

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: P271622

Luminaire Tested: **IST-AF-350-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271622
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-SL2-7027
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2096.7 lumens
Efficiency: N/A
Efficacy: 104.4 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

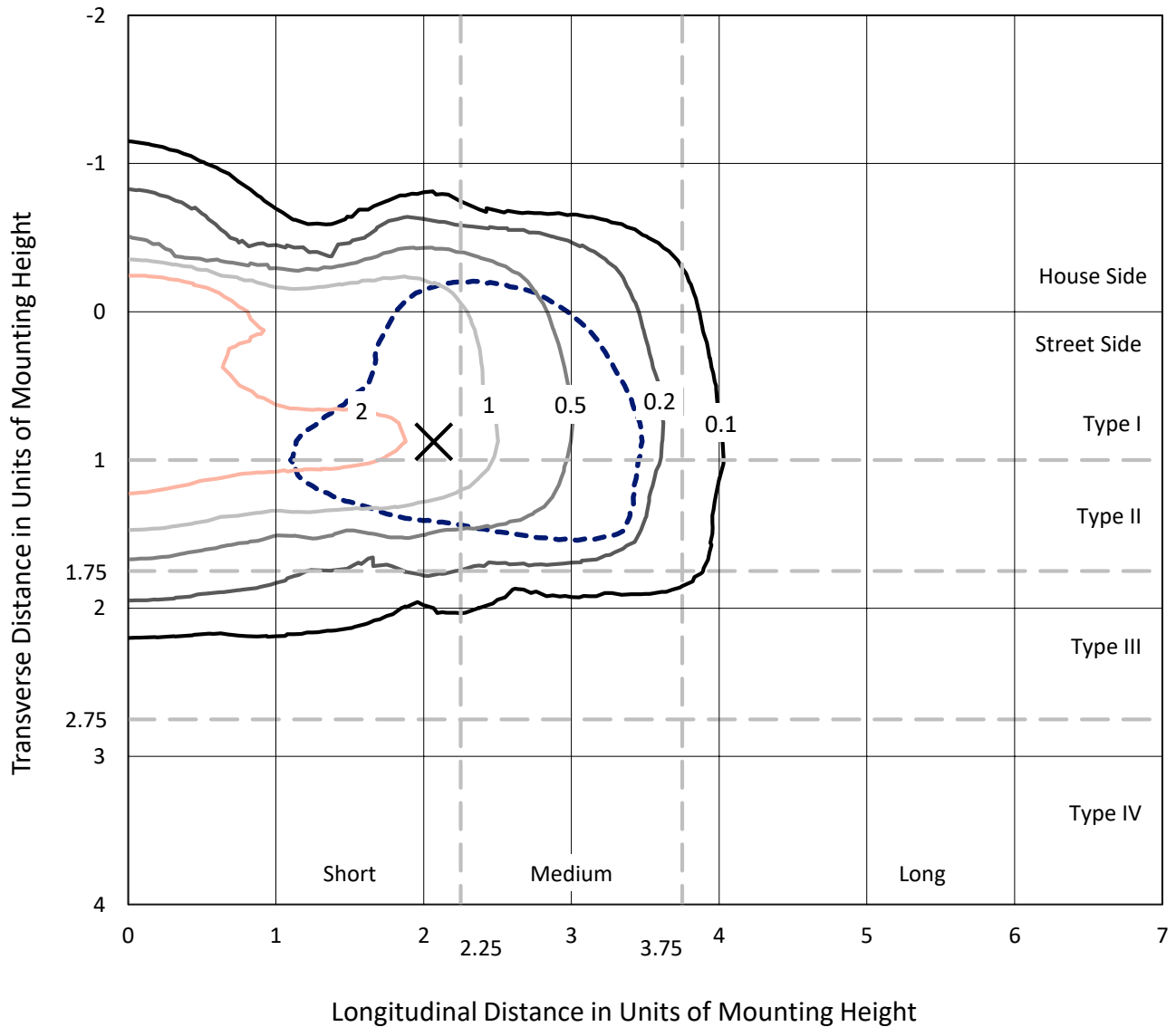
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

