

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: P226479

Luminaire Tested: **IST-AF-600-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226479
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-600-LED-E1-T3-7050
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4100.9 lumens
Efficiency: N/A
Efficacy: 121.7 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): 33.7
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

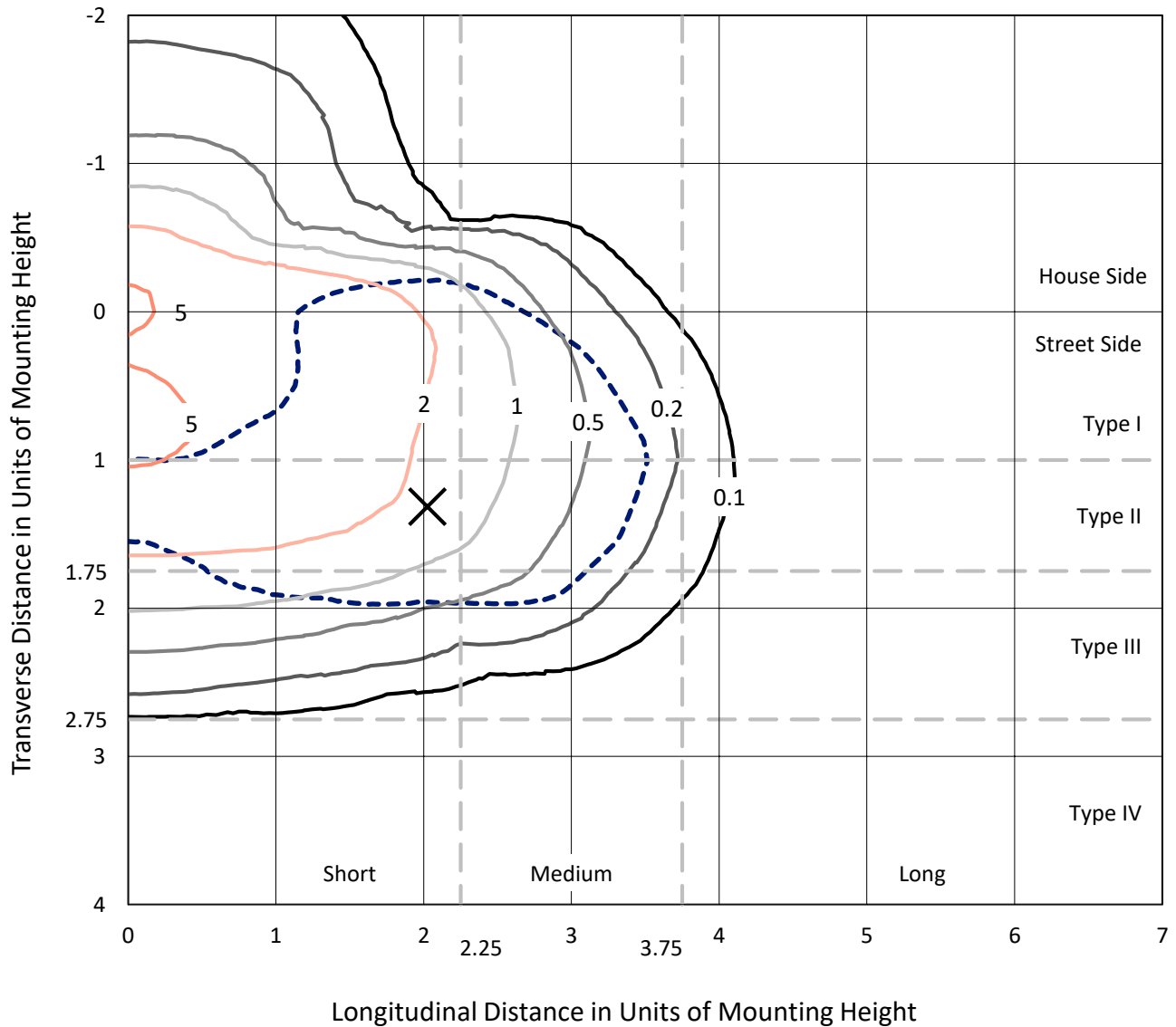


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Iso-Footcandle Lines of Horizontal Illumination

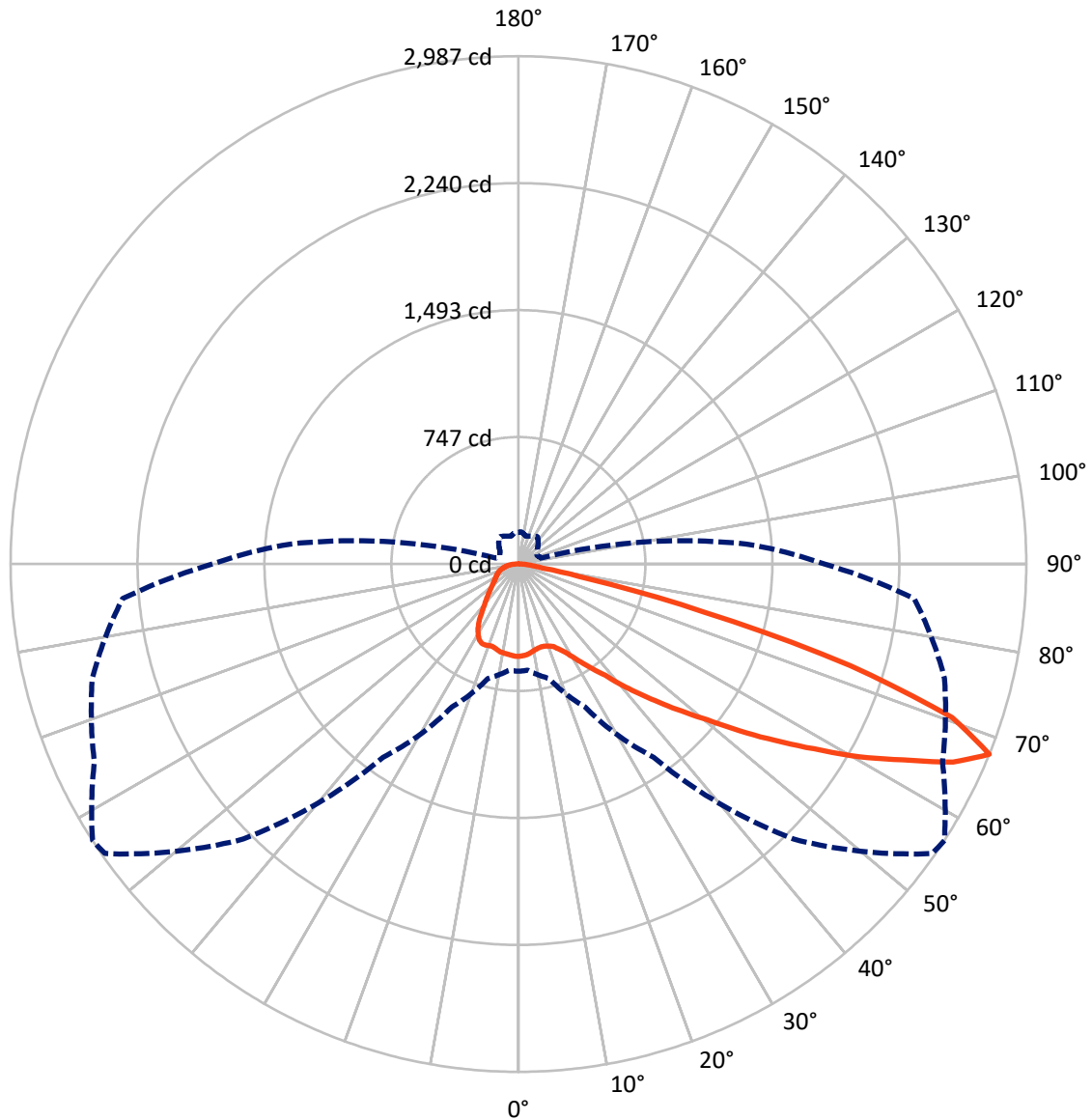
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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	954.3	1.2	955.5
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	3145.1	0.3	3145.4
	% Fixture	76.7	0.0	76.7
Total	Lumens	4099.4	1.5	4100.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	1.2
10°-20°	146.1	3.6
20°-30°	251.4	6.1
30°-40°	408.8	10.0
40°-50°	659.3	16.1
50°-60°	983.0	24.0
60°-70°	1107.1	27.0
70°-80°	426.8	10.4
80°-90°	66.1	1.6
90°-100°	1.5	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°	4099.4	100.0
0°-180°	4100.9	100.0



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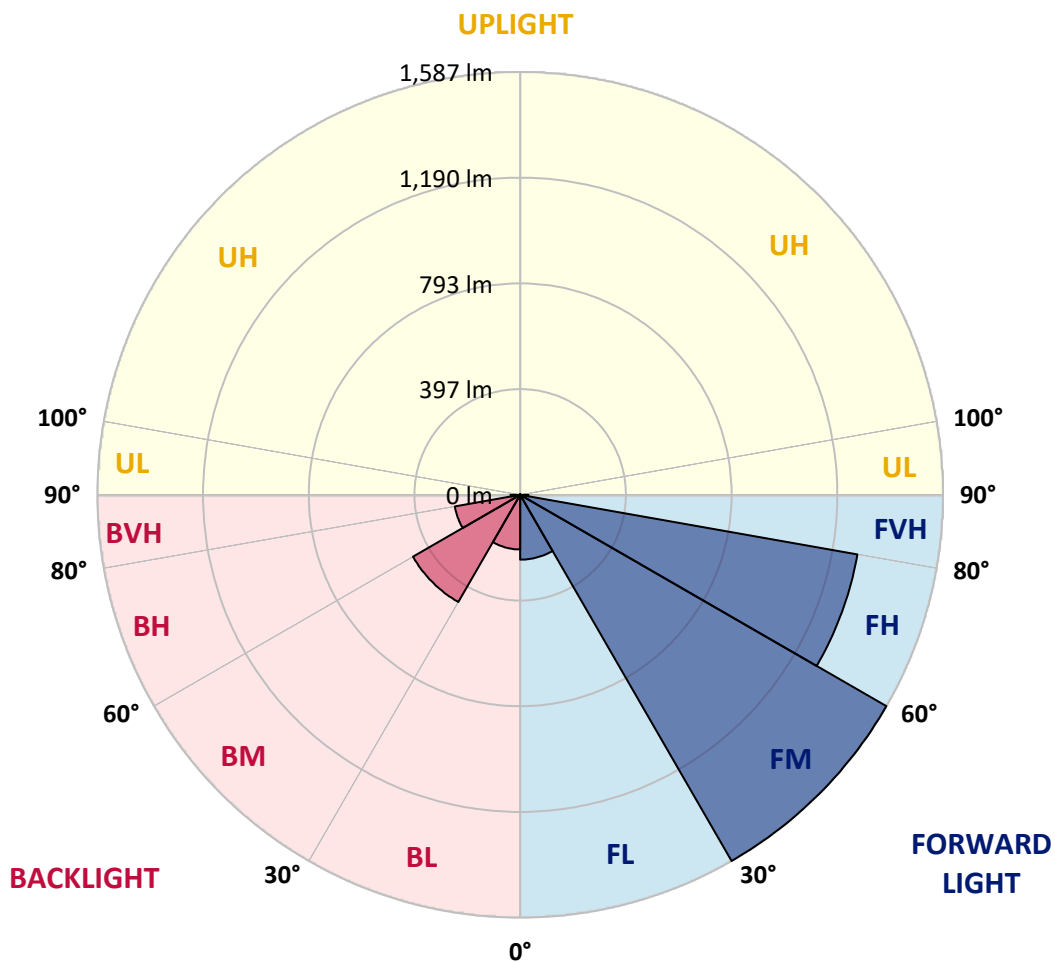
CATALOG NUMBER: IST-AF-600-LED-E1-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	243.3	5.9			
FM	(30°-60°)	1586.6	38.7			
FH	(60°-80°)	1284.9	31.3			G1/1800
