

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: P226846

Luminaire Tested: **IST-AF-350-LED-E1-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-350-LED-E1-SL2-8030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1969.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U1 - G1

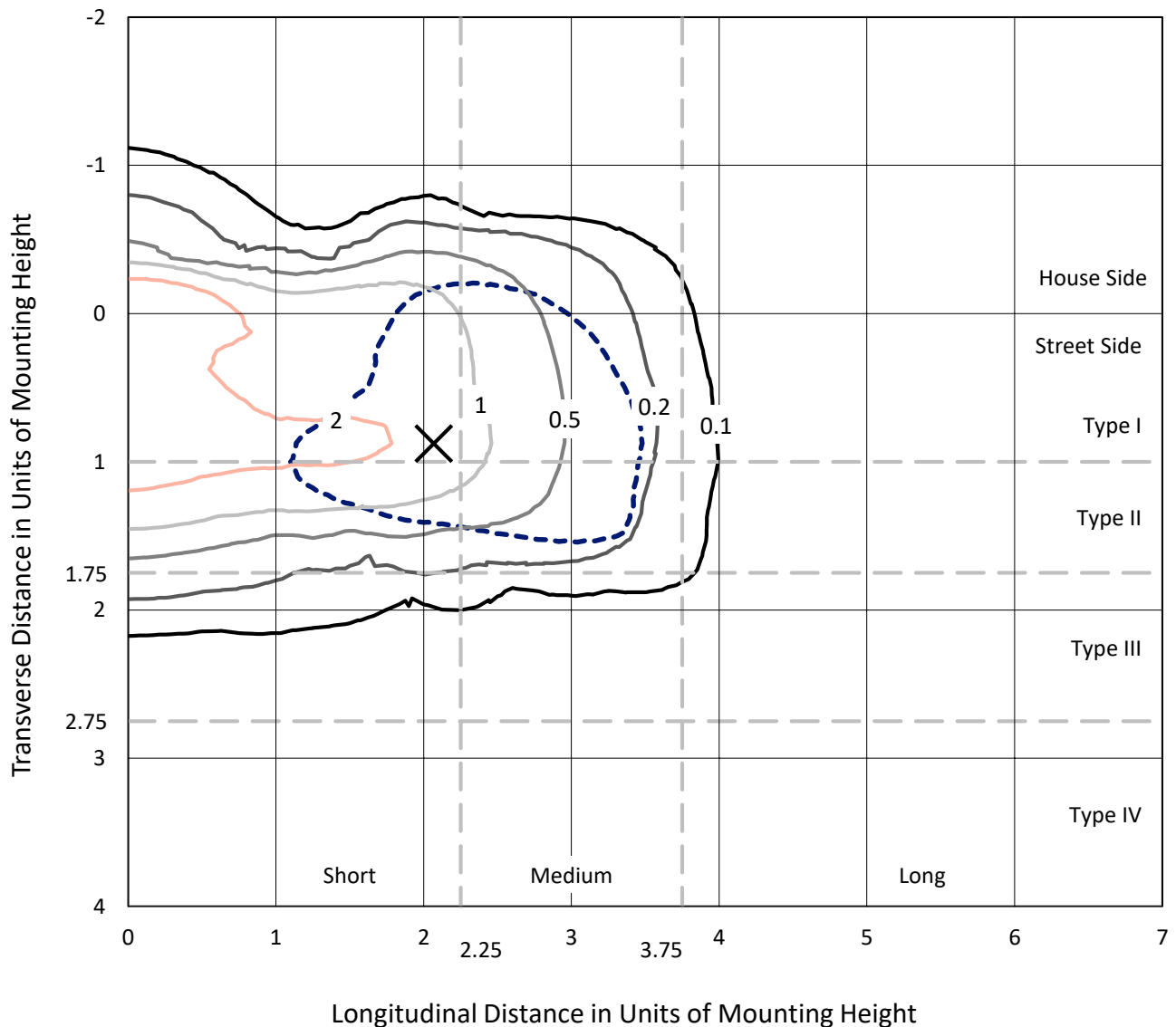
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