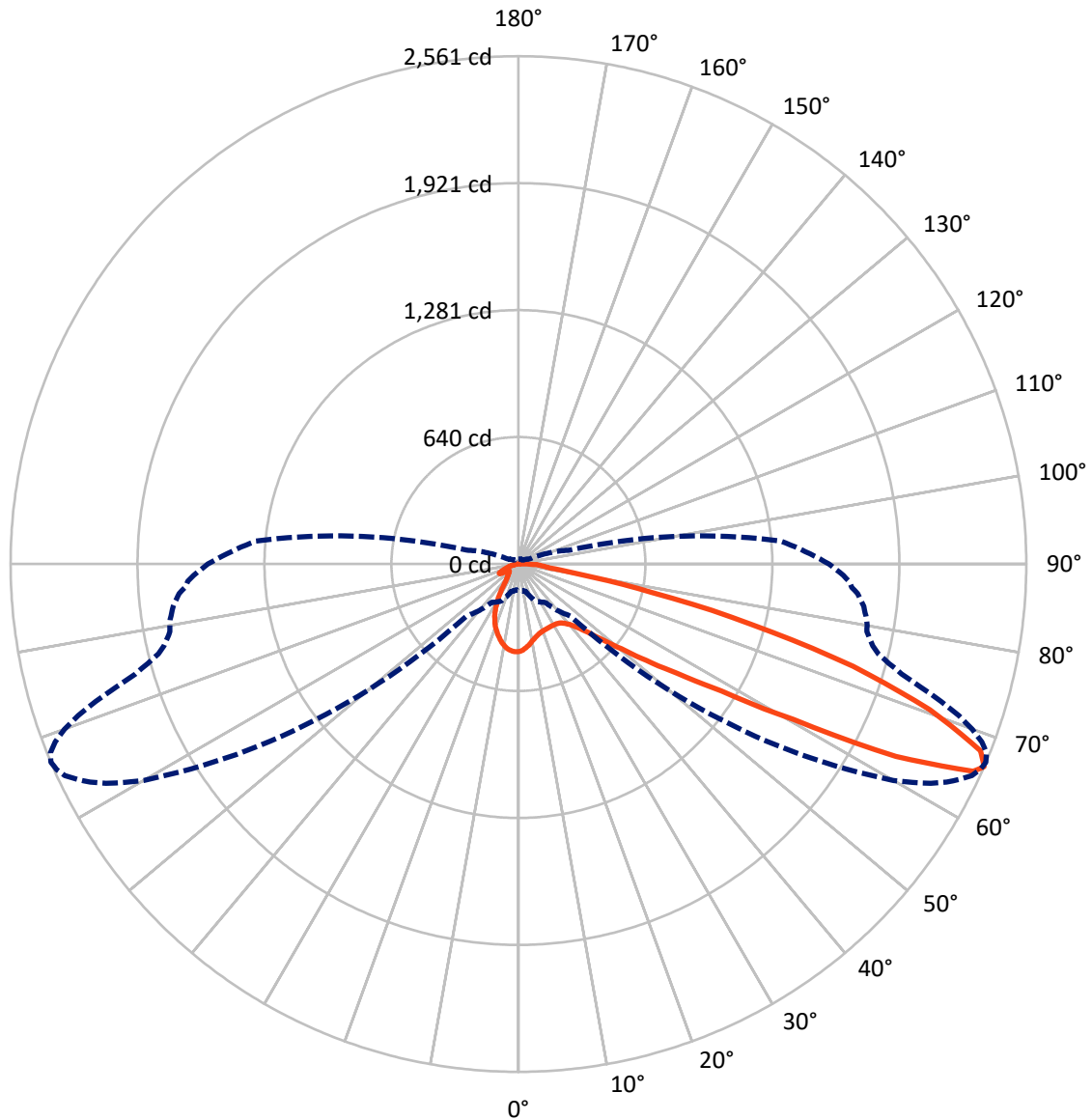
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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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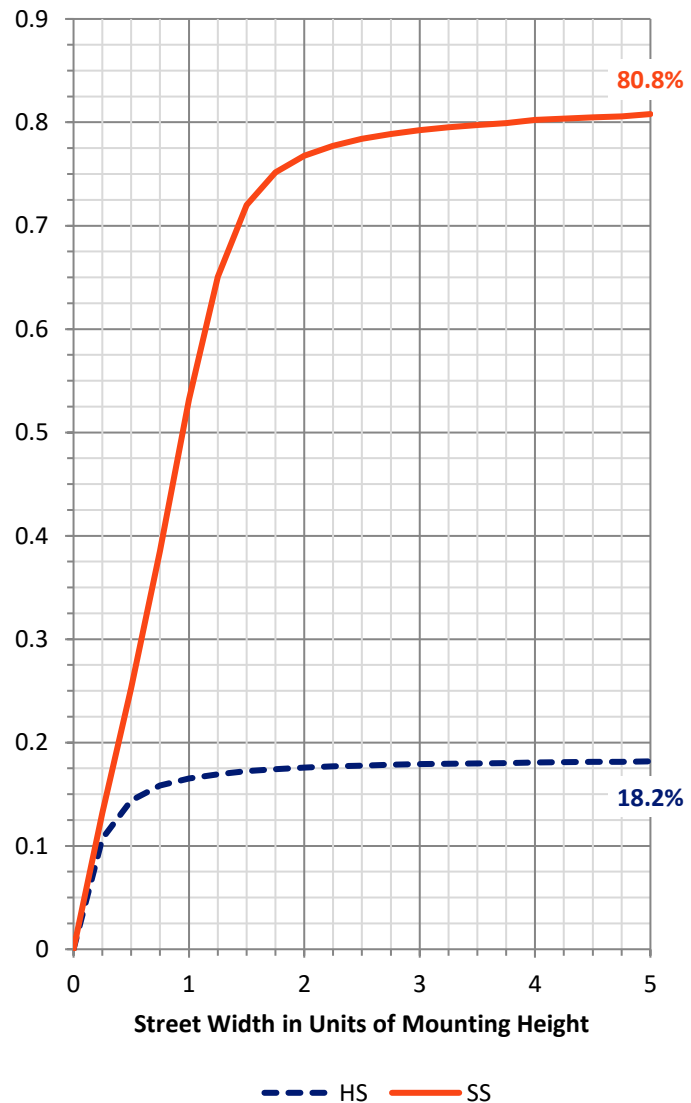
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.2	0.2	387.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	1708.8	0.6	1709.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	2096.0	0.8	2096.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	1.8
10°-20°	91.1	4.3
20°-30°	124.9	6.0
30°-40°	178.5	8.5
40°-50°	289.3	13.8
50°-60°	458.4	21.9
60°-70°	580.9	27.7
70°-80°	288.8	13.8
80°-90°	45.7	2.2
90°-100°	0.8	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°	2096.0	100.0
0°-180°	2096.7	100.0



