

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: STREETWORKS

Report Number: P271889

Luminaire Tested: **MPW-AF-D-U-ASYM-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14376)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-AF-D-U-ASYM-7027-800
Description: WOODBRIDGE LED POST-TOP LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND ASYMMETRIC OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2967 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 44
Input Voltage (V): NR
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: 28.75 FT

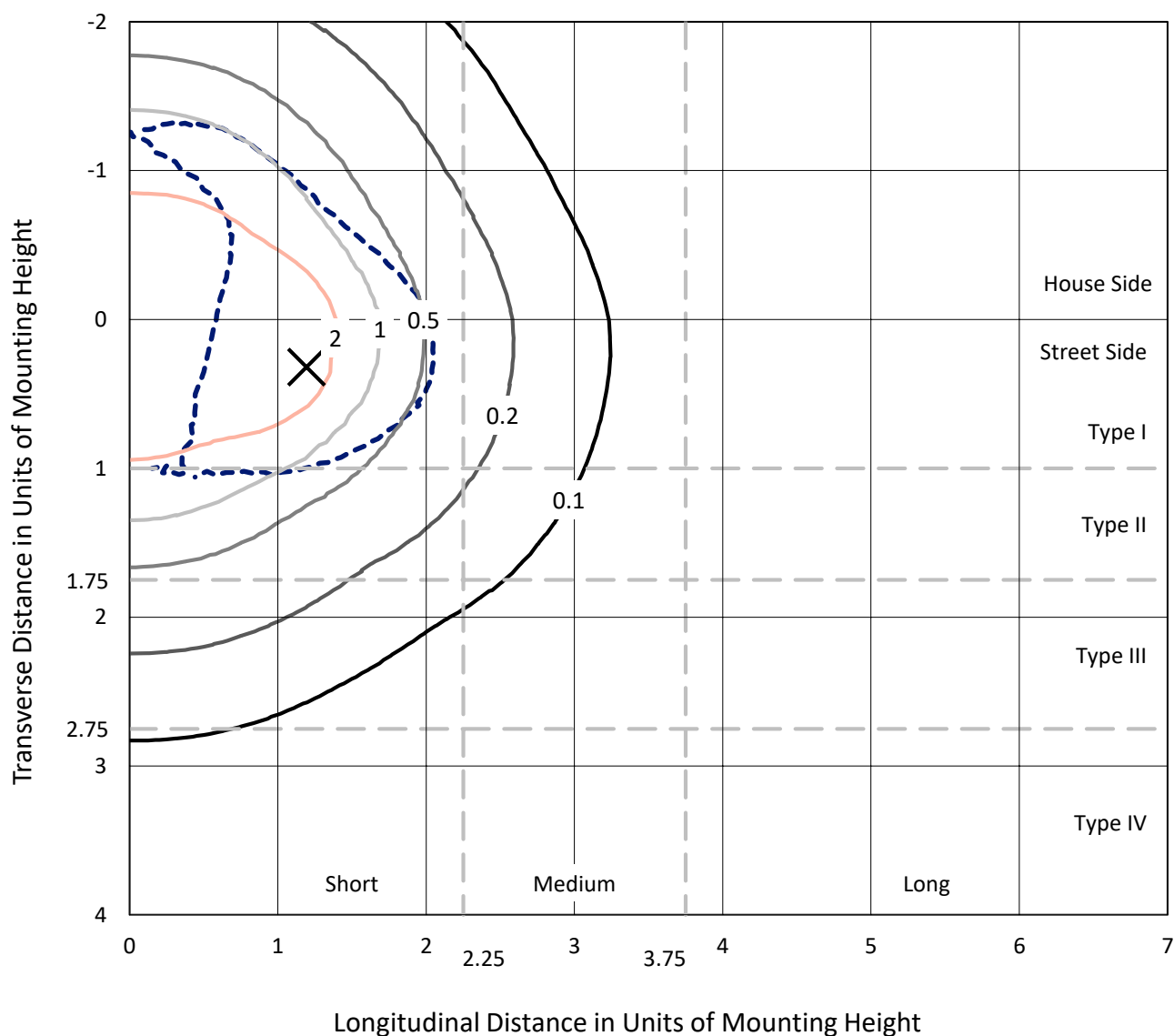


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

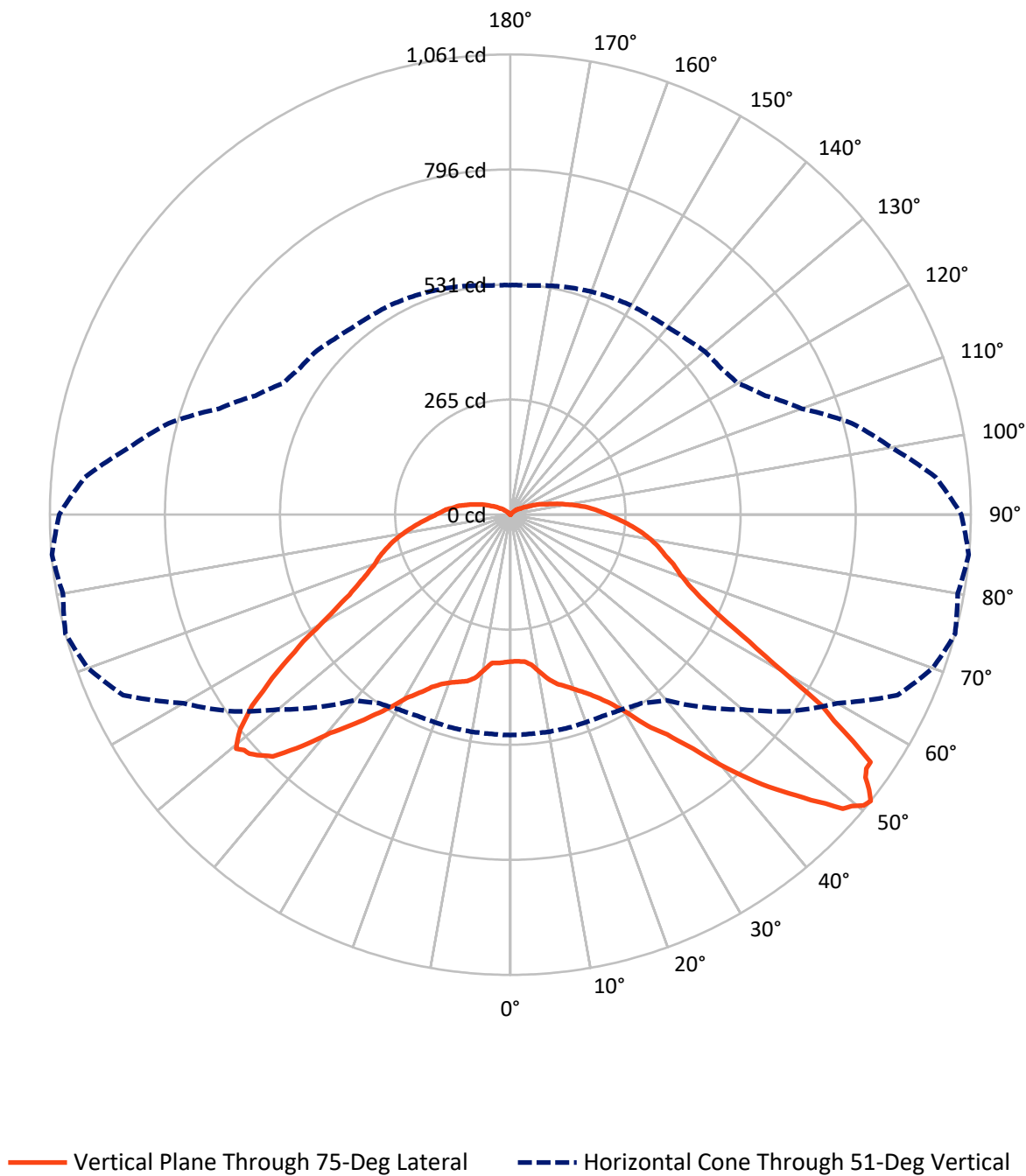


