

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: P226236

Luminaire Tested: **IST-AF-450-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-450-LED-E1-T2-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B1 - U1 - G1

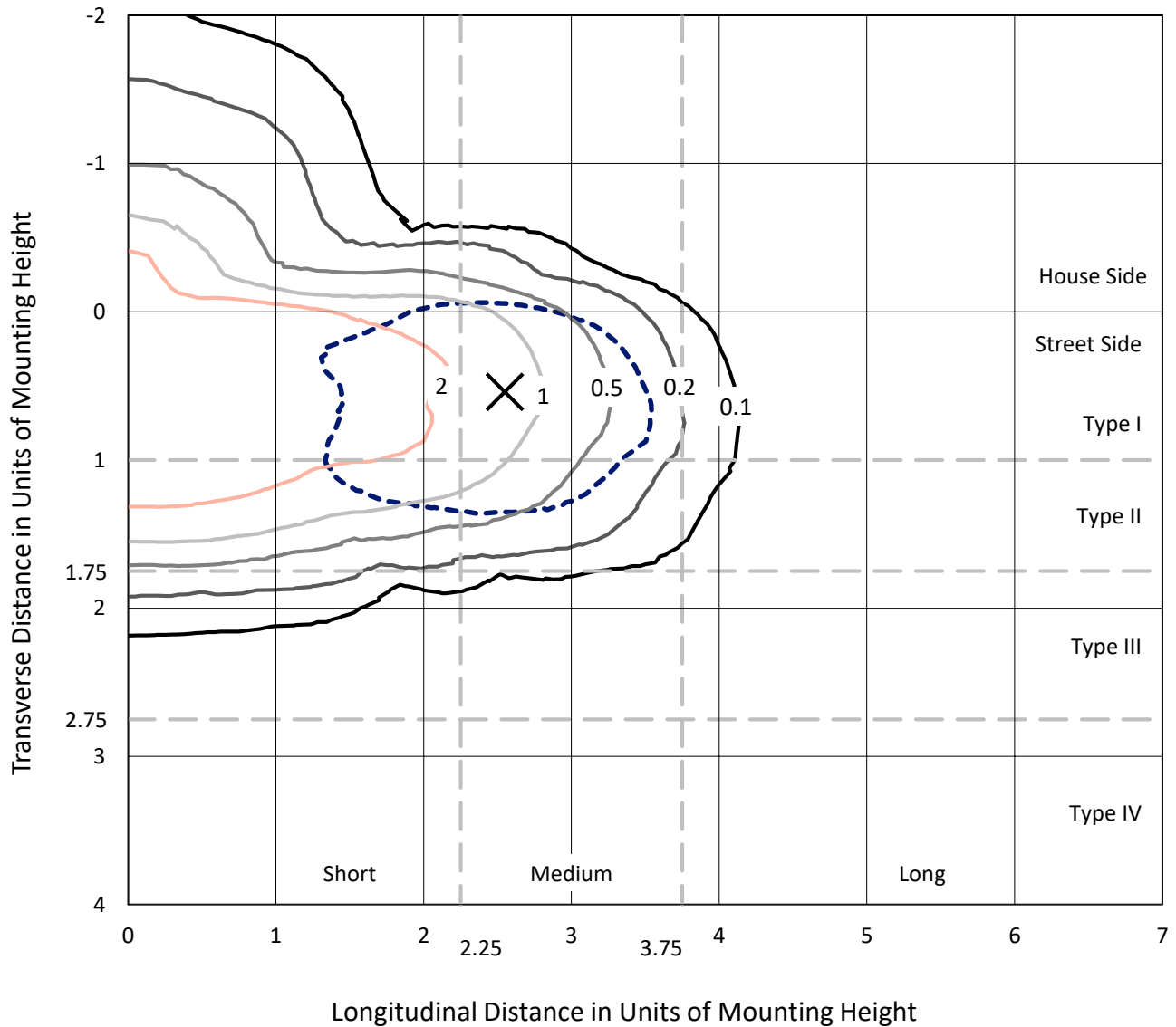
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

