

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: P226484

Luminaire Tested: **IST-AF-350-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226484
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: IST-AF-350-LED-E1-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2561.1 lumens
Efficiency: N/A
Efficacy: 127.5 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 - G1

Input Watts (W): 20.09
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

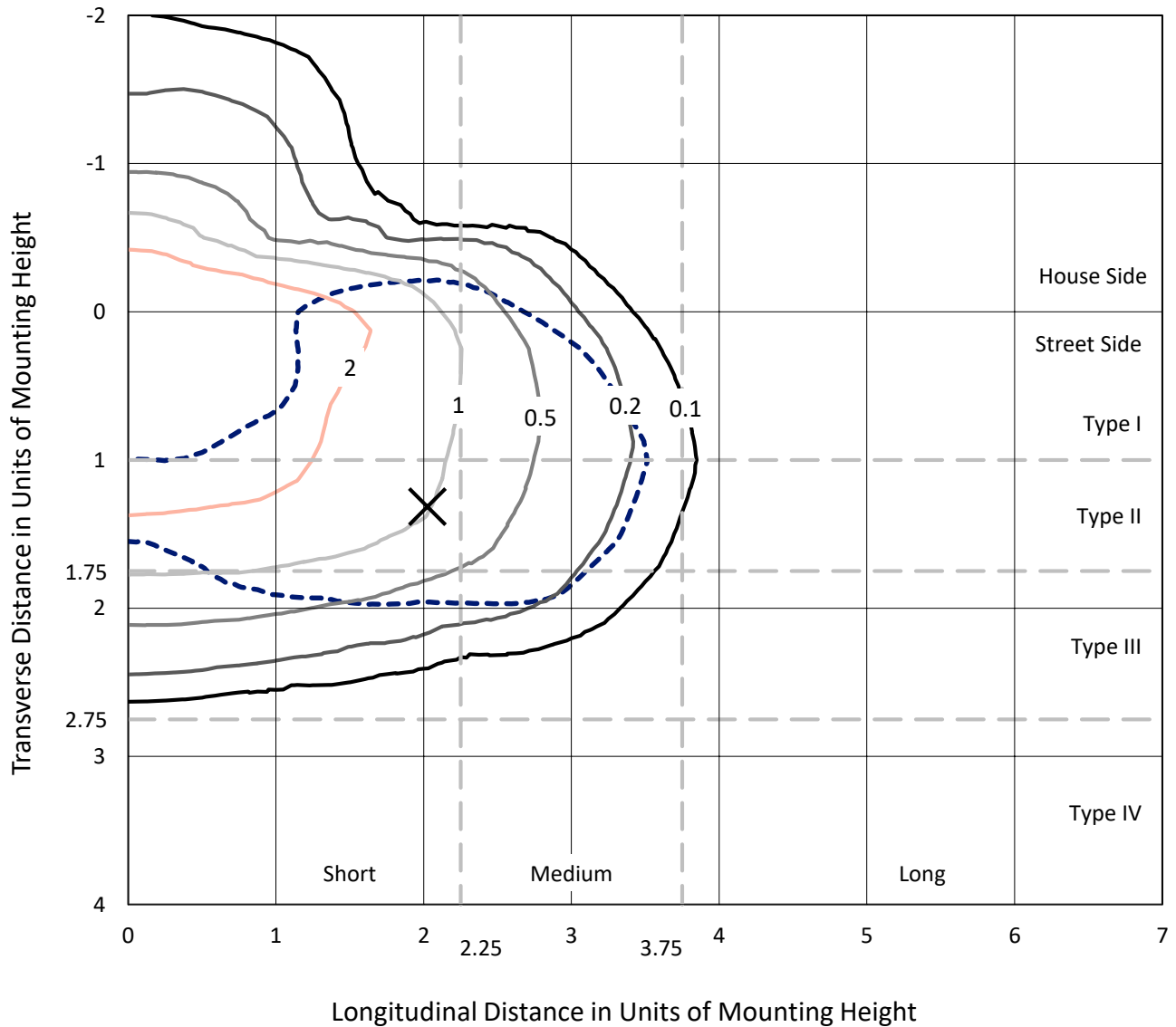


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

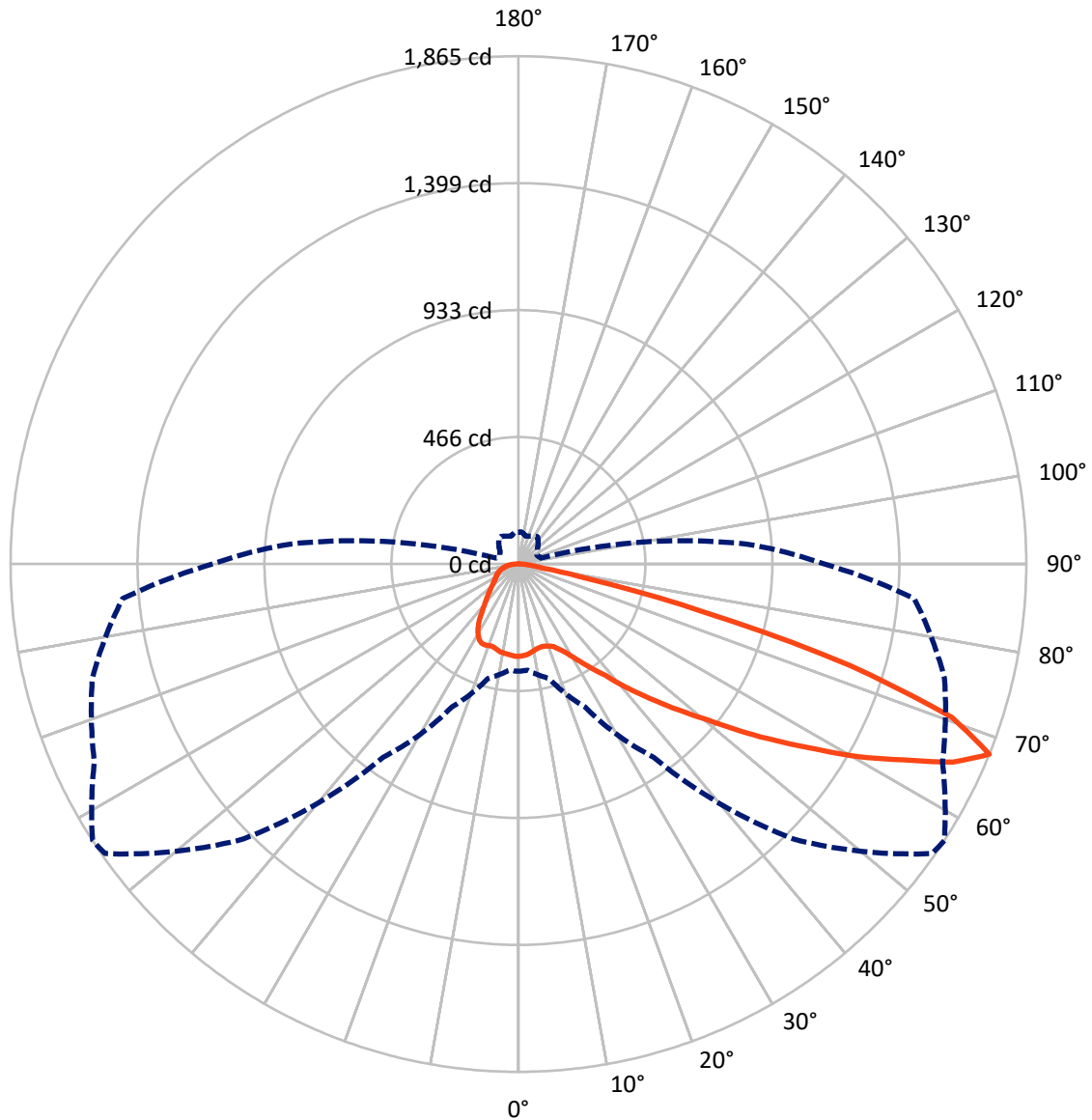


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Cutoff

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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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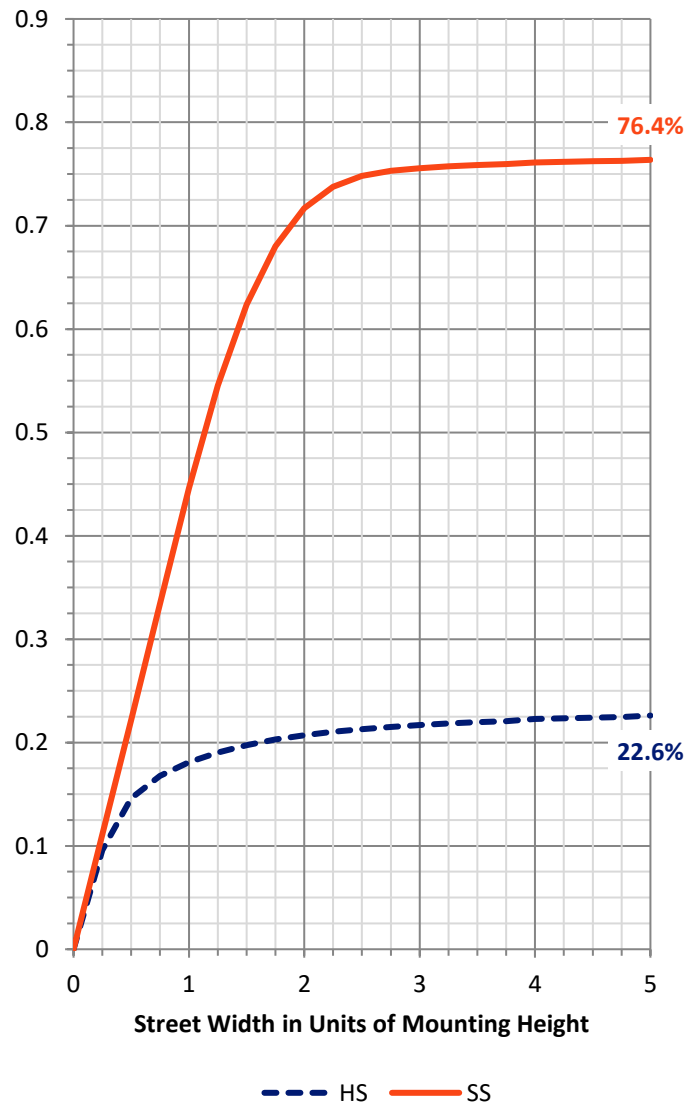
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	596.0	0.8	596.7
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	1964.1	0.2	1964.3
	% Fixture	76.7	0.0	76.7
Total	Lumens	2560.1	1.0	2561.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	1.2
10°-20°	91.2	3.6
20°-30°	157.0	6.1
30°-40°	255.3	10.0
40°-50°	411.8	16.1
50°-60°	613.9	24.0
60°-70°	691.4	27.0
70°-80°	266.5	10.4
80°-90°	41.3	1.6
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°	2560.1	100.0
0°-180°	2561.1	100.0



