

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: LUMARK

Report Number: PSZ2F161027006-10

Luminaire Tested:

Test Date: 2016-10-31

Test Information

Test Method: LM-79-08
Report Number: PSZ2F161027006-10
Test Lab: BACL (Bay Area Compliance Labs)
Test Date: 2016-10-31
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number:
Description: WPSQLED-100-UNV-7050
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 11322 (1 lamp)
Luminaire Lumens: 11322.1 lumens
Efficiency: 100.0%
Efficacy: 112.1 lumens/watt
Luminous Opening: Point Source (0m x 0m x 0m)
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 101
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: 25 FT

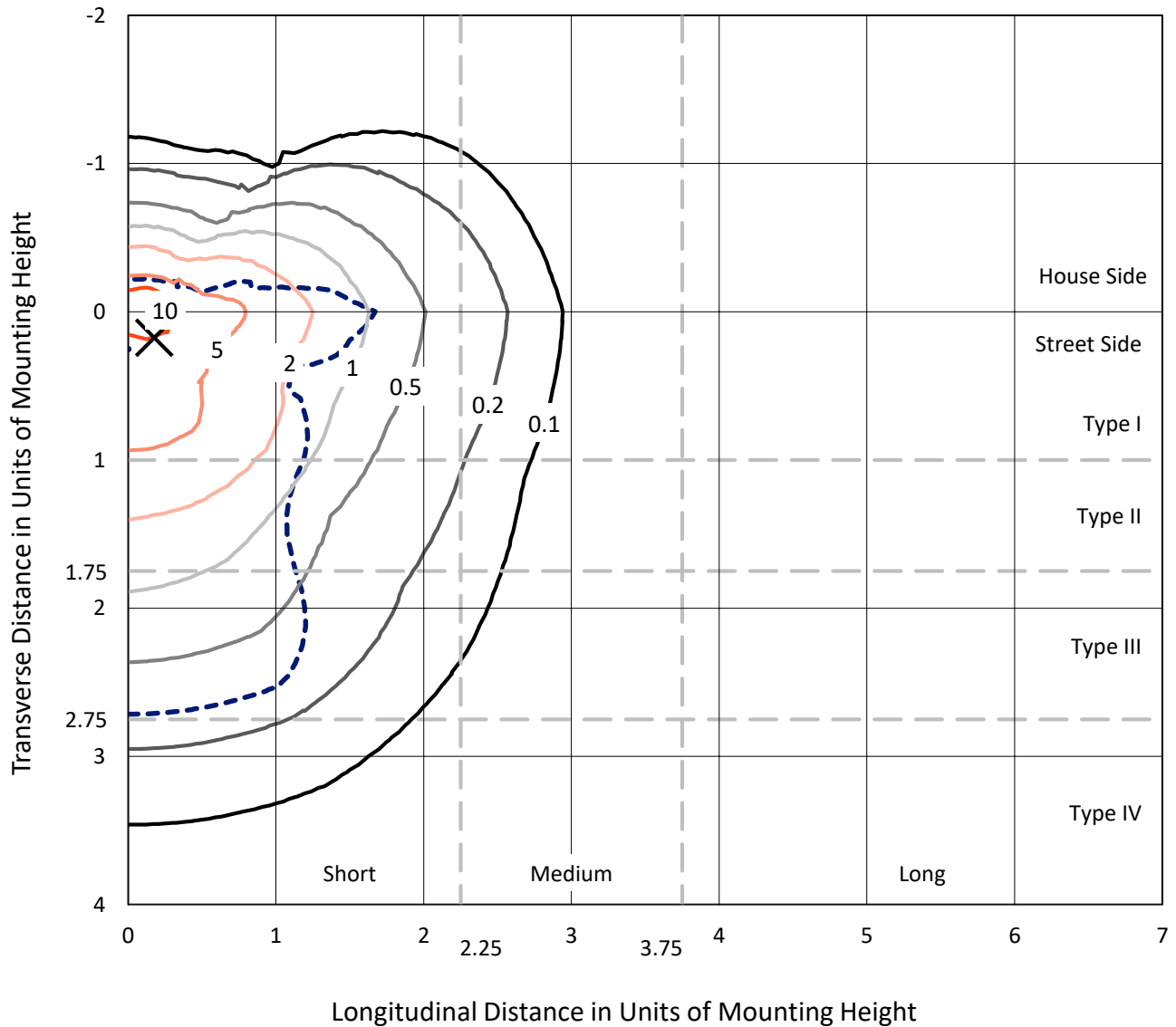


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CATALOG NUMBER:

Iso-Footcandle Lines of Horizontal Illumination

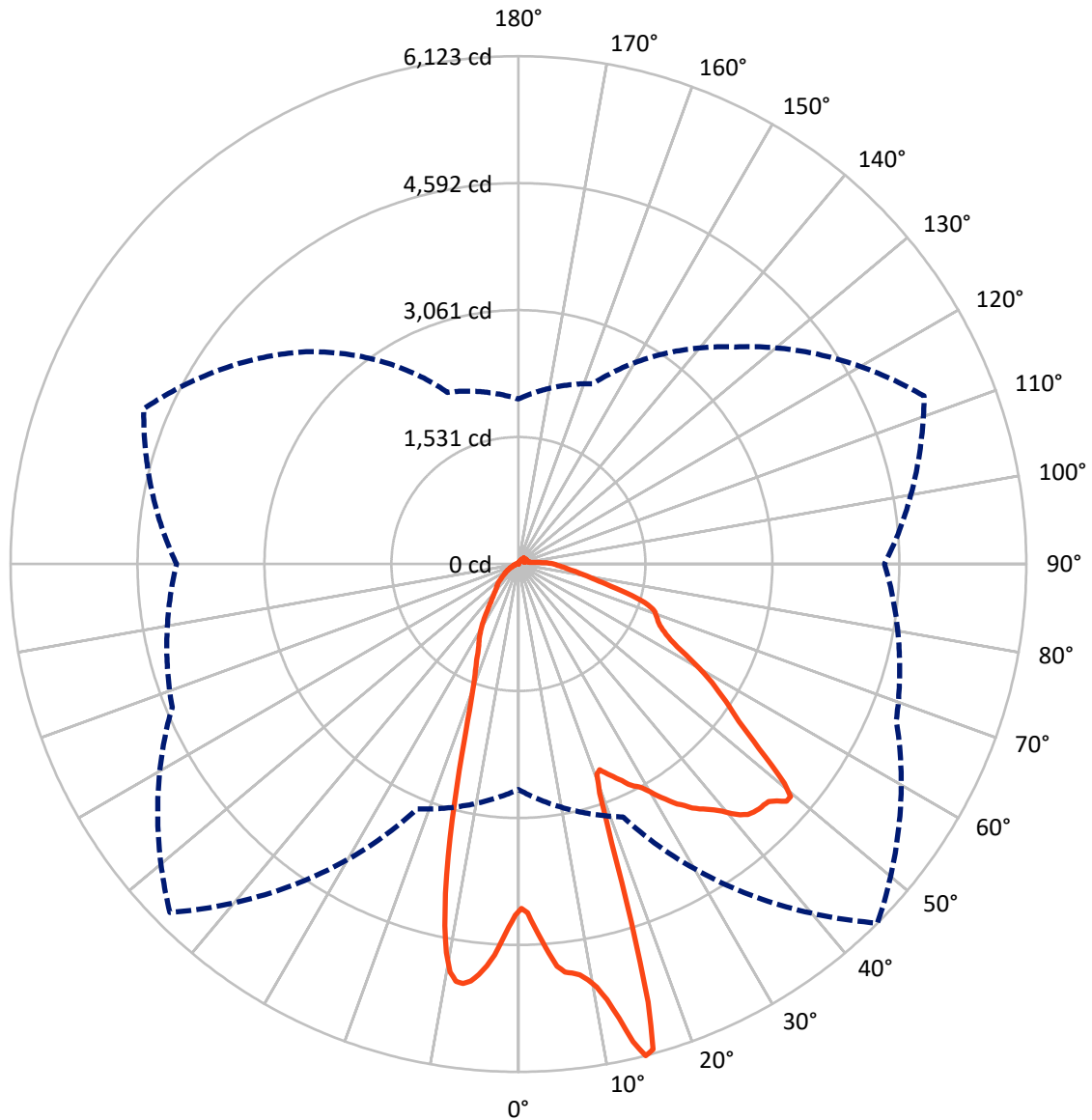
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 14-Deg Vertical

