

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: P271842

Luminaire Tested: **ISW-AF-600-LED-E1-SL2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-600-LED-E1-SL2-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5139.7 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

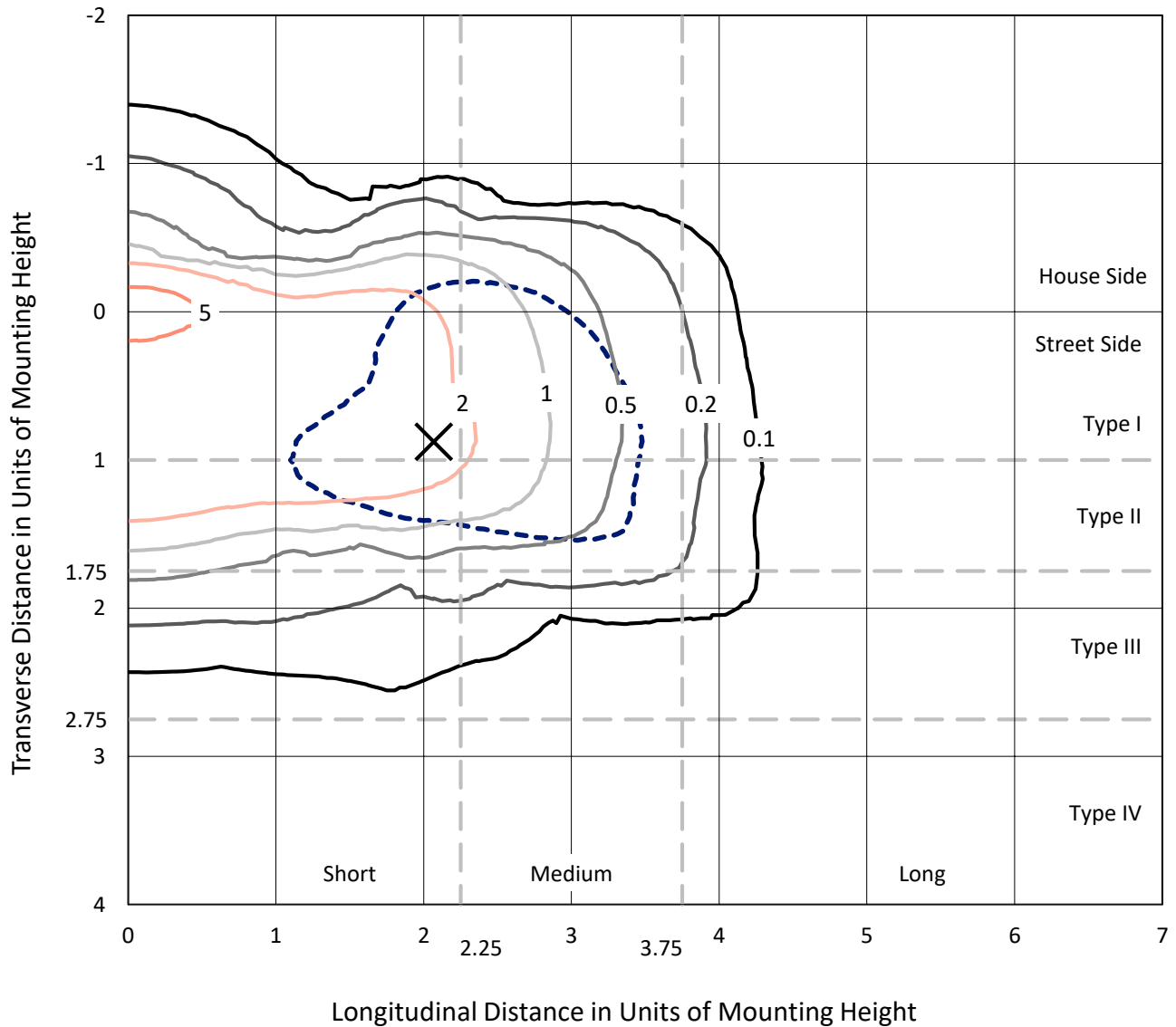
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

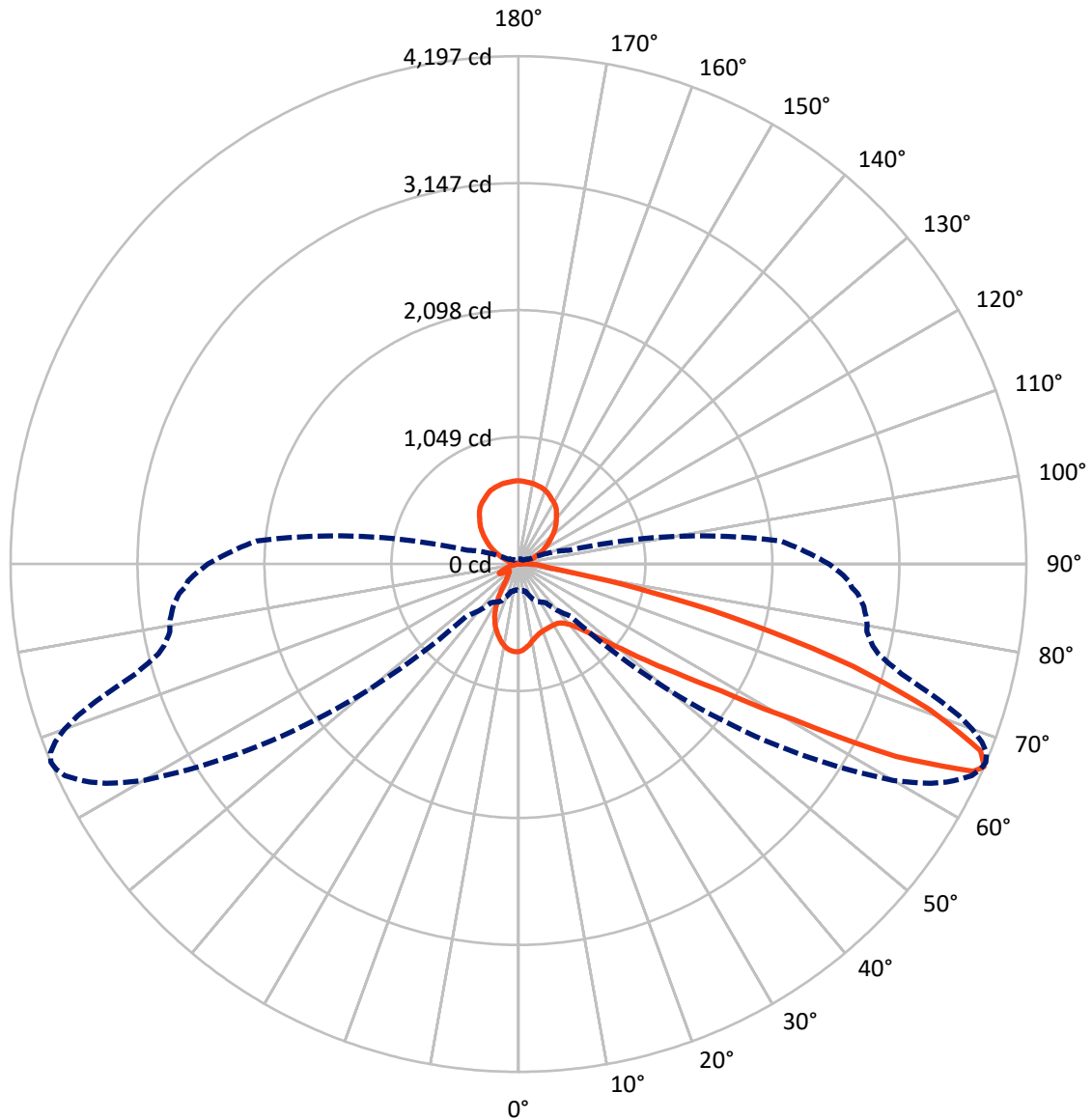
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-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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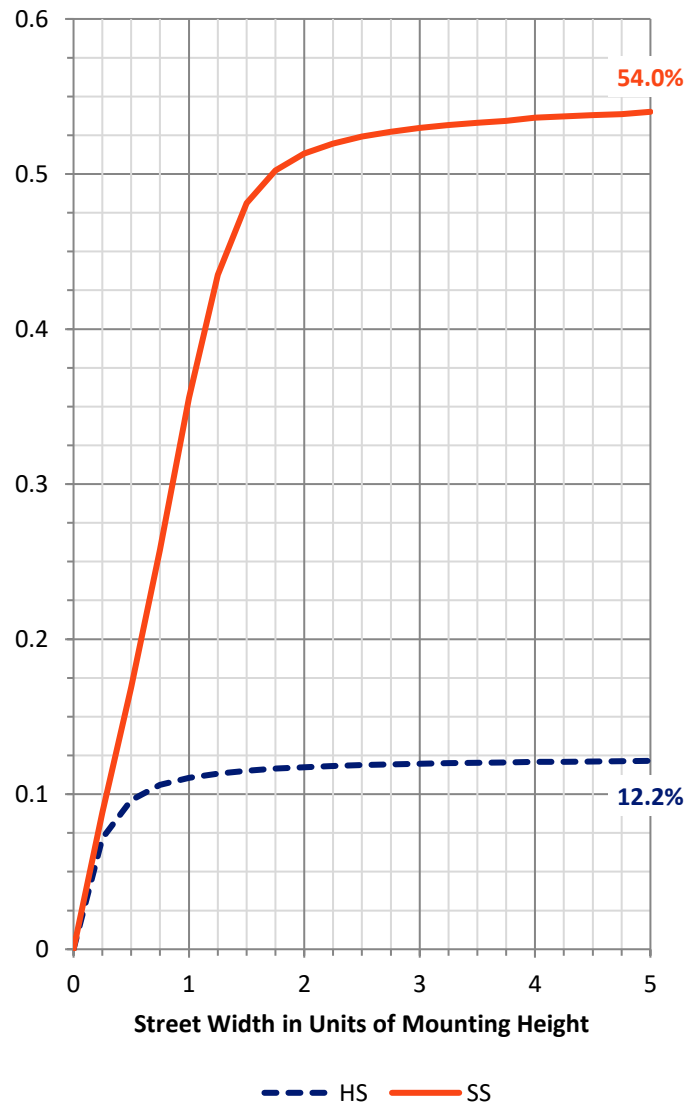
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.9	851.8	1486.6
	% Fixture	12.4	16.6	28.9
Street Side	Lumens	2800.6	852.5	3653.1
	% Fixture	54.5	16.6	71.1
Total	Lumens	3435.4	1704.2	5139.7
	% Fixture	66.8	33.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.2
10°-20°	149.3	2.9
20°-30°	204.7	4.0
30°-40°	292.4	5.7
40°-50°	474.1	9.2
50°-60°	751.2	14.6
60°-70°	951.9	18.5
70°-80°	473.2	9.2
80°-90°	76.0	1.5
90°-100°	10.3	0.2
100°-110°	56.3	1.1
110°-120°	163.0	3.2
120°-130°	268.1	5.2
130°-140°	330.6	6.4
140°-150°	338.2	6.6
150°-160°	284.9	5.5
160°-170°	187.6	3.7
170°-180°	65.0	1.3
0°-90°	3435.4	66.8
0°-180°	5139.7	100.0



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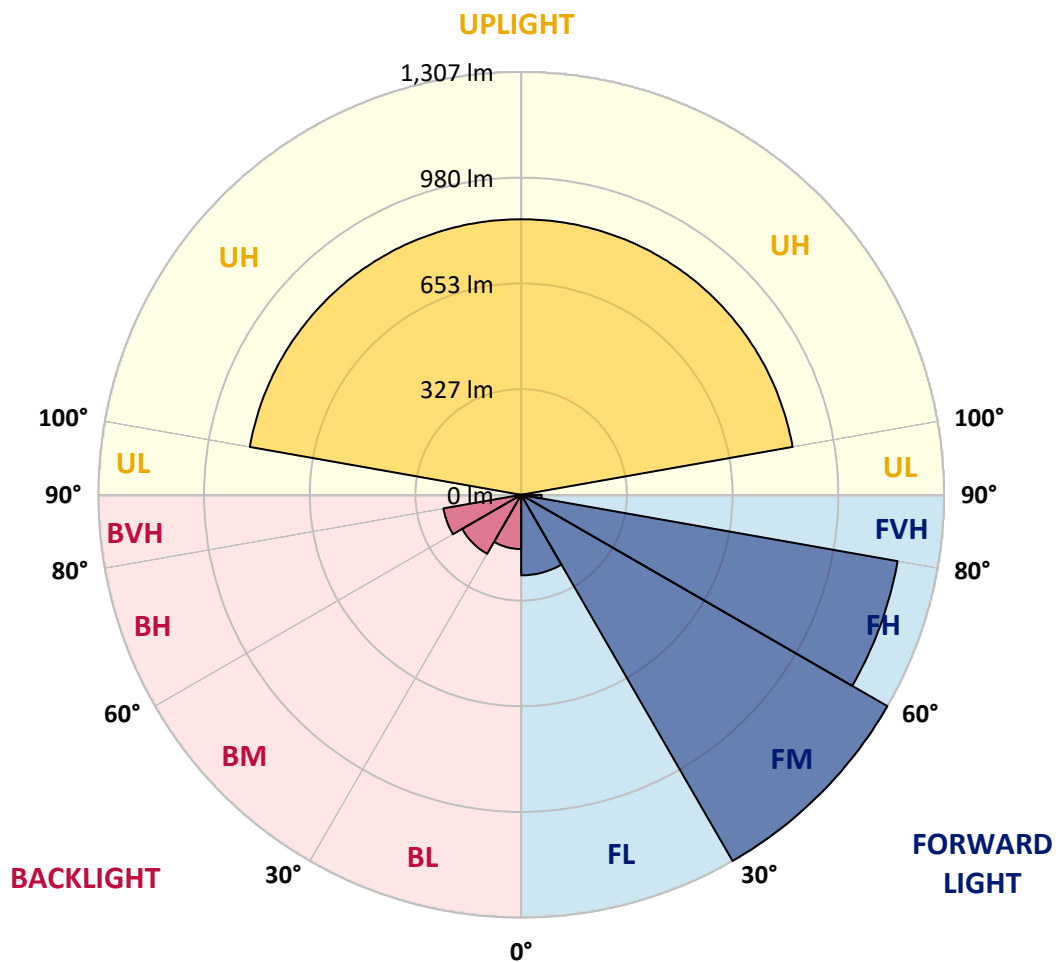
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.9	4.8			
FM (30°-60°)	1307.0	25.4			
FH (60°-80°)	1181.3	23.0			G1/1800
FVH (80°-90°)	63.4	1.2			G1/100
BL (0°-30°)	167.7	3.3	B1/500		
BM (30°-60°)	210.8	4.1	B0/220		
BH (60°-80°)	243.8	4.7	B1/500		G1/500
BVH (80°-90°)	12.6	0.2			G1/100
UL (90°-100°)	10.3	0.2		U2/50	
UH (100°-180°)	851.8	16.6		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1
2.5°	672.1	673.5	682.4	687.0	693.7	695.7	703.6	706.7	709.2	708.8	708.8
5°	611.7	616.3	620.5	629.7	639.5	651.5	666.5	677.7	679.7	682.4	683.9
7.5°	565.8	568.9	576.0	582.8	595.1	611.7	632.9	647.3	650.5	651.5	655.0
10°	533.2	535.3	541.5	550.2	564.8	580.8	602.9	617.9	622.5	624.6	627.6
12.5°	507.9	511.0	516.6	526.0	541.5	557.9	581.2	596.1	599.3	601.9	606.5
15°	491.9	494.0	499.2	509.5	523.4	539.9	562.7	580.8	582.8	585.3	589.5
17.5°	488.8	490.4	493.5	501.3	512.0	528.0	551.3	566.2	569.9	573.5	577.6
20°	501.3	502.2	503.3	504.3	510.5	520.8	543.6	559.6	562.7	565.8	571.0
22.5°	528.0	529.6	527.0	523.4	518.8	520.8	539.9	556.4	558.5	561.6	565.8
25°	574.6	573.0	565.2	559.6	543.0	529.6	541.0	555.0	557.5	560.6	565.2
27.5°	629.3	627.2	622.5	607.1	579.7	552.3	547.2	557.5	559.0	561.6	565.8
30°	688.1	688.6	684.5	667.4	632.4	586.3	561.1	563.7	564.8	566.8	569.3
32.5°	741.2	749.0	748.5	747.4	697.4	632.4	587.9	577.6	576.0	577.6	578.7
35°	802.6	804.3	818.6	825.9	785.1	699.4	627.2	604.5	598.2	598.8	597.7
37.5°	868.8	870.7	895.6	908.0	876.5	775.9	679.3	644.3	638.5	632.9	628.7
40°	964.7	973.0	985.9	999.8	984.4	878.5	748.0	700.5	686.0	685.0	676.7
42.5°	1108.3	1105.6	1099.4	1110.8	1092.2	993.6	831.0	780.0	769.1	754.7	743.3
45°	1249.1	1254.8	1228.1	1233.1	1234.2	1126.8	951.3	879.6	873.9	856.8	844.5
47.5°	1344.1	1337.9	1301.8	1328.1	1392.6	1282.2	1090.7	1015.4	1003.5	994.7	987.0