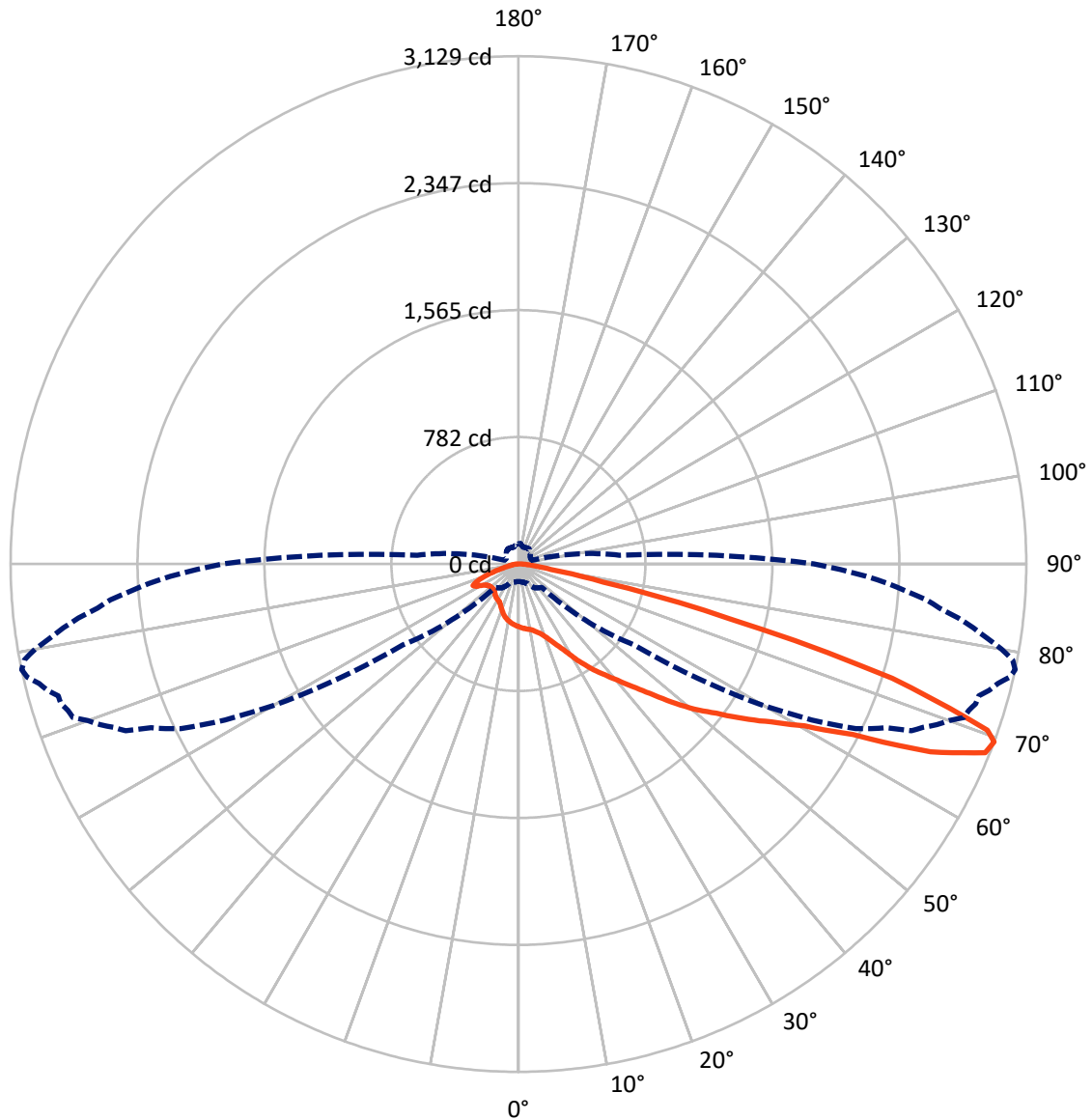
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.6	1.0	508.6
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	2267.2	0.5	2267.7
	% Fixture	81.7	0.0	81.7
Total	Lumens	2774.8	1.4	2776.2
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	1.3
10°-20°	108.3	3.9
20°-30°	194.1	7.0
30°-40°	316.8	11.4
40°-50°	468.6	16.9
50°-60°	611.8	22.0
60°-70°	684.3	24.6
70°-80°	307.2	11.1
80°-90°	47.9	1.7
90°-100°	1.4	0.1
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°	2774.8	99.9
0°-180°	2776.2	100.0