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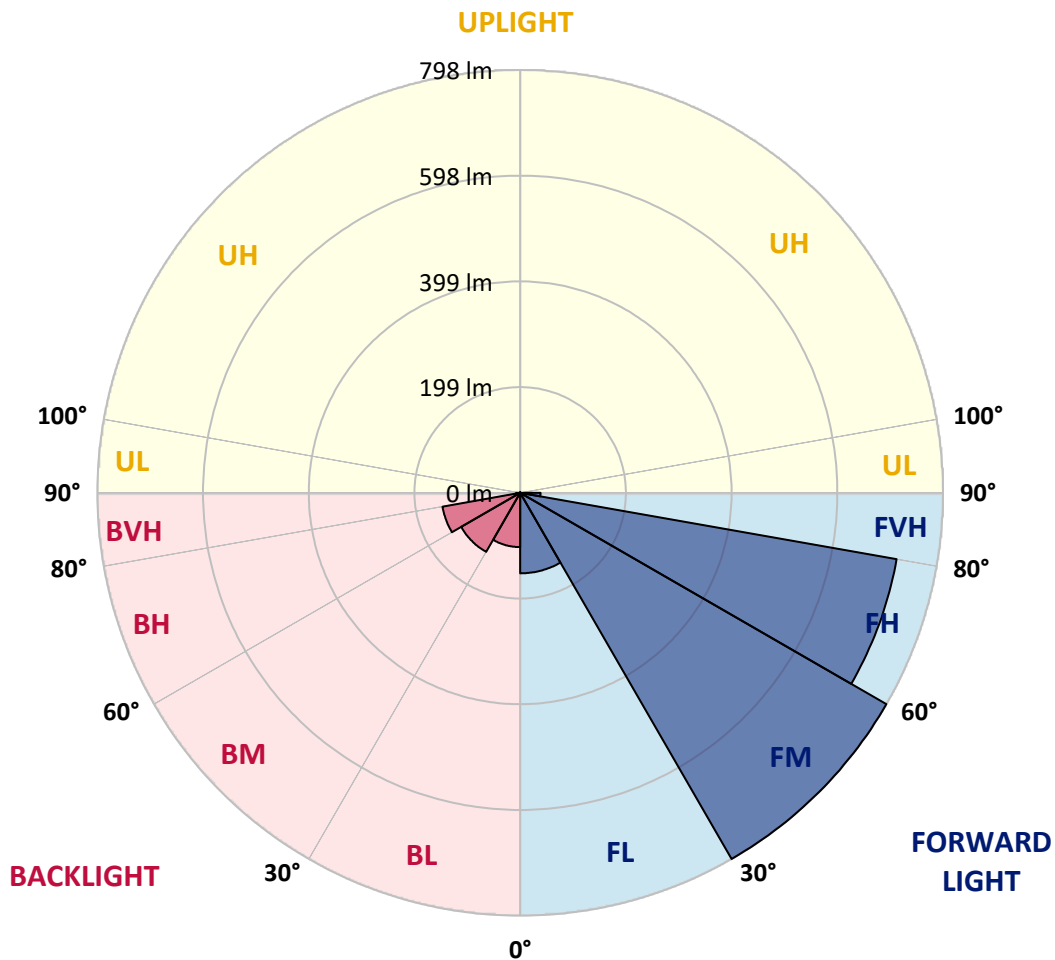
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.9	7.2			
FM	(30°-60°)	797.6	38.0			
FH	(60°-80°)	720.9	34.4			G1/1800
FVH	(80°-90°)	38.4	1.8			G1/100
BL	(0°-30°)	102.4	4.9	B0/110		
BM	(30°-60°)	128.6	6.1	B0/220		
BH	(60°-80°)	148.8	7.1	B1/500		G1/500
BVH	(80°-90°)	7.4	0.4			G0/10
UL	(90°-100°)	0.8	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°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	410.2	411.2	416.5	419.3	423.4	424.7	429.4	431.3	432.8	432.5	432.5
5°	373.2	376.1	378.6	384.4	390.3	397.5	406.8	413.6	414.8	416.5	417.4
7.5°	345.3	347.1	351.6	355.7	363.3	373.2	386.2	395.1	396.9	397.5	399.7
10°	325.5	326.6	330.5	335.8	344.6	354.4	367.9	377.1	379.9	381.2	383.0
12.5°	309.9	311.8	315.3	321.1	330.5	340.5	354.7	363.8	365.7	367.2	370.1
15°	300.2	301.5	304.6	310.9	319.4	329.5	343.3	354.4	355.7	357.3	359.7
17.5°	298.2	299.2	301.1	306.0	312.5	322.2	336.4	345.6	347.7	350.0	352.6
20°	306.0	306.5	307.1	307.8	311.5	317.8	331.7	341.4	343.3	345.3	348.5
22.5°	322.2	323.2	321.6	319.4	316.7	317.8	329.5	339.6	340.9	342.7	345.3
25°	350.6	349.7	344.9	341.4	331.4	323.2	330.1	338.6	340.2	342.2	344.9
27.5°	383.9	382.8	379.9	370.4	353.8	337.0	333.9	340.2	341.2	342.7	345.3
30°	419.9	420.2	417.7	407.3	385.9	357.9	342.4	344.1	344.6	345.8	347.5
32.5°	452.4	457.1	456.8	456.1	425.5	385.9	358.9	352.6	351.6	352.6	353.1
35°	489.8	490.8	499.5	503.9	479.2	426.9	382.8	368.8	365.1	365.4	364.8
37.5°	530.2	531.4	546.6	554.2	534.9	473.5	414.6	393.2	389.7	386.2	383.7
