696.0	695.8	695.0	694.0	699.0	701.0	698.0	702.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226511

CATALOG NUMBER: ISW-AF-1200-LED-E1-T4FT-8030-ULG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	839.9	843.2	849.7	854.6	858.7	864.4	866.0	869.3	865.2	870.1
5°	836.6	846.4	858.7	870.1	880.7	889.7	893.8	894.6	895.4	898.7
7.5°	828.5	843.2	862.7	878.2	894.6	900.3	902.7	903.6	897.8	900.3
10°	812.1	835.8	860.3	879.1	887.2	883.1	876.6	866.0	861.1	861.1
12.5°	794.2	824.4	852.9	863.6	856.2	840.7	822.7	803.2	795.8	795.8
15°	779.5	817.8	841.5	834.2	813.0	783.6	759.1	738.7	732.1	729.7
17.5°	771.3	814.6	823.6	800.7	764.8	728.1	703.6	686.4	680.7	680.7
20°	777.9	817.8	803.2	760.7	715.8	682.4	661.1	649.7	644.0	646.4
22.5°	805.6	830.1	785.2	721.5	666.8	638.3	628.5	621.1	620.3	622.0
25°	852.1	846.4	769.7	680.7	621.1	600.7	599.9	597.5	596.7	595.8
27.5°	912.5	866.8	750.9	635.0	575.4	565.6	570.5	569.7	568.9	569.7
30°	992.5	884.8	723.2	585.2	532.2	532.2	539.5	537.1	533.8	534.6
32.5°	1066.8	897.8	680.7	529.7	497.9	499.5	502.0	495.4	487.3	488.9
35°	1130.5	897.8	623.6	479.9	462.8	462.8	464.4	458.7	452.2	449.7
37.5°	1183.5	879.9	551.8	442.4	434.2	434.2	440.8	435.0	422.8	420.4
40°	1215.3	840.7	485.6	414.6	420.4	421.2	412.2	402.4	391.0	388.5
42.5°	1235.8	783.6	433.4	395.0	411.4	404.8	383.6	368.1	367.3	370.6
45°	1253.7	719.1	391.8	375.5	401.6	387.7	359.1	344.4	349.3	352.6
47.5°	1271.7	654.6	358.3	353.4	383.6	373.8	343.6	327.3	324.9	329.8
50°	1314.1	564.8	320.0	327.3	361.6	358.3	329.8	311.0	295.5	294.7
52.5°	1371.2	444.8	287.3	304.4	344.4	349.3	314.2	296.3	275.1	271.8
55°	1434.9	341.2	260.4	286.5	328.1	336.3	308.5	281.6	258.7	255.5
57.5°	1453.7	269.4	235.1	261.2	306.1	324.0	299.6	264.5	247.3	244.0
60°	1389.2	223.6	213.8	240.0	284.0	311.8	285.7	251.4	235.9	233.4
62.5°	1192.5	197.5	202.4	226.1	267.7	300.4	275.1	241.6	229.4	227.7
65°	910.1	179.6	192.6	214.7	253.0	289.8	267.7	237.5	227.7	226.1
67.5°	571.4	166.5	182.8	202.4	238.3	278.3	262.0	232.6	225.3	222.8
70°	316.7	152.6	169.8	188.5	223.6	267.7	254.7	225.3	224.5	219.6
72.5°	192.6	137.9	155.9	173.9	207.3	254.7	241.6	216.3	208.1	198.3
73°	183.6	136.3	152.6	170.6	203.2	251.4	239.2	213.0	204.9	195.1
75°	148.6	122.4	139.6	155.1	188.5	238.3	225.3	201.6	188.5	181.2
77.5°	109.4	104.5	120.8	135.5	169.8	220.4	205.7	184.5	169.0	164.9
80°	80.8	86.5	102.0	115.1	149.4	202.4	185.3	164.9	155.1	150.2
82.5°	54.7	66.9	81.6	92.2	132.2	182.8	164.1	144.5	151.0	125.7
85°	31.8	46.5	58.8	71.8	106.1	163.2	142.8	123.2	107.7	97.1
87.5°	21.2	26.1	35.9	49.0	76.7	128.1	113.5	96.3	70.2	70.2
90°	9.4	12.3	13.9	12.7	17.6	62.7	45.5	51.9	13.2	12.3
92.5°	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0
95°	7.0	7.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0
97.5°	8.0	9.0	10.0	12.0	9.0	9.0	8.0	8.0	7.0	7.0
100°	19.0	23.0	26.0	29.0	21.0	12.0	10.0	9.0	8.0	8.0
102.5°	39.0	42.0	47.0	50.0	40.0	27.0	18.0	13.0	11.0	11.0
105°	61.0	65.0	70.0	72.0	63.0	48.0	36.0	27.0	22.0	21.0
107.5°	87.0	90.0	94.0	95.0	88.0	73.0	58.0	49.0	42.0	41.0



