

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: P271668

Luminaire Tested: **IST-AF-1000-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271668
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-T3-7027
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5271.8 lumens
Efficiency: N/A
Efficacy: 96.6 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

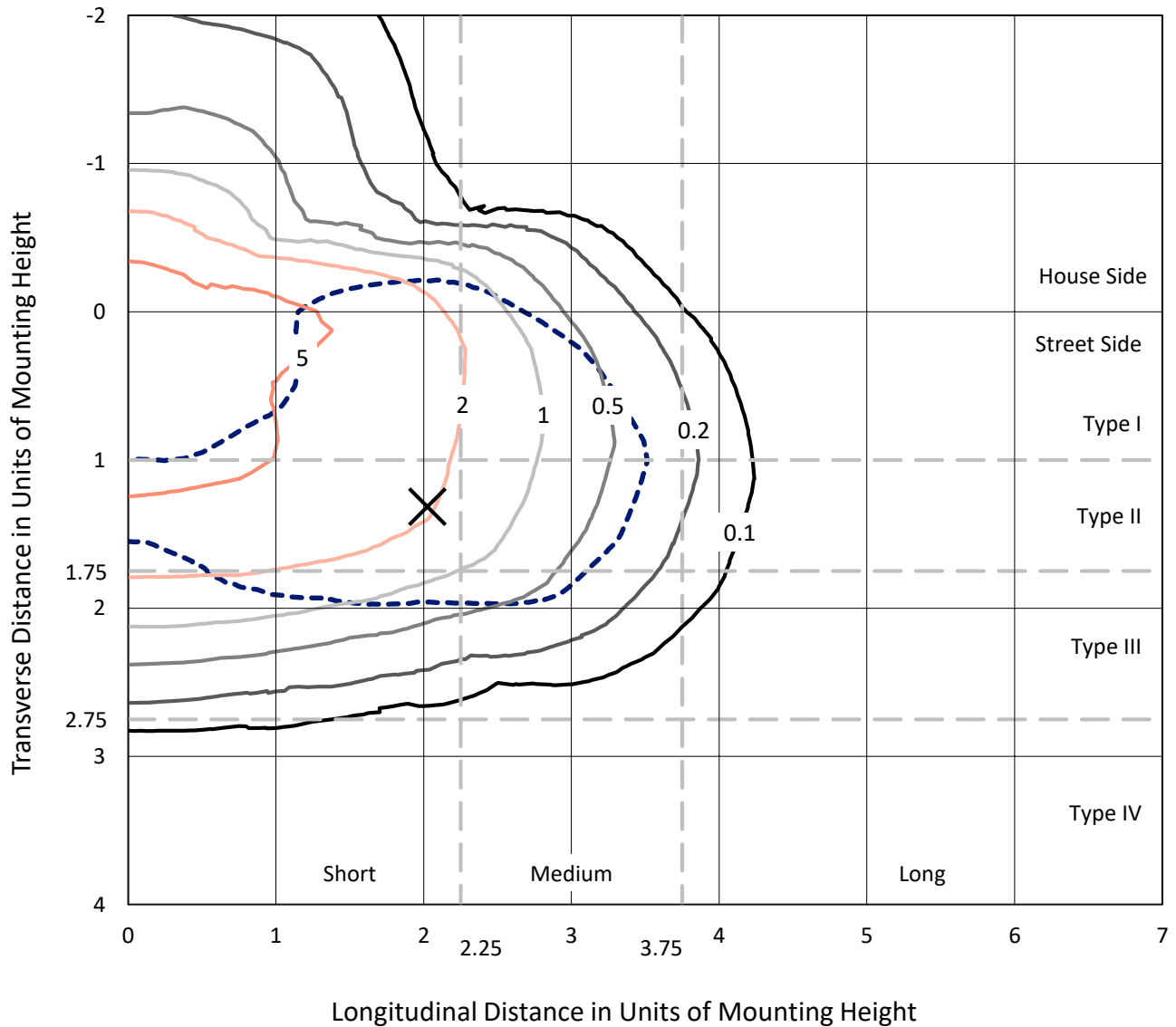
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

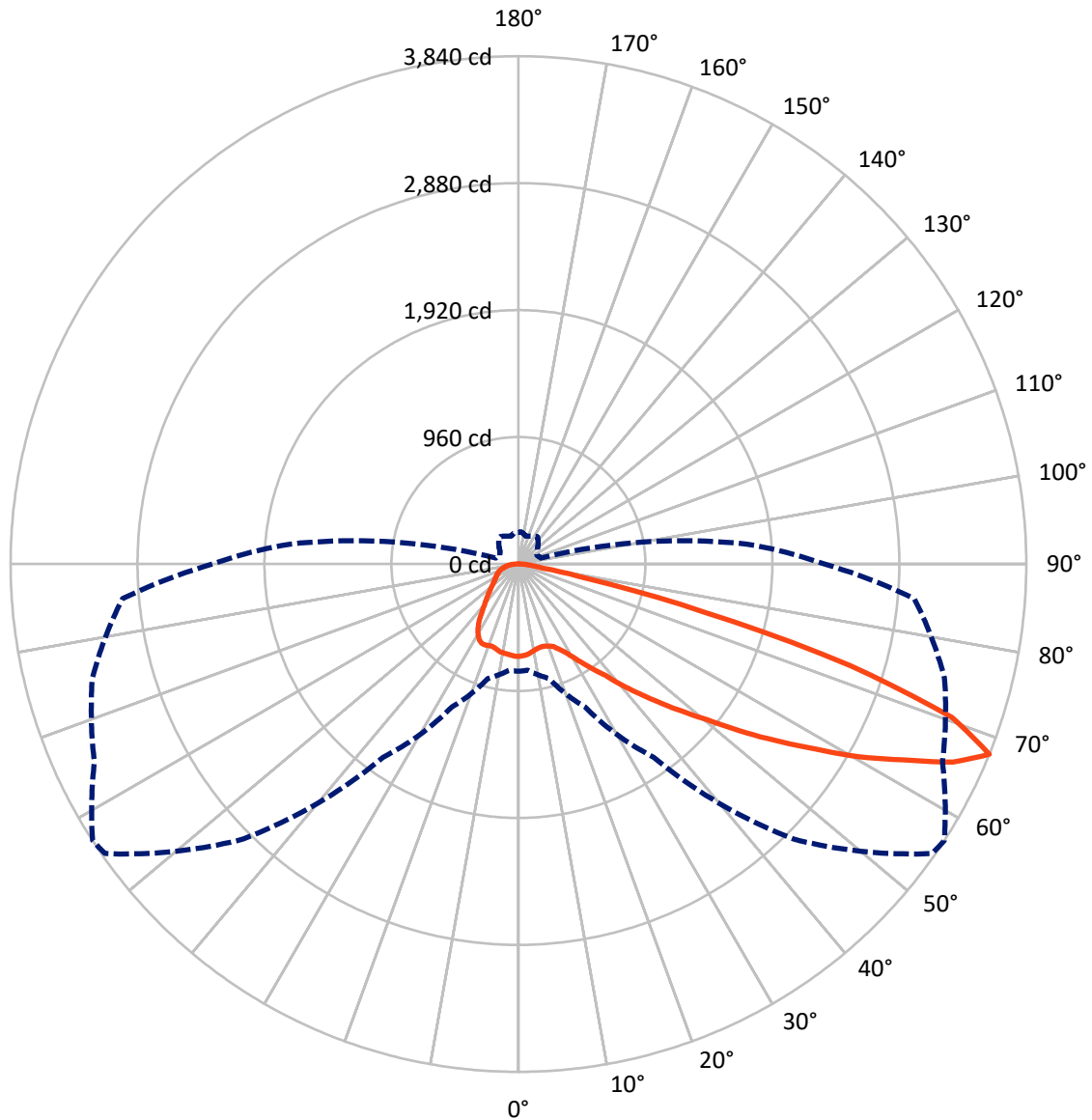
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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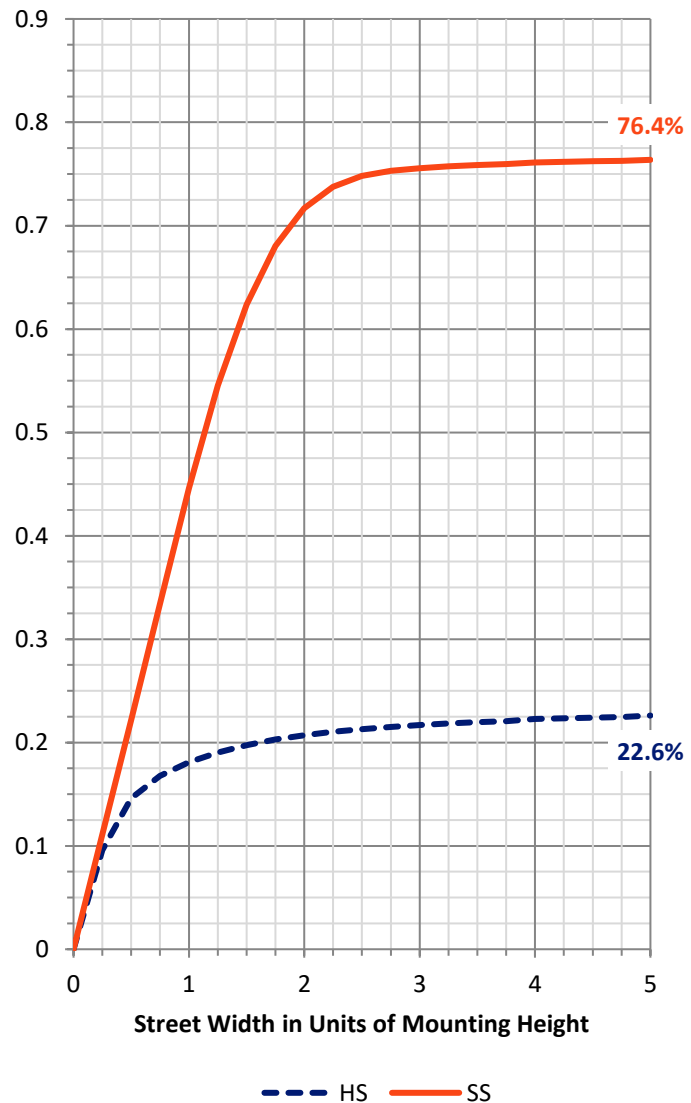
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.8	1.5	1228.3
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4043.0	0.4	4043.4
	% Fixture	76.7	0.0	76.7
Total	Lumens	5269.8	2.0	5271.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.2
10°-20°	187.8	3.6
20°-30°	323.2	6.1
30°-40°	525.4	10.0
40°-50°	847.6	16.1
50°-60°	1263.6	24.0
60°-70°	1423.1	27.0
70°-80°	548.7	10.4
80°-90°	85.0	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°	5269.8	100.0
0°-180°	5271.8	100.0



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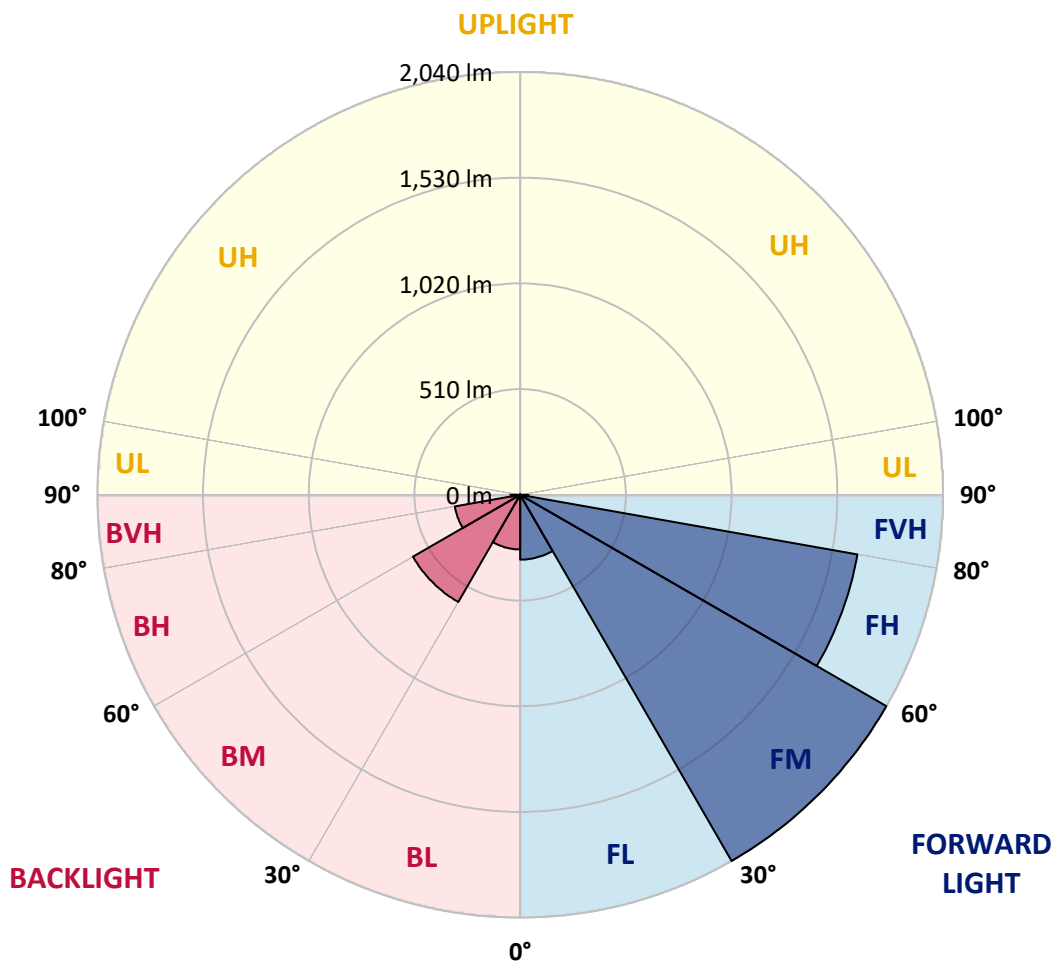