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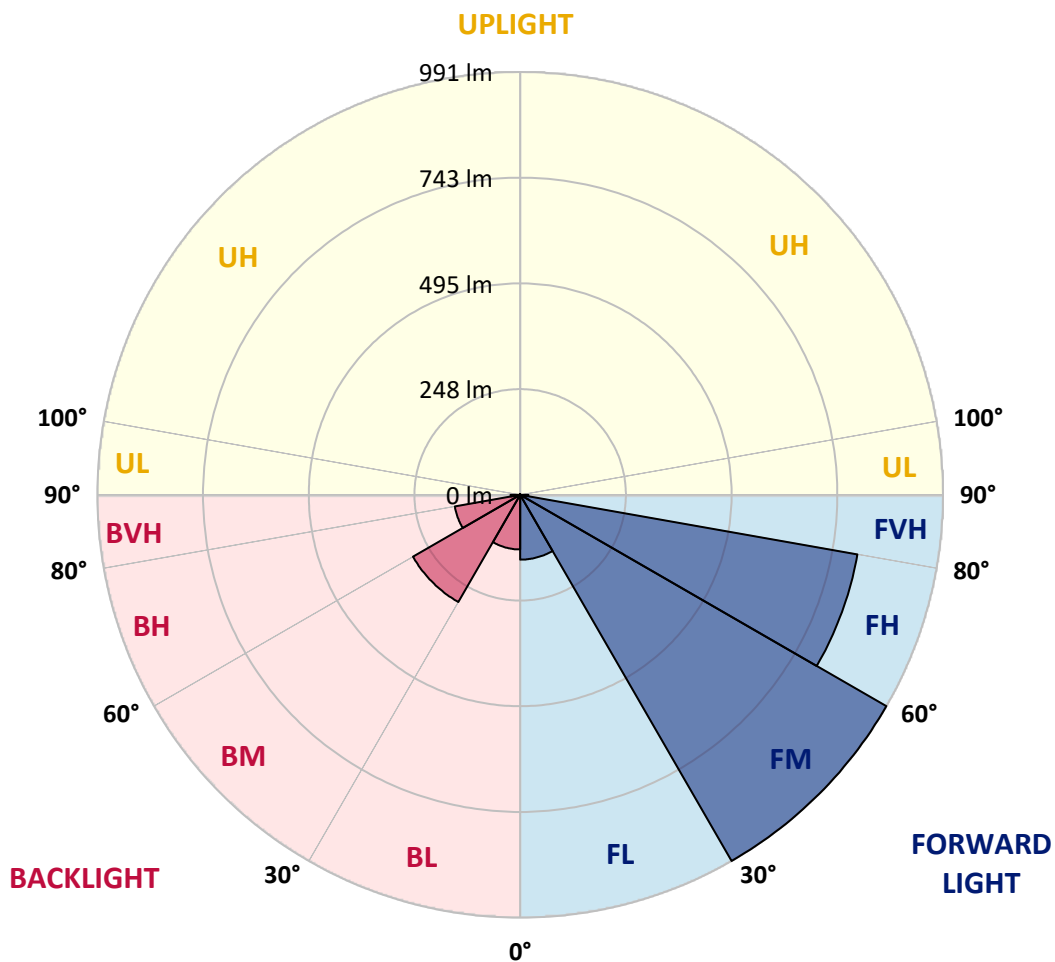
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.9	5.9			
FM	(30°-60°)	990.8	38.7			
FH	(60°-80°)	802.4	31.3			G1/1800
FVH	(80°-90°)	19.0	0.7			G1/100
BL	(0°-30°)	128.1	5.0	B1/500		
BM	(30°-60°)	290.1	11.3	B1/1000		
BH	(60°-80°)	155.5	6.1	B1/500		G1/500
BVH	(80°-90°)	22.3	0.9			G1/100
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	0.8	0.0		U1/10	