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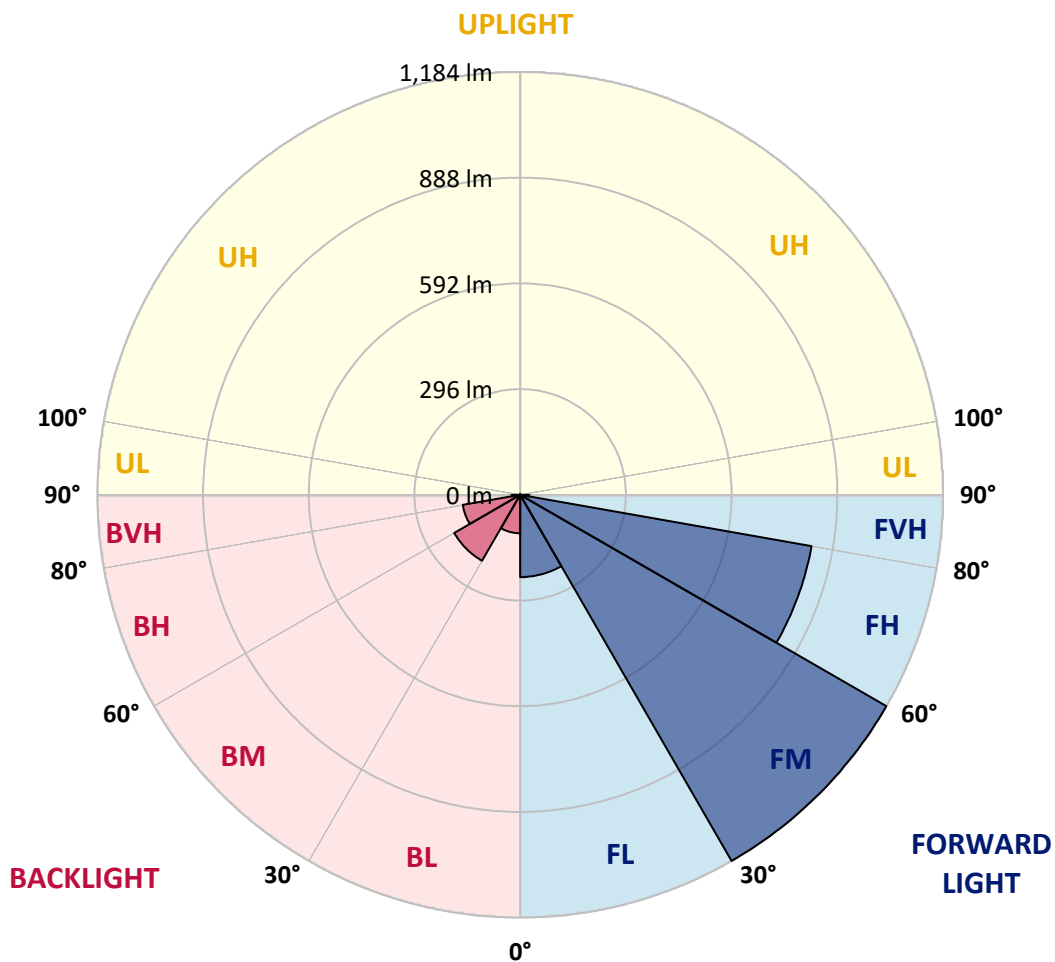
CATALOG NUMBER: IST-AF-450-LED-E1-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.5	8.3			
FM (30°-60°)	1183.9	42.6			
FH (60°-80°)	828.3	29.8			G1/1800
FVH (80°-90°)	24.5	0.9			G1/100
BL (0°-30°)	107.7	3.9	B0/110		
BM (30°-60°)	213.3	7.7	B0/220		
BH (60°-80°)	163.1	5.9	B1/500		G1/500
BVH (80°-90°)	23.4	0.8			G1/100
UL (90°-100°)	1.4	0.1		U1/10	
UH (100°-180°)	1.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	413.5	413.5	412.3	411.5	410.3	407.1	402.2	401.4	401.0	400.2	399.4
5°	443.7	440.5	441.3	439.3	434.9	429.2	420.3	415.9	413.5	413.1	411.5
7.5°	468.3	468.7	467.5	463.5	457.4	450.6	438.5	431.6	429.6	428.4	425.6
10°	486.0	484.8	484.0	483.2	478.4	472.7	457.4	449.0	447.4	444.1	440.9
12.5°	498.9	498.9	498.9	498.1	495.3	490.9	478.8	470.3	468.3	463.9	461.1
15°	513.0	511.4	509.8	508.6	509.0	509.0	500.1	493.7	490.5	488.1	482.4
17.5°	543.3	539.6	536.0	531.2	523.5	521.5	521.1	520.7	516.3	515.9	510.2
20°	569.1	565.8	562.6	557.8	546.9	535.2	541.3	546.9	546.1	546.5	543.7
22.5°	600.9	598.5	592.0	586.4	572.3	558.2	559.0	571.1	572.7	574.3	575.1
25°	644.4	643.2	632.7	621.9	605.7	592.4	579.9	594.9	598.1	601.7	609.0
27.5°	688.4	685.5	674.3	664.6	644.4	630.3	613.0	621.1	625.9	632.7	644.0
30°	745.2	737.5	733.5	711.7	693.2	672.6	657.7	660.1	659.3	667.4	684.7
32.5°	827.4	815.3	795.2	773.4	751.6	724.2	711.7	711.3	709.3	718.6	728.3
35°	871.7	868.9	856.4	834.7	810.9	785.1	777.0	769.4	770.6	775.4	779.0
37.5°	919.7	917.3	907.6	895.5	877.4	891.5	846.7	835.5	830.2	827.8	829.0
40°	940.6	942.7	947.9	949.9	939.4	1007.1	918.9	881.8	880.2	876.6	872.9
42.5°	945.1	950.3	960.8	983.8	993.8	1141.4	978.5	933.8	927.3	924.5	924.9
45°	961.2	969.3	971.3	992.2	1039.8	1148.2	1045.8	979.7	974.9	974.5	972.1
47.5°	1000.3	1011.2	1011.2	1020.4	1065.6	1161.5	1068.8	1025.7	1022.5	1020.8	1027.3
50°	1005.9	1020.4	1049.5	1079.3	1111.9	1172.4	1095.0	1075.7	1076.9	1080.5	1099.4
52.5°	910.4	924.9	1001.5	1089.4	1195.8	1202.2	1134.5	1142.2	1150.2	1168.0	1202.6
55°	780.6	791.1	881.8	1022.5	1199.0	1315.5	1233.6	1255.0	1271.9	1277.2	1331.6