CATALOG NUMBER: IST-AF-1000-LED-E1-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.7	5.9			
FM	(30°-60°)	2039.5	38.7			
FH	(60°-80°)	1651.7	31.3			G1/1800
FVH	(80°-90°)	39.0	0.7			G1/100
BL	(0°-30°)	263.6	5.0	B1/500		
BM	(30°-60°)	597.1	11.3	B1/1000		
BH	(60°-80°)	320.1	6.1	B1/500		G1/500
BVH	(80°-90°)	46.0	0.9			G1/100
UL	(90°-100°)	2.0	0.0		U1/10	
UH	(100°-180°)	1.5	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°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	693.2	694.7	696.4	695.6	695.6	695.6	695.6	694.0	696.4	696.4	694.7
5°	681.8	682.5	683.3	684.9	686.3	687.9	688.7	688.7	689.4	688.7	687.1
7.5°	665.0	665.7	668.8	668.8	670.3	673.4	675.0	676.4	678.8	678.8	678.0
10°	659.6	659.6	659.6	657.4	658.9	659.6	661.9	661.9	668.1	671.1	672.7
12.5°	665.7	665.0	665.0	658.9	653.6	651.3	653.6	654.3	661.2	665.7	668.8
15°	679.5	679.5	678.0	668.8	658.2	649.7	648.9	648.9	654.3	661.2	666.5
17.5°	711.5	714.6	703.9	689.4	671.9	658.2	652.8	652.0	655.9	661.2	666.5
20°	772.6	771.9	755.8	730.0	699.4	676.4	663.5	661.9	661.2	664.3	670.3
22.5°	845.1	842.1	823.0	790.1	748.2	706.2	681.1	678.0	671.9	674.2	682.5
25°	923.1	923.9	900.2	857.4	804.7	754.4	716.2	713.2	700.0	698.6	707.8