40°	588.7	593.8	601.7	610.2	600.8	536.2	456.5	427.4	418.7	418.0	413.0
42.5°	676.3	674.8	670.9	678.0	666.5	606.4	507.1	476.0	469.4	460.5	453.6
45°	762.3	765.9	749.5	752.6	753.2	687.7	580.6	536.7	533.3	522.9	515.4
47.5°	820.3	816.5	794.6	810.5	849.9	782.5	665.6	619.7	612.4	607.1	602.3
50°	823.5	820.3	806.0	834.4	918.6	951.0	784.1	730.5	720.1	710.6	707.9
52.5°	746.6	742.2	746.9	804.5	943.5	1092.2	951.3	868.2	859.7	851.9	840.7
55°	609.6	614.6	637.0	719.8	905.3	1192.3	1280.5	1080.8	1044.3	1044.0	1016.9
57.5°	455.2	450.1	466.8	544.6	808.9	1227.9	1582.9	1533.5	1451.9	1396.8	1330.3
60°	307.1	308.4	323.7	363.8	563.0	1189.2	1785.5	1957.9	1929.2	1917.5	1899.6
62.5°	213.0	214.9	229.0	266.4	329.2	956.8	1844.7	2195.6	2247.0	2289.5	2279.1
65°	149.0	149.3	163.5	221.4	246.7	491.5	1714.0	2227.2	2303.7	2376.7	2442.3
66°	131.3	131.7	143.3	206.0	236.5	370.8	1600.6	2183.4	2270.6	2355.6	2423.4
67.5°	112.5	114.4	123.4	175.2	226.8	286.0	1322.1	2052.6	2144.0	2237.6	2327.0
70°	77.2	77.8	86.0	142.1	212.3	251.1	753.5	1602.5	1728.8	1893.3	1988.4
72.5°	55.2	54.4	55.4	87.9	218.0	249.5	396.0	1054.7	1231.4	1375.7	1478.7
75°	49.1	47.6	43.5	54.4	159.1	272.5	265.2	620.9	755.5	886.8	992.3
77.5°	43.7	41.2	39.1	42.0	78.7	256.7	238.1	355.7	424.3	522.3	603.6
80°	33.3	31.8	33.1	36.2	47.3	236.3	236.5	236.5	255.2	287.3	319.4
82.5°	22.1	20.1	23.0	29.9	35.7	178.0	244.5	208.9	205.4	204.2	206.3
85°	13.8	11.9	16.1	22.4	27.4	93.0	250.8	220.5	204.5	189.0	173.6
87.5°	5.0	5.7	8.2	12.9	18.0	40.3	219.8	194.3	183.3	164.1	146.2
90°	1.3	1.0	1.5	3.9	4.1	7.5	33.7	53.9	32.1	16.1	12.9
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