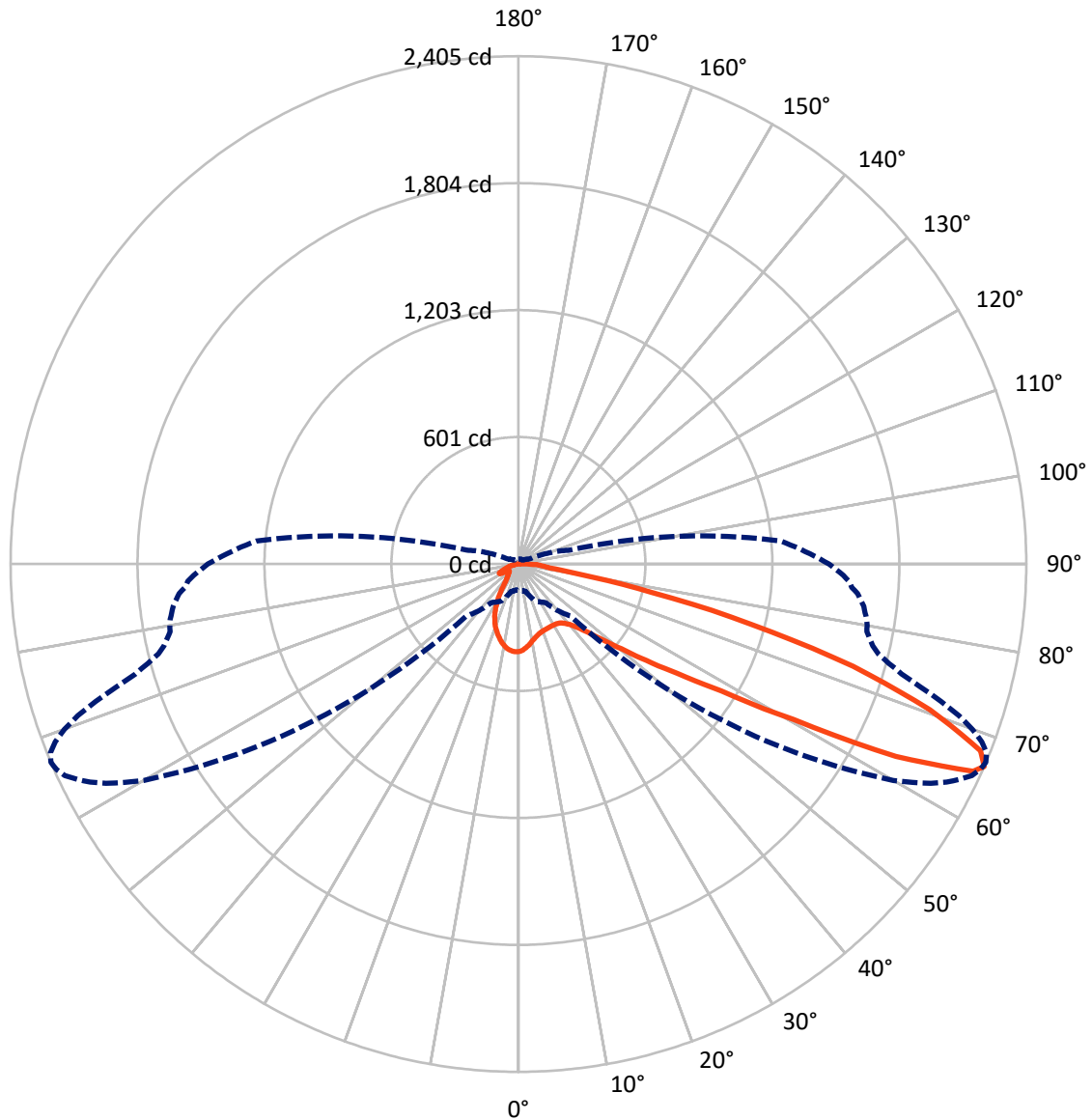
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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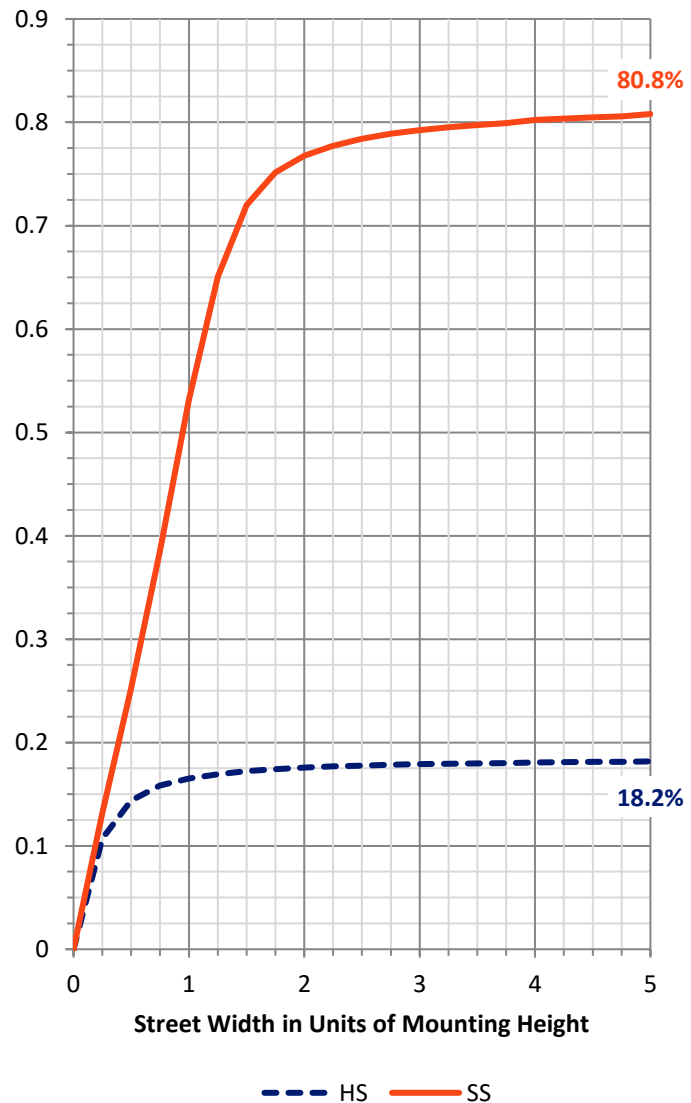
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.6	0.2	363.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	1605.0	0.6	1605.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	1968.6	0.7	1969.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	1.8
10°-20°	85.6	4.3
20°-30°	117.3	6.0
30°-40°	167.6	8.5
40°-50°	271.8	13.8
50°-60°	430.6	21.9
60°-70°	545.6	27.7
70°-80°	271.2	13.8
80°-90°	43.0	2.2
90°-100°	0.7	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°	1968.6	100.0
0°-180°	1969.3	100.0