57.5°	614.6	629.1	721.4	904.0	1119.6	1347.7	1461.8	1471.4	1452.5	1469.8	1489.6
60°	332.9	331.3	459.8	653.7	952.7	1288.1	1681.8	1847.8	1851.9	1878.5	1846.6
62.5°	186.2	186.2	223.3	335.7	613.0	1089.8	1787.4	2173.5	2223.9	2266.2	2359.3
65°	140.7	141.9	155.2	202.3	344.2	688.0	1710.0	2284.7	2381.4	2478.6	2641.8
67.5°	116.9	116.9	126.5	150.7	215.2	312.3	1259.0	2061.4	2182.4	2298.4	2524.1
69°	108.4	108.8	116.1	132.6	180.1	203.1	869.7	1747.9	1886.1	2046.9	2312.9
70°	104.4	103.2	110.0	123.7	163.2	160.4	637.2	1519.8	1627.0	1771.3	2077.2
72.5°	92.7	91.5	95.1	105.6	128.6	114.5	259.9	817.7	979.3	1140.9	1384.8
75°	82.6	81.4	84.2	89.1	99.9	87.5	130.6	342.6	414.7	536.0	739.5
77.5°	72.9	70.5	72.9	76.2	78.6	65.3	88.7	158.4	194.3	238.6	336.9
80°	66.1	63.7	66.5	64.9	61.7	50.4	58.8	92.3	102.4	122.5	160.4
82.5°	47.2	46.8	63.3	65.3	49.2	36.7	41.9	59.2	66.1	69.7	84.6
85°	29.0	27.8	36.7	46.8	50.0	23.0	27.0	35.1	36.7	39.9	47.2
87.5°	14.9	15.3	19.7	24.2	32.6	13.7	16.1	20.6	20.6	20.6	23.4
90°	3.6	4.4	6.0	8.5	6.9	3.6	6.0	4.8	5.6	4.8	5.6
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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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
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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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	399.8	398.6	397.0	397.4	396.6	395.4	395.8	395.4	395.8	395.0	394.2
5°	411.5	410.7	408.3	407.9	407.1	406.2	405.0	403.8	403.4	402.6	401.0
7.5°	424.8	422.4	421.2	419.5	417.5	414.3	413.9	412.3	411.1	410.3	408.3
10°	438.5	435.7	434.1	432.0	430.0	428.0	426.0	423.2	420.3	419.5	417.1
12.5°	459.0	455.4	452.2	449.0	446.9	443.3	440.5	436.9	434.1	432.8	428.8
15°	481.6	476.8	473.5	471.1	467.9	464.7	461.1	457.8	453.4	449.8	446.1
17.5°	508.2	503.8	501.4	496.9	492.9	489.3	486.4	482.4	478.8	472.3	469.1
20°	543.3	539.6	536.8	532.0	527.6	523.9	521.5	513.0	508.2	502.6	497.3
22.5°	575.9	576.3	573.5	570.3	567.5	562.6	558.6	552.5	546.5	539.6	532.4
25°	611.4	614.6	615.0	614.2	612.6	606.9	604.9	598.9	594.1	582.8	579.5
27.5°	650.9	654.5	658.9	664.6	665.8	659.7	662.6	656.5	648.1	643.2	632.7