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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°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	432.8	434.4	435.0	434.4	434.7	436.6	435.9	436.9	436.9	437.6	437.6
5°	418.7	419.9	422.5	422.1	424.7	425.5	426.5	427.9	429.4	430.3	432.3
7.5°	401.9	404.5	406.8	407.9	409.4	412.7	413.6	416.5	419.0	421.5	423.4
10°	385.9	389.3	391.9	392.8	396.3	397.9	401.4	403.5	406.8	409.9	412.7
12.5°	372.3	375.5	376.7	379.9	383.0	386.2	387.8	391.9	395.1	399.2	402.9
15°	362.3	365.4	367.9	370.1	373.2	376.4	378.9	383.0	386.8	390.9	394.4
17.5°	356.0	357.9	361.0	362.8	366.7	370.4	373.2	378.1	382.0	385.6	390.3
20°	351.2	353.4	356.3	359.1	362.6	367.2	369.8	374.9	379.3	383.4	387.8
22.5°	348.7	350.9	353.8	356.5	360.4	364.2	368.2	372.7	377.4	381.8	386.2
25°	347.7	349.7	352.1	355.0	359.1	363.3	366.7	371.7	375.9	380.5	385.9
27.5°	348.1	349.4	352.1	354.7	358.9	362.6	366.1	371.1	375.9	380.3	385.6
30°	349.4	350.2	353.1	355.3	358.9	362.6	365.7	371.1	375.2	379.9	385.6
32.5°	353.8	355.0	356.3	357.9	361.0	363.8	367.7	372.3	376.1	380.8	385.6
35°	364.2	363.3	364.2	364.8	367.0	369.8	372.7	376.7	380.3	384.4	389.3
37.5°	380.5	378.6	379.3	378.9	378.9	380.8	383.7	386.5	389.3	393.5	398.5
40°	410.7	406.0	404.8	401.4	400.4	401.9	403.9	404.1	407.7	413.0	415.2
42.5°	449.8	443.5	444.5	438.8	437.3	435.4	437.8	436.3	438.6	442.0	446.6
45°	511.6	505.6	499.3	490.1	492.0	485.2	483.3	483.8	483.6	484.8	490.5
47.5°	585.2	577.4	573.3	569.9	563.2	559.1	553.7	545.9	547.8	550.3	555.4
50°	693.0	690.4	682.6	671.3	669.8	663.8	662.2	655.2	652.7	652.3	652.1
52.5°	837.0	820.6	817.5	806.8	798.5	792.9	791.0	781.3	771.5	777.1	776.6
55°	1012.5	998.9	981.6	972.1	965.5	951.9	948.5	936.2	930.6	927.4	919.5
57.5°	1307.3	1259.7	1224.1	1206.5	1181.6	1156.4	1147.7	1122.4	1102.8	1089.0	1089.9
60°	1821.4	1736.6	1636.8	1592.1	1488.4	1473.3	1402.2	1384.7	1342.0	1313.6	1297.2
62.5°	2271.9	2248.9	2200.9	2135.8	2031.9	1912.1	1858.2	1751.2	1667.3	1630.9	1580.1
65°	2487.0	2519.5	2532.7	2520.5	2478.9	2405.8	2341.5	2236.9	2096.5	2017.1	1918.4
66°	2476.0	2524.1	2548.5	2561.1	2546.0	2502.8	2435.3	2349.3	2240.7	2119.7	2009.1
67.5°	2395.4	2442.3	2476.0	2514.4	2514.4	2500.9	2473.6	2416.2	2339.3	2233.7	2134.6
70°	2065.8	2129.5	2189.0	2200.7	2233.5	2223.3	2245.1	2208.6	2190.2	2146.2	2092.9
72.5°	1609.4	1662.7	1713.7	1764.7	1756.2	1745.1	1743.0	1750.5	1713.3	1726.6	1712.8
75°	1070.4	1162.0	1214.4	1209.4	1212.8	1215.7	1192.3	1140.4	1180.7	1129.7	1146.7
77.5°	650.6	693.0	707.2	691.4	670.9	644.5	602.0	577.1	541.5	544.4	520.7
80°	341.2	346.6	335.2	303.4	286.0	270.3	221.8	200.1	179.9	172.4	155.2
82.5°	195.7	182.7	168.8	158.1	137.7	123.8	104.9	93.0	79.9	68.7	64.6
85°	158.4	141.1	128.2	116.2	102.4	90.1	74.3	62.1	52.6	45.6	44.1
87.5°	130.7	118.8	105.6	94.2	80.7	68.0	52.6	41.0	32.5	26.1	24.3
90°	11.7	15.7	11.4	6.3	9.4	5.0	2.9	3.1	2.5	2.5	2.9
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