50°	1349.3	1344.1	1320.9	1367.4	1505.2	1558.4	1284.8	1197.0	1180.0	1164.6	1159.8
52.5°	1223.3	1216.1	1223.9	1318.4	1545.9	1789.6	1558.9	1422.6	1408.6	1395.8	1377.7
55°	998.8	1007.1	1043.7	1179.5	1483.6	1953.7	2098.4	1771.0	1711.1	1710.6	1666.3
57.5°	746.0	737.6	765.0	892.5	1325.6	2012.0	2593.9	2512.8	2379.1	2288.7	2179.8
60°	503.3	505.4	530.6	596.1	922.4	1948.6	2925.7	3208.0	3161.0	3142.0	3112.5
62.5°	348.9	352.0	375.2	436.7	539.4	1567.6	3022.8	3597.8	3682.0	3751.6	3734.5
65°	244.2	244.7	268.0	362.8	404.1	805.2	2808.6	3649.5	3774.9	3894.6	4001.9
66°	215.2	215.8	234.9	337.7	387.7	607.5	2622.7	3577.7	3720.6	3859.9	3971.0
67.5°	184.3	187.4	202.4	287.0	371.7	468.6	2166.4	3363.4	3513.1	3666.4	3813.0
70°	126.5	127.5	140.9	232.8	347.9	411.4	1234.7	2625.8	2832.9	3102.3	3258.2
72.5°	90.3	89.3	90.9	144.0	357.2	408.8	648.8	1728.2	2017.8	2254.2	2423.0
75°	80.5	78.0	71.2	89.3	260.7	446.5	434.6	1017.4	1237.9	1453.1	1626.0
77.5°	71.8	67.6	64.0	68.6	129.1	420.7	390.2	582.8	695.3	855.8	989.0
80°	54.7	52.1	54.2	59.4	77.4	387.1	387.7	387.7	418.1	470.7	523.4
82.5°	36.1	33.1	37.7	49.0	58.3	291.6	400.6	342.3	336.5	334.5	338.1
85°	22.6	19.7	26.3	36.7	44.9	152.3	410.9	361.3	335.0	309.7	284.4
87.5°	8.3	9.3	13.5	21.2	29.5	66.0	360.3	318.4	300.4	269.0	239.5
90°	7.0	6.5	9.4	14.0	14.6	19.2	62.2	96.1	60.6	34.6	29.6
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.4	7.5	7.5	7.6
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	10.8	10.6	10.4	10.2
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	26.9	26.7	26.4	26.1
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	47.6	47.3	47.0	46.7
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	69.7	69.5	69.3	69.1
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	92.7	92.6	92.5	92.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	118.3	118.4	118.5	118.6
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	146.2	146.4	146.6	146.9
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	177.1	177.4	177.8	178.0
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	209.0	209.5	209.8	210.2
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	243.4	243.8	244.2	244.6
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	275.8	276.2	276.6	276.9
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	308.2	308.4	308.6	308.7
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	339.1	339.2	339.3	339.4
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	372.0	372.3	372.8	373.2
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	405.9	406.3	406.8	407.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	437.3	437.7	438.2	438.7
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	465.2	465.4	465.6	465.8
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	491.7	491.9	492.1	492.3
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	520.2	520.7	521.4	521.9
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	548.7	549.2	549.9	550.4
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	571.7	572.2	572.7	573.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	587.4	587.7	588.0	588.3
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	601.1	601.4	601.8	602.0