BUG Rating: B1-U1-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	336.8	337.6	338.3	337.9	337.9	337.9	337.9	337.2	338.3	338.3	337.6
5°	331.2	331.6	331.9	332.8	333.5	334.2	334.6	334.6	334.9	334.6	333.8
7.5°	323.0	323.5	324.9	324.9	325.7	327.1	327.9	328.7	329.7	329.7	329.4
10°	320.5	320.5	320.5	319.4	320.1	320.5	321.6	321.6	324.6	326.0	326.7
12.5°	323.5	323.0	323.0	320.1	317.5	316.4	317.5	317.8	321.2	323.5	324.9
15°	330.1	330.1	329.4	324.9	319.8	315.7	315.3	315.3	317.8	321.2	323.8
17.5°	345.7	347.2	342.0	334.9	326.4	319.8	317.1	316.8	318.6	321.2	323.8
20°	375.3	375.0	367.2	354.6	339.7	328.7	322.3	321.6	321.2	322.7	325.7
22.5°	410.6	409.1	399.9	383.9	363.5	343.1	330.8	329.4	326.4	327.5	331.6
25°	448.5	448.8	437.3	416.5	391.0	366.4	347.9	346.5	340.1	339.4	343.8
27.5°	486.3	491.1	475.6	455.8	425.4	396.2	369.1	366.8	361.3	359.5	363.9
30°	541.6	539.7	520.4	494.8	464.4	427.7	401.7	397.6	386.5	389.1	393.9
32.5°	588.3	592.4	574.9	544.5	504.4	465.9	435.9	433.6	422.9	425.9	432.5
35°	645.4	655.0	632.1	594.5	556.0	516.3	480.4	474.4	465.9	471.8	477.0
37.5°	710.6	715.6	697.7	649.5	610.2	568.7	527.8	518.5	509.2	521.5	530.8
40°	773.0	780.8	757.8	717.0	671.4	631.7	587.2	585.3	563.7	577.1	601.3
42.5°	865.3	875.0	838.3	790.8	749.6	701.7	659.5	649.5	626.1	645.1	685.5
45°	929.9	929.6	904.7	865.3	840.1	793.8	736.6	724.8	699.6	724.8	779.0
47.5°	953.3	958.8	950.3	945.5	936.6	902.9	818.7	807.5	783.8	821.2	871.2
50°	987.8	986.2	986.2	1016.0	1041.6	1034.5	914.7	898.8	873.9	918.8	990.7
52.5°	996.7	983.3	1004.1	1060.8	1142.0	1148.0	1026.3	1017.4	987.8	1031.5	1120.1
55°	971.8	968.4	1001.5	1083.8	1211.8	1254.0	1155.8	1143.6	1110.2	1147.6	1260.0
57.5°	916.2	924.7	977.7	1079.0	1260.0	1347.5	1297.8	1280.4	1232.6	1255.2	1398.8
60°	857.9	862.0	932.1	1061.9	1273.0	1412.5	1447.0	1436.9	1355.0	1368.3	1501.5
62.5°	793.4	783.8	856.4	1047.8	1258.5	1501.9	1591.6	1583.8	1487.1	1483.0	1574.5
65°	613.2	626.5	688.4	866.1	1159.5	1571.6	1764.1	1754.1	1634.3	1577.5	1566.8
67.5°	393.9	391.3	435.1	579.0	866.4	1428.4	1854.2	1865.4	1718.5	1620.1	1459.2
70°	141.3	145.4	161.7	263.0	475.2	951.8	1634.7	1689.9	1656.6	1540.5	1187.6
72.5°	86.0	86.0	97.9	118.4	192.5	451.4	1165.0	1274.5	1352.0	1269.3	877.2
75°	67.5	67.1	71.2	81.6	103.8	148.0	619.4	704.0	867.3	876.9	499.3
77.5°	53.4	53.1	57.1	62.0	77.5	78.3	197.7	257.4	398.0	374.6	178.4
80°	43.1	42.7	45.6	47.1	56.8	54.1	79.4	92.0	139.4	122.4	77.1
82.5°	39.0	39.0	41.9	36.0	39.3	38.2	49.3	52.7	70.1	72.7	46.3
85°	25.3	26.0	39.3	34.9	25.6	23.3	31.5	33.3	43.8	47.9	22.6
87.5°	11.9	13.0	30.1	28.9	17.1	12.6	17.8	18.9	23.7	29.3	13.4
90°	2.3	2.3	3.7	4.1	2.3	2.3	3.0	2.6	2.6	3.7	3.7
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: IST-AF-350-LED-E1-T3

