

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: P226467

Luminaire Tested: **IST-AF-1000-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226467
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-1000-LED-E1-T3-7030
Description: IMPACT ELITE LED TRAPEZOID 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: 5371.2 lumens
Efficiency: N/A
Efficacy: 98.4 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

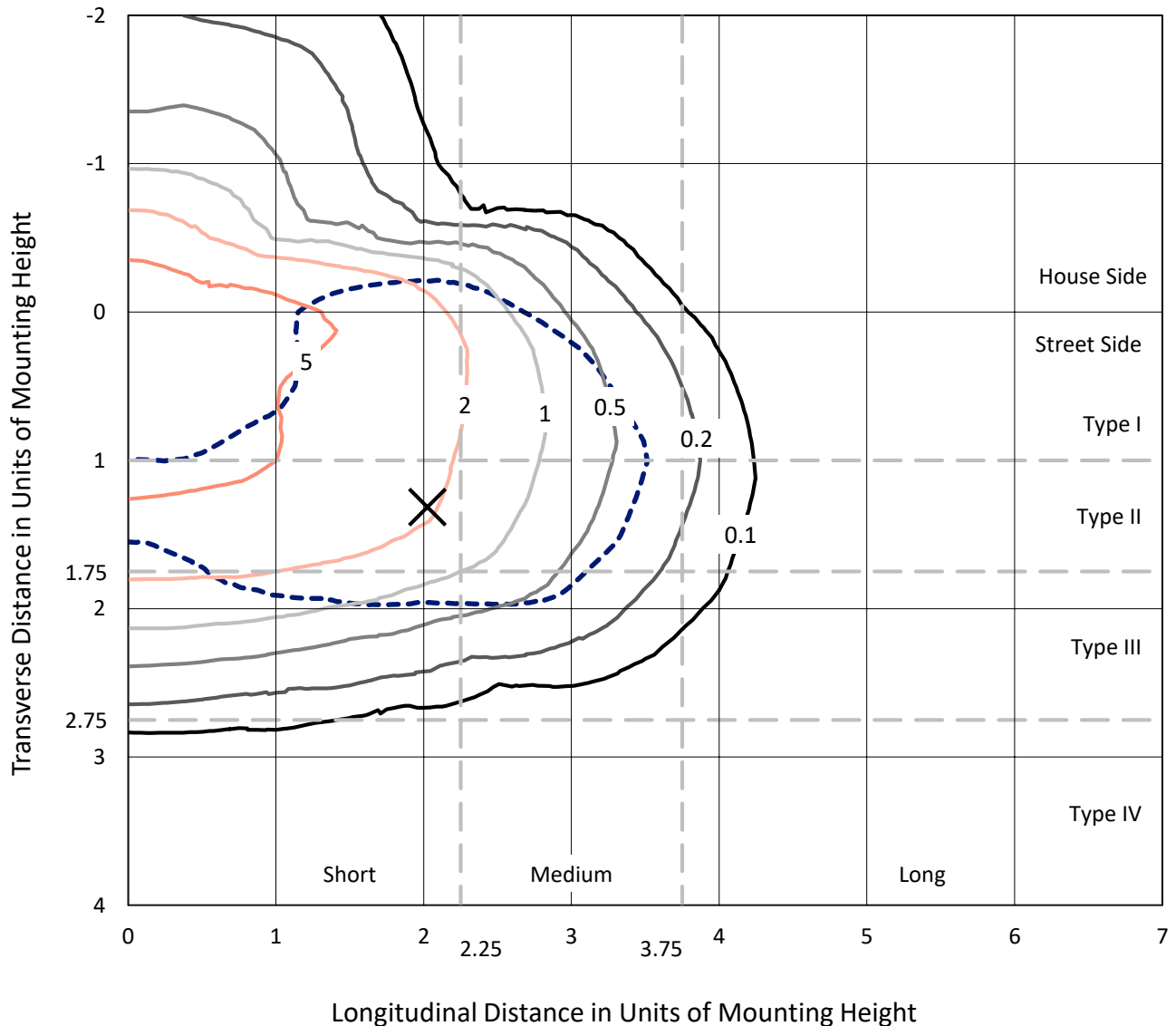
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

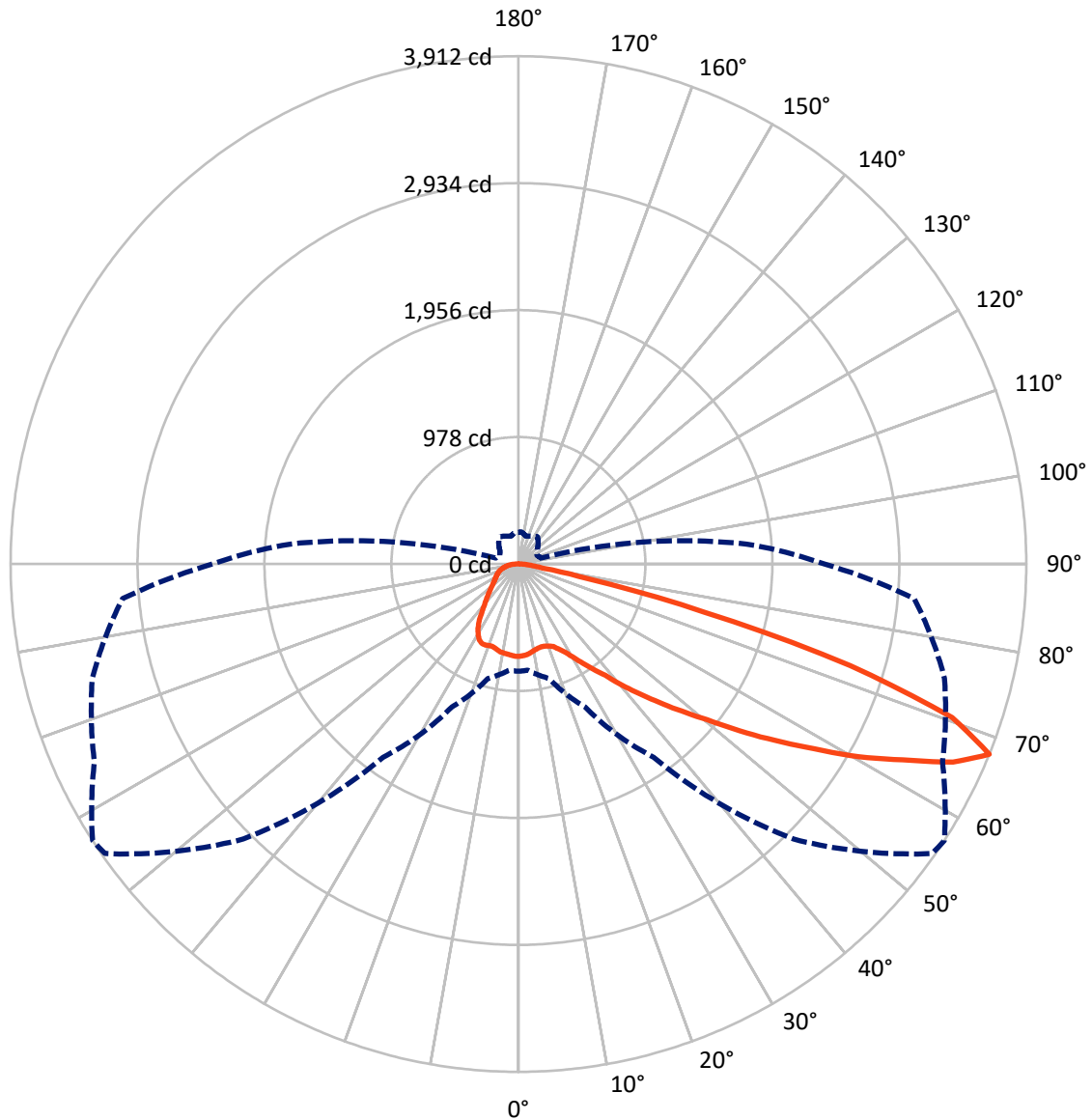
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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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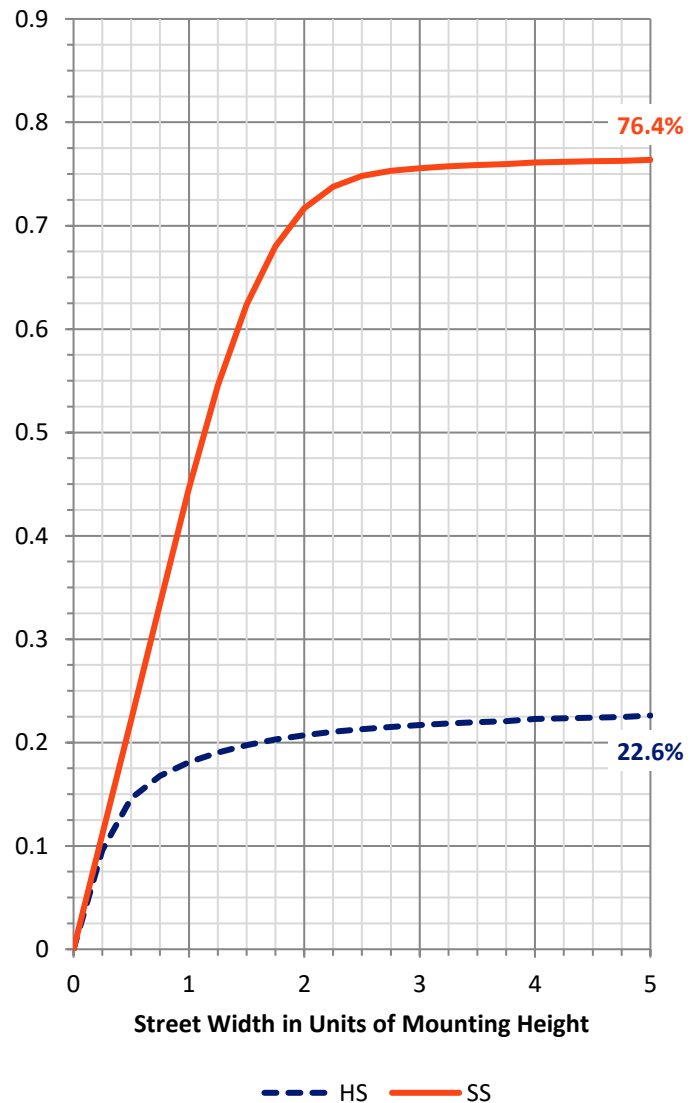
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.0	1.6	1251.5
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4119.3	0.4	4119.7
	% Fixture	76.7	0.0	76.7
Total	Lumens	5369.2	2.0	5371.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.2
10°-20°	191.3	3.6
20°-30°	329.3	6.1
30°-40°	535.4	10.0
40°-50°	863.6	16.1
50°-60°	1287.4	24.0
60°-70°	1450.0	27.0
70°-80°	559.0	10.4
80°-90°	86.6	1.6
90°-100°	2.0	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°	5369.2	100.0
