

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: P271678

Luminaire Tested: **IST-AF-1200-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271678
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-1200-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: 5999.1 lumens
Efficiency: N/A
Efficacy: 90.9 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 - G2

Input Watts (W): 66
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

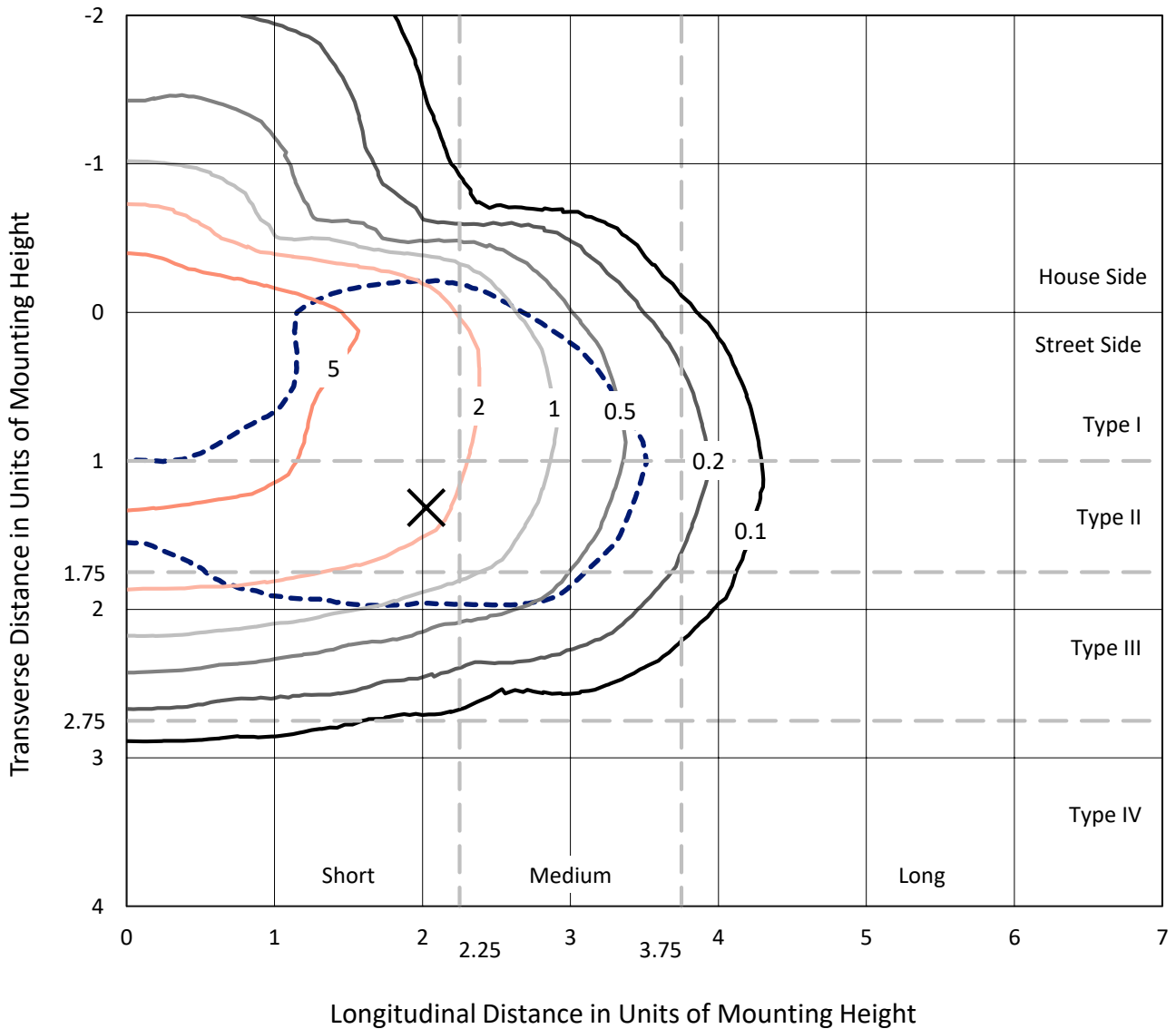


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Iso-Footcandle Lines of Horizontal Illumination

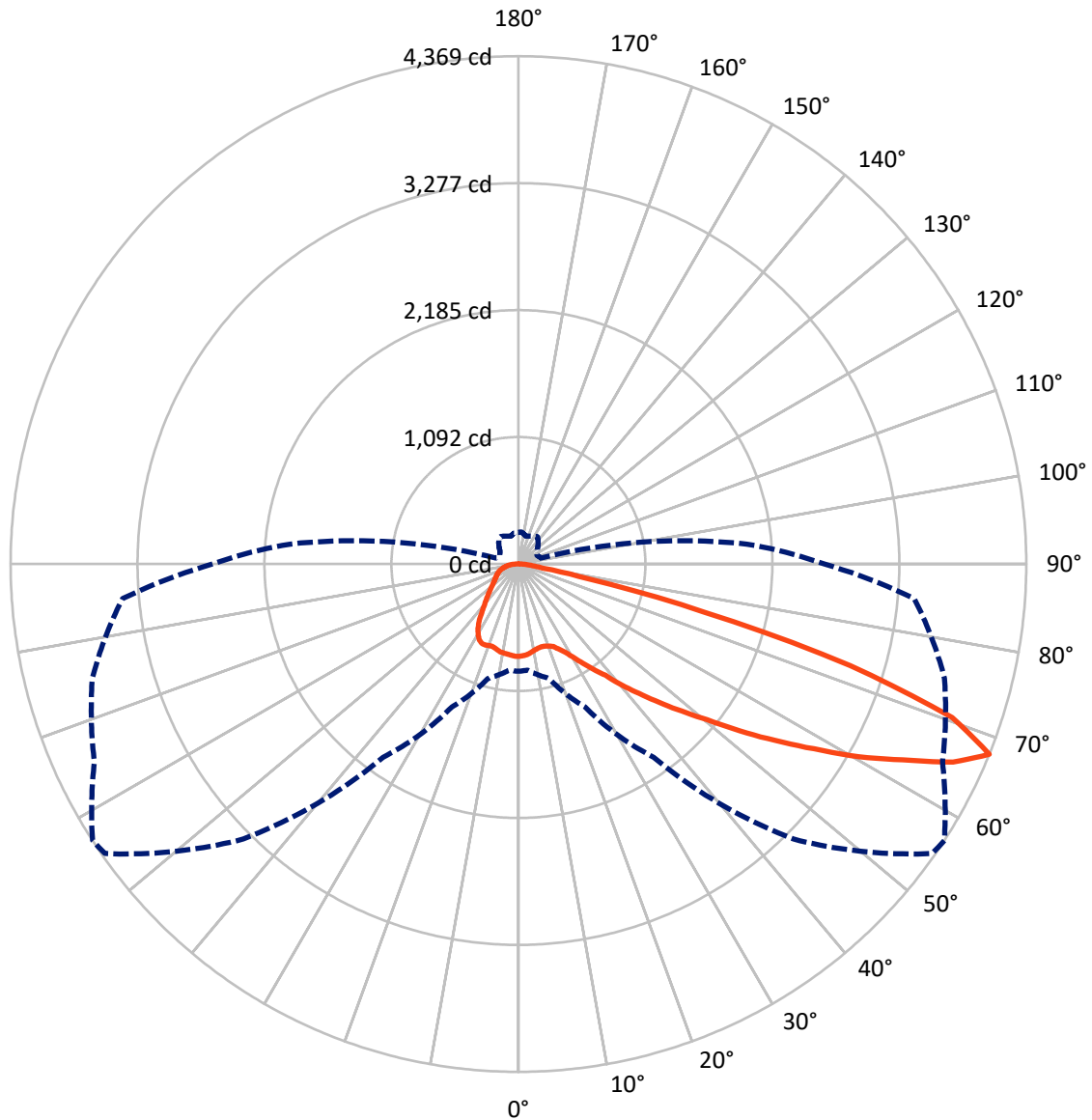
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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	1396.1	1.8	1397.8
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4600.8	0.5	4601.3
	% Fixture	76.7	0.0	76.7
Total	Lumens	5996.9	2.2	5999.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.2
10°-20°	213.7	3.6
20°-30°	367.8	6.1
30°-40°	597.9	10.0
40°-50°	964.5	16.1
50°-60°	1438.0	24.0
60°-70°	1619.5	27.0
70°-80°	624.4	10.4
80°-90°	96.8	1.6
90°-100°	2.2	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°	5996.9	100.0
0°-180°	5999.1	100.0



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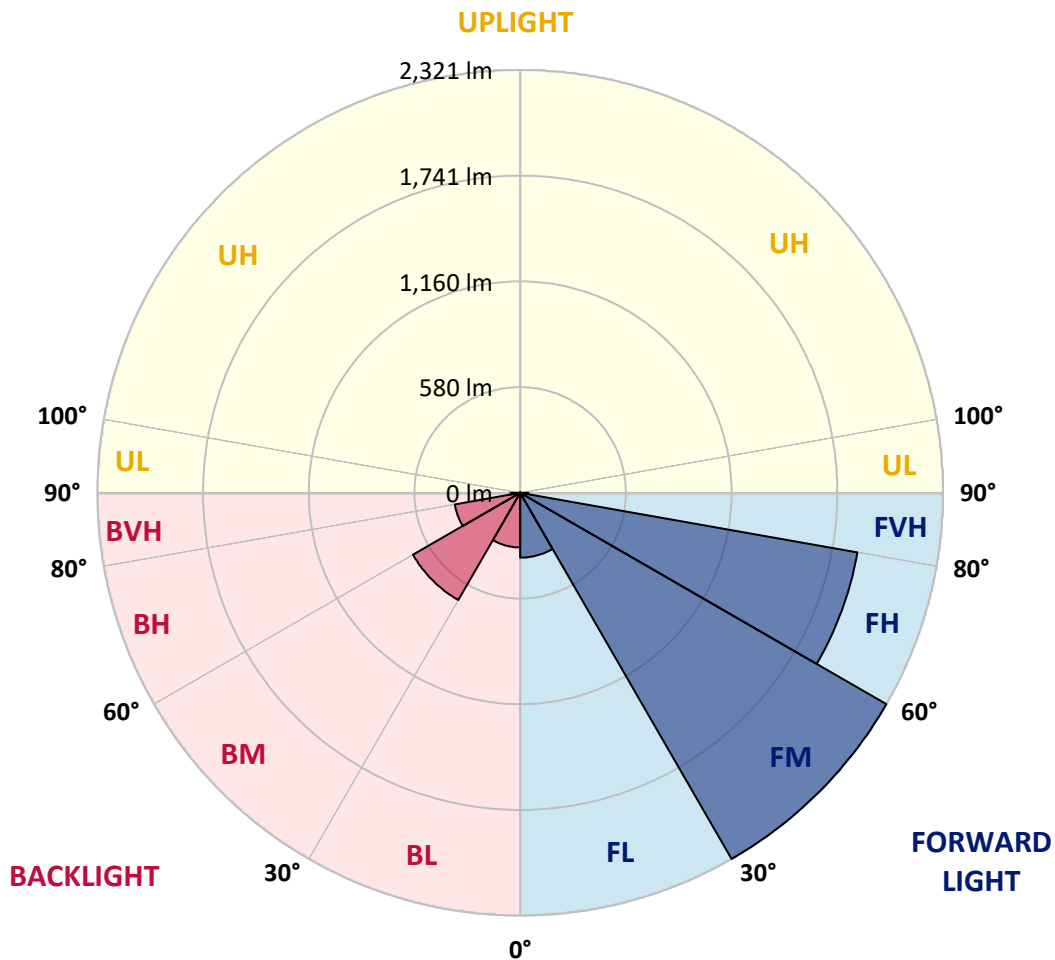
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.9	5.9			
FM	(30°-60°)	2320.9	38.7			
FH	(60°-80°)	1879.6	31.3			G2/5000
FVH	(80°-90°)	44.4	0.7			G1/100