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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CATALOG NUMBER: IST-AF-350-LED-E1-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4	339.4
2.5°	338.7	337.9	338.3	338.7	339.0	340.1	340.5	340.5	340.5	340.1	340.8
5°	334.6	333.8	333.8	334.9	336.0	337.6	339.7	341.7	342.4	342.7	342.7
7.5°	330.1	329.4	329.7	331.6	333.5	334.6	336.8	337.9	340.8	340.8	341.7
10°	327.1	327.9	328.3	330.1	331.6	331.6	331.2	330.5	329.7	331.6	330.8
12.5°	325.3	326.4	326.0	328.3	329.0	326.0	321.6	315.7	314.9	315.7	316.4
15°	324.6	324.6	325.7	325.7	321.9	316.0	310.5	310.9	311.6	313.8	313.8
17.5°	324.6	324.9	325.7	323.0	316.4	311.2	310.1	308.9	304.9	303.8	302.7
20°	327.1	326.4	327.1	322.3	316.4	312.3	303.8	295.6	287.9	284.5	283.1
22.5°	333.5	332.4	331.9	327.1	319.8	306.0	289.3	276.7	263.3	258.9	257.4
25°	344.6	344.2	341.7	338.3	317.5	290.8	269.6	249.6	235.2	227.4	227.7
27.5°	364.3	364.3	362.7	347.9	306.0	271.9	243.4	222.9	208.1	200.7	199.6
30°	393.9	394.7	395.4	350.6	287.9	244.1	214.4	200.7	191.8	186.2	185.9
32.5°	430.7	434.8	429.9	347.6	263.0	210.3	191.8	186.9	182.5	178.8	178.4
35°	479.3	490.4	459.9	335.7	235.2	187.3	178.0	174.7	171.3	168.8	169.1
37.5°	544.5	555.3	479.3	315.7	199.6	174.3	170.2	165.1	159.9	154.3	153.5
40°	621.6	618.4	485.9	277.8	177.3	168.1	162.4	155.8	146.9	138.7	137.3
42.5°	698.8	676.6	480.4	231.1	162.9	162.4	154.7	146.2	137.3	130.2	130.2
45°	785.2	727.7	463.3	187.3	151.3	156.5	146.9	138.0	129.8	124.6	124.3
47.5°	866.8	775.6	435.1	156.2	139.8	148.7	141.0	132.8	125.0	120.5	119.5
50°	962.5	830.1	413.6	135.0	128.7	141.0	137.6	130.2	122.8	117.5	116.8
52.5°	1059.4	883.1	397.2	120.5	118.7	135.0	136.2	131.7	123.9	113.9	113.1
55°	1160.6	949.6	364.6	109.0	109.8	130.5	138.0	134.6	129.1	112.7	112.0
57.5°	1245.5	1010.8	307.5	101.3	102.7	127.3	138.7	132.4	126.1	113.5	112.4
60°	1311.9	1052.7	225.6	94.9	96.5	123.5	135.3	124.6	116.5	113.5	111.6
62.5°	1332.4	1054.2	149.9	87.6	91.7	117.2	129.4	120.5	110.9	112.4	111.6
65°	1281.1	998.5	107.2	80.5	87.6	109.8	126.8	116.5	108.3	114.3	113.5
67.5°	1123.5	841.3	86.0	74.9	81.9	102.0	122.0	112.7	106.1	118.4	116.1
70°	875.3	603.4	73.0	69.4	76.0	94.6	115.4	108.6	103.1	115.0	112.0
72.5°	577.1	355.4	64.5	64.1	68.9	88.3	107.9	105.0	98.3	104.2	99.7
75°	301.2	164.7	56.1	58.2	61.2	82.8	101.3	98.3	90.8	93.1	91.7
77.5°	118.4	77.1	48.6	51.1	54.5	74.6	92.7	89.7	83.5	81.6	81.2
80°	65.0	52.0	40.4	43.8	46.0	67.1	83.8	80.5	73.9	72.7	71.6
82.5°	41.1	33.8	33.3	35.6	38.6	59.7	75.3	70.1	64.5	76.0	61.6
85°	19.3	20.0	23.7	26.7	30.1	50.8	65.7	60.0	54.5	53.1	47.1
87.5°	10.7	13.4	15.5	18.2	20.8	35.6	52.0	46.7	40.8	34.9	36.0
90°	2.6	2.6	4.5	4.1	4.5	5.2	25.6	23.0	20.4	9.6	6.3
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
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: IST-AF-350-LED-E1-T3

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)