FVH	(80°-90°)	30.4	0.7			G1/100
BL	(0°-30°)	205.1	5.0	B1/500		
BM	(30°-60°)	464.5	11.3	B1/1000		
BH	(60°-80°)	249.0	6.1	B1/500		G1/500
BVH	(80°-90°)	35.8	0.9			G1/100
UL	(90°-100°)	1.5	0.0		U1/10	
UH	(100°-180°)	1.2	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°	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5
2.5°	539.3	540.5	541.7	541.1	541.1	541.1	541.1	539.9	541.7	541.7	540.5
5°	530.4	531.0	531.6	532.8	533.9	535.1	535.7	535.7	536.3	535.7	534.5
7.5°	517.3	517.9	520.3	520.3	521.5	523.9	525.0	526.2	528.0	528.0	527.4
10°	513.2	513.2	513.2	511.4	512.6	513.2	514.9	514.9	519.7	522.1	523.3
12.5°	517.9	517.3	517.3	512.6	508.4	506.6	508.4	509.0	514.3	517.9	520.3
15°	528.6	528.6	527.4	520.3	512.0	505.4	504.8	504.8	509.0	514.3	518.5
17.5°	553.5	555.9	547.6	536.3	522.7	512.0	507.8	507.2	510.2	514.3	518.5
20°	601.1	600.5	588.0	567.8	544.0	526.2	516.1	514.9	514.3	516.7	521.5
22.5°	657.5	655.1	640.3	614.7	582.1	549.4	529.8	527.4	522.7	524.4	531.0
25°	718.1	718.7	700.3	667.0	626.0	586.8	557.1	554.7	544.6	543.5	550.6
27.5°	778.7	786.4	761.4	729.9	681.2	634.3	591.0	587.4	578.5	575.5	582.7
30°	867.1	864.2	833.3	792.3	743.6	684.8	643.2	636.7	618.9	623.0	630.8
32.5°	942.0	948.5	920.6	871.9	807.8	746.0	697.9	694.3	677.1	681.8	692.5
35°	1033.4	1048.9	1012.1	952.1	890.3	826.8	769.1	759.6	746.0	755.5	763.8
37.5°	1138.0	1145.7	1117.2	1040.0	977.0	910.5	845.2	830.3	815.5	835.1	849.9
40°	1237.8	1250.2	1213.4	1148.1	1075.0	1011.5	940.2	937.2	902.8	924.2	962.8