27.5°	1000.9	1011.0	978.8	938.3	875.8	815.4	759.7	755.1	743.7	739.8	749.0
30°	1114.7	1110.9	1071.2	1018.5	955.9	880.2	826.9	818.4	795.6	800.9	810.8
32.5°	1210.9	1219.3	1183.4	1120.8	1038.4	959.0	897.0	892.6	870.4	876.5	890.2
35°	1328.5	1348.4	1301.0	1223.9	1144.5	1062.8	988.8	976.5	959.0	971.2	981.8
37.5°	1462.9	1472.8	1436.1	1336.9	1256.0	1170.4	1086.5	1067.4	1048.3	1073.5	1092.6
40°	1591.2	1607.2	1559.9	1475.8	1382.0	1300.3	1208.6	1204.8	1160.5	1188.0	1237.7
42.5°	1781.2	1801.1	1725.6	1627.8	1543.1	1444.6	1357.5	1336.9	1288.8	1327.8	1411.0
45°	1914.1	1913.3	1862.2	1781.2	1729.3	1633.8	1516.2	1491.8	1439.9	1491.8	1603.4
47.5°	1962.2	1973.7	1956.1	1946.2	1927.9	1858.3	1685.0	1662.1	1613.3	1690.4	1793.5
50°	2033.2	2030.2	2030.2	2091.3	2144.0	2129.4	1882.8	1850.0	1798.9	1891.2	2039.3
52.5°	2051.5	2024.0	2066.8	2183.6	2350.9	2363.0	2112.6	2094.3	2033.2	2123.3	2305.8
55°	2000.3	1993.5	2061.5	2230.9	2494.3	2581.4	2379.1	2353.9	2285.2	2362.3	2593.7
57.5°	1885.8	1903.4	2012.7	2221.0	2593.7	2773.8	2671.5	2635.5	2537.2	2583.6	2879.2
60°	1766.0	1774.4	1918.7	2185.9	2620.4	2907.5	2978.4	2957.8	2789.1	2816.5	3090.7
62.5°	1633.1	1613.3	1762.9	2156.9	2590.5	3091.3	3276.2	3260.2	3060.9	3052.5	3241.1