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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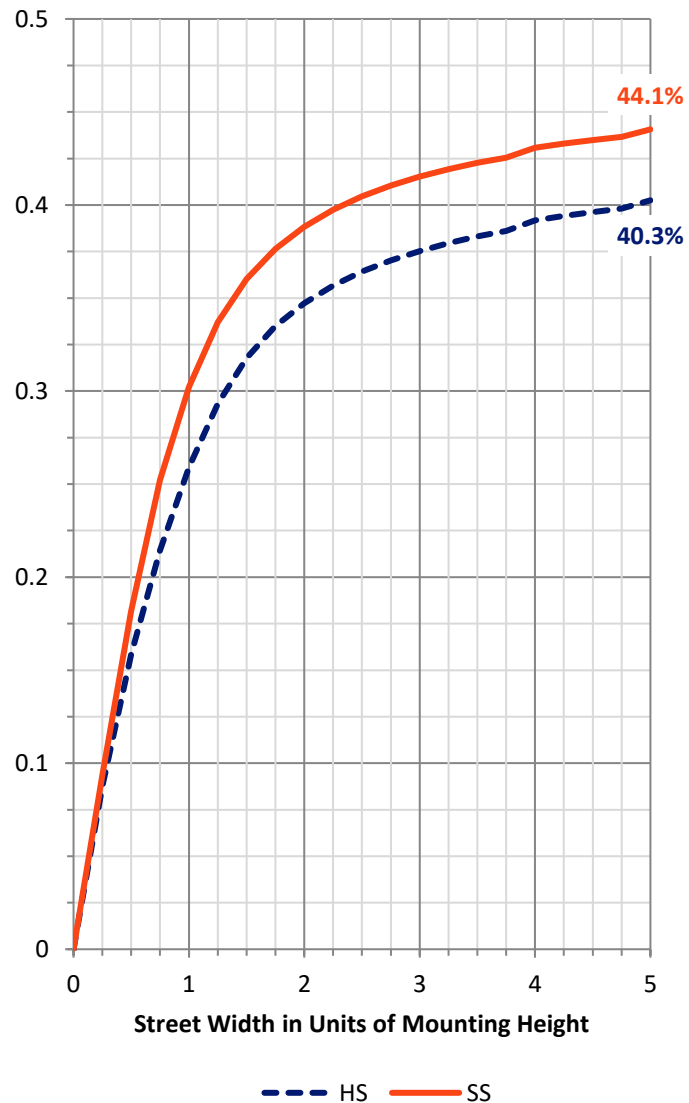
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1262.1	175.9	1438.0
	% Fixture	42.5	5.9	48.5
Street Side	Lumens	1365.8	163.2	1529.1
	% Fixture	46.0	5.5	51.5
Total	Lumens	2627.9	339.1	2967.0
	% Fixture	88.6	11.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.1
10°-20°	107.2	3.6
20°-30°	196.3	6.6
30°-40°	323.9	10.9
40°-50°	504.0	17.0
50°-60°	544.4	18.3
60°-70°	379.1	12.8
70°-80°	306.0	10.3
80°-90°	234.6	7.9
90°-100°	167.3	5.6
100°-110°	100.9	3.4
110°-120°	48.0	1.6
120°-130°	19.1	0.6
130°-140°	3.7	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2627.9	88.6
0°-180°	2967.0	100.0