0°-180°	5371.2	100.0



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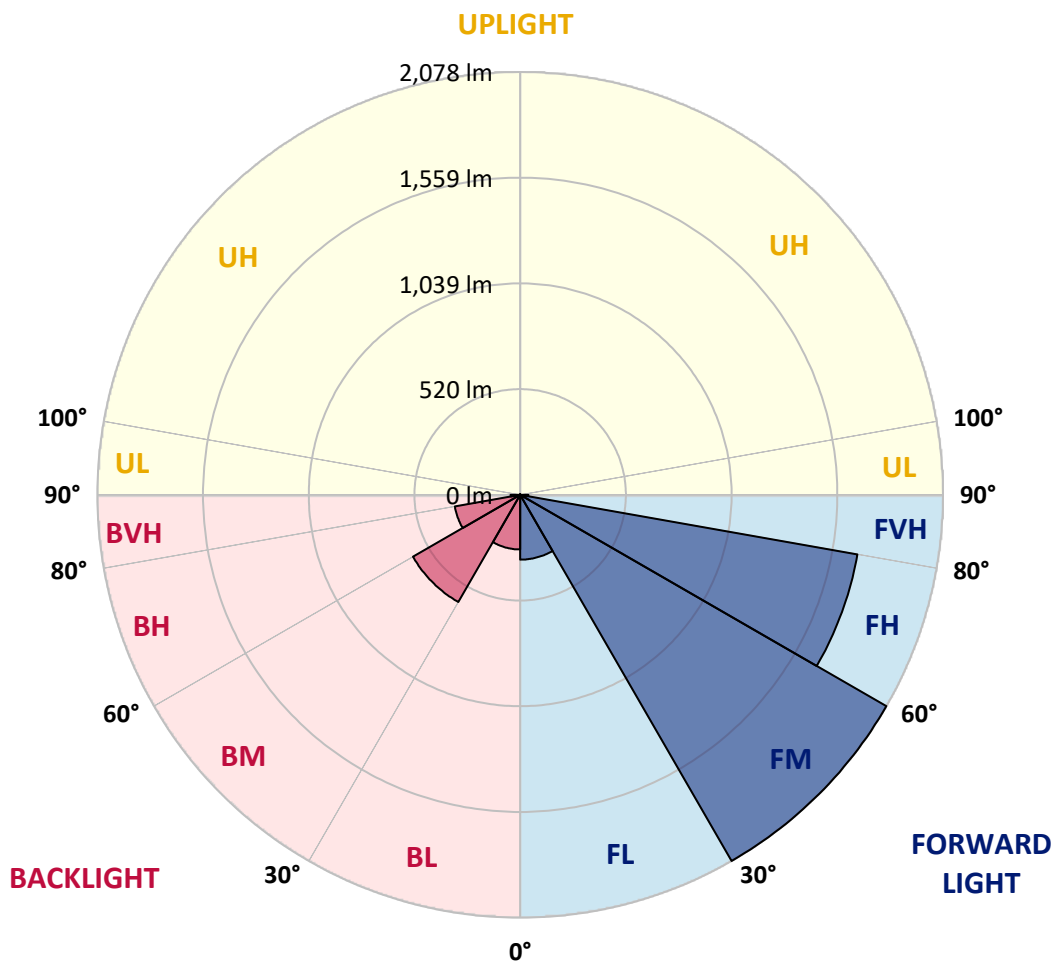
CATALOG NUMBER: IST-AF-1000-LED-E1-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.6	5.9			
FM	(30°-60°)	2078.0	38.7			
FH	(60°-80°)	1682.9	31.3			G1/1800
FVH	(80°-90°)	39.8	0.7			G1/100
BL	(0°-30°)	268.6	5.0	B1/500		
BM	(30°-60°)	608.4	11.3	B1/1000		
BH	(60°-80°)	326.2	6.1	B1/500		G1/500
BVH	(80°-90°)	46.9	0.9			G1/100
UL	(90°-100°)	2.0	0.0		U1/10	
UH	(100°-180°)	1.6	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°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	706.3	707.9	709.5	708.7	708.7	708.7	708.7	707.1	709.5	709.5	707.9
5°	694.7	695.4	696.2	697.8	699.3	700.9	701.7	701.7	702.5	701.7	700.1
7.5°	677.6	678.3	681.4	681.4	683.0	686.1	687.7	689.2	691.6	691.6	690.8
10°	672.1	672.1	672.1	669.8	671.3	672.1	674.4	674.4	680.7	683.8	685.3
12.5°	678.3	677.6	677.6	671.3	665.9	663.6	665.9	666.7	673.7	678.3	681.4
15°	692.3	692.3	690.8	681.4	670.6	662.0	661.2	661.2	666.7	673.7	679.1
17.5°	725.0	728.1	717.2	702.5	684.6	670.6	665.1	664.3	668.2	673.7	679.1
20°	787.2	786.5	770.1	743.7	712.6	689.2	676.0	674.4	673.7	676.8	683.0
22.5°	861.1	858.0	838.6	805.1	762.3	719.6	693.9	690.8	684.6	686.9	695.4