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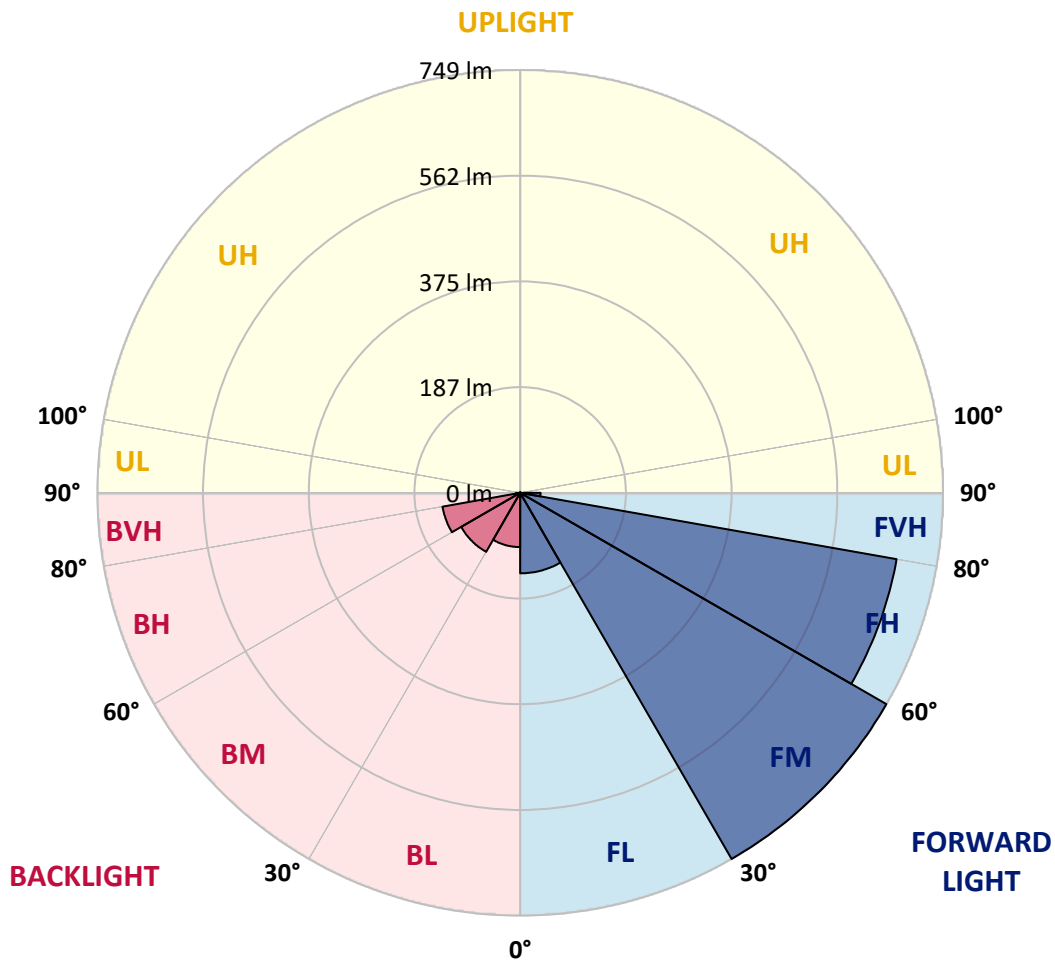
CATALOG NUMBER: IST-AF-350-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.7	7.2			
FM (30°-60°)	749.1	38.0			
FH (60°-80°)	677.1	34.4			G1/1800
FVH (80°-90°)	36.0	1.8			G1/100
BL (0°-30°)	96.1	4.9	B0/110		
BM (30°-60°)	120.8	6.1	B0/220		
BH (60°-80°)	139.7	7.1	B1/500		G1/500
BVH (80°-90°)	6.9	0.4			G0/10
UL (90°-100°)	0.7	0.0		U1/10	
UH (100°-180°)	0.2	0.0		U1/10	

