

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: P226535

Luminaire Tested: **ISW-AF-450-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-450-LED-E1-T4FT
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250.2 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G1

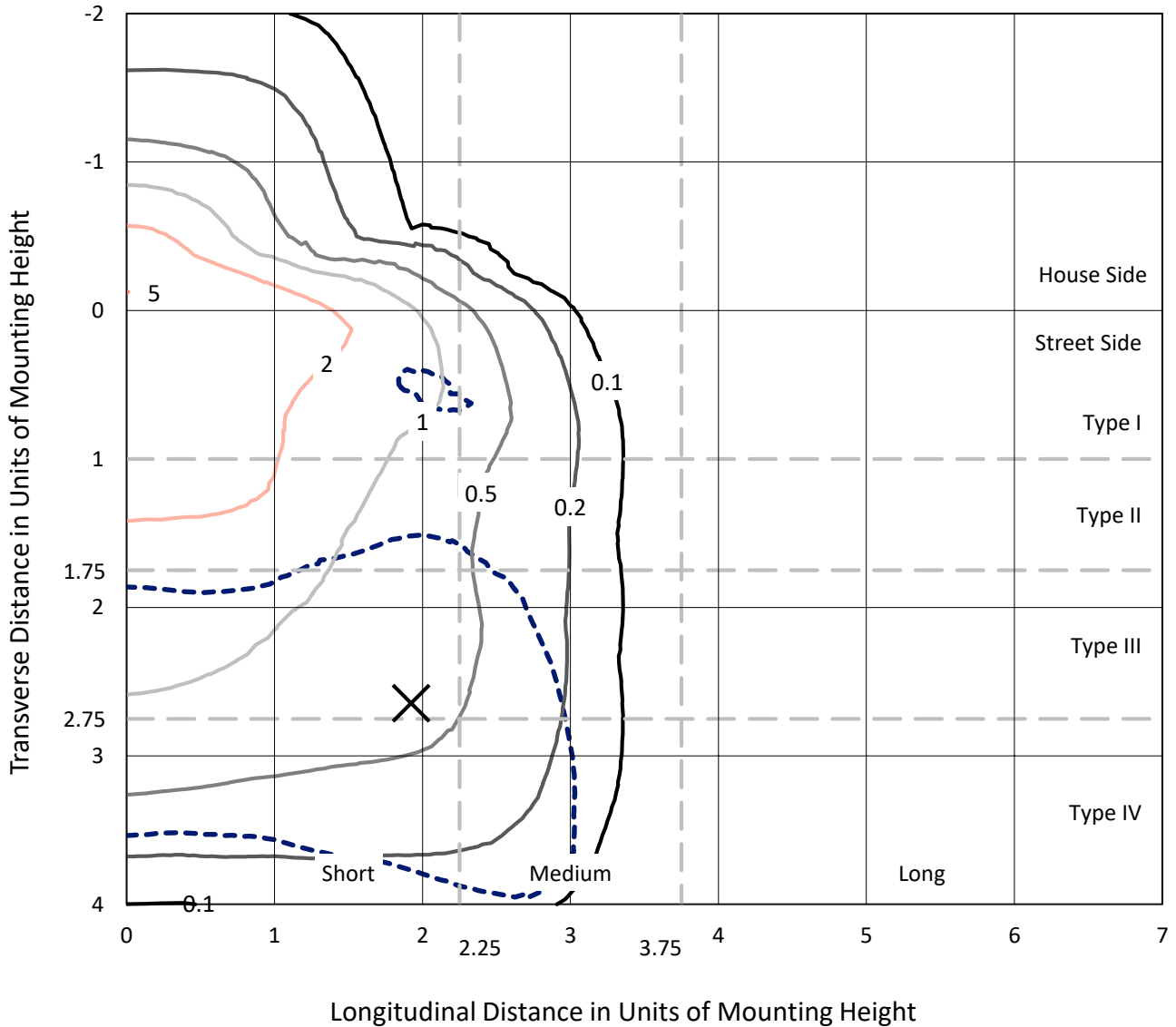
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