65°	1262.1	1289.6	1417.1	1782.8	2386.7	3235.0	3631.2	3610.6	3364.1	3247.1	3225.1
67.5°	810.8	805.5	895.6	1191.8	1783.6	2940.2	3816.8	3839.6	3537.3	3335.0	3003.7
70°	290.9	299.2	332.9	541.3	978.1	1959.1	3364.7	3478.5	3409.8	3170.8	2444.7
72.5°	177.1	177.1	201.6	243.6	396.2	929.2	2398.1	2623.4	2782.9	2612.7	1805.8
75°	139.0	138.2	146.6	167.9	213.8	304.6	1275.1	1449.1	1785.0	1805.0	1027.8
77.5°	110.0	109.1	117.6	127.5	159.6	161.1	406.9	529.9	819.3	771.1	367.2
80°	88.6	87.9	94.0	96.9	116.8	111.5	163.4	189.4	287.1	252.0	158.8
82.5°	80.2	80.2	86.2	74.1	80.9	78.6	101.6	108.4	144.3	149.7	95.4
85°	51.9	53.4	80.9	71.8	52.7	48.1	64.9	68.7	90.1	98.5	46.6
87.5°	24.4	26.7	61.8	59.6	35.1	25.9	36.7	39.0	48.9	60.4	27.5
90°	4.6	4.6	7.6	8.4	4.6	4.6	6.1	5.3	5.3	7.6	7.6
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
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°	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6	698.6
2.5°	697.1	695.6	696.4	697.1	697.8	700.0	700.9	700.9	700.9	700.0	701.7
5°	688.7	687.1	687.1	689.4	691.8	694.7	699.4	703.2	704.7	705.5	705.5
7.5°	679.5	678.0	678.8	682.5	686.3	688.7	693.2	695.6	701.7	701.7	703.2
10°	673.4	675.0	675.6	679.5	682.5	682.5	681.8	680.3	678.8	682.5	681.1