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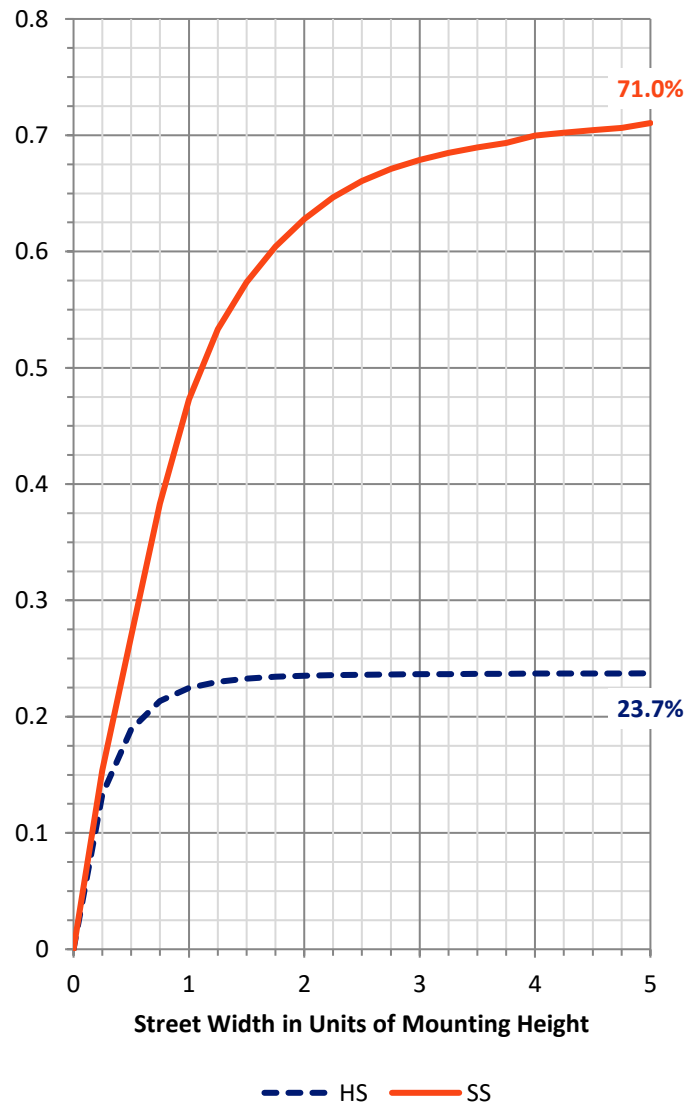
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2715.0	47.0	2762.0
	% Lamp	24.0	0.4	24.4
Street Side	Lumens	8216.1	344.1	8560.1
	% Lamp	72.6	3.0	75.6
Total	Lumens	10931.0	391.1	11322.1
	% Lamp	96.5	3.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	456.7	4.0	4.0
10°-20°	1038.1	9.2	9.2
20°-30°	1330.8	11.8	11.8
30°-40°	1751.8	15.5	15.5
40°-50°	1940.6	17.1	17.1
50°-60°	1847.8	16.3	16.3
60°-70°	1502.5	13.3	13.3
70°-80°	758.7	6.7	6.7
80°-90°	304.1	2.7	2.7
90°-100°	130.1	1.1	1.1
100°-110°	76.7	0.7	0.7
110°-120°	60.8	0.5	0.5
120°-130°	54.3	0.5	0.5
130°-140°	36.9	0.3	0.3
140°-150°	21.0	0.2	0.2
150°-160°	8.7	0.1	0.1
160°-170°	2.2	0.0	0.0
170°-180°	0.4	0.0	0.0
0°-90°	10931.0	96.5	96.5
0°-180°	11322.1	100.0	100.0