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	616.9	617.3	617.9	618.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	634.0	634.5	634.8	635.2
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	648.8	649.4	649.9	650.6
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	656.6	657.0	657.4	657.8
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	662.1	662.5	662.9	663.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	668.4	669.0	669.6	670.1
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	674.8	675.1	675.3	675.6
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	677.7	678.0	678.3	678.6
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	679.7	680.2	680.6	681.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	683.6	684.1	684.6	685.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1
2.5°	709.2	711.7	712.9	711.7	712.4	715.4	714.4	715.9	715.9	716.9	716.9
5°	686.0	688.1	692.2	691.7	695.7	697.4	698.9	700.9	703.6	705.1	708.2
7.5°	658.6	662.8	666.5	668.5	671.0	676.2	677.7	682.4	686.6	690.7	693.7
10°	632.4	638.0	642.1	643.6	649.4	651.9	657.6	661.2	666.5	671.6	676.2
12.5°	610.1	615.2	617.3	622.5	627.6	632.9	635.4	642.1	647.3	654.0	660.3
15°	593.6	598.8	602.9	606.5	611.7	616.9	621.0	627.6	633.8	640.6	646.3
17.5°	583.3	586.3	591.5	594.7	600.9	607.1	611.7	619.4	626.1	631.8	639.5
20°	575.5	579.1	583.8	588.5	594.0	601.9	606.0	614.2	621.4	628.2	635.4
22.5°	571.4	575.1	579.7	584.3	590.5	596.7	603.4	610.7	618.4	625.6	632.9
25°	569.9	573.0	577.1	581.7	588.5	595.1	600.9	609.1	615.8	623.5	632.4
27.5°	570.3	572.4	577.1	581.2	587.9	594.0	599.8	608.1	615.8	623.1	631.8
30°	572.4	573.9	578.7	582.2	587.9	594.0	599.3	608.1	614.8	622.5	631.8
32.5°	579.7	581.7	583.8	586.3	591.5	596.1	602.4	610.1	616.3	624.1	631.8
35°	596.7	595.1	596.7	597.7	601.3	606.0	610.7	617.3	623.1	629.7	638.0
37.5°	623.5	620.5	621.4	621.0	621.0	624.1	628.7	633.3	638.0	644.7	653.0
40°	673.1	665.4	663.3	657.6	656.0	658.6	661.7	662.3	667.9	676.7	680.4
42.5°	737.1	726.8	728.3	719.0	716.5	713.3	717.5	714.9	718.6	724.2	732.0
45°	838.3	828.5	818.2	803.2	806.3	794.9	791.9	792.8	792.3	794.4	803.7
47.5°	959.1	946.2	939.4	933.8	922.9	916.2	907.5	894.5	897.7	901.8	910.1
50°	1135.5	1131.4	1118.6	1100.0	1097.4	1087.6	1085.1	1073.7	1069.5	1069.1	1068.5
52.5°	1371.5	1344.7	1339.6	1321.9	1308.5	1299.2	1296.2	1280.2	1264.2	1273.3	1272.4
55°	1659.0	1636.8	1608.4	1593.0	1582.2	1559.9	1554.2	1534.0	1524.9	1519.7	1506.7
57.5°	2142.2	2064.2	2005.8	1977.0	1936.2	1895.0	1880.4	1839.2	1807.2	1784.4	1786.0
60°	2984.6	2845.7	2682.1	2608.8	2439.0	2414.1	2297.5	2269.2	2198.9	2152.5	2125.6
62.5°	3722.7	3685.0	3606.5	3499.8	3329.4	3133.2	3045.0	2869.5	2732.1	2672.3	2589.2
65°	4075.3	4128.4	4150.1	4130.0	4061.9	3942.1	3836.8	3665.4	3435.2	3305.1	3143.6
66°	4057.1	4136.2	4176.0	4196.5	4171.8	4101.0	3990.6	3849.7	3671.6	3473.4	3292.2
67.5°	3925.1	4001.9	4057.1	4120.2	4120.2	4098.0	4053.1	3959.1	3833.2	3660.2	3497.6
70°	3385.2	3489.4	3586.9	3606.1	3659.8	3643.3	3678.8	3618.9	3589.0	3516.8	3429.5
72.5°	2637.2	2724.4	2808.0	2891.6	2877.7	2859.7	2856.0	2868.4	2807.6	2829.2	2806.5
75°	1754.0	1904.1	1989.8	1981.6	1987.3	1991.9	1953.7	1868.6	1934.7	1851.0	1879.0