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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



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	438.6	438.6	439.1	439.8	440.1	440.1	440.1	440.7	441.0	440.1	441.0
5°	433.2	434.7	435.9	436.9	437.3	438.2	439.1	439.8	440.7	440.7	441.3
7.5°	425.9	428.7	430.3	431.8	433.4	435.0	436.9	438.2	438.8	440.1	441.0
10°	416.7	420.2	423.4	425.9	428.1	431.3	433.8	435.7	438.6	438.8	441.0
12.5°	407.0	412.1	414.6	419.3	422.5	427.1	429.7	432.5	435.7	437.3	439.8
15°	400.0	404.5	409.2	413.6	418.7	424.3	427.4	431.3	435.7	439.1	442.2
17.5°	394.7	400.7	406.0	411.7	418.0	424.0	428.7	432.8	438.6	440.3	443.5
20°	393.2	399.7	405.1	411.2	417.7	425.5	431.3	435.7	441.3	444.5	447.4
22.5°	392.5	398.8	405.1	412.3	419.6	427.9	433.8	439.5	445.1	448.0	450.1
25°	391.9	398.5	405.5	413.6	421.5	430.0	436.9	442.2	447.6	450.5	452.4
27.5°	391.9	398.8	406.3	414.6	423.0	432.5	439.1	444.2	449.0	451.4	452.0
30°	391.6	398.8	406.0	415.2	424.3	434.2	441.3	446.1	450.1	451.8	451.1
32.5°	392.2	399.7	407.7	416.7	426.2	435.7	443.2	448.5	450.8	450.5	450.1
35°	395.3	402.4	411.4	420.6	430.3	439.1	446.4	450.1	452.0	451.4	449.8
37.5°	403.9	410.7	419.9	430.0	437.6	447.6	454.3	457.1	457.3	455.5	451.8
40°	421.5	428.4	436.6	447.6	456.8	463.7	470.0	473.1	471.3	467.7	463.7
42.5°	449.5	458.3	468.1	476.9	487.6	497.1	498.6	500.5	497.4	490.8	485.7
45°	494.6	500.0	512.6	519.1	533.1	537.7	541.2	542.1	535.2	529.9	521.1
47.5°	559.5	569.9	578.7	585.0	595.0	601.3	608.3	605.2	599.8	590.6	579.0
50°	661.5	668.2	679.5	690.9	701.6	706.0	706.0	702.8	699.3	681.7	667.5
52.5°	786.9	787.5	803.9	817.5	826.6	820.1	827.9	820.1	817.7	805.5	793.8
55°	932.1	926.2	945.9	958.0	966.1	974.0	972.4	971.4	963.3	949.5	935.2
57.5°	1070.2	1087.4	1096.9	1114.5	1118.6	1124.0	1121.7	1118.6	1113.9	1106.0	1099.7
60°	1269.1	1280.8	1289.3	1292.8	1304.5	1306.0	1314.0	1301.0	1304.2	1295.1	1275.1
62.5°	1540.1	1527.5	1534.1	1534.1	1530.6	1518.3	1525.1	1530.0	1521.5	1513.9	1510.8
65°	1843.5	1802.8	1763.7	1757.2	1739.2	1735.1	1730.0	1717.5	1712.1	1698.9	1688.2
66°	1934.2	1871.2	1834.2	1811.6	1790.0	1785.2	1778.3	1765.0	1754.3	1735.7	1717.8
67.5°	2036.0	1954.6	1899.3	1867.0	1840.3	1822.8	1808.7	1790.0	1773.0	1745.1	1716.5
70°	2029.3	1962.3	1895.4	1846.6	1806.3	1770.1	1748.6	1707.9	1673.4	1633.7	1600.9
72.5°	1705.2	1693.2	1654.5	1627.1	1577.6	1558.4	1501.7	1475.8	1427.9	1376.7	1360.8
75°	1185.4	1138.4	1118.6	1107.6	1085.8	1026.0	987.0	995.4	939.4	889.3	860.7
77.5°	518.2	527.7	472.9	448.3	429.4	396.9	366.7	345.8	333.9	326.1	290.4
80°	143.3	125.0	123.4	114.6	112.7	100.5	102.0	93.2	87.2	86.0	83.1
82.5°	62.7	61.4	59.6	58.6	57.6	56.4	54.8	54.4	52.6	51.0	51.3
85°	41.6	41.2	40.3	39.3	37.8	35.7	34.0	32.8	33.1	31.5	31.2
87.5°	24.3	23.6	23.4	22.1	21.6	19.9	20.1	18.5	18.2	18.0	17.0
90°	3.4	3.9	4.7	4.4	3.1	6.0	5.0	4.4	4.7	3.9	3.9
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