BUG Rating: B1-U1-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5
2.5°	385.2	386.1	391.1	393.8	397.6	398.8	403.3	405.0	406.5	406.2	406.2
5°	350.6	353.3	355.6	361.0	366.6	373.4	382.0	388.5	389.7	391.1	392.0
7.5°	324.3	326.0	330.2	334.0	341.1	350.6	362.7	371.0	372.8	373.4	375.5
10°	305.6	306.8	310.4	315.4	323.7	332.9	345.6	354.2	356.8	358.0	359.8
12.5°	291.1	292.9	296.2	301.5	310.4	319.8	333.1	341.7	343.5	345.0	347.6
15°	282.0	283.1	286.1	292.0	300.0	309.5	322.5	332.9	334.0	335.5	337.9
17.5°	280.2	281.1	282.8	287.3	293.5	302.7	316.0	324.6	326.6	328.7	331.1
20°	287.3	287.9	288.5	289.1	292.6	298.5	311.5	320.7	322.5	324.3	327.2
22.5°	302.7	303.6	302.1	300.0	297.3	298.5	309.5	318.9	320.1	321.9	324.3
25°	329.3	328.4	324.0	320.7	311.3	303.6	310.1	318.1	319.5	321.3	324.0
27.5°	360.7	359.5	356.8	347.9	332.3	316.6	313.6	319.5	320.4	321.9	324.3
30°	394.4	394.7	392.3	382.6	362.4	336.1	321.6	323.1	323.7	324.9	326.3
32.5°	424.9	429.3	429.0	428.4	399.7	362.4	337.0	331.1	330.2	331.1	331.7
35°	460.1	461.0	469.2	473.4	450.0	400.9	359.5	346.5	342.9	343.2	342.6
37.5°	497.9	499.1	513.3	520.4	502.4	444.7	389.4	369.2	366.0	362.7	360.4
40°	553.0	557.7	565.1	573.1	564.2	503.6	428.7	401.5	393.2	392.6	387.9
42.5°	635.2	633.7	630.2	636.7	626.1	569.5	476.3	447.1	440.8	432.6	426.0
45°	716.0	719.3	703.9	706.8	707.4	645.9	545.3	504.2	500.9	491.1	484.0
47.5°	770.4	766.9	746.2	761.3	798.3	734.9	625.2	582.0	575.2	570.1	565.7
50°	773.4	770.4	757.1	783.8	862.8	893.2	736.4	686.1	676.4	667.5	664.8
52.5°	701.2	697.1	701.5	755.6	886.1	1025.8	893.5	815.4	807.4	800.0	789.7
55°	572.5	577.2	598.2	676.1	850.3	1119.9	1202.7	1015.1	980.8	980.5	955.1
57.5°	427.5	422.8	438.5	511.6	759.8	1153.3	1486.7	1440.3	1363.7	1311.9	1249.5
60°	288.5	289.7	304.2	341.7	528.7	1116.9	1677.0	1838.8	1811.9	1800.9	1784.1
62.5°	200.0	201.8	215.1	250.3	309.2	898.6	1732.6	2062.2	2110.4	2150.4	2140.6
65°	139.9	140.2	153.6	208.0	231.7	461.6	1609.8	2091.8	2163.7	2232.3	2293.9
66°	123.4	123.7	134.6	193.5	222.2	348.2	1503.3	2050.7	2132.6	2212.5	2276.1
67.5°	105.6	107.4	116.0	164.5	213.0	268.6	1241.8	1927.9	2013.7	2101.5	2185.6
70°	72.5	73.1	80.8	133.4	199.4	235.8	707.7	1505.1	1623.7	1778.2	1867.5
72.5°	51.8	51.2	52.1	82.5	204.7	234.3	371.9	990.6	1156.5	1292.1	1388.8
75°	46.2	44.7	40.8	51.2	149.4	255.9	249.1	583.2	709.5	832.9	932.0
77.5°	41.1	38.8	36.7	39.4	74.0	241.1	223.7	334.0	398.5	490.5	566.9
80°	31.4	29.9	31.1	34.0	44.4	221.9	222.2	222.2	239.7	269.8	300.0
82.5°	20.7	18.9	21.6	28.1	33.4	167.2	229.6	196.2	192.9	191.7	193.8
85°	13.0	11.2	15.1	21.0	25.7	87.3	235.5	207.1	192.0	177.5	163.0
87.5°	4.7	5.3	7.7	12.1	16.9	37.9	206.5	182.6	172.2	154.1	137.3
90°	1.2	0.9	1.5	3.6	3.8	7.1	31.7	50.6	30.2	15.1	12.1
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



