

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: P226454

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)-DOWNLIGHT AND  
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-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7109.3 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 71.3  
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

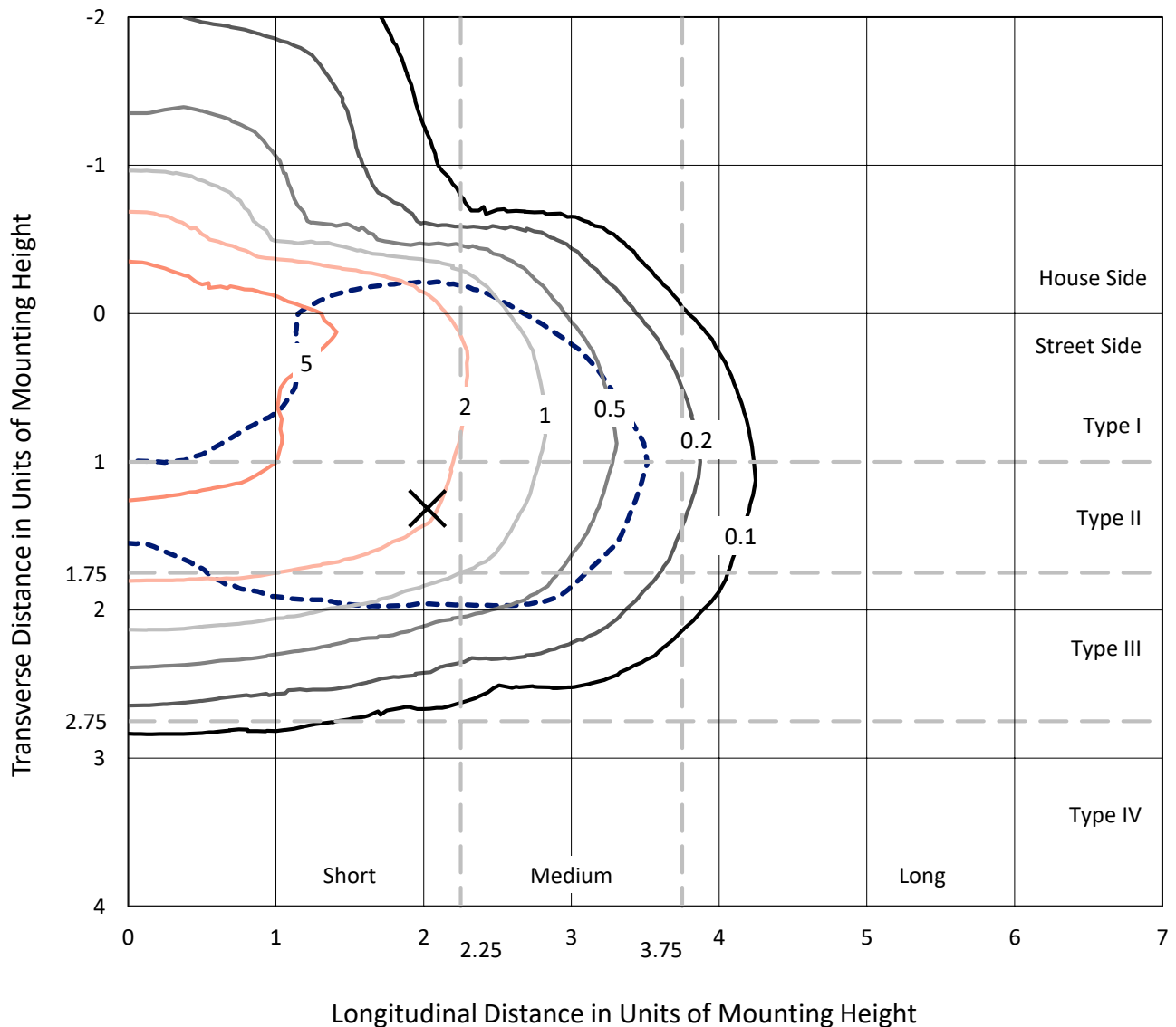


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

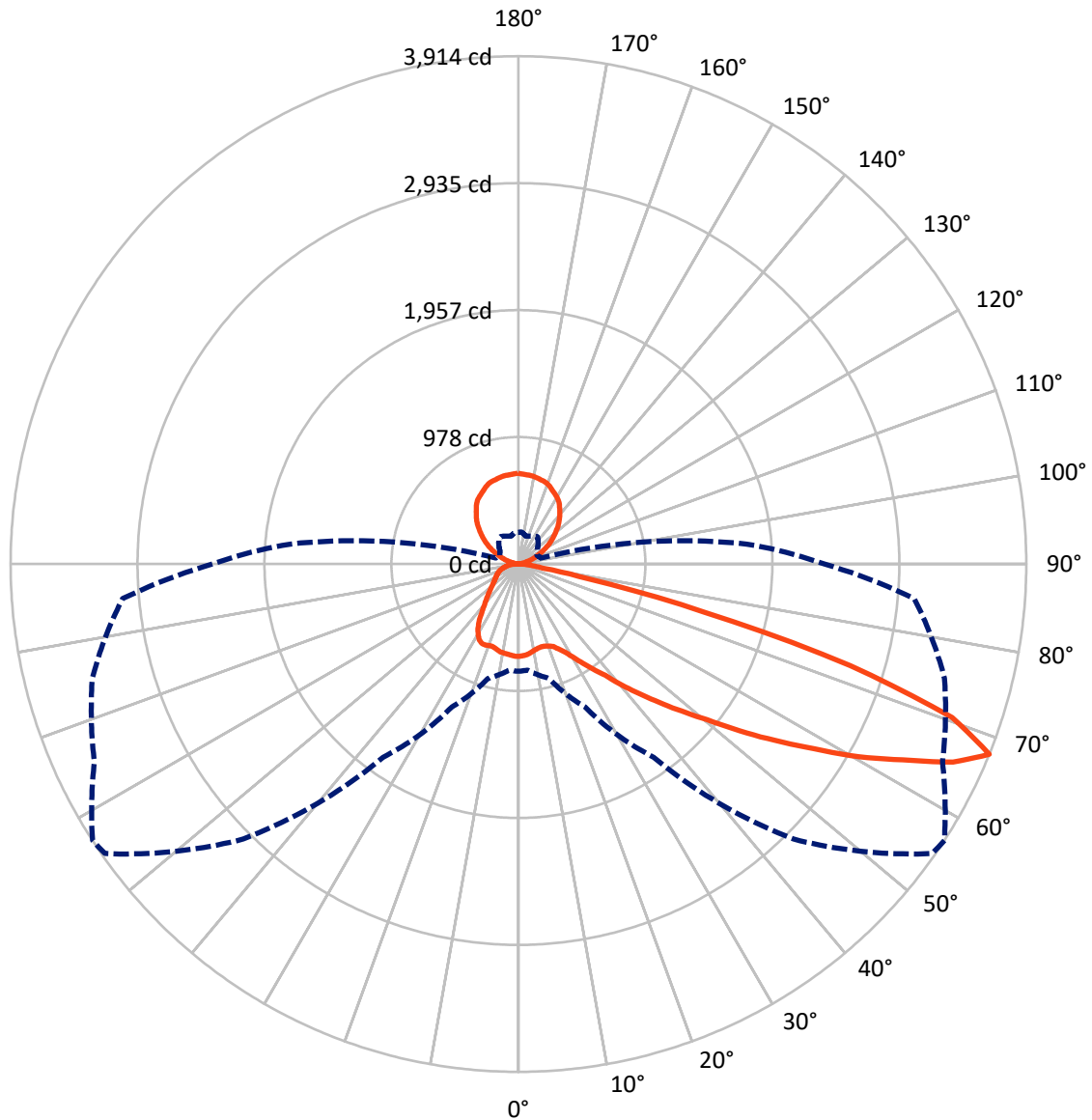


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - Non-Cutoff

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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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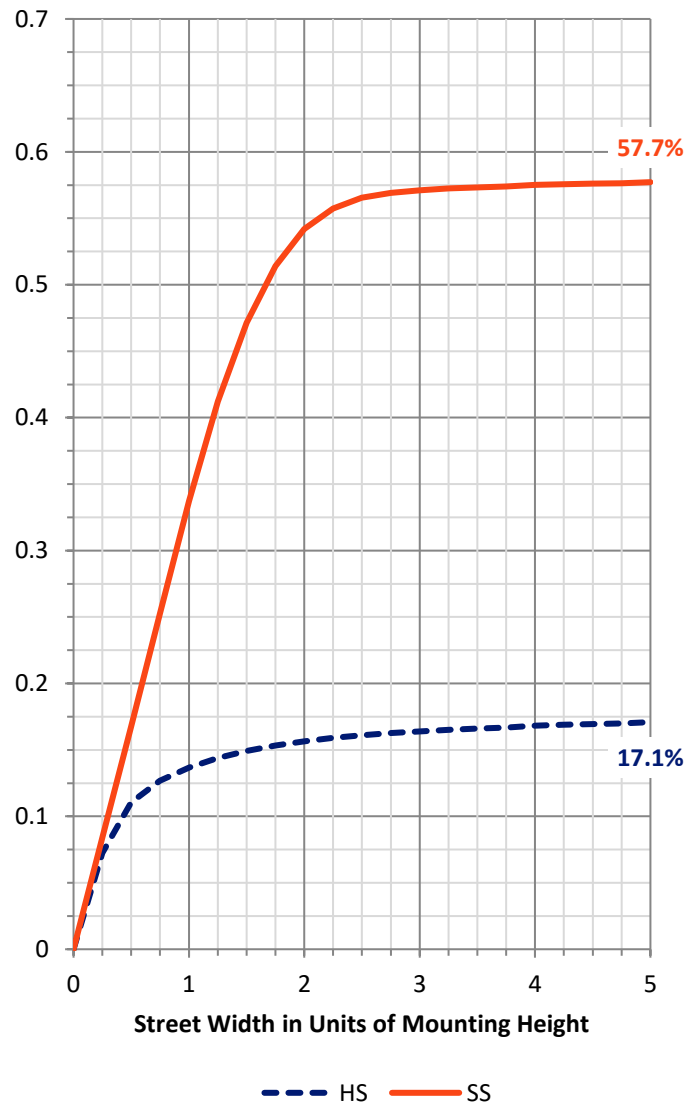
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1250.9	869.1	2120.1
	% Fixture	17.6	12.2	29.8
<b>Street Side</b>	Lumens	4121.3	868.0	4989.3
	% Fixture	58.0	12.2	70.2
<b>Total</b>	Lumens	5372.2	1737.1	7109.3
	% Fixture	75.6	24.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	0.9
10°-20°	191.4	2.7
20°-30°	329.4	4.6
30°-40°	535.6	7.5
40°-50°	863.9	12.2
50°-60°	1287.9	18.1
60°-70°	1450.5	20.4
70°-80°	559.2	7.9
80°-90°	87.7	1.2
90°-100°	11.3	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.3
120°-130°	273.2	3.8
130°-140°	336.8	4.7
140°-150°	344.6	4.8
150°-160°	290.3	4.1
160°-170°	191.2	2.7
170°-180°	66.3	0.9
0°-90°	5372.2	75.6
0°-180°	7109.3	100.0



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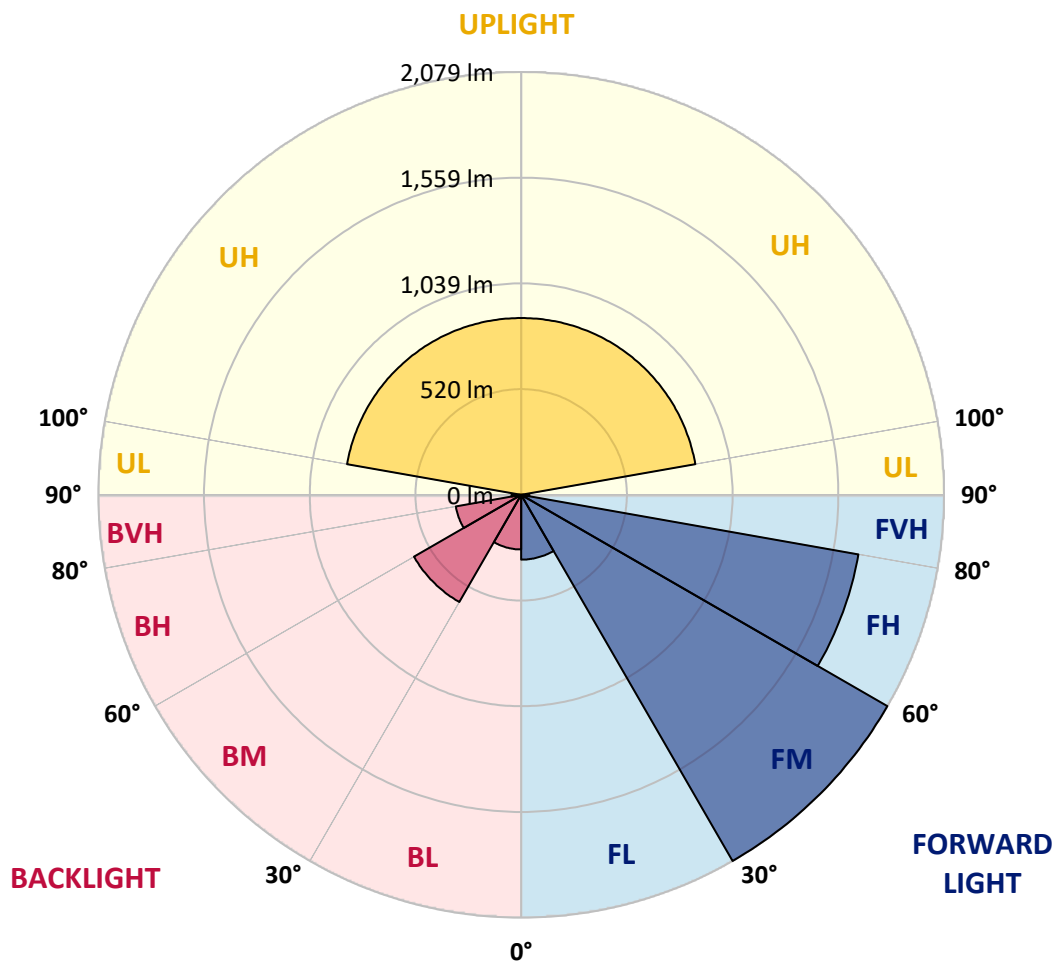
CATALOG NUMBER: IST-AF-1000-LED-E1-T3-7030-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.7	4.5			
FM	(30°-60°)	2078.8	29.2			
FH	(60°-80°)	1683.5	23.7			G1/1800
FVH	(80°-90°)	40.3	0.6			G1/100
BL	(0°-30°)	268.7	3.8	B1/500		
BM	(30°-60°)	608.6	8.6	B1/1000		