Coefficient of Utilization



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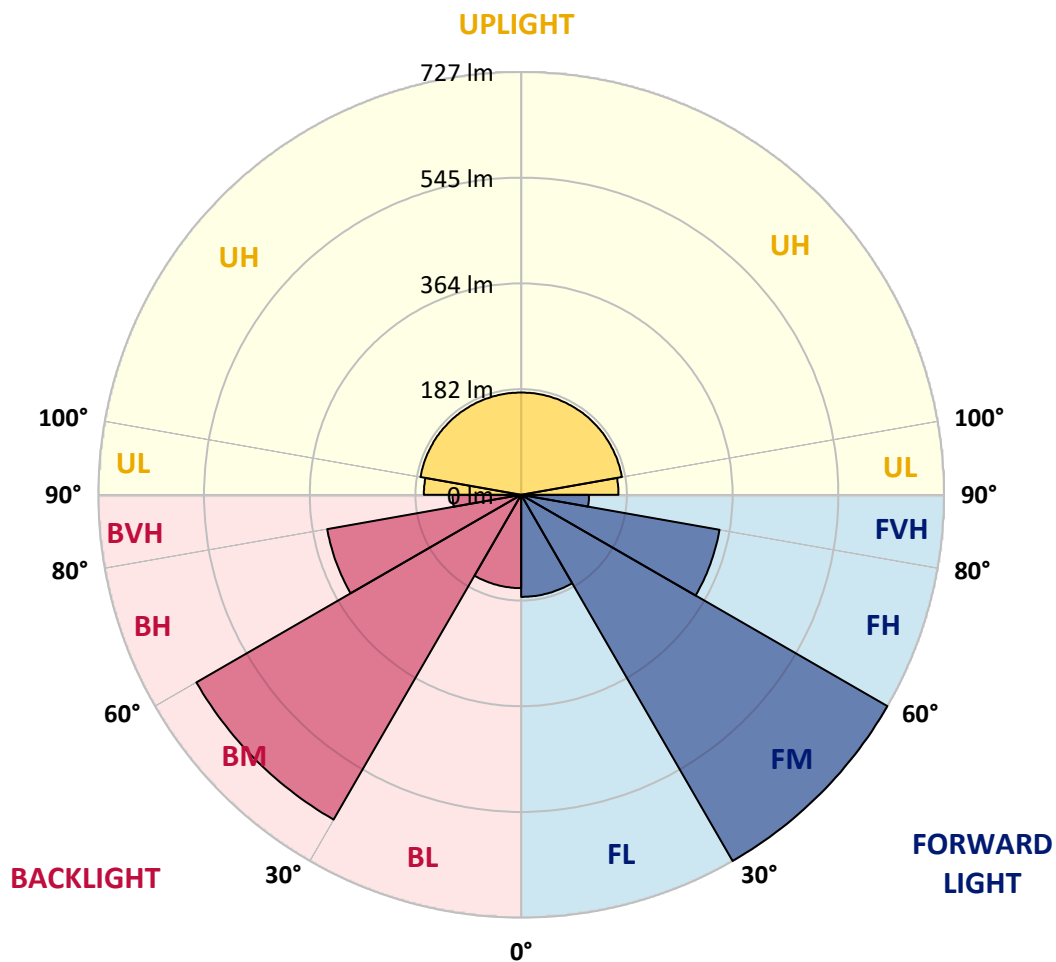
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.5	5.9			
FM	(30°-60°)	727.2	24.5			
FH	(60°-80°)	346.4	11.7			G0/660
FVH	(80°-90°)	116.8	3.9			G2/225
BL	(0°-30°)	160.5	5.4	B1/500		
BM	(30°-60°)	645.1	21.7	B1/1000		
BH	(60°-80°)	338.7	11.4	B1/500		G1/500
BVH	(80°-90°)	117.9	4.0			G2/225
UL	(90°-100°)	167.3	5.6		U3/500	
UH	(100°-180°)	175.9	5.9		U3/500	