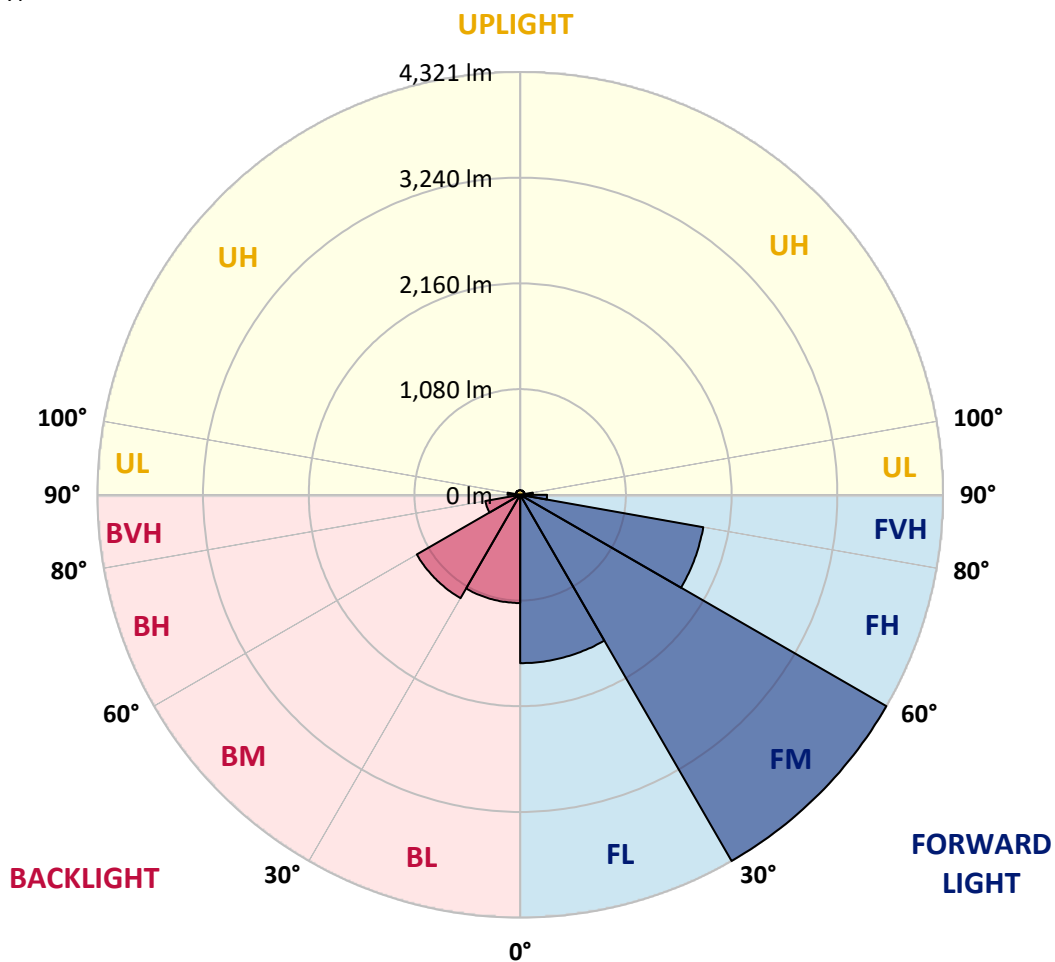


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.3	15.2			
FM (30°-60°)	4320.6	38.2			
FH (60°-80°)	1899.8	16.8			G2/5000
FVH (80°-90°)	275.4	2.4			G3/500
BL (0°-30°)	1105.4	9.8	B3/2500		
BM (30°-60°)	1219.5	10.8	B2/2500		
BH (60°-80°)	361.3	3.2	B1/500		G1/500
BVH (80°-90°)	28.8	0.3			G1/100
UL (90°-100°)	130.1	1.1		U3/500	
UH (100°-180°)	47.0	0.4		U2/50	
Trapped Light	-0.1	0.0			