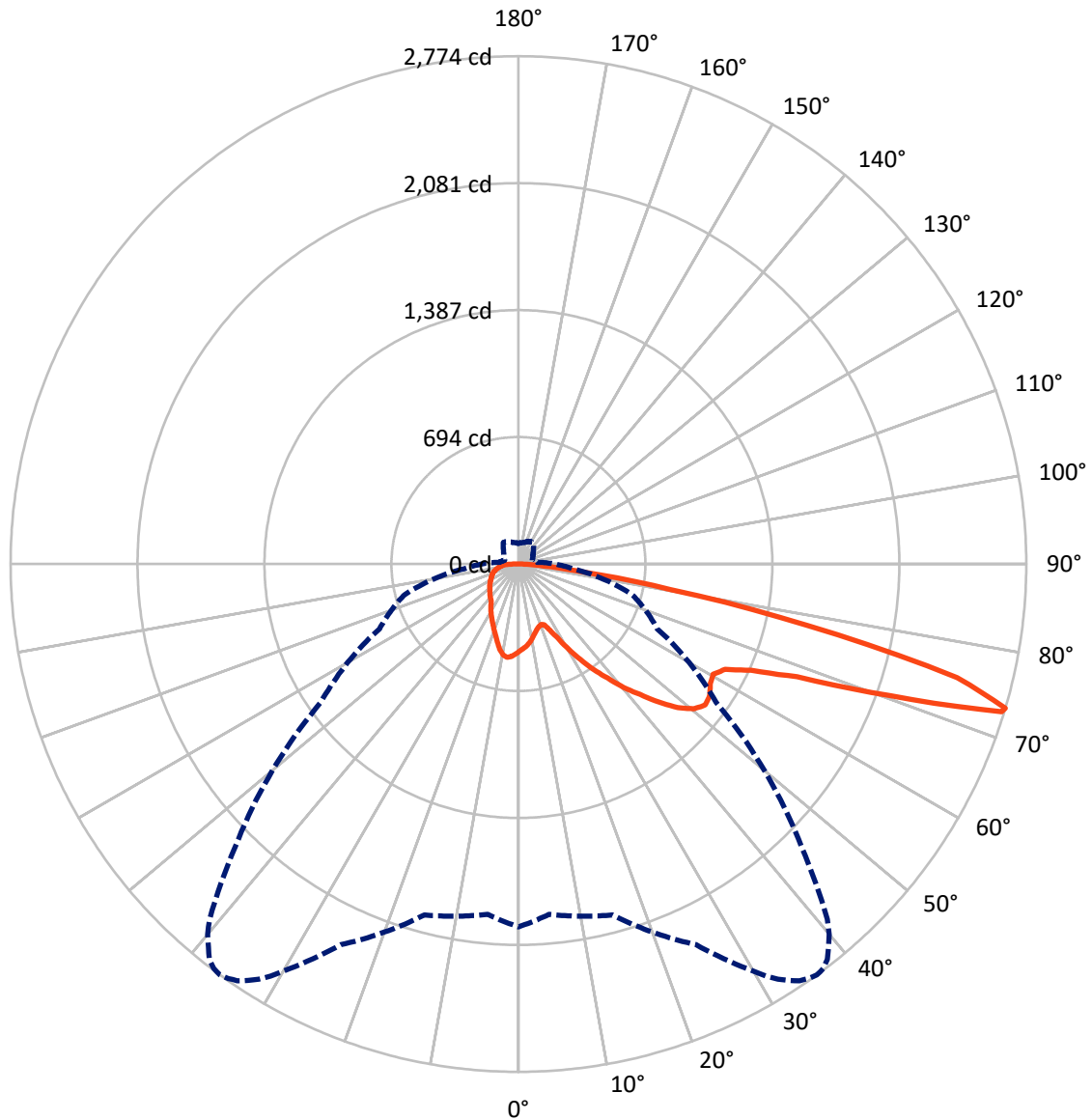
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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	685.3	0.7	686.1
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	2563.8	0.3	2564.1
	% Fixture	78.9	0.0	78.9
Total	Lumens	3249.1	1.0	3250.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	1.4
10°-20°	119.1	3.7
20°-30°	195.1	6.0
30°-40°	323.3	9.9
40°-50°	475.1	14.6
50°-60°	599.1	18.4
60°-70°	784.5	24.1
70°-80°	635.0	19.5
80°-90°	73.1	2.2
90°-100°	1.0	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°	3249.1	100.0
0°-180°	3250.2	100.0