BL	(0°-30°)	300.0	5.0	B1/500		
BM	(30°-60°)	679.5	11.3	B1/1000		
BH	(60°-80°)	364.3	6.1	B1/500		G1/500
BVH	(80°-90°)	52.3	0.9			G1/100
UL	(90°-100°)	2.2	0.0		U1/10	
UH	(100°-180°)	1.8	0.0		U1/10	

BUG Rating: B1-U1-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0
2.5°	788.9	790.7	792.3	791.6	791.6	791.6	791.6	789.8	792.3	792.3	790.7
5°	775.9	776.8	777.7	779.4	781.1	782.9	783.7	783.7	784.6	783.7	782.0
7.5°	756.7	757.6	761.1	761.1	762.8	766.3	768.1	769.8	772.5	772.5	771.6
10°	750.6	750.6	750.6	748.1	749.8	750.6	753.3	753.3	760.2	763.6	765.4
12.5°	757.6	756.7	756.7	749.8	743.8	741.1	743.8	744.7	752.4	757.6	761.1
15°	773.4	773.4	771.6	761.1	749.0	739.3	738.6	738.6	744.7	752.4	758.5
17.5°	809.7	813.2	801.1	784.6	764.5	749.0	742.9	742.0	746.3	752.4	758.5
20°	879.4	878.5	860.1	830.7	795.9	769.8	755.0	753.3	752.4	755.9	762.8
22.5°	961.8	958.3	936.7	899.2	851.4	803.6	775.0	771.6	764.5	767.2	776.8
25°	1050.5	1051.3	1024.3	975.6	915.7	858.4	815.0	811.5	796.8	795.0	805.4
27.5°	1139.1	1150.4	1113.9	1067.8	996.6	927.9	864.5	859.3	846.2	841.9	852.3
30°	1268.6	1264.2	1219.0	1159.0	1087.8	1001.8	941.0	931.5	905.3	911.4	922.6
32.5°	1378.0	1387.5	1346.6	1275.4	1181.6	1091.4	1020.9	1015.6	990.5	997.5	1013.1
35°	1511.8	1534.3	1480.6	1392.7	1302.5	1209.5	1125.1	1111.2	1091.4	1105.2	1117.3
37.5°	1664.6	1676.0	1634.3	1521.4	1429.2	1332.0	1236.3	1214.7	1192.9	1221.5	1243.3
40°	1810.6	1828.9	1775.1	1679.5	1572.7	1479.7	1375.3	1371.0	1320.7	1351.9	1408.5