42.5°	1385.7	1401.1	1342.3	1266.3	1200.3	1123.7	1056.0	1040.0	1002.6	1032.9	1097.6
45°	1489.0	1488.4	1448.6	1385.7	1345.3	1271.0	1179.6	1160.6	1120.2	1160.6	1247.3
47.5°	1526.4	1535.3	1521.7	1513.9	1499.7	1445.6	1310.8	1293.0	1255.0	1315.0	1395.2
50°	1581.7	1579.3	1579.3	1626.8	1667.8	1656.5	1464.6	1439.1	1399.3	1471.2	1586.4
52.5°	1595.9	1574.5	1607.8	1698.7	1828.7	1838.2	1643.4	1629.2	1581.7	1651.7	1793.7
55°	1556.1	1550.8	1603.6	1735.5	1940.4	2008.1	1850.7	1831.1	1777.7	1837.6	2017.6
57.5°	1467.0	1480.7	1565.6	1727.8	2017.6	2157.8	2078.2	2050.3	1973.6	2009.9	2239.7
60°	1373.8	1380.3	1492.6	1700.4	2038.4	2261.7	2316.9	2300.9	2169.6	2191.0	2404.3
62.5°	1270.4	1255.0	1371.4	1677.9	2015.2	2404.8	2548.6	2536.1	2381.1	2374.6	2521.3
65°	981.8	1003.2	1102.3	1386.8	1856.6	2516.5	2824.8	2808.7	2616.9	2526.0	2508.8
67.5°	630.8	626.6	696.7	927.1	1387.4	2287.2	2969.1	2986.9	2751.7	2594.3	2336.5
70°	226.3	232.8	259.0	421.1	760.8	1524.0	2617.5	2706.0	2652.5	2466.6	1901.8
72.5°	137.8	137.8	156.8	189.5	308.3	722.8	1865.6	2040.8	2164.9	2032.4	1404.7
75°	108.1	107.5	114.0	130.7	166.3	237.0	991.9	1127.3	1388.6	1404.1	799.4
77.5°	85.5	84.9	91.5	99.2	124.1	125.3	316.6	412.2	637.3	599.9	285.7
80°	68.9	68.3	73.1	75.4	90.9	86.7	127.1	147.3	223.3	196.0	123.5
82.5°	62.4	62.4	67.1	57.6	63.0	61.2	79.0	84.3	112.3	116.4	74.2
85°	40.4	41.6	63.0	55.8	41.0	37.4	50.5	53.5	70.1	76.6	36.2
87.5°	19.0	20.8	48.1	46.3	27.3	20.2	28.5	30.3	38.0	46.9	21.4