BH	(60°-80°)	326.3	4.6	B1/500		G1/500
BVH	(80°-90°)	47.4	0.7			G1/100
UL	(90°-100°)	11.3	0.2		U2/50	
UH	(100°-180°)	869.1	12.2		U4/1000	

**BUG Rating: B1-U5-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
2.5°	706.6	708.2	709.7	708.9	708.9	708.9	708.9	707.4	709.7	709.7	708.2
5°	694.9	695.7	696.5	698.0	699.6	701.2	701.9	701.9	702.7	701.9	700.4
7.5°	677.8	678.6	681.7	681.7	683.3	686.4	687.9	689.5	691.8	691.8	691.0
10°	672.4	672.4	672.4	670.0	671.6	672.4	674.7	674.7	680.9	684.0	685.6
12.5°	678.6	677.8	677.8	671.6	666.1	663.8	666.1	666.9	673.9	678.6	681.7
15°	692.6	692.6	691.0	681.7	670.8	662.2	661.5	661.5	666.9	673.9	679.4
17.5°	725.3	728.4	717.5	702.7	684.8	670.8	665.4	664.6	668.5	673.9	679.4
20°	787.5	786.8	770.4	744.0	712.8	689.5	676.3	674.7	673.9	677.0	683.3
22.5°	861.5	858.4	838.9	805.4	762.6	719.8	694.2	691.0	684.8	687.1	695.7
25°	940.8	941.6	917.5	873.9	820.2	768.9	730.0	726.8	713.6	712.1	721.4
27.5°	1020.2	1030.3	997.7	956.4	892.6	831.1	774.3	769.6	758.0	754.1	763.4
30°	1136.2	1132.3	1091.8	1038.1	974.3	897.3	842.8	834.2	810.9	816.3	826.4
32.5°	1234.2	1242.8	1206.2	1142.4	1058.3	977.4	914.4	909.7	887.1	893.4	907.4
35°	1354.1	1374.3	1326.1	1247.5	1166.5	1083.3	1007.8	995.3	977.4	989.9	1000.8
37.5°	1491.0	1501.1	1463.8	1362.6	1280.1	1193.0	1107.4	1087.9	1068.5	1094.1	1113.6
40°	1621.8	1638.1	1589.9	1504.3	1408.5	1325.3	1231.9	1228.0	1182.9	1210.9	1261.5
42.5°	1815.5	1835.8	1758.7	1659.1	1572.7	1472.4	1383.6	1362.6	1313.6	1353.3	1438.1
45°	1950.9	1950.2	1898.0	1815.5	1762.6	1665.3	1545.5	1520.6	1467.7	1520.6	1634.2
47.5°	2000.0	2011.6	1993.7	1983.6	1965.0	1894.1	1717.5	1694.1	1644.3	1722.9	1828.0
50°	2072.3	2069.2	2069.2	2131.5	2185.2	2170.4	1919.0	1885.6	1833.4	1927.6	2078.6
52.5°	2091.0	2063.0	2106.6	2225.6	2396.1	2408.5	2153.3	2134.6	2072.3	2164.2	2350.2