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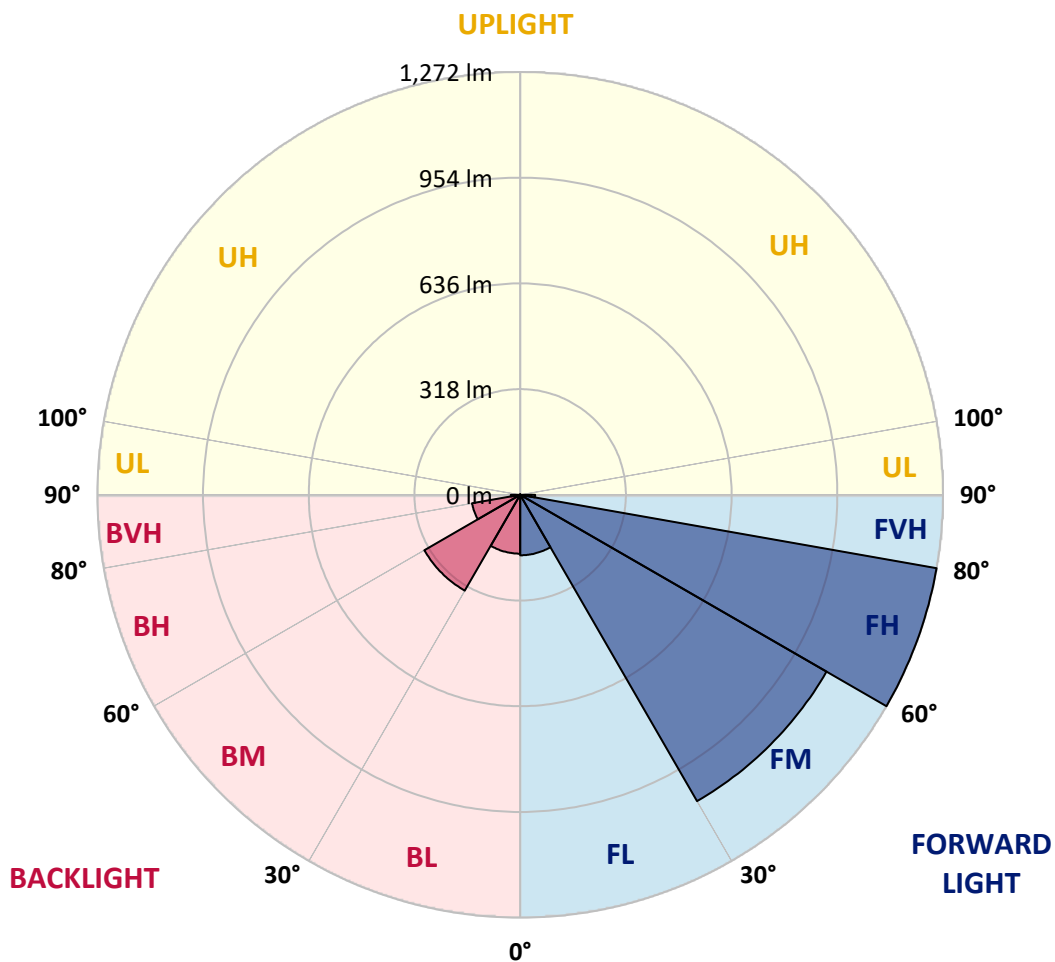
CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.9	5.6			
FM	(30°-60°)	1064.4	32.7			
FH	(60°-80°)	1272.5	39.2			G1/1800
FVH	(80°-90°)	45.1	1.4			G1/100
BL	(0°-30°)	177.2	5.5	B1/500		
BM	(30°-60°)	333.1	10.2	B1/1000		
BH	(60°-80°)	147.0	4.5	B1/500		G1/500
BVH	(80°-90°)	28.0	0.9			G1/100
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	0.7	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	460.1	461.0	462.0	462.0	462.0	463.4	462.9	462.9	463.4	463.8	463.8
5°	442.8	443.3	446.1	447.0	449.9	449.4	449.4	449.4	451.2	449.9	450.8
7.5°	423.3	424.2	427.1	430.3	432.6	433.1	432.6	431.7	434.0	435.0	434.0
10°	400.0	400.5	404.2	407.0	410.7	410.3	411.6	411.6	412.6	412.1	414.0
12.5°	388.4	387.5	385.6	387.0	387.9	387.9	387.9	389.3	388.8	389.7	391.2
15°	387.0	384.6	375.3	372.0	371.1	371.1	370.7	370.2	371.6	373.0	373.0
17.5°	393.5	388.8	370.7	361.4	359.5	358.5	359.1	358.1	358.1	360.0	359.5
20°	425.1	416.8	380.4	360.0	354.4	354.4	353.9	352.5	352.5	353.0	353.0
22.5°	505.7	495.0	431.7	389.3	369.8	369.3	367.9	366.5	362.7	361.8	360.0
25°	618.0	605.4	496.8	451.2	423.8	422.9	415.8	414.9	406.1	406.5	400.5
27.5°	705.0	696.6	584.0	523.4	497.4	491.7	488.5	480.1	472.7	466.6	459.2
30°	734.9	733.5	672.0	623.1	584.0	577.5	568.6	564.9	554.1	545.7	540.6
32.5°	781.8	783.3	757.7	703.7	669.6	663.2	655.7	646.8	639.3	633.8	621.6
35°	848.9	849.4	831.8	791.2	752.1	743.3	739.1	728.8	721.8	714.8	708.8
37.5°	895.5	897.8	885.3	854.1	830.7	818.2	817.7	810.3	802.4	796.4	790.7
40°	984.9	972.3	930.9	910.8	891.8	890.4	886.2	882.0	883.8	880.7	886.7