90°	3.6	3.6	5.9	6.5	3.6	3.6	4.8	4.2	4.2	5.9	5.9
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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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°	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5	543.5
2.5°	542.3	541.1	541.7	542.3	542.9	544.6	545.2	545.2	545.2	544.6	545.8
5°	535.7	534.5	534.5	536.3	538.1	540.5	544.0	547.0	548.2	548.8	548.8
7.5°	528.6	527.4	528.0	531.0	533.9	535.7	539.3	541.1	545.8	545.8	547.0
10°	523.9	525.0	525.6	528.6	531.0	531.0	530.4	529.2	528.0	531.0	529.8
12.5°	520.9	522.7	522.1	525.6	526.8	522.1	514.9	505.4	504.3	505.4	506.6
15°	519.7	519.7	521.5	521.5	515.5	506.0	497.1	497.7	498.9	502.5	502.5
17.5°	519.7	520.3	521.5	517.3	506.6	498.3	496.5	494.7	488.2	486.4	484.7
20°	523.9	522.7	523.9	516.1	506.6	500.1	486.4	473.4	460.9	455.5	453.2
22.5°	533.9	532.2	531.6	523.9	512.0	490.0	463.3	443.1	421.7	414.6	412.2
25°	551.8	551.2	547.0	541.7	508.4	465.6	431.8	399.7	376.6	364.1	364.7
27.5°	583.2	583.2	580.9	557.1	490.0	435.4	389.6	357.0	333.2	321.3	319.5
30°	630.8	631.9	633.1	561.3	460.9	390.8	343.3	321.3	307.1	298.2	297.6
32.5°	689.6	696.1	688.4	556.5	421.1	336.8	307.1	299.3	292.2	286.3	285.7
35°	767.4	785.2	736.5	537.5	376.6	299.9	285.1	279.7	274.4	270.2	270.8
37.5°	871.9	889.1	767.4	505.4	319.5	279.1	272.6	264.3	256.0	247.1	245.9
40°	995.4	990.1	778.1	444.9	283.9	269.1	260.1	249.5	235.2	222.1	219.8
42.5°	1119.0	1083.3	769.1	370.0	260.7	260.1	247.7	234.0	219.8	208.5	208.5