30°	689.2	699.2	708.5	715.0	719.0	721.8	719.8	717.8	712.1	704.1	694.8
32.5°	738.3	748.8	758.1	772.2	779.4	788.3	786.7	787.5	785.5	777.4	766.5
35°	787.9	797.2	809.3	818.5	836.3	845.9	854.0	853.6	853.6	848.8	838.3
37.5°	831.8	837.1	847.1	862.5	874.1	889.5	902.4	907.6	916.1	916.5	905.2
40°	877.8	883.0	890.7	902.0	914.9	933.0	950.3	967.2	975.3	983.8	979.3
42.5°	927.3	933.0	938.6	945.9	964.4	978.5	1001.9	1024.9	1041.4	1058.7	1056.7
45°	976.5	983.0	991.0	1001.9	1018.4	1041.4	1064.0	1089.8	1127.6	1148.2	1162.3
47.5°	1032.1	1042.6	1057.5	1074.9	1088.2	1111.9	1140.5	1180.4	1218.7	1254.2	1276.4
50°	1116.0	1120.0	1144.2	1161.1	1186.5	1210.7	1239.3	1274.3	1323.9	1360.2	1395.7
52.5°	1214.7	1230.0	1254.2	1273.5	1293.7	1317.9	1347.3	1378.7	1427.9	1468.6	1514.5
55°	1342.1	1363.8	1384.8	1395.3	1423.5	1445.2	1469.0	1500.0	1552.8	1597.2	1651.2
57.5°	1494.0	1515.8	1525.8	1541.1	1553.2	1577.4	1609.7	1630.6	1677.4	1723.3	1780.5
60°	1805.9	1792.2	1804.3	1780.5	1776.9	1778.9	1785.8	1801.9	1828.1	1870.8	1931.3
62.5°	2369.0	2349.2	2296.8	2277.9	2241.2	2191.6	2144.9	2138.4	2124.7	2157.0	2194.8
65°	2697.8	2769.6	2777.2	2797.4	2782.9	2744.2	2689.4	2671.6	2627.3	2596.3	2594.2
67.5°	2618.8	2726.4	2793.7	2878.8	2925.9	2971.9	2984.0	2999.7	2971.1	2957.0	2961.0
69°	2399.2	2479.0	2629.7	2687.7	2762.3	2823.6	2904.2	2918.3	2946.1	2950.1	3003.7
70°	2181.5	2298.8	2385.1	2472.1	2575.3	2642.6	2678.9	2738.5	2807.4	2841.3	2899.3
72.5°	1568.6	1606.8	1668.1	1780.9	1809.6	1879.3	1950.6	2001.4	2082.4	2139.6	2276.3
75°	846.3	869.3	965.6	1029.7	1046.6	1069.6	1122.0	1134.5	1164.7	1183.3	1314.7
77.5°	386.5	421.6	434.1	469.1	449.4	459.0	471.5	468.7	477.2	517.5	563.4
80°	178.1	185.0	189.8	204.3	205.1	201.9	203.1	201.1	199.5	205.9	210.8
82.5°	86.6	97.1	97.1	106.0	110.4	109.2	111.6	110.8	112.4	110.8	116.1
85°	50.8	50.8	54.8	59.6	58.8	60.5	60.5	63.7	64.1	64.9	64.9
87.5°	23.8	26.2	27.4	29.4	30.2	31.4	32.2	32.2	32.6	31.8	32.6
90°	6.0	6.0	10.1	10.1	10.9	12.1	10.5	11.3	14.1	10.5	13.3
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: IST-AF-450-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
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: P226236