42.5°	1075.2	1059.5	1001.7	973.2	961.7	963.9	962.6	963.0	968.6	967.2	973.7
45°	1152.6	1134.5	1079.4	1046.0	1055.3	1058.0	1065.9	1070.6	1068.3	1076.7	1076.7
47.5°	1229.9	1187.5	1122.3	1137.6	1144.2	1165.7	1171.2	1169.8	1177.7	1181.4	1171.2
50°	1175.4	1164.2	1159.1	1206.2	1235.4	1242.5	1250.4	1254.5	1258.2	1253.1	1242.9
52.5°	1060.4	1059.5	1131.6	1246.7	1271.3	1280.6	1288.1	1291.4	1289.9	1287.2	1278.8
55°	1021.7	1014.3	1076.7	1204.7	1242.5	1251.3	1262.0	1268.6	1275.0	1274.1	1267.6
57.5°	1074.3	1068.3	1068.8	1167.9	1204.7	1212.6	1219.7	1227.0	1229.0	1235.0	1235.4
60°	1227.0	1219.2	1155.3	1166.6	1203.8	1212.6	1213.5	1217.7	1218.2	1221.5	1221.9
62.5°	1447.4	1432.9	1335.6	1251.8	1264.8	1269.0	1272.2	1271.3	1269.5	1267.1	1267.1
65°	1688.6	1675.1	1549.8	1452.0	1414.3	1424.6	1408.2	1404.9	1401.2	1401.2	1397.0
67.5°	1975.4	1949.8	1853.0	1743.0	1688.6	1693.7	1701.2	1672.7	1662.5	1663.4	1641.5
70°	2267.9	2240.9	2198.5	2197.1	2224.6	2212.4	2178.0	2223.7	2169.6	2156.6	2151.9
72.5°	2106.3	2074.1	2083.0	2346.1	2593.0	2633.0	2671.1	2706.5	2738.2	2757.4	2760.1
73°	1982.4	1921.4	1984.7	2294.0	2567.8	2626.9	2674.4	2712.1	2746.1	2763.4	2774.0
75°	990.0	993.3	1305.3	1892.6	2244.1	2294.9	2368.9	2410.4	2471.9	2503.5	2475.5
77.5°	229.6	237.9	395.4	898.3	1345.4	1418.0	1477.1	1537.7	1608.9	1635.5	1612.2
80°	81.0	84.8	139.2	341.4	561.6	601.7	652.4	719.0	785.1	801.5	842.4
82.5°	42.9	47.1	73.6	148.1	239.8	262.2	275.2	302.7	326.0	339.9	347.4
85°	24.7	25.2	41.9	81.9	109.9	118.8	127.2	133.7	141.1	136.0	136.0
87.5°	9.8	10.7	21.4	38.7	53.1	59.1	59.1	59.1	58.7	51.7	47.1
90°	1.8	2.8	4.2	7.9	7.0	7.0	6.5	5.6	5.1	5.6	3.3
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