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5
2.5°	406.5	408.0	408.6	408.0	408.3	410.1	409.5	410.4	410.4	411.0	411.0
5°	393.2	394.4	396.8	396.5	398.8	399.7	400.6	401.8	403.3	404.2	405.9
7.5°	377.5	379.9	382.0	383.1	384.6	387.6	388.5	391.1	393.5	395.9	397.6
10°	362.4	365.7	368.1	368.9	372.2	373.7	376.9	379.0	382.0	384.9	387.6
12.5°	349.7	352.7	353.9	356.8	359.8	362.7	364.2	368.1	371.0	374.9	378.4
15°	340.2	343.2	345.6	347.6	350.6	353.6	355.9	359.8	363.3	367.2	370.4
17.5°	334.3	336.1	339.1	340.8	344.4	347.9	350.6	355.0	358.9	362.1	366.6
20°	329.9	332.0	334.6	337.3	340.5	345.0	347.3	352.1	356.2	360.1	364.2
22.5°	327.5	329.6	332.3	334.9	338.5	342.0	345.9	350.0	354.4	358.6	362.7
25°	326.6	328.4	330.8	333.4	337.3	341.1	344.4	349.1	353.0	357.4	362.4
27.5°	326.9	328.1	330.8	333.1	337.0	340.5	343.8	348.5	353.0	357.1	362.1
30°	328.1	329.0	331.7	333.7	337.0	340.5	343.5	348.5	352.4	356.8	362.1
32.5°	332.3	333.4	334.6	336.1	339.1	341.7	345.3	349.7	353.3	357.7	362.1
35°	342.0	341.1	342.0	342.6	344.7	347.3	350.0	353.9	357.1	361.0	365.7
37.5°	357.4	355.6	356.2	355.9	355.9	357.7	360.4	363.0	365.7	369.5	374.3
40°	385.8	381.4	380.2	376.9	376.0	377.5	379.3	379.6	382.9	387.9	390.0
42.5°	422.5	416.6	417.5	412.1	410.7	408.9	411.3	409.8	411.8	415.1	419.5
45°	480.5	474.9	469.0	460.4	462.1	455.6	453.9	454.5	454.2	455.3	460.7
47.5°	549.7	542.3	538.5	535.2	529.0	525.2	520.1	512.7	514.5	516.9	521.6
50°	650.9	648.5	641.1	630.5	629.0	623.4	621.9	615.4	613.0	612.7	612.4
52.5°	786.1	770.7	767.8	757.7	750.0	744.7	742.9	733.8	724.6	729.9	729.3
55°	950.9	938.2	921.9	913.0	906.8	894.1	890.9	879.3	874.0	871.0	863.6
57.5°	1227.9	1183.2	1149.7	1133.2	1109.8	1086.1	1077.8	1054.2	1035.8	1022.8	1023.7
60°	1710.7	1631.1	1537.3	1495.3	1398.0	1383.8	1316.9	1300.6	1260.4	1233.8	1218.4
62.5°	2133.8	2112.2	2067.2	2006.0	1908.3	1795.9	1745.3	1644.7	1566.0	1531.7	1484.1
65°	2335.9	2366.4	2378.8	2367.2	2328.2	2259.5	2199.2	2101.0	1969.0	1894.4	1801.8
66°	2325.5	2370.8	2393.6	2405.4	2391.2	2350.7	2287.4	2206.6	2104.5	1990.9	1887.0
67.5°	2249.8	2293.9	2325.5	2361.6	2361.6	2348.9	2323.2	2269.3	2197.1	2098.0	2004.8
70°	1940.3	2000.1	2056.0	2066.9	2097.7	2088.2	2108.7	2074.3	2057.2	2015.7	1965.7
72.5°	1511.6	1561.6	1609.5	1657.5	1649.5	1639.1	1637.0	1644.1	1609.2	1621.7	1608.6
75°	1005.4	1091.5	1140.6	1135.8	1139.1	1141.8	1119.9	1071.0	1108.9	1061.0	1077.0
77.5°	611.0	650.9	664.2	649.4	630.2	605.3	565.4	542.0	508.6	511.3	489.1
80°	320.4	325.5	314.8	284.9	268.6	253.9	208.3	187.9	168.9	161.8	145.9
82.5°	183.7	171.6	158.6	148.5	129.3	116.3	98.5	87.3	75.2	64.5	60.7
85°	148.8	132.5	120.4	109.2	96.2	84.6	69.8	58.3	49.4	42.9	41.4
87.5°	122.8	111.5	99.1	88.5	75.7	63.9	49.4	38.5	30.5	24.6	22.8
90°	10.9	14.8	10.7	5.9	8.9	4.7	2.7	3.0	2.4	2.4	2.7
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



