

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: P226489

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226489  
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  
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: 7063.4 lumens  
Efficiency: N/A  
Efficacy: 107.0 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

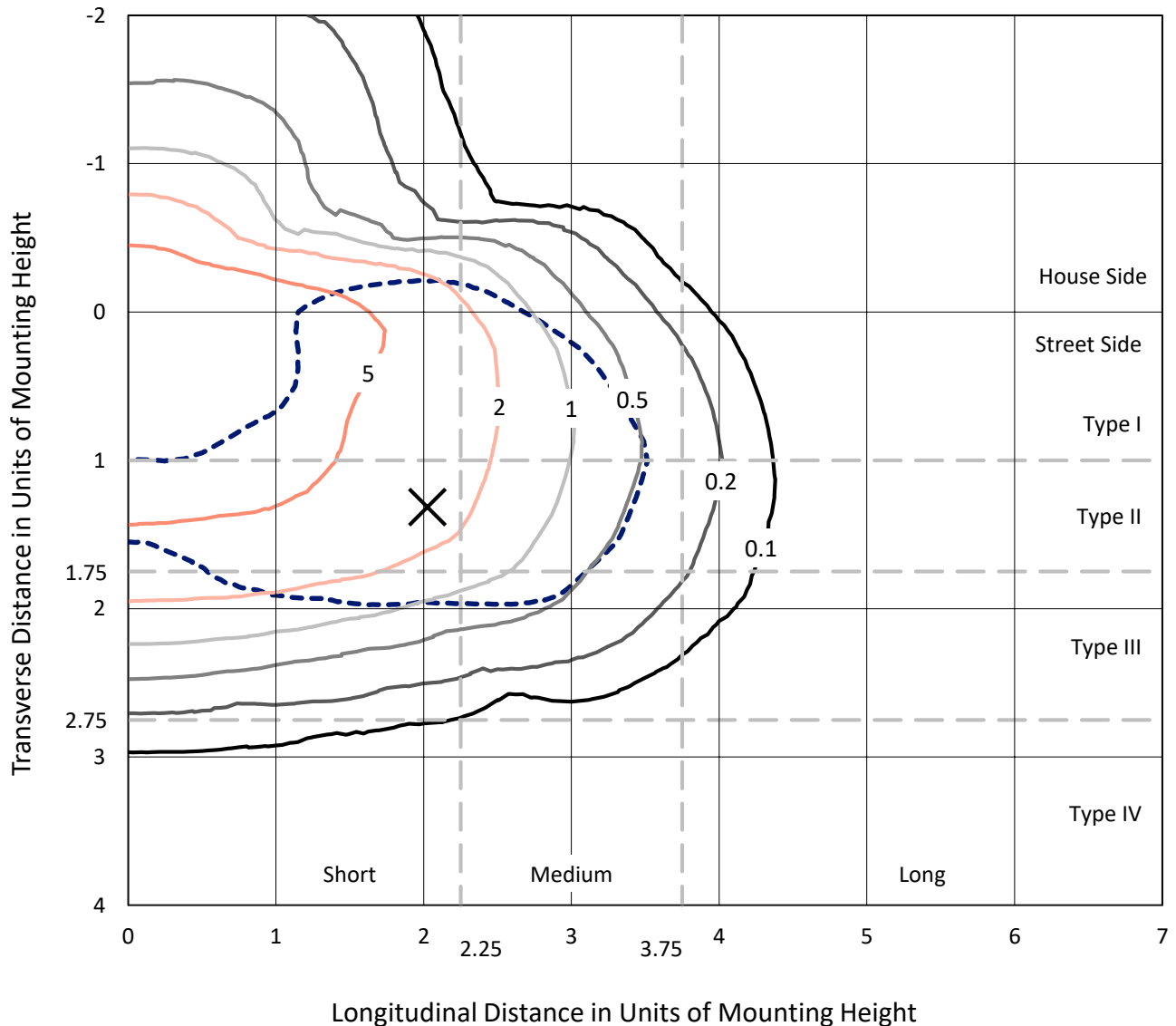


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

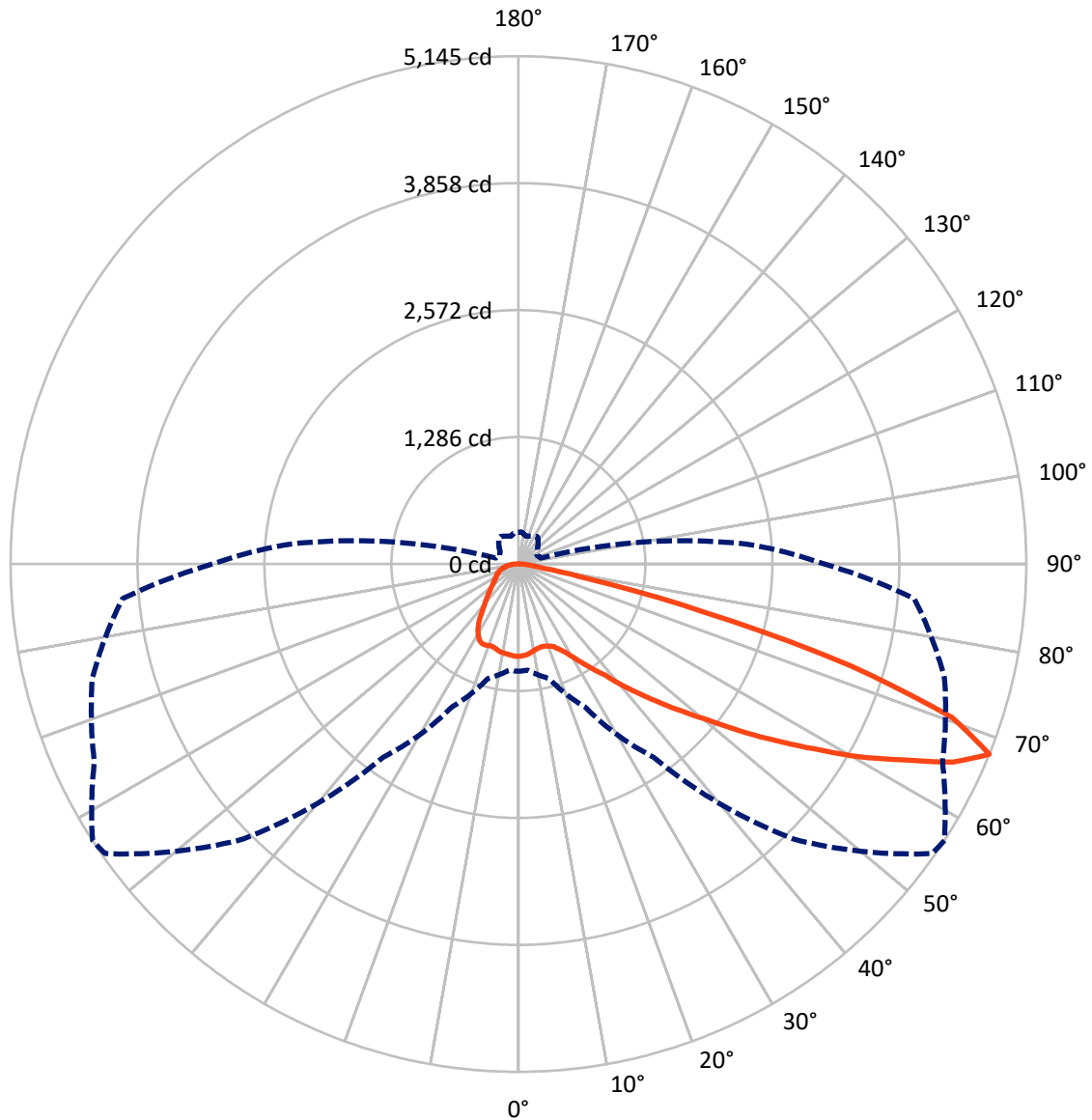


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - Cutoff

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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
<b>House Side</b>	Lumens	1643.7	2.1	1645.8
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	5417.1	0.6	5417.6
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	7060.8	2.6	7063.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	1.2
10°-20°	251.6	3.6
20°-30°	433.0	6.1
30°-40°	704.0	10.0
40°-50°	1135.6	16.1
50°-60°	1693.1	24.0
60°-70°	1906.8	27.0
70°-80°	735.1	10.4
80°-90°	113.9	1.6
90°-100°	2.6	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°	7060.8	100.0
0°-180°	7063.4	100.0