55°	2038.9	2031.9	2101.1	2273.9	2542.4	2631.1	2424.9	2399.2	2329.1	2407.7	2643.5
57.5°	1922.2	1940.0	2051.3	2263.8	2643.5	2827.2	2722.9	2686.3	2586.0	2633.4	2934.6
60°	1800.0	1808.5	1955.6	2228.0	2670.8	2963.4	3035.8	3014.7	2842.8	2870.8	3150.1
62.5°	1664.6	1644.3	1796.9	2198.4	2640.4	3150.9	3339.2	3322.9	3119.8	3111.2	3303.5
65°	1286.4	1314.4	1444.3	1817.1	2432.6	3297.2	3701.1	3680.1	3428.7	3309.7	3287.1
67.5°	826.4	821.0	912.8	1214.8	1817.9	2996.8	3890.2	3913.6	3605.4	3399.2	3061.4
70°	296.5	305.1	339.3	551.7	996.9	1996.9	3429.5	3545.5	3475.4	3231.9	2491.8
72.5°	180.5	180.5	205.4	248.2	403.9	947.1	2444.3	2673.9	2836.5	2663.0	1840.4
75°	141.6	140.9	149.4	171.2	217.9	310.5	1299.6	1477.0	1819.4	1839.7	1047.5
77.5°	112.1	111.3	119.8	130.0	162.6	164.2	414.8	540.1	835.0	786.0	374.3
80°	90.3	89.5	95.7	98.8	119.1	113.6	166.5	193.0	292.6	256.8	161.9
82.5°	81.7	81.7	87.9	75.5	82.5	80.2	103.5	110.5	147.1	152.5	97.3
85°	52.9	54.5	82.5	73.2	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	26.5	37.4	39.7	49.8	61.5	28.0
90°	9.7	9.7	14.8	16.6	12.7	11.7	13.2	12.8	14.4	16.8	14.8
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	6.0	6.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.2	8.0	7.0	7.0
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.6	10.0	9.0	8.0
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.4	26.0	23.0	19.0
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.4	47.0	42.0	39.0
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.6	70.0	65.0	61.0
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.8	94.0	90.0	87.0
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.2	121.0	119.0	116.0



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

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.4	150.0	149.0	147.0
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.6	182.0	179.0	177.0