42.5°	2027.0	2049.7	1963.5	1852.3	1756.0	1643.9	1544.8	1521.4	1466.7	1510.9	1605.6
45°	2178.2	2177.3	2119.1	2027.0	1968.0	1859.3	1725.6	1697.8	1638.7	1697.8	1824.5
47.5°	2233.0	2245.9	2226.0	2214.7	2193.8	2114.8	1917.5	1891.5	1835.9	1923.6	2040.9
50°	2313.8	2310.4	2310.4	2379.8	2439.8	2423.2	2142.5	2105.2	2047.0	2152.1	2320.7
52.5°	2334.5	2303.3	2351.9	2484.9	2675.2	2689.1	2404.1	2383.2	2313.8	2416.4	2623.9
55°	2276.3	2268.6	2345.9	2538.8	2838.6	2937.5	2707.3	2678.7	2600.4	2688.2	2951.5
57.5°	2146.1	2166.0	2290.3	2527.5	2951.5	3156.6	3040.1	2999.4	2887.2	2940.2	3276.4
60°	2009.7	2019.2	2183.4	2487.5	2981.8	3308.5	3389.3	3365.9	3173.9	3205.2	3517.1
62.5°	1858.4	1835.9	2006.2	2454.5	2948.0	3517.9	3728.2	3710.0	3483.2	3473.7	3688.2
65°	1436.2	1467.5	1612.5	2028.7	2716.0	3681.3	4132.2	4108.8	3828.1	3695.2	3670.0
67.5°	922.6	916.6	1019.1	1356.4	2029.6	3346.0	4343.3	4369.4	4025.3	3795.1	3418.1
70°	331.0	340.5	378.8	616.0	1113.0	2229.4	3829.0	3958.5	3880.3	3608.3	2782.1
72.5°	201.6	201.6	229.3	277.1	450.9	1057.3	2729.1	2985.3	3167.0	2973.2	2054.9
75°	158.1	157.2	166.8	191.2	243.4	346.7	1451.0	1649.1	2031.3	2054.0	1169.4
77.5°	125.1	124.2	133.8	145.1	181.5	183.3	463.1	603.0	932.4	877.6	417.9
80°	100.8	99.9	106.9	110.3	132.9	126.8	185.9	215.4	326.7	286.6	180.6
82.5°	91.3	91.3	98.2	84.4	92.1	89.5	115.5	123.3	164.2	170.3	108.7
85°	59.1	60.8	92.1	81.7	60.0	54.8	73.8	78.2	102.6	112.1	53.0
87.5°	27.8	30.5	70.3	67.7	40.0	29.6	41.7	44.3	55.7	68.6	31.4