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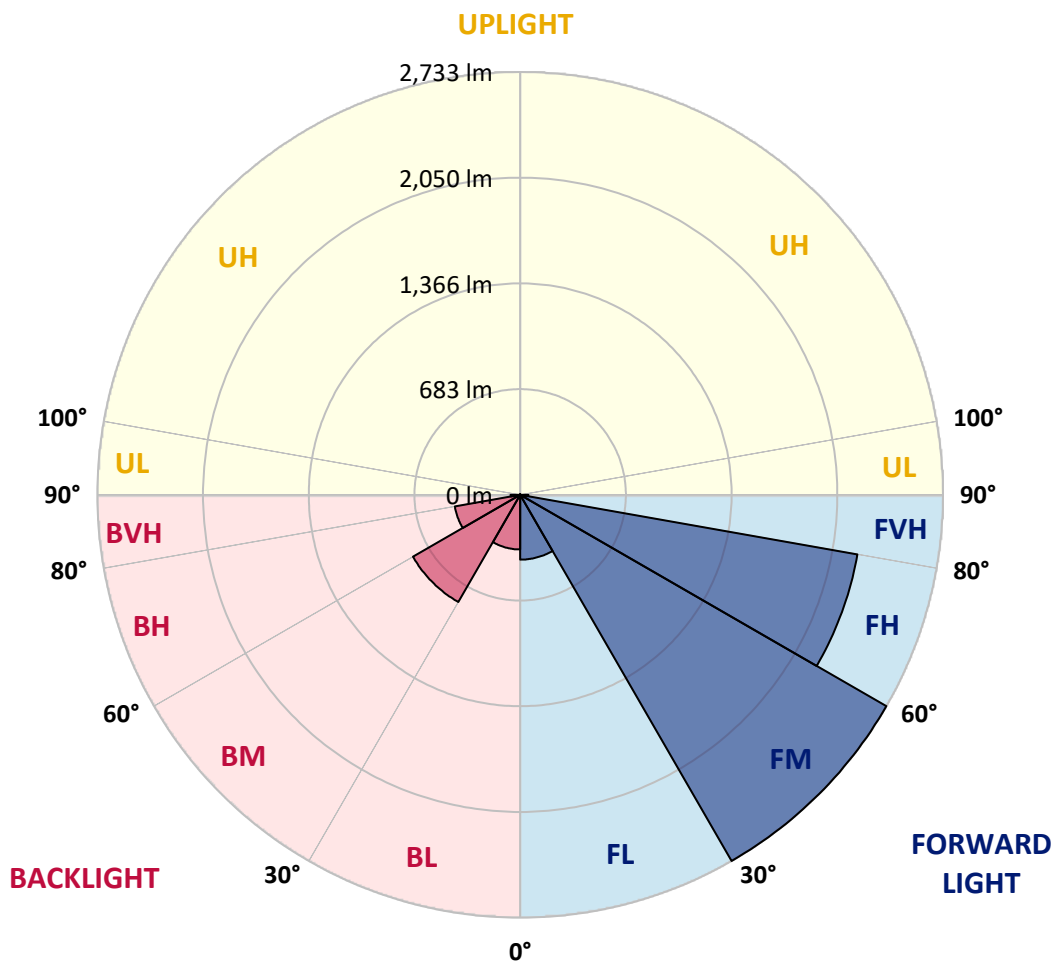
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.0	5.9			
FM	(30°-60°)	2732.7	38.7			
FH	(60°-80°)	2213.1	31.3			G2/5000
FVH	(80°-90°)	52.3	0.7			G1/100
BL	(0°-30°)	353.2	5.0	B1/500		
BM	(30°-60°)	800.0	11.3	B1/1000		
BH	(60°-80°)	428.9	6.1	B1/500		G1/500
BVH	(80°-90°)	61.6	0.9			G1/100
UL	(90°-100°)	2.6	0.0		U1/10	
UH	(100°-180°)	2.1	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°	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0
2.5°	928.8	930.9	932.9	931.9	931.9	931.9	931.9	929.9	932.9	932.9	930.9
5°	913.5	914.5	915.5	917.6	919.6	921.7	922.7	922.7	923.7	922.7	920.7
7.5°	891.0	892.0	896.1	896.1	898.2	902.2	904.3	906.3	909.4	909.4	908.4
10°	883.8	883.8	883.8	880.8	882.8	883.8	886.9	886.9	895.1	899.2	901.2
12.5°	892.0	891.0	891.0	882.8	875.6	872.6	875.6	876.7	885.9	892.0	896.1
15°	910.4	910.4	908.4	896.1	881.8	870.5	869.5	869.5	876.7	885.9	893.0
17.5°	953.4	957.5	943.2	923.7	900.2	881.8	874.6	873.6	878.7	885.9	893.0
20°	1035.2	1034.2	1012.7	977.9	937.0	906.3	888.9	886.9	885.9	890.0	898.2
22.5°	1132.5	1128.4	1102.7	1058.8	1002.5	946.2	912.5	908.4	900.2	903.3	914.5
25°	1236.8	1237.9	1206.2	1148.9	1078.2	1010.7	959.5	955.4	938.0	936.0	948.3
27.5°	1341.2	1354.5	1311.5	1257.3	1173.4	1092.5	1017.8	1011.7	996.4	991.2	1003.5
30°	1493.6	1488.5	1435.3	1364.7	1280.8	1179.6	1108.0	1096.6	1065.9	1073.1	1086.4
32.5°	1622.5	1633.8	1585.7	1501.8	1391.3	1284.9	1202.1	1195.9	1166.3	1174.4	1192.9
35°	1780.0	1806.6	1743.2	1639.9	1533.5	1424.0	1324.8	1308.5	1284.9	1301.3	1315.6
37.5°	1960.1	1973.4	1924.3	1791.3	1682.9	1568.3	1455.8	1430.2	1404.6	1438.4	1463.9
40°	2131.9	2153.4	2090.0	1977.5	1851.6	1742.2	1619.4	1614.3	1555.0	1591.8	1658.3
42.5°	2386.6	2413.2	2312.0	2181.0	2067.5	1935.5	1818.9	1791.3	1726.8	1779.0	1890.5
45°	2564.6	2563.6	2495.1	2386.6	2317.1	2189.2	2031.7	1998.9	1929.4	1998.9	2148.3
47.5°	2629.1	2644.4	2620.9	2607.6	2583.1	2490.0	2257.8	2227.1	2161.6	2264.9	2403.0
50°	2724.2	2720.1	2720.1	2802.0	2872.5	2853.1	2522.7	2478.7	2410.2	2534.0	2732.4