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CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT

CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	464.7	465.2	464.3	466.2	464.7	464.7	467.1	471.3	474.5	475.5	478.2
5°	451.7	452.1	452.1	452.7	452.1	453.1	457.3	461.0	467.6	470.8	475.0
7.5°	435.0	436.4	435.9	436.8	436.8	437.7	444.3	450.3	456.8	462.9	468.0
10°	414.9	415.8	417.7	416.8	416.8	419.6	426.6	435.4	443.3	452.1	458.3
12.5°	391.2	393.5	393.0	394.9	395.9	397.7	409.4	419.1	428.9	439.2	447.0
15°	372.6	374.0	374.9	375.3	375.3	379.5	391.2	403.2	416.3	428.4	436.8
17.5°	360.5	360.5	361.4	361.8	362.7	365.6	377.7	391.2	406.1	420.9	430.3
20°	353.4	353.4	353.9	354.4	354.4	357.6	368.8	384.2	400.5	419.6	430.8
22.5°	359.1	357.6	357.2	357.2	355.3	355.3	366.0	382.3	402.8	427.5	441.9
25°	397.2	393.0	386.5	385.1	382.8	371.6	370.2	388.8	414.0	444.8	466.6
27.5°	454.5	450.3	446.1	441.0	437.3	416.8	388.8	405.6	435.4	479.2	506.2
30°	529.5	521.1	515.1	509.4	493.2	470.8	427.5	431.7	468.5	527.1	561.2
32.5°	613.3	604.5	595.2	582.1	577.9	541.6	486.2	475.0	510.4	583.1	618.5
35°	694.4	690.2	683.6	678.5	668.7	638.4	562.5	527.1	558.8	648.7	676.2
37.5°	788.4	780.5	780.9	776.7	771.2	745.5	641.7	590.0	611.0	711.6	728.8
40°	881.1	879.2	882.0	875.0	865.7	831.2	699.9	636.2	665.4	772.1	767.9
42.5°	968.6	970.1	966.8	958.8	948.6	890.9	737.1	675.2	714.3	825.2	799.1
45°	1068.8	1063.7	1050.2	1036.1	1023.6	942.0	757.2	719.0	761.4	882.5	830.7
47.5°	1163.3	1143.2	1131.6	1110.2	1085.6	988.7	784.2	765.2	813.6	936.5	861.0
50°	1232.7	1214.0	1194.5	1168.4	1142.3	1029.2	820.1	817.2	872.7	997.1	902.4
52.5°	1264.4	1247.1	1228.1	1201.5	1175.4	1058.5	868.1	868.1	942.5	1077.2	959.7
55°	1259.3	1246.7	1229.9	1205.6	1185.6	1074.3	917.4	923.9	1030.1	1163.7	1025.9
57.5°	1232.2	1225.2	1215.5	1198.7	1182.3	1086.5	975.6	979.8	1147.4	1247.1	1088.3
60°	1222.8	1220.1	1214.5	1204.7	1192.1	1113.0	1037.6	1046.9	1278.8	1323.5	1123.7
62.5°	1264.4	1258.7	1254.5	1244.7	1233.2	1178.1	1115.3	1118.1	1402.2	1332.8	1089.2
65°	1380.8	1370.5	1363.5	1350.5	1337.4	1276.4	1214.5	1184.3	1462.7	1245.7	972.3
67.5°	1624.8	1608.0	1588.0	1563.3	1527.5	1472.5	1312.8	1193.6	1407.8	1055.3	767.0
70°	2107.2	2070.9	2024.8	1972.1	1958.6	1798.4	1374.2	1124.6	1170.3	737.1	508.5
72.5°	2755.4	2717.8	2676.8	2633.5	2547.8	2195.7	1347.2	907.2	727.8	379.1	242.1
73°	2766.2	2740.6	2691.2	2640.8	2571.1	2188.7	1317.9	836.4	641.7	298.5	198.4
75°	2480.7	2470.4	2422.0	2325.2	2266.0	1848.8	970.5	484.8	280.8	184.4	129.0
77.5°	1609.8	1598.7	1571.3	1561.9	1452.9	1198.7	434.4	188.6	152.7	122.4	91.2
80°	857.7	805.7	796.4	759.0	679.4	461.5	148.5	115.5	101.5	81.9	63.8
82.5°	347.9	325.5	317.1	287.3	270.1	138.3	74.5	80.1	68.0	48.4	39.1
85°	128.1	117.8	115.0	93.6	82.4	41.0	45.6	56.4	42.4	27.0	19.5
87.5°	44.2	38.2	33.0	25.6	23.7	16.8	25.2	30.7	27.0	16.3	9.3
90°	3.3	2.8	2.4	1.8	2.4	1.8	2.8	4.2	4.7	2.8	1.8
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