77.5°	1065.9	1135.5	1158.8	1133.0	1099.4	1056.0	986.4	945.6	887.3	891.9	853.2
80°	559.0	567.8	549.2	497.1	468.6	442.9	363.4	327.8	294.7	282.3	254.5
82.5°	320.5	299.3	276.7	259.1	225.6	202.8	171.8	152.3	131.2	112.6	105.8
85°	259.6	231.2	210.1	190.5	167.7	147.6	121.8	101.7	86.1	74.9	72.2
87.5°	214.2	194.7	172.9	154.4	132.1	111.5	86.1	67.1	53.2	42.8	39.7
90°	27.8	34.7	27.4	19.1	24.3	17.1	13.5	14.0	12.9	12.9	13.5
92.5°	6.8	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	7.7	7.8	7.7	7.6	7.5	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.8	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	8.9
100°	25.8	25.5	25.2	25.0	24.6	24.3	24.1	23.7	23.4	23.2	22.9
102.5°	46.4	46.2	45.6	45.2	44.6	44.2	43.7	43.2	42.7	42.2	41.7
105°	68.9	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8	64.3
107.5°	92.3	92.3	91.9	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.8



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CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	118.7	118.8	118.6	118.4	118.1	117.9	117.8	117.6	117.4	117.2	117.0
112.5°	147.1	147.2	147.1	147.1	147.0	146.9	146.7	146.6	146.5	146.4	146.3
115°	178.3	178.7	178.3	178.0	177.8	177.4	177.1	176.9	176.6	176.2	176.0
117.5°	210.7	211.0	210.6	210.0	209.6	209.0	208.6	208.0	207.6	207.1	206.6
120°	245.0	245.3	244.9	244.4	243.9	243.4	242.9	242.5	241.9	241.5	240.9
122.5°	277.4	277.8	277.3	276.8	276.3	275.8	275.3	274.8	274.3	273.8	273.4
125°	308.9	309.2	308.7	308.2	307.7	307.2	306.7	306.2	305.7	305.2	304.7
127.5°	339.5	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
130°	373.5	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	407.8	408.3	408.1	407.9	407.7	407.5	407.3	407.1	406.9	406.8	406.6
135°	439.2	439.7	439.6	439.5	439.5	439.3	439.2	439.1	439.0	438.9	438.8
137.5°	466.0	466.2	466.3	466.4	466.5	466.6	466.7	466.8	466.8	467.0	467.1
140°	492.5	492.7	492.9	493.1	493.3	493.5	493.7	493.9	494.1	494.2	494.4
142.5°	522.5	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
145°	551.0	551.6	551.5	551.4	551.3	551.2	551.1	551.0	550.9	550.8	550.8
147.5°	573.7	574.2	574.3	574.4	574.5	574.6	574.6	574.7	574.8	574.9	575.1
150°	588.6	588.9	589.2	589.5	589.7	590.1	590.4	590.6	590.9	591.3	591.5
152.5°	602.3	602.7	603.0	603.4	603.8	604.2	604.6	605.0	605.4	605.7	606.2
155°	618.8	619.3	619.8	620.3	620.8	621.3	621.8	622.3	622.7	623.2	623.7
157.5°	635.6	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.3	637.5	637.8
160°	651.1	651.7	651.5	651.1	650.8	650.6	650.2	649.9	649.7	649.4	649.0
162.5°	658.2	658.5	658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.6
165°	663.9	664.5	664.7	665.0	665.4	665.6	665.9	666.3	666.5	666.8	667.1
167.5°	670.8	671.3	671.8	672.1	672.5	672.9	673.3	673.7	674.1	674.4	674.9
170°	676.0	676.2	676.7	677.2	677.7	678.2	678.7	679.2	679.7	680.2	680.6
172.5°	678.8	679.2	679.4	679.6	679.7	679.9	680.2	680.4	680.6	680.7	680.9
175°	681.6	682.2	682.3	682.4	682.4	682.5	682.6	682.7	682.8	682.9	683.0
177.5°	685.6	686.0	686.2	686.5	686.7	686.8	687.0	687.2	687.5	687.7	687.8
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1
2.5°	718.6	718.6	719.5	720.6	721.1	721.1	721.1	722.1	722.7	721.1	722.7