52.5°	2748.8	2711.9	2769.2	2925.7	3149.8	3166.1	2830.6	2806.1	2724.2	2844.9	3089.4
55°	2680.2	2671.0	2762.1	2989.2	3342.2	3458.8	3187.6	3153.9	3061.8	3165.1	3475.2
57.5°	2526.8	2550.3	2696.6	2975.9	3475.2	3716.6	3579.5	3531.4	3399.5	3461.9	3857.8
60°	2366.2	2377.4	2570.8	2928.8	3511.0	3895.6	3990.7	3963.1	3737.0	3773.9	4141.1
62.5°	2188.2	2161.6	2362.1	2889.9	3471.1	4142.1	4389.7	4368.2	4101.2	4090.0	4342.6
65°	1691.0	1727.9	1898.7	2388.7	3197.8	4334.4	4865.4	4837.7	4507.3	4350.8	4321.1
67.5°	1086.4	1079.2	1200.0	1596.9	2389.7	3939.6	5113.9	5144.6	4739.5	4468.5	4024.5
70°	389.7	401.0	446.0	725.3	1310.5	2625.0	4508.3	4660.8	4568.7	4248.5	3275.6
72.5°	237.3	237.3	270.1	326.3	530.9	1245.0	3213.2	3515.1	3728.9	3500.7	2419.4
75°	186.2	185.2	196.4	225.0	286.4	408.2	1708.4	1941.7	2391.8	2418.4	1377.0
77.5°	147.3	146.3	157.5	170.8	213.8	215.8	545.2	709.9	1097.6	1033.2	492.0
80°	118.7	117.6	125.8	129.9	156.5	149.4	218.9	253.7	384.6	337.6	212.8
82.5°	107.4	107.4	115.6	99.2	108.4	105.4	136.1	145.3	193.3	200.5	127.9
85°	69.6	71.6	108.4	96.2	70.6	64.4	87.0	92.1	120.7	132.0	62.4
87.5°	32.7	35.8	82.9	79.8	47.1	34.8	49.1	52.2	65.5	80.8	36.8
90°	6.1	6.1	10.2	11.3	6.1	6.1	8.2	7.2	7.2	10.2	10.2
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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**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°	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0
2.5°	934.0	931.9	932.9	934.0	935.0	938.0	939.1	939.1	939.1	938.0	940.1
5°	922.7	920.7	920.7	923.7	926.8	930.9	937.0	942.1	944.2	945.2	945.2
7.5°	910.4	908.4	909.4	914.5	919.6	922.7	928.8	931.9	940.1	940.1	942.1
10°	902.2	904.3	905.3	910.4	914.5	914.5	913.5	911.4	909.4	914.5	912.5
12.5°	897.1	900.2	899.2	905.3	907.4	899.2	886.9	870.5	868.5	870.5	872.6
15°	895.1	895.1	898.2	898.2	887.9	871.6	856.2	857.2	859.3	865.4	865.4
17.5°	895.1	896.1	898.2	891.0	872.6	858.3	855.2	852.1	840.9	837.8	834.7
20°	902.2	900.2	902.2	888.9	872.6	861.3	837.8	815.3	793.8	784.6	780.5
22.5°	919.6	916.6	915.5	902.2	881.8	843.9	797.9	763.1	726.3	714.0	709.9