BUG Rating: B1-U3-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5
2.5°	336.5	336.5	336.5	336.5	337.5	336.5	337.5	336.5	337.5	337.5	338.5
5°	325.3	325.3	327.2	327.2	328.2	329.0	330.9	330.9	332.8	333.8	334.7
7.5°	330.9	331.8	331.8	330.9	331.8	333.8	334.7	336.5	339.4	341.4	344.2
10°	342.3	341.4	342.3	342.3	343.2	345.1	347.9	351.8	353.7	357.4	361.3
12.5°	355.5	355.5	357.4	357.4	359.3	362.2	367.0	368.8	371.7	376.4	380.3
15°	371.7	371.7	372.7	373.5	375.5	379.3	383.0	385.9	387.8	390.7	393.5
17.5°	389.7	391.6	392.5	394.4	395.3	398.2	400.1	401.0	402.0	403.0	405.9
20°	404.9	404.9	406.8	408.7	410.5	415.3	416.3	416.3	415.3	417.3	419.1
22.5°	404.9	403.9	408.7	415.3	420.0	424.8	427.6	429.5	431.5	430.5	433.3
25°	396.3	397.3	402.0	409.5	420.0	428.6	436.1	440.9	445.6	446.5	450.4
27.5°	408.7	408.7	413.4	420.0	428.6	438.0	447.5	457.0	463.6	470.4	475.0
30°	419.1	420.9	426.7	435.2	441.9	451.3	461.8	473.1	482.6	491.1	497.8
32.5°	438.0	439.0	442.8	448.4	458.0	469.4	481.7	495.0	509.2	519.6	530.0
35°	458.9	456.1	456.1	460.8	468.4	478.9	493.0	510.1	536.6	550.9	565.1
37.5°	475.0	475.0	476.0	478.9	482.6	490.3	503.5	524.3	555.6	587.9	602.0
40°	499.6	499.6	498.6	501.5	505.4	512.0	523.4	543.3	569.9	623.0	660.0
42.5°	517.7	516.7	517.7	521.5	522.5	527.1	538.5	560.4	588.7	638.2	702.6
45°	528.1	528.1	527.1	529.1	532.0	537.6	545.2	567.0	604.0	654.2	720.6
46°	529.1	529.1	528.1	530.0	532.9	537.6	544.2	565.1	605.9	659.0	721.6
47°	528.1	526.2	526.2	527.1	529.1	532.9	539.5	557.5	601.1	651.5	722.5
48°	525.3	524.3	525.3	527.1	527.1	532.0	537.6	554.6	595.5	650.5	734.8
49°	523.4	523.4	524.3	525.3	527.1	530.0	537.6	553.7	587.0	649.5	727.3
50°	519.6	519.6	520.6	522.5	521.5	522.5	530.0	542.4	572.7	641.9	717.7
51°	508.2	507.3	508.2	509.2	509.2	511.0	517.7	530.0	558.5	627.6	698.8
52°	494.0	494.0	495.0	496.9	497.8	499.6	505.4	516.7	543.3	612.6	681.7
53°	473.1	475.0	479.8	479.8	481.7	484.5	491.1	502.5	527.1	587.0	660.0
54°	462.6	464.6	469.4	472.1	474.0	479.8	486.4	495.9	516.7	567.0	652.3
55°	439.0	440.9	444.8	449.4	451.3	457.0	463.6	475.0	496.9	542.4	618.2
56°	420.9	421.9	426.7	429.5	430.5	433.3	439.0	446.5	465.5	502.5	574.6
57°	404.9	403.0	405.9	409.5	410.5	413.4	419.1	424.8	440.9	476.0	539.5
58°	381.2	377.4	381.2	384.0	385.9	388.8	394.4	399.2	413.4	445.6	501.5
59°	362.2	364.2	367.9	370.7	372.7	375.5	378.4	384.0	396.3	421.9	475.0
60°	348.9	349.9	351.8	354.7	356.4	359.3	362.2	367.0	378.4	401.0	448.4
61°	337.5	337.5	340.4	343.2	343.2	346.0	347.9	351.8	362.2	381.2	423.8
62°	328.2	326.2	329.0	332.8	332.8	335.7	336.5	340.4	348.9	365.0	403.9
63°	316.7	317.6	318.6	322.4	322.4	325.3	325.3	329.9	335.7	350.8	385.9
64°	306.2	309.1	308.2	311.0	311.9	312.9	314.8	317.6	323.3	338.5	369.8
65°	302.5	302.5	305.3	306.2	307.2	309.1	311.0	313.9	319.5	331.8	365.0
66°	296.8	296.8	298.7	300.6	300.6	302.5	305.3	308.2	312.9	324.3	354.7
67°	291.1	291.1	291.9	293.9	293.9	294.8	297.7	300.6	306.2	317.6	346.0
68°	285.4	285.4	286.3	287.3	287.3	288.3	291.1	294.8	300.6	311.0	338.5
69°	281.6	277.8	280.7	280.7	280.7	282.6	283.5	287.3	294.8	306.2	330.9
70°	272.2	273.1	274.1	275.0	275.0	274.1	275.0	279.7	286.3	297.7	322.4
72.5°	259.8	260.8	261.7	261.7	260.8	260.8	261.7	264.6	270.2	281.6	304.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
75°	241.7	243.7	243.7	243.7	241.7	241.7	242.7	244.6	248.4	258.8	278.7