REPORT NUMBER: P226511

CATALOG NUMBER: ISW-AF-1200-LED-E1-T4FT-8030-ULG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	116.0	119.0	121.0	120.0	114.0	102.0	87.0	74.0	68.0	66.0
112.5°	147.0	149.0	150.0	148.0	143.0	134.0	121.0	106.0	99.0	99.0
115°	177.0	179.0	182.0	179.0	174.0	168.0	159.0	147.0	139.0	140.0
117.5°	208.0	210.0	215.0	211.0	205.0	202.0	197.0	189.0	184.0	184.0
120°	243.0	245.0	250.0	246.0	243.0	237.0	233.0	226.0	223.0	225.0
122.5°	276.0	278.0	283.0	279.0	277.0	271.0	267.0	261.0	260.0	263.0
125°	310.0	310.0	315.0	313.0	310.0	305.0	299.0	296.0	294.0	298.0
127.5°	345.0	346.0	346.0	345.0	340.0	339.0	333.0	329.0	329.0	330.0
130°	379.0	381.0	381.0	377.0	372.0	370.0	366.0	362.0	361.0	363.0
132.5°	414.0	414.0	416.0	411.0	405.0	404.0	401.0	393.0	394.0	396.0
135°	450.0	447.0	448.0	443.0	437.0	435.0	432.0	426.0	426.0	429.0
137.5°	481.0	476.0	475.0	473.0	468.0	464.0	460.0	459.0	457.0	460.0
140°	509.0	504.0	502.0	500.0	497.0	491.0	489.0	487.0	485.0	488.0
142.5°	534.0	533.0	533.0	527.0	525.0	521.0	518.0	517.0	515.0	518.0
145°	558.0	561.0	562.0	556.0	551.0	550.0	547.0	544.0	546.0	550.0
147.5°	583.0	586.0	585.0	580.0	575.0	574.0	574.0	571.0	572.0	575.0
150°	606.0	603.0	600.0	597.0	593.0	593.0	593.0	593.0	592.0	595.0
152.5°	623.0	618.0	614.0	611.0	610.0	610.0	609.0	608.0	608.0	611.0
155°	638.0	636.0	631.0	626.0	628.0	630.0	627.0	625.0	625.0	629.0
157.5°	650.0	650.0	648.0	644.0	645.0	646.0	644.0	643.0	643.0	646.0
160°	660.0	661.0	664.0	658.0	655.0	655.0	656.0	659.0	660.0	663.0
162.5°	668.0	670.0	671.0	667.0	663.0	661.0	665.0	669.0	669.0	673.0
165°	678.0	680.0	677.0	672.0	673.0	673.0	676.0	676.0	678.0	681.0
167.5°	688.0	688.0	684.0	678.0	685.0	688.0	686.0	684.0	687.0	690.0
170°	696.0	694.0	689.0	686.0	691.0	693.0	692.0	692.0	695.0	698.0
172.5°	696.0	694.0	692.0	689.0	690.0	690.0	693.0	695.0	697.0	699.0
175°	694.0	696.0	695.0	690.0	690.0	691.0	695.0	697.0	698.0	700.0
177.5°	698.0	701.0	699.0	694.0	695.0	697.0	699.0	700.0	705.0	707.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

(END OF REPORT)