90°	5.2	5.2	8.7	9.5	5.2	5.2	7.0	6.1	6.1	8.7	8.7
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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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°	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0	795.0
2.5°	793.2	791.6	792.3	793.2	794.1	796.8	797.7	797.7	797.7	796.8	798.4
5°	783.7	782.0	782.0	784.6	787.2	790.7	795.9	800.2	802.0	802.8	802.8
7.5°	773.4	771.6	772.5	776.8	781.1	783.7	788.9	791.6	798.4	798.4	800.2
10°	766.3	768.1	768.9	773.4	776.8	776.8	775.9	774.1	772.5	776.8	775.0
12.5°	762.0	764.5	763.6	768.9	770.7	763.6	753.3	739.3	737.7	739.3	741.1
15°	760.2	760.2	762.8	762.8	754.1	740.2	727.2	728.1	729.9	735.0	735.0
17.5°	760.2	761.1	762.8	756.7	741.1	729.0	726.4	723.8	714.2	711.5	709.0
20°	766.3	764.5	766.3	755.0	741.1	731.6	711.5	692.4	674.2	666.5	662.9
22.5°	781.1	778.5	777.7	766.3	749.0	716.8	677.7	648.1	616.9	606.4	603.0
25°	807.1	806.3	800.2	792.3	743.8	681.2	631.7	584.8	550.8	532.7	533.4
27.5°	853.2	853.2	849.8	815.0	716.8	636.9	570.0	522.2	487.4	470.0	467.5
30°	922.6	924.4	926.2	821.1	674.2	571.7	502.2	470.0	449.2	436.1	435.3
32.5°	1008.8	1018.3	1007.0	814.1	616.0	492.6	449.2	437.9	427.4	418.8	417.9
35°	1122.5	1148.7	1077.3	786.3	550.8	438.7	417.0	409.2	401.5	395.3	396.2
37.5°	1275.4	1300.7	1122.5	739.3	467.5	408.4	398.8	386.6	374.4	361.5	359.7
40°	1456.2	1448.3	1138.2	650.7	415.3	393.5	380.5	364.9	344.1	325.0	321.4
42.5°	1636.9	1584.8	1125.1	541.3	381.4	380.5	362.3	342.3	321.4	305.0	305.0