45°	1257.4	1165.3	741.8	299.9	242.3	250.6	235.2	220.9	207.9	199.6	199.0
47.5°	1388.0	1241.9	696.7	250.0	223.9	238.2	225.7	212.6	200.2	193.0	191.2
50°	1541.3	1329.2	662.2	216.2	206.1	225.7	220.4	208.5	196.6	188.3	187.1
52.5°	1696.3	1414.2	636.1	193.0	190.1	216.2	218.0	210.8	198.4	182.3	181.2
55°	1858.4	1520.5	583.8	174.6	175.8	209.1	220.9	215.6	206.7	180.6	179.4
57.5°	1994.4	1618.5	492.4	162.1	164.5	203.7	222.1	212.0	201.9	181.7	180.0
60°	2100.8	1685.6	361.1	152.0	154.4	197.8	216.8	199.6	186.5	181.7	178.8
62.5°	2133.4	1688.0	240.0	140.2	146.7	187.7	207.3	193.0	177.6	180.0	178.8
65°	2051.5	1598.9	171.6	128.9	140.2	175.8	203.1	186.5	173.4	182.9	181.7
67.5°	1799.0	1347.0	137.8	120.0	131.3	163.3	195.4	180.6	169.9	189.5	185.9
70°	1401.7	966.3	117.0	111.1	121.8	151.5	184.7	174.0	165.1	184.1	179.4
72.5°	924.2	569.0	103.3	102.8	110.5	141.4	172.8	168.1	157.4	166.9	159.8
75°	482.3	263.7	89.7	93.2	98.0	132.4	162.1	157.4	145.5	149.1	146.7
77.5°	189.5	123.5	77.8	82.0	87.3	119.4	148.5	143.7	133.6	130.7	130.1
80°	103.9	83.2	64.7	70.1	73.6	107.5	134.2	128.9	118.2	116.4	114.6
82.5°	65.9	54.0	53.5	57.0	61.8	95.6	120.6	112.3	103.3	121.8	98.6
85°	30.9	32.1	38.0	42.8	48.1	81.4	105.1	96.2	87.3	84.9	75.4
87.5°	17.2	21.4	24.9	29.1	33.3	57.0	83.2	74.8	65.3	55.8	57.6
90°	4.2	4.2	7.1	6.5	7.1	8.3	41.0	36.8	32.7	15.4	10.1
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-600-LED-E1-T3-7050

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)