12.5°	669.6	671.9	671.1	675.6	677.2	671.1	661.9	649.7	648.1	649.7	651.3
15°	668.1	668.1	670.3	670.3	662.7	650.6	639.1	639.9	641.3	645.9	645.9
17.5°	668.1	668.8	670.3	665.0	651.3	640.6	638.2	636.0	627.6	625.3	623.1
20°	673.4	671.9	673.4	663.5	651.3	642.8	625.3	608.5	592.5	585.7	582.6
22.5°	686.3	684.1	683.3	673.4	658.2	629.9	595.6	569.5	542.0	533.0	529.9
25°	709.3	708.5	703.2	696.4	653.6	598.6	555.1	513.8	484.1	468.1	468.7
27.5°	749.7	749.7	746.7	716.2	629.9	559.6	500.9	458.9	428.3	413.0	410.7
30°	810.8	812.3	813.9	721.5	592.5	502.4	441.2	413.0	394.7	383.3	382.5
32.5°	886.4	894.8	884.9	715.4	541.3	432.9	394.7	384.8	375.6	368.0	367.2
35°	986.5	1009.3	946.7	691.0	484.1	385.6	366.5	359.6	352.8	347.4	348.1
37.5°	1120.8	1142.9	986.5	649.7	410.7	358.9	350.5	339.8	329.0	317.6	316.1
40°	1279.6	1272.8	1000.3	572.0	364.9	345.8	334.3	320.7	302.4	285.5	282.4
42.5°	1438.5	1392.6	988.8	475.7	335.2	334.3	318.4	300.8	282.4	268.0	268.0
45°	1616.3	1498.0	953.6	385.6	311.5	322.2	302.4	284.0	267.2	256.6	255.7
47.5°	1784.3	1596.5	895.6	321.4	287.9	306.1	290.2	273.4	257.4	248.1	245.9
50°	1981.3	1708.8	851.3	277.9	264.9	290.2	283.2	268.0	252.7	242.0	240.5