5°	709.8	712.4	714.4	715.9	716.5	718.0	719.5	720.6	722.1	722.1	723.1
7.5°	697.8	702.6	705.1	707.7	710.3	712.9	715.9	718.0	719.0	721.1	722.7
10°	682.9	688.6	693.7	697.8	701.5	706.7	710.8	713.8	718.6	719.0	722.7
12.5°	666.9	675.2	679.3	687.0	692.2	700.0	704.1	708.8	713.8	716.5	720.6
15°	655.5	662.8	670.6	677.7	686.0	695.3	700.5	706.7	713.8	719.5	724.8
17.5°	646.8	656.6	665.4	674.6	685.0	694.7	702.6	709.2	718.6	721.6	726.8
20°	644.3	655.0	663.8	673.5	684.5	697.4	706.7	713.8	723.1	728.3	732.9
22.5°	643.2	653.4	663.8	675.6	687.6	700.9	710.8	720.1	729.3	734.1	737.6
25°	642.1	653.0	664.4	677.7	690.7	704.6	715.9	724.8	733.5	738.1	741.2
27.5°	642.1	653.4	665.8	679.3	693.2	708.8	719.5	727.8	735.5	739.7	740.7
30°	641.6	653.4	665.4	680.4	695.3	711.3	723.1	731.0	737.6	740.2	739.1
32.5°	642.6	655.0	667.9	682.9	698.4	713.8	726.3	735.0	738.7	738.1	737.6
35°	647.8	659.2	674.2	689.1	705.1	719.5	731.4	737.6	740.7	739.7	737.1
37.5°	661.7	673.1	688.1	704.6	716.9	733.5	744.3	749.0	749.5	746.4	740.2
40°	690.7	702.0	715.4	733.5	748.5	759.9	770.2	775.2	772.3	766.5	759.9
42.5°	736.6	751.1	767.1	781.4	799.0	814.5	817.1	820.2	815.0	804.3	796.0
45°	810.5	819.2	839.8	850.7	873.4	881.1	886.8	888.3	876.9	868.2	853.7
47.5°	916.7	933.8	948.3	958.5	975.1	985.4	996.8	991.5	982.8	967.8	948.7
50°	1084.0	1094.9	1113.4	1132.0	1149.5	1156.7	1156.7	1151.5	1145.9	1117.0	1093.8
52.5°	1289.4	1290.4	1317.4	1339.6	1354.5	1343.7	1356.5	1343.7	1340.0	1319.9	1300.7
55°	1527.4	1517.6	1550.0	1569.7	1583.2	1596.1	1593.4	1591.9	1578.5	1555.8	1532.6
57.5°	1753.5	1781.9	1797.4	1826.3	1832.9	1841.7	1838.1	1832.9	1825.3	1812.3	1802.0
60°	2079.7	2098.8	2112.7	2118.5	2137.4	2140.1	2153.0	2131.9	2137.0	2122.1	2089.5
62.5°	2523.6	2502.9	2513.7	2513.7	2508.2	2487.9	2498.8	2507.1	2493.2	2480.8	2475.5
65°	3020.7	2954.2	2890.0	2879.2	2849.9	2843.1	2834.9	2814.2	2805.5	2783.8	2766.2
66°	3169.4	3066.2	3005.7	2968.6	2933.0	2925.2	2913.8	2892.1	2874.7	2844.1	2814.7
67.5°	3336.0	3202.9	3112.1	3059.4	3015.5	2986.7	2963.9	2933.0	2905.1	2859.7	2812.6
70°	3325.3	3215.3	3105.9	3025.9	2959.7	2900.4	2865.3	2798.7	2742.0	2676.9	2623.2
72.5°	2794.1	2774.4	2710.9	2666.1	2585.1	2553.5	2460.6	2418.2	2339.8	2255.7	2230.0
75°	1942.3	1865.5	1832.9	1814.8	1779.4	1681.2	1617.2	1631.1	1539.2	1457.2	1410.2
77.5°	849.1	864.6	774.8	734.5	703.6	650.5	600.9	566.8	547.2	534.2	475.9
80°	234.9	204.9	202.4	187.8	184.8	164.7	167.3	152.8	143.0	140.9	136.3
82.5°	102.8	100.7	97.6	96.0	94.4	92.3	89.8	89.3	86.1	83.6	84.1
85°	68.1	67.6	66.0	64.5	61.9	58.3	55.8	53.7	54.2	51.7	51.1
87.5°	39.7	38.6	38.2	36.1	35.7	32.5	33.1	30.5	29.9	29.5	27.8
90°	14.6	14.8	16.2	15.5	13.3	17.7	15.9	14.7	15.0	13.3	13.0
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8
100°	22.5	22.2	21.8	21.4	21.0	20.6	20.2	19.9	19.4	19.0	18.7
102.5°	41.2	41.0	40.6	40.3	40.1	39.7	39.4	39.2	38.9	38.5	38.3
105°	63.8	63.4	63.0	62.6	62.3	61.8	61.4	61.1	60.6	60.3	59.8
107.5°	88.3	88.0	87.8	87.5	87.1	86.9	86.6	86.2	86.0	85.7	85.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	116.8	116.5	116.2	115.9	115.6	115.3	115.1	114.7	114.4	114.2	113.8	0°
112.5°	146.2	146.1	145.9	145.6	145.4	145.3	145.1	144.9	144.6	144.4	144.3	2.5°
115°	175.7	175.5	175.3	175.1	174.9	174.7	174.5	174.3	174.1	173.9	173.7	5°