25°	940.5	941.3	917.2	873.6	819.9	768.6	729.7	726.6	713.3	711.8	721.1
27.5°	1019.8	1030.0	997.3	956.0	892.3	830.8	774.0	769.4	757.7	753.8	763.1
30°	1135.7	1131.9	1091.4	1037.7	973.9	896.9	842.5	833.9	810.6	816.0	826.1
32.5°	1233.8	1242.3	1205.8	1142.0	1058.0	977.1	914.0	909.4	886.8	893.0	907.0
35°	1353.6	1373.8	1325.6	1247.0	1166.1	1082.8	1007.4	994.9	977.1	989.5	1000.4
37.5°	1490.5	1500.6	1463.2	1362.1	1279.7	1192.5	1107.0	1087.5	1068.1	1093.7	1113.2
40°	1621.2	1637.5	1589.3	1503.7	1408.0	1324.8	1231.4	1227.5	1182.4	1210.4	1261.0
42.5°	1814.9	1835.1	1758.1	1658.5	1572.2	1471.8	1383.1	1362.1	1313.1	1352.8	1437.6
45°	1950.2	1949.4	1897.3	1814.9	1762.0	1664.7	1544.9	1520.0	1467.1	1520.0	1633.6
47.5°	1999.2	2010.9	1993.0	1982.9	1964.2	1893.4	1716.8	1693.5	1643.7	1722.3	1827.3
50°	2071.6	2068.5	2068.5	2130.7	2184.4	2169.6	1918.3	1884.9	1832.8	1926.9	2077.8
52.5°	2090.2	2062.2	2105.8	2224.8	2395.2	2407.6	2152.5	2133.8	2071.6	2163.4	2349.3
55°	2038.1	2031.1	2100.4	2273.0	2541.4	2630.1	2424.0	2398.3	2328.3	2406.8	2642.6
57.5°	1921.4	1939.3	2050.6	2262.9	2642.6	2826.1	2721.9	2685.3	2585.0	2632.4	2933.5
60°	1799.3	1807.9	1954.9	2227.2	2669.8	2962.3	3034.6	3013.6	2841.7	2869.7	3149.0