52.5°	2180.5	1817.9	817.6	248.1	244.2	277.9	280.2	271.1	255.0	234.4	232.9
55°	2389.0	1954.5	750.5	224.5	226.0	268.8	284.0	277.1	265.7	232.1	230.5
57.5°	2563.9	2080.6	632.9	208.5	211.6	261.9	285.5	272.5	259.6	233.6	231.3
60°	2700.6	2166.8	464.2	195.4	198.5	254.2	278.7	256.6	239.8	233.6	229.9
62.5°	2742.4	2169.9	308.5	180.2	188.6	241.3	266.4	248.1	228.3	231.3	229.9
65°	2637.2	2055.3	220.6	165.6	180.2	226.0	261.0	239.8	222.9	235.2	233.6
67.5°	2312.7	1731.7	177.1	154.1	168.7	209.9	251.2	232.1	218.4	243.6	238.9
70°	1801.9	1242.3	150.4	142.8	156.6	194.8	237.4	223.7	212.3	236.7	230.5
72.5°	1188.0	731.4	132.9	132.1	142.0	181.6	222.2	216.0	202.3	214.5	205.4
75°	620.0	339.0	115.3	119.8	126.0	170.3	208.5	202.3	187.0	191.7	188.6
77.5°	243.6	158.8	100.0	105.4	112.3	153.5	190.9	184.8	171.8	167.9	167.3
80°	133.6	106.9	83.3	90.1	94.7	138.2	172.6	165.6	151.9	149.7	147.3
82.5°	84.7	69.5	68.7	73.3	79.4	122.9	155.0	144.3	132.9	156.6	126.8
85°	39.7	41.2	48.9	55.0	61.8	104.7	135.1	123.7	112.3	109.1	96.9
87.5°	22.2	27.5	32.1	37.4	42.8	73.3	106.9	96.2	84.0	71.8	74.1
90°	5.3	5.3	9.2	8.4	9.2	10.7	52.7	47.3	42.0	19.9	12.9
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-T3-7027

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)