CATALOG NUMBER: IST-AF-450-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	393.3	394.2	393.8	392.1	391.7	391.7	390.9	390.5	389.7	389.3	390.1
5°	400.6	400.6	399.4	397.8	396.2	395.8	395.4	393.3	392.5	391.7	390.9
7.5°	407.5	406.6	405.0	402.2	400.6	400.2	398.6	396.6	394.6	392.9	392.1
10°	414.7	413.9	410.7	408.7	405.4	405.0	402.2	399.8	397.8	395.8	394.2
12.5°	425.2	424.4	420.8	415.9	413.5	411.9	408.3	405.4	402.6	400.2	397.4
15°	441.3	438.1	435.7	430.8	427.2	424.0	419.5	415.5	411.5	407.5	405.0
17.5°	463.9	459.4	453.0	450.2	445.3	440.1	434.1	431.2	426.0	421.2	416.3
20°	493.3	488.9	478.8	475.2	468.3	460.7	455.8	449.8	445.3	437.7	432.4
22.5°	525.9	521.9	512.2	502.6	496.1	490.1	482.4	474.8	466.3	459.0	453.4
25°	568.3	562.2	553.7	544.1	534.4	525.9	515.5	504.6	497.3	487.3	479.2
27.5°	625.9	615.4	601.3	590.8	583.2	570.3	557.4	547.7	536.4	523.1	514.3
30°	688.4	676.7	666.2	654.1	641.2	628.7	611.0	596.9	584.8	570.7	556.2
32.5°	757.7	747.6	732.7	717.0	702.9	687.1	674.3	659.3	638.4	623.5	608.2
35°	827.4	815.7	800.4	787.1	771.0	754.9	740.3	720.6	701.7	680.3	658.9
37.5°	894.7	884.6	867.7	847.6	833.4	816.1	801.2	780.2	757.7	733.9	717.8
40°	969.7	953.5	941.9	918.5	904.0	884.6	863.3	847.1	825.4	799.6	776.6
42.5°	1055.5	1044.2	1031.7	1012.8	997.5	974.5	947.5	926.9	906.8	876.2	844.3
45°	1164.3	1157.1	1136.5	1121.2	1100.6	1076.5	1053.1	1028.1	996.3	960.8	931.8
47.5°	1294.9	1289.3	1270.7	1249.0	1222.0	1189.3	1167.5	1133.3	1106.3	1062.0	1027.3
50°	1413.4	1416.2	1406.1	1372.7	1348.5	1315.9	1281.6	1251.8	1210.3	1164.3	1120.0
52.5°	1554.9	1552.0	1526.6	1508.1	1479.5	1440.0	1402.5	1364.2	1318.7	1271.1	1215.9
55°	1690.3	1698.7	1681.0	1654.8	1620.1	1564.9	1527.0	1477.5	1429.5	1377.1	1313.4
57.5°	1821.6	1848.7	1834.9	1803.9	1768.5	1728.6	1678.6	1623.0	1573.4	1504.9	1433.1
60°	1985.3	2021.1	2026.8	2006.6	1967.9	1921.6	1855.9	1812.4	1744.3	1681.0	1625.8
62.5°	2237.2	2318.6	2313.7	2323.4	2296.0	2267.4	2190.4	2143.7	2055.0	2009.5	1932.5
65°	2657.9	2718.0	2790.1	2787.7	2768.7	2700.2	2620.4	2542.2	2483.8	2393.9	2313.7
67.5°	3011.0	3060.5	3103.3	3081.1	3037.6	2960.6	2867.1	2758.3	2669.2	2570.1	2464.9
69°	3044.0	3104.5	3129.4	3102.0	3023.9	2923.5	2832.0	2730.9	2608.3	2523.3	2395.1
70°	2955.3	3015.0	3065.4	2994.8	2923.1	2825.2	2725.2	2620.0	2510.4	2418.9	2289.6
72.5°	2347.6	2414.9	2408.0	2400.4	2343.2	2245.2	2153.3	2096.9	2019.9	1909.5	1816.0
75°	1365.0	1396.1	1341.7	1398.9	1330.4	1231.6	1244.5	1180.8	1124.4	1060.7	1011.6
77.5°	536.0	563.4	534.8	525.5	494.9	488.1	436.9	442.9	417.5	367.6	344.6
80°	203.1	206.7	201.9	191.8	189.8	178.1	174.9	163.6	158.4	141.9	135.8
82.5°	109.2	111.2	108.0	104.8	102.4	95.5	91.1	82.6	77.8	72.5	72.1
85°	62.9	61.3	59.6	58.0	54.4	50.4	47.2	43.9	40.3	37.5	34.7
87.5°	33.0	33.5	33.9	32.2	29.8	26.6	24.6	23.4	20.6	19.3	18.1
90°	10.9	8.1	9.3	11.7	10.9	8.9	8.5	7.3	6.0	6.0	4.8
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: P226236
 CATALOG NUMBER: IST-AF-450-LED-E1-T2-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	0.0	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	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