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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P226846

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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5
2.5°	411.8	411.8	412.4	413.0	413.3	413.3	413.3	413.9	414.2	413.3	414.2
5°	406.8	408.3	409.5	410.4	410.7	411.6	412.4	413.0	413.9	413.9	414.5
7.5°	400.0	402.7	404.2	405.6	407.1	408.6	410.4	411.6	412.1	413.3	414.2
10°	391.4	394.7	397.6	400.0	402.1	405.0	407.4	409.2	411.8	412.1	414.2
12.5°	382.3	387.0	389.4	393.8	396.8	401.2	403.6	406.2	409.2	410.7	413.0
15°	375.8	379.9	384.3	388.5	393.2	398.5	401.5	405.0	409.2	412.4	415.4
17.5°	370.7	376.3	381.4	386.7	392.6	398.2	402.7	406.5	411.8	413.6	416.6
20°	369.2	375.5	380.5	386.1	392.3	399.7	405.0	409.2	414.5	417.5	420.1
22.5°	368.7	374.6	380.5	387.3	394.1	401.8	407.4	412.7	418.1	420.7	422.8
25°	368.1	374.3	380.8	388.5	395.9	403.9	410.4	415.4	420.4	423.1	424.9
27.5°	368.1	374.6	381.7	389.4	397.4	406.2	412.4	417.2	421.6	424.0	424.6
30°	367.8	374.6	381.4	390.0	398.5	407.7	414.5	418.9	422.8	424.3	423.7
32.5°	368.4	375.5	382.9	391.4	400.3	409.2	416.3	421.3	423.4	423.1	422.8
35°	371.3	377.8	386.4	395.0	404.2	412.4	419.2	422.8	424.6	424.0	422.5
37.5°	379.3	385.8	394.4	403.9	411.0	420.4	426.6	429.3	429.6	427.8	424.3
40°	395.9	402.4	410.1	420.4	429.0	435.5	441.4	444.4	442.6	439.4	435.5
42.5°	422.2	430.5	439.7	447.9	458.0	466.9	468.4	470.1	467.2	461.0	456.2
45°	464.5	469.5	481.4	487.6	500.6	505.0	508.3	509.2	502.7	497.6	489.4
47.5°	525.5	535.2	543.5	549.4	558.9	564.8	571.3	568.4	563.3	554.8	543.8
50°	621.3	627.5	638.2	648.8	658.9	663.0	663.0	660.1	656.8	640.3	626.9
52.5°	739.1	739.7	755.1	767.8	776.4	770.1	777.5	770.1	768.1	756.5	745.6
55°	875.5	869.9	888.5	899.7	907.4	914.8	913.3	912.5	904.8	891.7	878.4
57.5°	1005.1	1021.3	1030.2	1046.8	1050.6	1055.7	1053.6	1050.6	1046.2	1038.8	1032.9
60°	1192.1	1203.0	1211.0	1214.2	1225.2	1226.7	1234.1	1221.9	1224.9	1216.3	1197.7
62.5°	1446.5	1434.7	1440.9	1440.9	1437.6	1426.1	1432.3	1437.0	1429.0	1421.9	1419.0
65°	1731.4	1693.3	1656.6	1650.4	1633.5	1629.6	1624.9	1613.1	1608.0	1595.6	1585.6
66°	1816.6	1757.5	1722.8	1701.5	1681.1	1676.7	1670.2	1657.7	1647.7	1630.2	1613.4
67.5°	1912.2	1835.9	1783.8	1753.6	1728.5	1711.9	1698.9	1681.1	1665.1	1639.1	1612.2
70°	1906.0	1843.0	1780.2	1734.4	1696.5	1662.5	1642.4	1604.2	1571.7	1534.4	1503.6
72.5°	1601.5	1590.3	1553.9	1528.2	1481.7	1463.7	1410.4	1386.1	1341.2	1292.9	1278.1
75°	1113.4	1069.3	1050.6	1040.3	1019.9	963.6	927.0	934.9	882.3	835.2	808.3
77.5°	486.7	495.6	444.1	421.0	403.3	372.8	344.4	324.9	313.6	306.2	272.8
80°	134.6	117.5	116.0	107.7	105.9	94.4	95.9	87.6	82.0	80.8	78.1
82.5°	58.9	57.7	55.9	55.0	54.1	53.0	51.5	51.2	49.4	47.9	48.2
85°	39.1	38.8	37.9	37.0	35.5	33.4	32.0	30.8	31.1	29.6	29.3
87.5°	22.8	22.2	21.9	20.7	20.4	18.6	18.9	17.5	17.2	16.9	16.0
90°	3.3	3.6	4.4	4.1	3.0	5.6	4.7	4.1	4.4	3.6	3.6
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