25°	950.3	949.3	942.1	932.9	875.6	802.0	743.7	688.4	648.6	627.1	628.1
27.5°	1004.5	1004.5	1000.4	959.5	843.9	749.8	671.1	614.8	573.9	553.4	550.3
30°	1086.4	1088.4	1090.5	966.7	793.8	673.1	591.3	553.4	528.9	513.5	512.5
32.5°	1187.7	1199.0	1185.7	958.5	725.3	580.0	528.9	515.6	503.3	493.1	492.0
35°	1321.8	1352.4	1268.6	925.8	648.6	516.6	491.0	481.8	472.6	465.4	466.5
37.5°	1501.8	1531.5	1321.8	870.5	550.3	480.8	469.5	455.2	440.9	425.5	423.5
40°	1714.6	1705.4	1340.2	766.2	489.0	463.4	448.1	429.6	405.1	382.6	378.5
42.5°	1927.3	1866.0	1324.8	637.3	449.1	448.1	426.6	403.0	378.5	359.1	359.1
45°	2165.7	2007.1	1277.8	516.6	417.4	431.7	405.1	380.5	358.0	343.7	342.7
47.5°	2390.7	2139.1	1200.0	430.7	385.7	410.2	388.7	366.2	344.7	332.5	329.4
50°	2654.7	2289.5	1140.7	372.4	355.0	388.7	379.5	359.1	338.6	324.3	322.2
52.5°	2921.6	2435.7	1095.6	332.5	327.3	372.4	375.4	363.1	341.7	314.0	312.0
55°	3200.9	2618.9	1005.6	300.7	302.8	360.1	380.5	371.3	356.0	311.0	308.9
57.5°	3435.3	2787.6	848.0	279.3	283.4	350.9	382.6	365.2	347.8	313.0	310.0
60°	3618.4	2903.2	622.0	261.9	266.0	340.6	373.4	343.7	321.2	313.0	307.9
62.5°	3674.6	2907.3	413.3	241.4	252.7	323.3	357.0	332.5	305.9	310.0	307.9
65°	3533.5	2753.9	295.6	222.0	241.4	302.8	349.8	321.2	298.7	315.1	313.0
67.5°	3098.6	2320.2	237.3	206.6	226.1	281.3	336.6	311.0	292.6	326.3	320.2
70°	2414.3	1664.4	201.5	191.3	209.7	260.9	318.1	299.7	284.4	317.1	308.9
72.5°	1591.8	980.0	178.0	177.0	190.3	243.5	297.7	289.5	271.1	287.4	275.2
75°	830.6	454.2	154.5	160.6	168.8	228.1	279.3	271.1	250.6	256.8	252.7
77.5°	326.3	212.8	134.0	141.2	150.4	205.6	255.7	247.6	230.2	225.0	224.0
80°	179.0	143.2	111.5	120.7	126.8	185.2	231.2	222.0	203.6	200.5	197.4
82.5°	113.5	93.1	92.1	98.2	106.4	164.7	207.7	193.3	178.0	209.7	169.8
85°	53.2	55.2	65.5	73.7	82.9	140.1	181.1	165.7	150.4	146.3	129.9
87.5°	29.7	36.8	43.0	50.1	57.3	98.2	143.2	128.9	112.5	96.2	99.2
90°	7.2	7.2	12.3	11.3	12.3	14.3	70.6	63.4	56.3	26.6	17.4
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



REPORT NUMBER: P226489

CATALOG NUMBER: IST-AF-1200-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)