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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°		86°
441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	110°	0.0
442.0	442.5	443.0	442.5	443.2	443.0	443.2	443.0	441.3	441.0	440.7	112.5°	0.0
442.5	443.9	444.2	444.5	443.9	444.5	443.2	438.2	432.5	426.2	421.1	115°	0.0
443.2	444.8	445.8	445.8	446.1	445.4	440.7	429.7	416.5	403.2	393.2	117.5°	0.0
443.0	445.1	446.1	446.4	446.4	445.1	433.8	416.2	396.0	375.9	355.3	120°	0.0
442.0	443.9	445.4	445.4	445.8	441.3	423.7	398.5	369.8	339.6	312.3	122.5°	0.0
443.9	445.8	445.8	445.8	445.4	437.8	413.0	376.4	338.0	297.1	256.5	125°	0.0
446.6	447.6	447.0	447.0	445.8	434.4	401.0	354.7	304.3	250.1	193.5	127.5°	0.0
449.2	449.8	449.5	448.0	446.4	430.6	388.8	331.7	264.0	193.5	137.0	130°	0.0
451.8	452.4	450.8	448.3	446.1	425.5	374.0	302.4	218.3	132.3	90.7	132.5°	0.0
452.0	452.7	449.8	446.4	443.2	418.0	356.0	271.2	168.3	85.7	70.9	135°	0.0
451.8	451.1	446.4	442.0	438.6	408.9	336.1	232.5	112.2	64.6	61.7	137.5°	0.0
449.5	446.6	443.0	437.8	432.8	398.8	316.2	189.4	70.9	56.1	56.1	140°	0.0
446.4	443.5	438.8	432.3	426.5	389.1	293.6	145.3	56.8	51.7	52.3	142.5°	0.0
445.1	442.0	435.0	428.1	420.9	380.3	269.6	97.6	51.0	48.8	49.1	145°	0.0
447.6	442.2	435.4	427.4	419.0	372.7	244.8	68.0	48.1	45.6	46.4	147.5°	0.0
456.1	451.1	443.0	432.8	423.7	368.2	218.3	56.4	45.4	43.2	43.2	150°	0.0
476.6	470.0	458.9	447.0	435.9	371.1	194.8	51.3	43.2	41.0	41.0	152.5°	0.0
509.7	501.8	488.9	475.3	460.9	384.9	167.9	49.5	41.6	38.4	37.8	155°	0.0
566.4	556.1	539.1	522.9	505.6	408.9	140.9	48.1	39.6	36.9	35.7	157.5°	0.0
655.5	640.1	619.9	598.8	577.7	452.7	119.4	46.9	38.4	35.7	34.3	160°	0.0
770.2	759.9	734.6	706.9	681.7	539.9	107.1	46.0	37.5	34.0	33.1	162.5°	0.0
916.5	899.3	879.5	854.6	824.7	653.0	105.8	45.6	36.5	32.8	32.1	165°	0.0
1070.7	1064.1	1030.4	1014.9	982.6	803.6	128.9	46.4	35.9	31.8	30.9	167.5°	0.0
1246.8	1249.4	1217.8	1200.9	1174.1	994.5	205.0	48.1	35.9	30.9	29.9	170°	0.0
1477.2	1481.1	1444.0	1423.8	1401.2	1208.4	322.2	51.3	36.9	29.9	28.9	172.5°	0.0
1665.7	1643.8	1619.8	1584.5	1555.9	1327.8	310.3	57.0	38.1	28.9	28.0	175°	0.0
1685.3	1669.6	1639.4	1601.2	1566.3	1328.4	270.9	58.9	38.4	28.7	27.7	177.5°	0.0
1682.9	1654.8	1620.5	1588.3	1554.0	1294.4	209.5	61.4	39.3	28.0	27.1	180°	0.0
1566.3	1526.8	1493.5	1449.1	1413.1	1158.4	128.9	61.2	38.1	26.1	25.5		
1291.5	1271.4	1231.7	1196.1	1158.6	937.5	88.2	54.4	33.7	23.6	24.0		
835.4	812.4	772.1	751.9	730.8	599.8	68.7	44.5	28.7	21.1	22.1		
278.7	269.6	254.8	263.0	250.8	233.8	50.5	33.7	23.0	18.2	19.5		
83.5	81.6	84.4	79.4	84.1	71.1	33.1	23.6	17.7	15.7	17.3		
49.5	48.8	48.8	48.8	47.6	44.5	21.6	16.3	13.6	13.3	14.6		
30.3	29.6	29.9	29.6	30.3	27.1	14.8	11.4	10.2	9.7	11.7		
17.3	17.3	17.7	17.0	17.3	16.7	10.4	7.3	6.6	6.3	8.5		
4.1	4.1	3.1	2.9	3.1	4.4	2.9	2.2	1.9	1.5	2.9		
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		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'271622
 IST-AF-350-LED-E1-SL2-7027