62.5°	1663.9	1643.7	1796.2	2197.6	2639.4	3149.7	3338.0	3321.7	3118.6	3110.1	3302.2
65°	1285.9	1313.9	1443.8	1816.4	2431.7	3296.0	3699.7	3678.7	3427.5	3308.4	3285.9
67.5°	826.1	820.7	912.5	1214.3	1817.2	2995.7	3888.8	3912.1	3604.0	3397.9	3060.3
70°	296.4	304.9	339.2	551.5	996.5	1996.1	3428.2	3544.1	3474.1	3230.7	2490.9
72.5°	180.5	180.5	205.4	248.2	403.7	946.7	2443.4	2672.9	2835.5	2662.0	1839.8
75°	141.6	140.8	149.4	171.1	217.8	310.4	1299.1	1476.5	1818.7	1839.0	1047.1
77.5°	112.0	111.2	119.8	129.9	162.6	164.1	414.6	539.9	834.7	785.7	374.2
80°	90.2	89.5	95.7	98.8	119.0	113.6	166.5	192.9	292.5	256.7	161.8
82.5°	81.7	81.7	87.9	75.5	82.5	80.1	103.5	110.5	147.0	152.5	97.2
85°	52.9	54.5	82.5	73.1	53.7	49.0	66.1	70.0	91.8	100.4	47.5
87.5°	24.9	27.2	63.0	60.7	35.8	26.4	37.3	39.7	49.8	61.5	28.0
90°	4.7	4.7	7.8	8.6	4.7	4.7	6.2	5.4	5.4	7.8	7.8
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
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°	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8	711.8
2.5°	710.2	708.7	709.5	710.2	711.0	713.3	714.1	714.1	714.1	713.3	714.9
5°	701.7	700.1	700.1	702.5	704.8	707.9	712.6	716.5	718.0	718.8	718.8
7.5°	692.3	690.8	691.6	695.4	699.3	701.7	706.3	708.7	714.9	714.9	716.5