NUMBER: P226236
 NUMBER: IST-AF-450-LED-E1-T2-7030

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	110°	0.0
388.9	388.9	387.7	386.9	384.1	379.2	374.4	370.0	363.9	361.5	358.3	112.5°	0.0
390.1	389.3	388.1	386.5	380.9	369.6	357.9	345.4	332.5	320.8	307.1	115°	0.0
390.9	389.3	387.7	385.7	377.6	360.3	336.9	312.3	289.4	272.0	264.8	117.5°	0.0
391.3	390.1	388.1	385.3	374.0	348.2	310.7	275.3	255.1	248.3	247.1	120°	0.0
395.8	393.8	390.5	387.3	372.4	334.9	281.3	247.5	239.4	242.6	248.3	122.5°	0.0
401.4	399.0	395.0	391.7	371.6	317.6	252.7	231.7	234.6	243.4	252.7	125°	0.0
411.5	407.5	403.0	399.8	373.2	296.2	229.7	223.7	232.1	243.4	255.9	127.5°	0.0
426.4	420.8	415.5	409.9	375.6	269.6	216.0	218.4	228.5	240.6	254.3	130°	0.0
444.9	438.5	431.2	422.8	378.4	246.6	208.4	212.8	222.1	232.5	243.8	132.5°	0.0
469.9	461.1	451.8	441.3	382.5	221.7	201.5	206.3	212.0	218.0	223.7	135°	0.0
501.4	489.3	479.2	465.1	386.5	204.7	195.9	197.5	198.7	199.5	199.1	137.5°	0.0
543.3	524.7	513.0	495.7	390.9	195.9	189.4	187.4	185.4	182.6	179.3	140°	0.0
587.6	572.3	553.7	531.6	393.8	189.8	183.4	176.9	171.3	168.5	168.5	142.5°	0.0
639.2	620.2	596.9	569.1	390.1	183.4	175.3	166.9	163.6	167.3	166.0	145°	0.0
690.8	664.6	638.8	606.9	381.3	176.1	166.4	162.0	164.4	159.6	156.8	147.5°	0.0
747.6	718.6	682.7	645.6	368.4	168.5	162.0	164.4	156.0	150.3	152.7	150°	0.0
811.3	777.0	738.3	688.0	359.9	163.6	155.2	157.2	149.9	145.9	144.7	152.5°	0.0
897.9	849.2	802.0	742.8	366.3	156.0	141.9	149.9	145.9	142.3	139.0	155°	0.0
983.0	931.0	875.4	805.6	377.6	150.3	131.4	142.3	145.1	139.0	133.0	157.5°	0.0
1068.4	1013.2	948.3	870.5	391.3	146.7	123.3	133.0	143.1	135.8	131.0	160°	0.0
1158.3	1088.6	1022.1	938.2	409.1	143.1	116.9	124.9	139.4	135.8	128.6	162.5°	0.0
1252.6	1170.4	1103.9	1013.2	440.1	137.8	108.8	118.5	135.8	135.4	126.1	165°	0.0
1362.2	1288.9	1203.4	1111.1	483.2	131.8	101.6	113.7	132.6	133.8	123.3	167.5°	0.0
1548.8	1473.0	1369.9	1282.0	568.7	123.7	97.1	108.8	127.4	130.6	120.9	170°	0.0
1851.5	1748.3	1653.6	1571.4	715.0	112.4	93.9	103.6	121.7	126.5	118.9	172.5°	0.0
2198.5	2097.7	1983.3	1845.0	796.4	102.0	89.5	97.1	116.1	122.5	116.9	175°	0.0
2346.0	2214.2	2075.1	1911.1	718.6	93.5	84.6	91.1	109.6	116.9	114.1	177.5°	0.0
2278.3	2144.9	1983.3	1822.5	625.1	89.1	81.8	87.9	104.8	113.2	111.2	180°	0.0
2160.6	2026.4	1882.1	1689.1	558.2	86.6	79.8	85.8	102.8	111.2	109.6		
1708.8	1589.1	1456.1	1309.0	380.5	78.6	73.3	79.8	94.7	104.0	103.6		
905.6	870.5	772.2	685.9	197.1	70.1	66.5	72.9	87.5	97.1	97.1		
326.0	295.8	282.9	235.0	104.8	61.3	59.6	64.5	79.4	88.7	88.3		
123.3	120.1	107.6	100.8	66.5	50.0	50.4	55.2	69.7	78.6	78.2		
69.7	63.3	61.3	59.2	42.3	39.5	41.5	46.3	59.6	67.3	68.5		
33.5	31.0	30.2	28.2	27.8	30.2	32.6	36.7	47.6	56.8	55.6		
16.1	15.3	14.9	14.5	19.7	19.3	23.8	25.4	31.8	45.1	40.7		
5.2	5.2	4.8	4.0	5.6	6.4	7.7	10.9	13.3	26.2	21.4		