77.5°	230.4	229.4	230.4	229.4	228.5	228.5	227.6	228.5	231.3	240.8	258.8
80°	217.1	214.2	215.2	213.3	213.3	212.4	210.6	210.6	213.3	224.8	238.9
82.5°	200.1	199.2	200.1	199.2	197.2	195.3	193.5	194.3	197.2	202.0	217.1
85°	184.9	186.8	185.8	184.0	181.1	179.2	177.3	178.2	179.2	183.0	197.2
87.5°	173.6	172.6	173.6	170.7	168.8	166.8	165.0	164.0	165.0	168.8	176.3
90°	163.1	163.1	162.1	161.2	158.3	157.5	154.6	153.6	153.6	157.5	166.8
92.5°	155.5	154.6	152.6	152.6	148.8	146.1	145.1	144.1	143.2	147.0	155.5
95°	143.2	142.2	142.2	141.2	138.4	136.5	134.7	133.7	134.7	136.5	144.1
97.5°	125.1	128.0	125.1	125.1	122.3	121.5	120.5	118.6	118.6	121.5	127.1
100°	117.6	116.6	115.7	114.7	113.7	112.8	111.9	110.9	110.9	113.7	117.6
102.5°	106.2	103.3	103.3	99.5	99.5	99.5	98.6	98.6	99.5	103.3	105.2
105°	89.1	88.1	88.1	87.2	87.2	86.2	86.2	85.2	87.2	88.1	92.0
107.5°	75.9	75.9	75.9	74.9	74.9	74.9	74.9	74.9	74.9	76.9	79.6
110°	64.5	63.5	64.5	63.5	64.5	63.5	63.5	63.5	65.5	66.4	71.1
112.5°	51.2	52.1	53.1	52.1	52.1	53.1	53.1	53.1	54.1	55.0	57.0
115°	42.7	39.9	39.9	40.7	39.9	40.7	40.7	42.7	42.7	44.6	44.6
117.5°	33.1	33.1	33.1	34.1	34.1	34.1	35.0	36.0	36.0	37.0	37.9
120°	24.6	25.6	23.7	26.5	24.6	25.6	25.6	26.5	29.4	27.5	28.5
122.5°	19.9	19.9	19.9	20.9	20.9	20.9	20.9	21.8	21.8	21.8	22.7
125°	16.1	17.1	18.1	18.1	17.1	18.1	18.1	18.1	19.0	20.9	20.9
127.5°	13.3	12.4	13.3	13.3	14.2	14.2	13.3	13.3	14.2	14.2	15.2
130°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	10.4	10.4	10.4	10.4
132.5°	2.9	3.9	3.9	3.9	3.9	4.7	3.9	4.7	4.7	3.9	4.7
135°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9	1.9	1.0	1.9
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°	1.0	1.0	1.0	0.0	1.0	1.9	1.0	1.0	1.0	0.0	1.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5
2.5°	338.5	338.5	339.4	338.5	338.5	338.5	339.4	339.4	339.4	340.4	340.4
5°	334.7	337.5	337.5	339.4	340.4	341.4	342.3	341.4	342.3	342.3	343.2
7.5°	345.1	345.1	347.9	347.9	348.9	348.9	349.9	347.0	347.0	346.0	344.2
10°	365.0	367.0	367.9	368.8	367.9	367.0	365.0	365.0	365.0	363.2	362.2
12.5°	382.0	385.9	387.8	389.7	388.8	388.8	386.9	385.9	385.9	385.9	384.0
15°	397.3	400.1	403.0	404.9	404.9	403.9	404.9	402.0	402.0	399.2	396.3
17.5°	409.5	413.4	415.3	418.1	416.3	415.3	414.4	411.5	409.5	406.8	403.0
20°	422.9	425.8	428.6	431.5	430.5	428.6	425.8	422.9	419.1	416.3	410.5
22.5°	437.1	440.9	444.8	446.5	446.5	444.8	440.9	438.0	432.4	427.6	420.9
25°	454.1	458.9	463.6	465.5	466.5	464.6	458.9	455.1	450.4	443.8	437.1
27.5°	479.8	486.4	491.1	493.0	493.0	492.1	487.4	483.6	476.0	470.4	460.8
30°	504.4	515.8	524.3	532.9	529.1	525.3	522.5	516.7	507.3	497.8	485.4
32.5°	544.2	558.5	573.7	580.2	580.2	577.4	570.9	565.1	557.5	543.3	524.3
35°	584.1	602.0	620.1	623.0	622.0	621.1	615.4	615.4	607.7	585.1	563.1
37.5°	623.0	658.0	678.8	685.6	684.6	684.6	676.1	673.2	657.1	632.5	606.9
40°	670.3	719.6	760.4	771.8	768.9	764.2	752.8	747.2	726.3	688.4	652.3
42.5°	728.2	780.4	840.1	859.9	849.5	841.0	841.0	824.9	805.9	766.2	717.7
45°	778.4	822.1	910.3	939.6	923.5	906.4	913.0	906.4	883.8	833.4	781.3
46°	790.8	843.9	947.3	975.6	955.8	937.7	945.4	935.9	911.2	858.2	792.7
47°	808.7	863.8	974.8	1007.9	986.1	958.6	977.5	965.2	933.0	877.0	805.0
48°	817.3	879.9	1001.3	1031.6	1023.1	985.1	1007.0	986.1	962.4	890.3	815.4