117.5°	206.1	205.9	205.7	205.5	205.4	205.2	204.9	204.7	204.5	204.4	204.2	7.5°
120°	240.5	240.3	240.0	239.8	239.7	239.5	239.3	239.1	238.9	238.7	238.5	10°
122.5°	272.8	272.6	272.5	272.3	272.1	271.8	271.6	271.5	271.3	271.1	270.9	12.5°
125°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.5	339.4	339.3	339.2	339.1	339.0	338.9	338.8	338.8	338.6	17.5°
130°	374.0	373.8	373.5	373.3	373.2	373.0	372.8	372.5	372.3	372.2	372.0	20°
132.5°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	438.7	439.0	439.3	439.6	439.9	440.2	440.5	440.8	441.1	441.3	441.7	25°
137.5°	467.2	467.7	468.2	468.6	469.2	469.6	470.2	470.6	471.1	471.6	472.1	27.5°
140°	494.7	495.1	495.7	496.1	496.7	497.1	497.6	498.1	498.6	499.1	499.5	30°
142.5°	523.2	523.3	523.4	523.4	523.5	523.6	523.7	523.8	523.9	524.0	524.1	32.5°
145°	550.6	550.3	550.0	549.8	549.4	549.1	548.9	548.5	548.2	548.0	547.7	35°
147.5°	575.2	574.8	574.6	574.3	573.9	573.7	573.4	573.1	572.8	572.5	572.2	37.5°
150°	591.8	592.2	592.4	592.7	593.0	593.3	593.6	593.9	594.2	594.5	594.8	40°
152.5°	606.5	607.1	607.5	608.1	608.5	609.1	609.5	609.9	610.5	610.9	611.5	42.5°
155°	624.2	624.4	624.6	624.8	625.0	625.2	625.4	625.6	625.8	626.0	626.2	45°
157.5°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	648.8	648.7	648.6	648.5	648.4	648.3	648.1	648.0	647.9	647.9	647.8	50°
162.5°	657.6	657.4	657.2	657.0	656.8	656.6	656.4	656.2	656.0	655.9	655.7	52.5°
165°	667.4	667.2	667.0	666.8	666.6	666.5	666.3	666.0	665.8	665.6	665.5	55°
167.5°	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	60°
172.5°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	62.5°
175°	683.1	682.9	682.7	682.5	682.4	682.2	681.9	681.7	681.5	681.4	681.2	65°
177.5°	688.0	687.7	687.5	687.1	686.8	686.6	686.2	685.9	685.7	685.4	685.0	66°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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°	
723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	723.1	110°	114.1
724.2	725.2	725.7	725.2	726.3	725.7	726.3	725.7	723.1	722.7	722.1	112.5°	144.3
725.2	727.3	727.8	728.3	727.3	728.3	726.3	718.0	708.8	698.4	690.2	115°	173.9
726.3	728.9	730.4	730.4	731.0	730.0	722.1	704.1	682.4	660.7	644.3	117.5°	204.4
725.7	729.3	731.0	731.4	731.4	729.3	710.8	681.8	648.8	615.8	582.2	120°	238.5
724.2	727.3	730.0	730.0	730.4	723.1	694.3	653.0	606.0	556.4	511.6	122.5°	271.1
727.3	730.4	730.4	730.4	730.0	717.5	676.7	616.9	553.9	486.7	420.1	125°	304.3
732.0	733.5	732.5	732.5	730.4	711.7	657.1	581.2	498.6	409.9	316.9	127.5°	339.0
736.1	737.1	736.6	734.1	731.4	705.6	637.0	543.6	432.5	316.9	224.6	130°	372.2
740.2	741.2	738.7	734.5	731.0	697.4	612.7	495.5	357.7	216.9	148.7	132.5°	406.6
740.7	741.7	737.1	731.4	726.3	685.0	583.3	444.4	275.6	140.5	116.2	135°	441.9
740.2	739.1	731.4	724.2	718.6	670.0	550.8	380.9	183.7	105.8	101.1	137.5°	472.3
736.6	732.0	725.7	717.5	709.2	653.4	518.2	310.3	116.2	91.9	91.9	140°	500.0
731.4	726.8	719.0	708.2	698.9	637.4	481.1	237.9	93.0	84.7	85.7	142.5°	524.5
729.3	724.2	712.9	701.5	689.6	623.1	441.9	160.0	83.6	79.9	80.5	145°	548.1
733.5	724.8	713.3	700.5	686.6	610.7	401.0	111.5	79.1	74.9	75.9	147.5°	572.6