REPORT NUMBER: P271622
 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°	441.3	441.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	438.2	435.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	413.3	407.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	377.4	370.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	336.4	326.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	284.1	263.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	223.7	196.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	154.0	132.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	108.1	99.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	83.5	83.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	69.3	72.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	61.2	64.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	56.1	58.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	52.6	53.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	48.5	49.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	45.1	45.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	42.0	41.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	39.1	38.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	36.2	36.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	34.7	34.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	33.1	33.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	31.8	31.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	30.5	30.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	29.6	28.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	28.7	28.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	28.0	27.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	27.4	26.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	27.1	26.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	26.8	26.1
										70°	25.5	25.0
										72.5°	23.6	23.4
										75°	21.6	21.1
										77.5°	19.2	19.0
										80°	16.3	16.1
										82.5°	13.8	13.3
										85°	11.0	10.4
										87.5°	7.5	7.0
										90°	1.9	2.2
										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: P271622

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

0-LED-E1-SL2-7027

tinued):

175°	180°
441.3	441.3
434.2	436.9
405.5	404.5
364.8	365.1
315.7	316.2
252.1	248.2
180.5	182.1
125.8	125.3
100.8	101.4
86.2	86.2
76.9	76.9
67.7	68.0
61.4	62.1
55.8	56.1
50.0	50.5
45.4	45.4
42.2	42.5
40.1	40.1
37.8	37.8
35.9	36.5
34.0	34.3
32.1	32.5
30.3	30.3
28.7	28.7
27.4	27.1
26.5	25.8
25.5	25.2
25.2	25.0
25.0	24.5
24.3	24.0
23.4	23.0
21.4	20.8
19.5	19.0
18.0	17.0
15.1	14.6
11.0	10.4
6.6	6.6
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

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180°

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(END OF REPORT)