49°	812.6	878.0	1003.1	1043.9	1034.5	1008.9	1024.0	1002.1	959.5	903.7	819.3
50°	808.7	877.0	999.4	1048.7	1054.4	1037.4	1037.4	1021.1	969.0	892.3	830.7
51°	789.8	869.5	984.3	1035.4	1061.0	1046.7	1060.1	1039.2	984.3	891.3	814.4
52°	762.3	857.2	968.0	1024.0	1042.0	1033.5	1058.1	1049.6	990.8	891.3	795.4
53°	736.7	844.9	938.7	1004.1	1018.3	1003.1	1023.1	1028.8	961.5	882.8	766.2
54°	711.1	808.7	927.3	1019.3	1007.9	988.0	1015.4	1014.5	944.4	836.3	740.6
55°	676.1	761.3	880.9	982.3	1007.0	988.9	1010.8	991.8	901.7	793.7	699.7
56°	635.3	721.6	805.0	903.7	947.3	965.2	984.3	958.6	859.9	759.4	665.6
57°	591.6	661.8	732.9	817.3	884.7	898.8	912.0	897.9	802.2	711.1	627.6
58°	549.9	611.6	673.2	750.9	842.0	864.7	864.7	854.3	750.9	668.5	589.7
59°	521.5	575.5	627.6	700.7	762.3	774.7	782.2	776.6	701.7	626.7	559.5
60°	491.1	538.5	590.7	653.2	697.8	704.5	706.3	693.1	636.2	579.4	518.6
61°	462.6	507.3	549.9	604.9	645.7	654.2	654.2	637.2	589.7	534.9	486.4
62°	440.9	479.8	515.8	562.2	602.0	612.6	607.7	594.5	552.7	501.5	459.8
63°	420.9	457.0	489.3	527.1	559.5	568.9	564.1	554.6	518.6	475.0	438.0
64°	403.0	435.2	464.6	497.8	526.2	534.9	526.2	519.6	489.3	447.5	414.4
65°	394.4	424.8	450.4	478.9	500.6	505.4	499.6	489.3	464.6	430.5	398.2
66°	384.9	412.4	436.1	459.8	476.9	481.7	476.9	466.5	442.8	412.4	383.0
67°	374.5	400.1	422.9	444.8	458.9	461.8	458.9	449.4	425.8	397.3	369.8
68°	366.0	390.7	410.5	430.5	441.9	445.6	444.8	434.3	408.7	383.0	357.4
69°	358.4	381.2	402.0	418.1	429.5	430.5	430.5	420.9	397.3	372.7	347.9
70°	349.9	371.7	389.7	406.8	416.3	418.1	418.1	408.7	387.8	362.2	335.7
72.5°	332.8	351.8	370.7	384.0	393.5	396.3	399.2	389.7	366.0	342.3	317.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
75°	309.1	326.2	344.2	356.4	367.0	369.8	373.5	367.0	343.2	319.5	297.7
77.5°	285.4	302.5	320.4	335.7	347.0	350.8	353.7	347.0	323.3	301.5	277.8
80°	261.7	276.9	296.8	311.0	323.3	326.2	329.9	319.5	301.5	276.9	255.1
82.5°	239.8	254.1	272.2	286.3	298.7	303.4	301.5	293.9	274.1	252.2	233.2
85°	217.1	230.4	246.6	258.8	271.2	274.1	273.1	264.6	247.4	228.5	211.4
87.5°	198.2	210.6	223.8	232.3	243.7	245.6	244.6	236.1	221.9	206.7	191.5
90°	182.1	192.5	204.8	211.4	219.1	224.8	222.8	214.2	201.0	188.6	173.6
92.5°	170.7	178.2	187.7	194.3	199.2	202.8	202.8	195.3	184.0	171.7	160.3
95°	154.6	161.2	169.7	174.5	178.2	183.0	183.0	177.3	167.8	158.3	148.8
97.5°	136.5	141.2	146.1	149.7	152.6	156.5	154.6	151.7	146.1	138.4	131.8
100°	121.5	123.2	126.1	129.0	129.9	132.7	133.7	132.7	129.0	125.1	121.5
102.5°	108.1	110.0	110.0	110.9	110.9	110.0	110.9	110.0	109.1	110.0	106.2
105°	92.0	93.9	92.0	90.1	90.1	91.0	92.0	93.0	93.0	93.9	93.0
107.5°	81.6	81.6	80.6	78.7	78.7	78.7	78.7	78.7	80.6	81.6	80.6
110°	70.2	68.3	68.3	67.4	66.4	66.4	67.4	66.4	67.4	69.2	70.2
112.5°	57.9	57.0	56.0	55.0	53.1	54.1	56.0	56.0	57.9	58.7	58.7
115°	44.6	45.5	46.4	43.6	42.7	42.7	42.7	44.6	45.5	45.5	47.4
117.5°	37.9	38.9	37.9	37.9	37.0	37.0	37.9	37.9	39.9	41.7	41.7
120°	29.4	28.5	28.5	30.4	28.5	29.4	30.4	29.4	29.4	32.2	34.1
122.5°	23.7	24.6	24.6	23.7	24.6	25.6	24.6	25.6	24.6	25.6	26.5
125°	21.8	21.8	21.8	21.8	21.8	22.7	23.7	23.7	22.7	22.7	23.7
127.5°	16.1	17.1	17.1	18.1	18.1	18.1	19.0	19.0	18.1	18.1	18.1
130°	12.4	12.4	13.3	16.1	14.2	14.2	15.2	14.2	15.2	15.2	13.3
132.5°	4.7	5.7	5.7	6.6	7.5	8.5	8.5	8.5	7.5	8.5	7.5
135°	2.9	1.9	2.9	3.9	2.9	4.7	4.7	3.9	4.7	4.7	4.7