747.4	739.1	725.7	709.2	694.3	603.4	357.7	92.3	74.3	70.8	70.8	150°	595.6
781.0	770.2	752.2	732.5	714.4	608.1	319.0	84.1	70.8	67.1	67.1	152.5°	612.5
835.2	822.3	801.1	778.9	755.1	630.8	275.2	81.0	68.1	63.0	61.9	155°	626.7
928.1	911.2	883.2	856.8	828.5	670.0	230.8	79.1	65.0	60.4	58.3	157.5°	639.0
1074.1	1049.0	1015.8	981.3	946.6	741.7	195.7	77.0	63.0	58.3	56.2	160°	648.9
1262.1	1245.1	1203.7	1158.4	1117.0	884.7	175.5	75.4	61.4	55.8	54.2	162.5°	656.8
1501.6	1473.7	1441.2	1400.4	1351.4	1070.0	173.5	74.9	59.8	53.7	52.6	165°	666.3
1754.5	1743.7	1688.5	1663.1	1610.0	1316.7	211.1	75.9	58.9	52.1	50.6	167.5°	676.4
2043.0	2047.1	1995.6	1967.6	1923.8	1629.5	336.1	79.1	58.9	50.6	49.0	170°	684.1
2420.3	2427.1	2366.1	2333.2	2296.0	1980.0	528.0	84.1	60.4	49.0	47.5	172.5°	684.1
2729.6	2693.5	2654.2	2596.4	2549.4	2175.8	508.4	93.4	62.4	47.5	45.9	175°	682.2
2761.6	2735.8	2686.2	2623.8	2566.5	2176.8	443.9	96.5	63.0	47.0	45.5	177.5°	685.9
2757.4	2711.5	2655.2	2602.6	2546.3	2121.0	343.2	100.7	64.5	45.9	44.4	180°	687.0
2566.5	2501.9	2447.3	2374.4	2315.7	1898.0	211.1	100.1	62.4	42.8	41.8		
2116.4	2083.3	2018.3	1959.9	1898.5	1536.1	144.5	89.3	55.2	38.6	39.3		
1368.8	1331.3	1265.2	1232.1	1197.5	982.8	112.6	72.9	47.0	34.6	36.1		
456.8	441.9	417.6	431.0	410.9	382.9	82.6	55.2	37.7	29.9	32.0		
136.8	133.7	138.2	130.1	137.8	116.7	54.2	38.6	28.9	25.8	28.4		
81.0	79.9	79.9	79.9	78.0	72.9	35.7	26.8	22.2	21.6	23.7		
49.6	48.5	49.0	48.5	49.6	44.4	24.3	18.5	16.5	16.0	19.1		
28.4	28.4	28.9	27.8	28.4	27.4	17.1	11.9	10.8	10.3	13.9		
13.6	13.6	12.0	11.5	12.0	14.1	13.5	12.5	10.0	9.4	12.5		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8		
7.8	7.8	7.8	7.8	7.8	7.8	8.8	9.8	11.8	8.8	8.8		
18.7	18.7	18.7	18.7	18.7	18.7	22.5	25.5	28.5	20.6	11.8		
38.1	37.9	37.7	37.5	37.3	38.3	41.2	46.2	49.0	39.3	26.5		
59.8	59.8	59.8	59.8	59.8	59.8	63.8	68.7	70.7	61.8	47.1		
85.2	85.0	84.8	84.6	84.4	85.4	88.3	92.3	93.2	86.3	71.7		

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 ISW-AF-600-LED-E1-SL2-7027-ULG

REPORT NUMBER: P271842
 CATALOG NUMBER: ISW-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
114.3	114.4	114.6	114.8	113.8	116.8	118.8	117.8	111.9	100.1	0°	723.1	723.1
144.3	144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	2.5°	718.0	714.4
174.1	174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	5°	677.2	667.4
204.5	204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	7.5°	618.4	607.1
238.5	238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	10°	551.3	534.2
271.3	271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	12.5°	465.6	432.1
304.3	304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	15°	366.5	321.5
339.4	339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	17.5°	252.4	216.3
372.3	372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	20°	177.1	163.6
406.8	406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	22.5°	136.8	137.4
442.1	442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	25°	113.5	118.8
472.5	472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	27.5°	100.1	105.3
500.4	500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	30°	91.9	96.5
524.9	525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	32.5°	86.1	88.2