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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226236
 IST-AF-450-LED-E1-T2-7030

REPORT NUMBER: P226236
 CATALOG NUMBER: IST-AF-450

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	386.1	386.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	355.5	349.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	297.0	296.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	260.4	255.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	248.3	247.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	253.5	254.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	260.4	262.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	264.8	269.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	263.6	268.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	250.3	252.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	226.5	227.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	197.9	197.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	177.7	172.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	168.5	165.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	162.0	156.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	168.1	167.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	173.7	172.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	164.0	156.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	146.3	137.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	134.2	129.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	128.6	127.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	127.0	131.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	126.1	130.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	120.5	128.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	116.5	125.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	114.1	124.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	112.0	125.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	108.8	127.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°	107.2	127.4
										70°	105.6	126.1
										72.5°	99.9	116.5
										75°	93.1	102.8
										77.5°	84.2	88.3
										80°	74.6	77.0
										82.5°	64.9	74.2
										85°	50.8	62.9
										87.5°	37.5	34.7
										90°	21.4	15.7
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P226236

CATALOG NUMBER: IST-AF-450-LED-E1-1

0-LED-E1-T2-7030

tinued):

180°
386.1
351.0
293.8
255.5
249.1
253.9
263.6
270.8
270.0
254.7
228.1
200.3
176.5
168.9
159.2
169.7
174.5
158.4
137.8
128.6
126.1
132.2
130.2
128.6
126.1
124.1
123.7
124.5
122.9
120.9
108.8
97.9
88.3
77.8
65.7
49.2
37.5
13.3
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

(END OF F

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

Scaled Data Report