10°	686.1	687.7	688.4	692.3	695.4	695.4	694.7	693.1	691.6	695.4	693.9
12.5°	682.2	684.6	683.8	688.4	690.0	683.8	674.4	662.0	660.4	662.0	663.6
15°	680.7	680.7	683.0	683.0	675.2	662.8	651.1	651.9	653.4	658.1	658.1
17.5°	680.7	681.4	683.0	677.6	663.6	652.7	650.3	648.0	639.4	637.1	634.8
20°	686.1	684.6	686.1	676.0	663.6	655.0	637.1	620.0	603.7	596.7	593.5
22.5°	699.3	697.0	696.2	686.1	670.6	641.8	606.8	580.3	552.3	543.0	539.9
25°	722.7	721.9	716.5	709.5	665.9	609.9	565.5	523.5	493.2	476.9	477.6
27.5°	763.9	763.9	760.8	729.7	641.8	570.2	510.3	467.5	436.4	420.8	418.5
30°	826.1	827.7	829.2	735.1	603.7	511.9	449.6	420.8	402.2	390.5	389.7
32.5°	903.2	911.7	901.6	728.9	551.5	441.1	402.2	392.1	382.7	375.0	374.2
35°	1005.1	1028.4	964.6	704.0	493.2	392.8	373.4	366.4	359.4	353.9	354.7
37.5°	1142.0	1164.5	1005.1	662.0	418.5	365.6	357.1	346.2	335.3	323.6	322.1
40°	1303.8	1296.8	1019.1	582.7	371.8	352.4	340.7	326.7	308.1	290.9	287.8
42.5°	1465.6	1418.9	1007.4	484.6	341.5	340.7	324.4	306.5	287.8	273.0	273.0
45°	1646.8	1526.3	971.6	392.8	317.4	328.3	308.1	289.4	272.3	261.4	260.6
47.5°	1818.0	1626.6	912.5	327.5	293.3	311.9	295.6	278.5	262.2	252.8	250.5
50°	2018.7	1741.0	867.4	283.2	269.9	295.6	288.6	273.0	257.5	246.6	245.0