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°	1.9	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.9	1.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5	338.5
2.5°	340.4	340.4	339.4	340.4	341.4	340.4	340.4	340.4	339.4	340.4	340.4
5°	343.2	343.2	344.2	343.2	344.2	344.2	344.2	343.2	342.3	342.3	340.4
7.5°	343.2	342.3	343.2	343.2	342.3	339.4	336.5	333.8	331.8	330.9	329.9
10°	360.3	357.4	353.7	348.9	344.2	339.4	335.7	330.9	326.2	324.3	320.4
12.5°	378.4	374.5	368.8	366.0	360.3	355.5	348.9	343.2	337.5	329.9	326.2
15°	392.5	389.7	384.9	379.3	370.7	363.2	355.5	348.9	343.2	338.5	333.8
17.5°	402.0	397.3	391.6	383.0	377.4	370.7	364.2	358.4	353.7	347.9	343.2
20°	406.8	401.0	395.3	390.7	384.9	378.4	373.5	367.0	361.3	353.7	348.9
22.5°	416.3	410.5	406.8	398.2	391.6	386.9	382.0	376.4	369.8	361.3	352.8
25°	429.5	422.9	415.3	408.7	403.9	398.2	390.7	380.3	372.7	365.0	359.3
27.5°	452.3	442.8	432.4	425.8	419.1	409.5	401.0	393.5	385.9	378.4	369.8
30°	471.3	456.1	445.6	437.1	424.8	417.3	408.7	400.1	391.6	384.9	379.3
32.5°	506.4	486.4	469.4	457.0	443.8	434.3	425.8	419.1	410.5	403.0	396.3
35°	538.5	515.8	495.0	476.0	463.6	454.1	443.8	434.3	425.8	418.1	412.4
37.5°	572.7	542.4	516.7	498.6	486.4	475.0	464.6	455.1	447.5	440.9	435.2
40°	615.4	575.5	546.1	526.2	511.0	498.6	487.4	476.9	470.4	463.6	458.9
42.5°	673.2	614.4	580.2	558.5	537.6	524.3	512.0	504.4	497.8	490.3	486.4
45°	712.1	650.5	602.0	574.6	557.5	546.1	538.5	530.0	528.1	520.6	513.9
46°	721.6	652.3	607.7	574.6	562.2	551.8	543.3	538.5	534.9	529.1	522.5
47°	720.6	650.5	604.9	574.6	563.1	555.6	549.0	548.1	540.5	534.9	532.0
48°	719.6	660.0	610.6	581.2	571.7	562.2	555.6	551.8	548.1	542.4	536.6
49°	717.7	656.1	611.6	587.0	578.4	568.0	560.4	555.6	550.9	546.1	541.4
50°	718.7	655.1	609.7	591.6	584.1	574.6	565.1	558.5	554.6	549.9	544.2
51°	714.0	648.6	604.9	590.7	585.1	572.7	564.1	559.5	556.6	551.8	547.1
52°	703.6	641.9	600.2	585.1	581.2	568.9	559.5	555.6	552.7	548.1	543.3
53°	676.1	615.4	576.5	566.0	561.4	552.7	549.9	548.1	546.1	543.3	537.6
54°	647.6	593.6	564.1	554.6	550.9	544.2	540.5	543.3	540.5	540.5	534.9
55°	624.0	573.7	549.9	541.4	537.6	532.0	528.1	529.1	529.1	528.1	522.5
56°	602.0	560.4	536.6	527.1	523.4	518.6	516.7	516.7	516.7	514.9	510.1
57°	573.7	538.5	523.4	516.7	512.9	508.2	508.2	507.3	505.4	502.5	500.6
58°	543.3	507.3	493.0	485.4	484.5	480.8	481.7	482.6	482.6	479.8	478.9
59°	512.9	481.7	467.5	462.6	458.9	458.9	459.8	460.8	461.8	461.8	458.9
60°	478.9	450.4	439.0	436.1	435.2	435.2	435.2	438.0	439.9	440.9	440.9
61°	453.3	427.6	416.3	413.4	413.4	413.4	414.4	417.3	418.1	419.1	418.1
62°	429.5	405.9	395.3	394.4	394.4	395.3	395.3	398.2	398.2	399.2	398.2
63°	406.8	385.9	378.4	375.5	377.4	377.4	376.4	379.3	382.0	381.2	379.3
64°	384.0	367.0	359.3	358.4	357.4	358.4	357.4	360.3	361.3	361.3	363.2
65°	372.7	356.4	347.9	346.0	347.9	347.0	349.9	350.8	351.8	352.8	351.8
66°	360.3	345.1	338.5	334.7	335.7	335.7	338.5	339.4	341.4	340.4	343.2
67°	349.9	333.8	327.2	325.3	325.3	325.3	326.2	329.0	329.9	331.8	331.8
68°	338.5	324.3	319.5	317.6	317.6	316.7	317.6	320.4	321.4	323.3	324.3
69°	329.0	315.8	311.0	308.2	310.1	308.2	309.1	313.9	312.9	314.8	320.4
70°	320.4	307.2	303.4	303.4	301.5	302.5	302.5	304.3	305.3	309.1	308.2
72.5°	304.3	292.9	287.3	288.3	288.3	288.3	289.2	291.1	291.9	294.8	296.8