45°	1839.4	1704.6	1085.2	438.7	354.5	366.7	344.1	323.2	304.1	291.9	291.1
47.5°	2030.5	1816.7	1019.1	365.8	327.5	348.5	330.1	311.0	292.8	282.3	279.7
50°	2254.7	1944.5	968.7	316.2	301.5	330.1	322.3	305.0	287.5	275.4	273.7
52.5°	2481.4	2068.8	930.6	282.3	278.0	316.2	318.9	308.5	290.2	266.8	265.0
55°	2718.6	2224.2	854.1	255.5	257.2	305.9	323.2	315.3	302.4	264.1	262.3
57.5°	2917.5	2367.7	720.4	237.2	240.7	298.0	325.0	310.2	295.5	265.9	263.2
60°	3073.1	2465.8	528.2	222.4	225.9	289.3	317.1	291.9	272.8	265.9	261.6
62.5°	3120.9	2469.4	351.0	205.0	214.7	274.5	303.2	282.3	259.8	263.2	261.6
65°	3001.0	2339.0	251.1	188.6	205.0	257.2	297.2	272.8	253.7	267.7	265.9
67.5°	2631.8	1970.5	201.6	175.5	192.0	238.9	285.8	264.1	248.5	277.1	272.0
70°	2050.5	1413.7	171.1	162.4	178.1	221.5	270.2	254.6	241.6	269.3	262.3
72.5°	1351.9	832.4	151.2	150.3	161.7	206.8	252.9	245.9	230.2	244.2	233.6
75°	705.5	385.7	131.2	136.5	143.4	193.8	237.2	230.2	212.9	218.1	214.7
77.5°	277.1	180.6	113.8	119.9	127.6	174.6	217.2	210.2	195.5	191.2	190.4
80°	152.0	121.6	94.7	102.6	107.8	157.2	196.4	188.6	172.9	170.3	167.7
82.5°	96.5	79.1	78.2	83.5	90.4	139.9	176.3	164.2	151.2	178.1	144.3
85°	45.2	46.9	55.7	62.5	70.3	119.0	153.8	140.8	127.6	124.2	110.3
87.5°	25.2	31.4	36.5	42.6	48.7	83.5	121.6	109.4	95.6	81.7	84.4
90°	6.1	6.1	10.4	9.5	10.4	12.1	60.0	53.9	47.8	22.5	14.7
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-1200-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)