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.8	215.0	210.0	208.0
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.8	250.0	245.0	243.0
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.8	283.0	278.0	276.0
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.4	315.0	310.0	310.0
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.2	346.0	346.0	345.0
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.8	381.0	381.0	379.0
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	412.0	416.0	414.0	414.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	444.0	448.0	447.0	450.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.4	475.0	476.0	481.0
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.4	502.0	504.0	509.0
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	528.2	533.0	533.0	534.0
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	557.2	562.0	561.0	558.0
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	581.0	585.0	586.0	583.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.6	600.0	603.0	606.0
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.6	614.0	618.0	623.0
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	627.0	631.0	636.0	638.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.8	648.0	650.0	650.0
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	659.2	664.0	661.0	660.0
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.8	671.0	670.0	668.0
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	673.0	677.0	680.0	678.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	679.2	684.0	688.0	688.0
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.6	689.0	694.0	696.0
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.6	692.0	694.0	696.0
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	691.0	695.0	696.0	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	695.0	699.0	701.0	698.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1	712.1
2.5°	710.5	708.9	709.7	710.5	711.3	713.6	714.4	714.4	714.4	713.6	715.2
5°	701.9	700.4	700.4	702.7	705.0	708.2	712.8	716.7	718.3	719.1	719.1
7.5°	692.6	691.0	691.8	695.7	699.6	701.9	706.6	708.9	715.2	715.2	716.7
10°	686.4	687.9	688.7	692.6	695.7	695.7	694.9	693.4	691.8	695.7	694.2
12.5°	682.5	684.8	684.0	688.7	690.3	684.0	674.7	662.2	660.7	662.2	663.8
15°	680.9	680.9	683.3	683.3	675.5	663.0	651.4	652.1	653.7	658.4	658.4
17.5°	680.9	681.7	683.3	677.8	663.8	652.9	650.6	648.2	639.7	637.3	635.0
20°	686.4	684.8	686.4	676.3	663.8	655.2	637.3	620.2	603.9	596.9	593.8
22.5°	699.6	697.3	696.5	686.4	670.8	642.0	607.0	580.5	552.5	543.2	540.1
25°	722.9	722.2	716.7	709.7	666.1	610.1	565.8	523.7	493.4	477.0	477.8
27.5°	764.2	764.2	761.1	730.0	642.0	570.4	510.5	467.7	436.6	421.0	418.7
30°	826.4	828.0	829.6	735.4	603.9	512.1	449.8	421.0	402.3	390.7	389.9
32.5°	903.5	912.0	901.9	729.2	551.7	441.2	402.3	392.2	382.9	375.1	374.3
35°	1005.4	1028.8	965.0	704.3	493.4	393.0	373.5	366.5	359.5	354.1	354.9
37.5°	1142.4	1165.0	1005.4	662.2	418.7	365.8	357.2	346.3	335.4	323.7	322.2
40°	1304.3	1297.3	1019.4	582.9	372.0	352.5	340.9	326.8	308.2	291.0	287.9
42.5°	1466.1	1419.4	1007.8	484.8	341.6	340.9	324.5	306.6	287.9	273.1	273.1
45°	1647.4	1526.8	972.0	393.0	317.5	328.4	308.2	289.5	272.4	261.5	260.7
47.5°	1818.6	1627.2	912.8	327.6	293.4	312.1	295.7	278.6	262.3	252.9	250.6
50°	2019.4	1741.6	867.7	283.3	270.0	295.7	288.7	273.1	257.6	246.7	245.1
52.5°	2222.5	1852.9	833.5	252.9	249.0	283.3	285.6	276.3	259.9	238.9	237.4
55°	2435.0	1992.2	765.0	228.8	230.3	273.9	289.5	282.5	270.8	236.6	235.0
57.5°	2613.2	2120.6	645.1	212.4	215.6	266.9	291.0	277.8	264.6	238.1	235.8