REPORT NUMBER: P226535

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT

CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P226535

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3	477.3
2.5°	479.2	481.1	484.8	487.5	489.9	493.2	494.1	495.9	493.6	496.4
5°	477.3	482.9	489.9	496.4	502.5	507.6	509.9	510.4	510.9	512.7
7.5°	472.7	481.1	492.2	501.0	510.4	513.6	515.1	515.5	512.3	513.6
10°	463.4	476.9	490.8	501.6	506.2	503.9	500.1	494.1	491.3	491.3
12.5°	453.1	470.4	486.6	492.7	488.5	479.7	469.4	458.3	454.1	454.1
15°	444.8	466.6	480.1	476.0	463.8	447.0	433.1	421.5	417.7	416.3
17.5°	440.1	464.7	469.8	456.8	436.4	415.4	401.4	391.7	388.4	388.4
20°	443.8	466.6	458.3	434.0	408.4	389.3	377.2	370.7	367.4	368.8
22.5°	459.6	473.6	448.0	411.6	380.4	364.2	358.5	354.4	353.9	354.9
25°	486.2	482.9	439.2	388.4	354.4	342.8	342.3	340.8	340.4	339.9
27.5°	520.7	494.6	428.4	362.3	328.3	322.7	325.5	325.1	324.6	325.1
30°	566.3	504.8	412.6	333.9	303.6	303.6	307.8	306.4	304.5	305.0
32.5°	608.7	512.3	388.4	302.2	284.1	285.0	286.4	282.6	278.0	279.0
35°	645.0	512.3	355.8	273.8	264.0	264.0	264.9	261.7	258.0	256.6
37.5°	675.2	502.0	314.8	252.4	247.8	247.8	251.4	248.2	241.2	239.8
40°	693.4	479.7	277.1	236.6	239.8	240.3	235.2	229.6	223.1	221.7
42.5°	705.0	447.0	247.2	225.4	234.7	231.0	218.9	210.0	209.6	211.4
45°	715.2	410.3	223.5	214.2	229.1	221.2	204.9	196.5	199.3	201.2
47.5°	725.6	373.5	204.4	201.6	218.9	213.3	196.1	186.7	185.4	188.1
50°	749.7	322.2	182.6	186.7	206.3	204.4	188.1	177.4	168.6	168.1
52.5°	782.4	253.8	163.9	173.7	196.5	199.3	179.3	169.1	156.9	155.1
55°	818.7	194.7	148.5	163.5	187.2	191.9	176.0	160.7	147.6	145.8
57.5°	829.4	153.6	134.1	149.0	174.6	184.8	170.9	150.9	141.1	139.2
60°	792.6	127.6	122.0	136.9	162.0	177.9	163.0	143.4	134.6	133.2
62.5°	680.4	112.7	115.5	129.0	152.7	171.3	156.9	137.8	130.8	129.9
65°	519.2	102.5	109.9	122.4	144.3	165.3	152.7	135.5	129.9	129.0
67.5°	326.0	95.0	104.3	115.5	136.0	158.8	149.5	132.7	128.5	127.2
70°	180.7	87.1	96.9	107.6	127.6	152.7	145.3	128.5	128.1	125.3
72.5°	109.9	78.7	89.0	99.2	118.3	145.3	137.8	123.4	118.8	113.1
73°	104.8	77.7	87.1	97.3	116.0	143.4	136.5	121.5	116.9	111.3
75°	84.8	69.9	79.6	88.5	107.6	136.0	128.5	115.0	107.6	103.4
77.5°	62.4	59.6	68.9	77.3	96.9	125.7	117.3	105.3	96.4	94.1
80°	46.1	49.4	58.2	65.7	85.2	115.5	105.7	94.1	88.5	85.7
82.5°	31.2	38.2	46.5	52.6	75.4	104.3	93.6	82.4	86.1	71.7
85°	18.2	26.5	33.6	41.0	60.6	93.1	81.5	70.3	61.5	55.4
87.5°	12.1	14.9	20.5	27.9	43.8	73.1	64.8	54.9	40.1	40.1
90°	1.4	1.8	2.8	3.3	6.0	31.2	21.4	25.6	4.7	4.2
92.5°	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
97.5°	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
102.5°	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
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226535

CATALOG NUMBER: ISW-AF-450-LED-E1-T4FT

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)