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REPORT N

CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
75°	281.6	272.2	269.3	269.3	269.3	271.2	271.2	272.2	276.9	278.7	278.7	0°
77.5°	265.4	255.9	253.1	253.1	255.1	255.9	257.9	259.8	261.7	265.4	266.4	2.5°
80°	243.7	236.1	235.2	236.1	238.1	239.8	241.7	246.6	248.4	249.4	255.1	5°
82.5°	224.8	217.1	217.1	219.1	221.9	223.8	227.6	229.4	231.3	234.2	236.1	7.5°
85°	202.8	197.2	199.2	201.0	205.7	206.7	208.6	212.4	215.2	216.2	219.1	10°
87.5°	184.0	181.1	182.1	184.9	187.7	192.5	194.3	196.3	200.1	202.0	202.0	12.5°
90°	168.8	166.0	168.8	172.6	175.3	177.3	180.2	182.1	184.9	185.8	186.8	15°
92.5°	156.5	154.6	157.5	161.2	164.0	165.0	166.8	171.7	172.6	174.5	174.5	17.5°
95°	145.1	144.1	147.0	149.7	152.6	155.5	157.5	160.3	163.1	164.0	164.0	20°
97.5°	129.0	128.0	130.8	136.5	137.5	138.4	140.3	142.2	146.1	147.0	146.1	22.5°
100°	120.5	119.5	120.5	124.2	125.1	129.0	129.9	132.7	133.7	135.6	134.7	25°
102.5°	104.3	105.2	107.2	107.2	110.9	110.9	113.7	115.7	116.6	119.5	123.2	27.5°
105°	93.0	93.0	93.9	93.9	95.8	96.7	96.7	99.5	101.5	101.5	102.4	30°
107.5°	81.6	81.6	82.5	83.5	84.4	84.4	85.2	87.2	87.2	89.1	89.1	32.5°
110°	70.2	72.0	71.1	71.1	71.1	73.0	74.0	74.0	74.9	75.9	75.9	35°
112.5°	59.7	59.7	59.7	60.6	61.6	61.6	62.6	62.6	63.5	64.5	64.5	37.5°
115°	48.4	48.4	49.2	48.4	47.4	48.4	48.4	49.2	50.2	49.2	55.0	40°
117.5°	42.7	41.7	40.7	41.7	40.7	40.7	40.7	41.7	42.7	42.7	44.6	42.5°
120°	31.4	31.4	31.4	31.4	33.1	31.4	31.4	30.4	32.2	31.4	32.2	45°
122.5°	26.5	25.6	25.6	25.6	25.6	25.6	25.6	26.5	25.6	26.5	25.6	46°
125°	22.7	22.7	24.6	22.7	21.8	22.7	22.7	22.7	22.7	23.7	27.5	47°
127.5°	18.1	19.0	18.1	18.1	18.1	19.0	18.1	18.1	19.0	19.9	19.0	48°
130°	15.2	13.3	14.2	14.2	14.2	14.2	14.2	14.2	15.2	17.1	16.1	49°
132.5°	7.5	7.5	7.5	8.5	9.5	9.5	8.5	9.5	9.5	10.4	9.5	50°
135°	5.7	6.6	4.7	4.7	6.6	5.7	7.5	6.6	6.6	6.6	5.7	51°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52°
140°	1.9	1.9	1.0	1.0	1.0	1.9	1.0	1.9	1.0	1.9	1.9	53°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°



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REPORT NUMBER: P

CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
338.5	338.5	338.5	338.5
340.4	338.5	339.4	339.4
340.4	340.4	340.4	338.5
328.2	329.0	328.2	328.2
318.6	316.7	315.8	314.8
324.3	323.3	322.4	322.4
330.9	329.0	328.2	328.2
338.5	336.5	333.8	337.5
345.1	342.3	339.4	339.4
347.0	344.2	341.4	340.4
351.8	347.0	344.2	344.2
364.2	359.3	357.4	356.4
372.7	368.8	364.2	363.2
390.7	386.9	384.9	383.0
408.7	404.9	403.0	401.0
432.4	426.7	423.8	422.9
455.1	450.4	447.5	450.4
481.7	476.9	475.0	473.1
510.1	504.4	498.6	498.6
517.7	512.9	510.1	509.2
525.3	520.6	514.9	512.9
533.9	527.1	522.5	522.5
535.7	531.0	526.2	524.3
539.5	535.7	530.0	529.1
541.4	535.7	530.0	529.1
538.5	533.9	529.1	528.1
534.9	529.1	523.4	527.1
530.0	525.3	520.6	519.6
519.6	514.9	510.1	510.1
507.3	503.5	498.6	496.9
497.8	490.3	483.6	484.5
474.0	470.4	465.5	464.6
455.1	454.1	451.3	450.4
439.0	436.1	434.3	433.3
415.3	415.3	411.5	410.5
397.3	395.3	393.5	393.5
381.2	379.3	378.4	379.3
363.2	364.2	361.3	363.2
353.7	354.7	353.7	351.8
343.2	344.2	342.3	343.2
334.7	334.7	333.8	332.8
327.2	327.2	325.3	325.3
317.6	319.5	318.6	317.6
311.9	311.9	312.9	310.1
297.7	299.7	299.7	299.7

CANDELA DISTRIBUTION:

	165°
75°	280.7
77.5°	268.3
80°	253.1
82.5°	237.1
85°	219.9
87.5°	202.0
90°	188.6
92.5°	174.5
95°	166.0
97.5°	148.0
100°	136.5
102.5°	119.5
105°	102.4
107.5°	89.1
110°	75.9
112.5°	65.5
115°	51.2
117.5°	43.6
120°	33.1
122.5°	27.5
125°	24.6
127.5°	19.0
130°	15.2
132.5°	9.5
135°	7.5
137.5°	0.0
140°	1.9
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0



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TION (continued):

[illegible]

(END OF REPORT)