52.5°	2221.7	1852.2	833.1	252.8	248.9	283.2	285.5	276.2	259.8	238.8	237.3
55°	2434.1	1991.4	764.7	228.7	230.3	273.8	289.4	282.4	270.7	236.5	234.9
57.5°	2612.2	2119.8	644.9	212.4	215.5	266.8	290.9	277.7	264.5	238.0	235.7
60°	2751.5	2207.7	473.0	199.1	202.3	259.0	283.9	261.4	244.3	238.0	234.2
62.5°	2794.2	2210.8	314.3	183.6	192.1	245.8	271.5	252.8	232.6	235.7	234.2
65°	2686.9	2094.1	224.8	168.8	183.6	230.3	266.0	244.3	227.1	239.6	238.0
67.5°	2356.3	1764.3	180.5	157.1	171.9	213.9	255.9	236.5	222.5	248.2	243.5
70°	1835.9	1265.7	153.2	145.5	159.5	198.4	241.9	227.9	216.3	241.2	234.9
72.5°	1210.4	745.2	135.4	134.6	144.7	185.1	226.4	220.1	206.1	218.6	209.3
75°	631.7	345.4	117.5	122.1	128.4	173.5	212.4	206.1	190.6	195.3	192.1
77.5°	248.2	161.8	101.9	107.4	114.4	156.4	194.5	188.3	175.0	171.1	170.4
80°	136.1	108.9	84.8	91.8	96.5	140.8	175.8	168.8	154.8	152.5	150.1
82.5°	86.3	70.8	70.0	74.7	80.9	125.2	157.9	147.0	135.4	159.5	129.1
85°	40.5	42.0	49.8	56.0	63.0	106.6	137.7	126.0	114.4	111.2	98.8
87.5°	22.6	28.0	32.7	38.1	43.6	74.7	108.9	98.0	85.6	73.1	75.5
90°	5.4	5.4	9.3	8.6	9.3	10.9	53.7	48.2	42.8	20.2	13.2
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-1000-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)