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	110°	0.0
415.1	415.7	416.0	415.7	416.3	416.0	416.3	416.0	414.5	414.2	413.9	112.5°	0.0
415.7	416.9	417.2	417.5	416.9	417.5	416.3	411.6	406.2	400.3	395.6	115°	0.0
416.3	417.8	418.7	418.7	418.9	418.4	413.9	403.6	391.1	378.7	369.2	117.5°	0.0
416.0	418.1	418.9	419.2	419.2	418.1	407.4	390.8	371.9	353.0	333.7	120°	0.0
415.1	416.9	418.4	418.4	418.7	414.5	397.9	374.3	347.3	318.9	293.2	122.5°	0.0
416.9	418.7	418.7	418.7	418.4	411.3	387.9	353.6	317.5	279.0	240.8	125°	0.0
419.5	420.4	419.8	419.8	418.7	408.0	376.6	333.1	285.8	234.9	181.7	127.5°	0.0
421.9	422.5	422.2	420.7	419.2	404.5	365.1	311.5	247.9	181.7	128.7	130°	0.0
424.3	424.9	423.4	421.0	418.9	399.7	351.2	284.0	205.0	124.3	85.2	132.5°	0.0
424.6	425.2	422.5	419.2	416.3	392.6	334.3	254.7	158.0	80.5	66.6	135°	0.0
424.3	423.7	419.2	415.1	411.8	384.0	315.7	218.4	105.3	60.7	58.0	137.5°	0.0
422.2	419.5	416.0	411.3	406.5	374.6	297.1	177.8	66.6	52.7	52.7	140°	0.0
419.2	416.6	412.1	405.9	400.6	365.4	275.7	136.4	53.3	48.5	49.1	142.5°	0.0
418.1	415.1	408.6	402.1	395.3	357.1	253.3	91.7	47.9	45.9	46.2	145°	0.0
420.4	415.4	408.9	401.5	393.5	350.0	229.9	63.9	45.3	42.9	43.5	147.5°	0.0
428.4	423.7	416.0	406.5	397.9	345.9	205.0	53.0	42.6	40.5	40.5	150°	0.0
447.6	441.4	431.1	419.8	409.5	348.5	182.8	48.2	40.5	38.5	38.5	152.5°	0.0
478.7	471.3	459.2	446.5	432.9	361.6	157.7	46.5	39.1	36.1	35.5	155°	0.0
532.0	522.2	506.2	491.1	474.9	384.0	132.3	45.3	37.3	34.6	33.4	157.5°	0.0
615.7	601.2	582.3	562.4	542.6	425.2	112.1	44.1	36.1	33.4	32.2	160°	0.0
723.4	713.6	690.0	663.9	640.3	507.1	100.6	43.2	35.2	32.0	31.1	162.5°	0.0
860.7	844.7	826.1	802.7	774.6	613.3	99.4	42.9	34.3	30.8	30.2	165°	0.0
1005.7	999.4	967.8	953.3	922.8	754.8	121.0	43.5	33.7	29.9	29.0	167.5°	0.0
1171.0	1173.4	1143.8	1127.8	1102.7	934.1	192.6	45.3	33.7	29.0	28.1	170°	0.0
1387.3	1391.2	1356.3	1337.3	1316.0	1134.9	302.7	48.2	34.6	28.1	27.2	172.5°	0.0
1564.5	1543.8	1521.4	1488.2	1461.3	1247.1	291.4	53.6	35.8	27.2	26.3	175°	0.0
1582.9	1568.1	1539.7	1503.9	1471.1	1247.7	254.4	55.3	36.1	26.9	26.0	177.5°	0.0
1580.5	1554.2	1521.9	1491.8	1459.5	1215.7	196.8	57.7	37.0	26.3	25.4	180°	0.0
1471.1	1434.1	1402.7	1361.0	1327.3	1087.9	121.0	57.4	35.8	24.6	24.0		
1213.1	1194.1	1156.8	1123.4	1088.2	880.5	82.8	51.2	31.7	22.2	22.5		
784.6	763.0	725.2	706.2	686.4	563.3	64.5	41.7	26.9	19.8	20.7		
261.8	253.3	239.4	247.0	235.5	219.5	47.3	31.7	21.6	17.2	18.3		
78.4	76.6	79.3	74.6	79.0	66.9	31.1	22.2	16.6	14.8	16.3		
46.5	45.9	45.9	45.9	44.7	41.7	20.4	15.4	12.7	12.4	13.6		
28.4	27.8	28.1	27.8	28.4	25.4	13.9	10.7	9.5	9.2	10.9		
16.3	16.3	16.6	16.0	16.3	15.7	9.8	6.8	6.2	5.9	8.0		
3.8	3.8	3.0	2.7	3.0	4.1	2.7	2.1	1.8	1.5	2.7		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226846
 IST-AF-350-LED-E1-SL2-8030