60°	2752.5	2208.5	473.1	199.2	202.3	259.1	284.0	261.5	244.4	238.1	234.2
62.5°	2795.3	2211.6	314.4	183.7	192.2	245.9	271.6	252.9	232.7	235.8	234.2
65°	2687.9	2094.9	224.9	168.9	183.7	230.3	266.1	244.4	227.2	239.7	238.1
67.5°	2357.2	1765.0	180.5	157.2	172.0	214.0	256.0	236.6	222.6	248.2	243.6
70°	1836.5	1266.1	153.3	145.5	159.5	198.4	242.0	228.0	216.3	241.2	235.0
72.5°	1210.9	745.5	135.4	134.6	144.7	185.2	226.5	220.2	206.2	218.7	209.3
75°	631.9	345.5	117.5	122.2	128.4	173.5	212.4	206.2	190.7	195.3	192.2
77.5°	248.2	161.9	101.9	107.4	114.4	156.4	194.5	188.3	175.1	171.2	170.4
80°	136.2	108.9	84.8	91.8	96.5	140.9	175.9	168.9	154.9	152.5	150.2
82.5°	86.4	70.8	70.0	74.7	80.9	125.3	158.0	147.1	135.4	159.5	129.2
85°	40.5	42.0	49.8	56.0	63.0	106.6	137.7	126.1	114.4	111.3	98.8
87.5°	22.6	28.0	32.7	38.1	43.6	74.7	108.9	98.1	85.6	73.2	75.5
90°	12.4	12.4	18.3	17.6	16.3	17.9	61.7	56.2	49.8	25.2	18.2
92.5°	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0	5.0	4.0	4.0
95°	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0	6.0	5.0	5.0
97.5°	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0	8.0	7.0	7.0
100°	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0	9.0	8.0	8.0
102.5°	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0	13.0	11.0	11.0
105°	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0	27.0	22.0	21.0
107.5°	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0	49.0	42.0	41.0
110°	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	74.0	68.0	66.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	106.0	99.0	99.0
115°	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	147.0	139.0	140.0
117.5°	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	189.0	184.0	184.0
120°	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	226.0	223.0	225.0
122.5°	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	261.0	260.0	263.0
125°	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	296.0	294.0	298.0
127.5°	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	329.0	329.0	330.0
130°	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	362.0	361.0	363.0
132.5°	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	393.0	394.0	396.0
135°	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	426.0	426.0	429.0
137.5°	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	459.0	457.0	460.0
140°	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	487.0	485.0	488.0
142.5°	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	517.0	515.0	518.0
145°	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	544.0	546.0	550.0
147.5°	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	571.0	572.0	575.0
150°	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	593.0	592.0	595.0
152.5°	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	608.0	608.0	611.0
155°	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	625.0	625.0	629.0
157.5°	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	643.0	643.0	646.0
160°	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	659.0	660.0	663.0
162.5°	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	669.0	669.0	673.0
165°	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	676.0	678.0	681.0
167.5°	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	684.0	687.0	690.0
170°	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	692.0	695.0	698.0
172.5°	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	695.0	697.0	699.0
175°	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	697.0	698.0	700.0
177.5°	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	700.0	705.0	707.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0

(END OF REPORT)