548.4	548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	35°	79.5	80.5
573.0	573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	37.5°	73.8	73.8
596.4	597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	40°	68.6	68.1
613.5	614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	42.5°	64.0	63.5
627.4	627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	45°	59.4	59.8
640.0	640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	47.5°	56.9	57.3
650.1	651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	50°	54.2	54.7
658.0	659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	52.5°	52.1	52.1
667.0	667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	55°	50.0	49.6
677.6	678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	57.5°	48.5	47.5
685.0	686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	60°	47.0	45.9
685.0	686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	62.5°	45.9	44.4
683.1	684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	65°	44.9	43.8
686.7	687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	66°	44.4	43.4
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	43.8	42.8
										70°	41.8	40.7
										72.5°	38.6	38.2
										75°	35.7	34.6
										77.5°	31.5	31.0
										80°	26.8	26.3
										82.5°	22.6	21.6
										85°	18.1	17.1
										87.5°	12.4	11.4
										90°	11.0	10.5
										92.5°	5.9	4.9
										95°	6.8	5.9
										97.5°	7.8	7.8
										100°	9.8	8.8
										102.5°	17.7	12.8
										105°	35.3	26.5
										107.5°	57.0	48.1



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tinued):

175°	180°
723.1	723.1
711.3	715.9
664.4	662.8
597.7	598.2
517.2	518.2
413.0	406.8
295.8	298.3
205.9	205.4
165.2	166.2
141.4	141.4
125.9	125.9
111.0	111.5
100.7	101.7
91.4	91.9
82.0	82.6
74.3	74.3
69.2	69.7
65.6	65.6
61.9	61.9
58.9	59.8
55.8	56.2
52.6	53.2
49.6	49.6
47.0	47.0
44.9	44.4
43.4	42.3
41.8	41.3
41.3	40.7
40.7	40.2
39.7	39.3
38.2	37.7
35.1	34.0
32.0	31.0
29.5	27.8
24.7	23.7
18.1	17.1
10.8	10.8
7.5	7.5
4.0	4.0
4.9	4.9
6.8	6.8
7.8	7.8
10.8	10.8
21.6	20.6
41.2	40.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	85.4	72.7	66.7
112.5°	118.8	104.0	97.2
115°	156.0	144.3	136.5
117.5°	193.3	185.5	180.6
120°	228.7	221.8	218.8
122.5°	262.0	256.2	255.2
125°	293.5	290.5	288.5
127.5°	326.8	322.9	322.9
130°	359.2	355.3	354.3
132.5°	393.5	385.7	386.7
135°	424.0	418.1	418.1
137.5°	451.5	450.5	448.5
140°	480.0	478.0	476.0
142.5°	508.4	507.5	505.5
145°	536.8	534.0	535.9
147.5°	563.3	560.5	561.4
150°	582.0	582.0	581.0
152.5°	597.7	596.7	596.7
155°	615.4	613.5	613.5
157.5°	632.0	631.1	631.1
160°	643.8	646.8	647.8
162.5°	652.7	656.6	656.6
165°	663.5	663.5	665.5
167.5°	673.3	671.3	674.3
170°	679.2	679.2	682.2
172.5°	680.2	682.2	684.1
175°	682.2	684.1	685.0
177.5°	686.0	687.0	692.0
180°	687.0	687.0	687.0

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180°
64.8
97.2
137.4
180.6
220.8
258.2
292.5
323.9
356.3
388.7
421.0
451.5
479.0
508.4
539.8
564.3
584.0
599.7
617.3
634.0
650.7
660.5
668.4
677.2
685.0
686.0
687.0
693.9
687.0

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