REPORT NUMBER: P226846
 CATALOG NUMBER: IST-AF-350

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	414.5	414.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	411.6	409.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	388.2	382.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	354.4	347.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	316.0	306.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	266.9	247.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	210.1	184.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	144.7	124.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	101.5	93.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	78.4	78.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	65.1	68.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	57.4	60.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	52.7	55.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	49.4	50.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	45.6	46.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	42.3	42.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	39.4	39.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	36.7	36.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	34.0	34.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	32.5	32.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	31.1	31.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	29.9	29.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	28.7	28.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	27.8	27.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	26.9	26.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	26.3	25.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	25.7	25.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	25.4	24.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	25.1	24.6
										70°	24.0	23.4
										72.5°	22.2	21.9
										75°	20.4	19.8
										77.5°	18.0	17.8
										80°	15.4	15.1
										82.5°	13.0	12.4
										85°	10.4	9.8
										87.5°	7.1	6.5
										90°	1.8	2.1
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P226846

CATALOG NUMBER: IST-AF-350-LED-E1-S

0-LED-E1-SL2-8030

tinued):

175°	180°
414.5	414.5
407.7	410.4
380.8	379.9
342.6	342.9
296.5	297.1
236.7	233.1
169.5	171.0
118.1	117.8
94.7	95.3
81.1	81.1
72.2	72.2
63.6	63.9
57.7	58.3
52.4	52.7
47.0	47.3
42.6	42.6
39.6	39.9
37.6	37.6
35.5	35.5
33.7	34.3
32.0	32.2
30.2	30.5
28.4	28.4
26.9	26.9
25.7	25.4
24.9	24.3
24.0	23.7
23.7	23.4
23.4	23.1
22.8	22.5
21.9	21.6
20.1	19.5
18.3	17.8
16.9	16.0
14.2	13.6
10.4	9.8
6.2	6.2
1.5	1.5
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