BUG Rating: B3-U3-G3
 Type III Short





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 CATALOG NUMBER:

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1
1°	4145.5	4173.7	4207.9	4251.8	4234.7	4272.5	4293.3	4297.9	4286.2	4264.1	4234.3
2°	4161.8	4250.6	4369.9	4443.7	4449.0	4519.9	4528.3	4487.2	4429.6	4397.1	4379.0
3°	4198.0	4352.6	4540.1	4657.1	4673.9	4776.2	4777.5	4678.1	4555.9	4527.0	4545.6
4°	4255.8	4505.4	4709.0	4802.2	4825.9	4956.3	5022.9	4836.1	4614.3	4609.8	4725.1
5°	4303.2	4637.4	4870.2	4834.3	4842.4	5001.6	5165.7	4953.1	4634.2	4654.1	4861.2
6°	4396.6	4778.5	4952.4	4796.3	4789.2	4964.7	5190.7	5127.9	4638.8	4720.6	4971.2
7°	4543.2	4980.4	4973.5	4784.7	4783.4	4946.9	5186.8	5289.7	4575.0	4765.2	5061.5
8°	4739.3	5165.8	5006.8	4843.5	4880.5	4976.9	5148.6	5290.9	4324.8	4705.3	5101.8
9°	5050.8	5428.1	5083.1	5046.2	5104.2	5088.4	5114.8	4930.2	3866.2	4431.9	5088.2
10°	5133.5	5641.3	5190.6	5314.8	5380.6	5316.4	5106.7	4268.3	3282.4	3929.4	4990.0
11°	4748.4	5577.5	5358.1	5522.1	5540.4	5630.5	5024.1	3544.8	2790.2	3355.4	4763.5
12°	3913.2	5035.3	5608.5	5530.7	5366.5	5820.7	4715.5	3017.1	2430.5	2856.7	4450.1
13°	3105.8	4146.5	5920.9	5290.4	4901.4	5721.2	4237.2	2627.2	2186.6	2494.7	4065.4
14°	2718.7	3301.3	6122.9	4931.4	4414.1	5293.3	3701.0	2352.9	1988.5	2240.5	3618.7
15°	2647.6	2877.6	6073.8	4591.1	4109.4	4751.8	3206.0	2117.4	1823.9	2039.3	3179.3
16°	2713.0	2799.0	5509.5	4351.1	3980.1	4351.1	2807.4	1935.2	1694.9	1884.2	2759.5
17°	2846.6	2852.6	4530.6	4191.4	3941.8	4166.9	2455.5	1788.9	1580.5	1755.1	2399.8
18°	2991.3	2952.3	3546.1	4102.9	3894.1	4029.7	2151.9	1666.2	1473.0	1653.5	2097.4
19°	3150.0	3060.7	2930.4	4012.3	3842.5	3799.2	1903.2	1564.6	1375.9	1560.6	1862.3
20°	3307.5	3195.6	2704.7	3904.5	3808.6	3547.8	1706.3	1460.0	1307.4	1476.2	1675.8
21°	3474.2	3355.2	2666.8	3830.9	3829.3	3253.1	1552.8	1379.9	1238.9	1399.8	1537.0
22°	3655.1	3512.8	2720.9	3874.3	3914.8	2979.6	1430.5	1312.3	1170.3	1344.2	1426.6
23°	3858.7	3706.9	2778.6	4066.3	3998.5	2755.7	1338.8	1257.4	1095.4	1278.8	1338.4
24°	4112.4	3920.8	2833.9	4317.5	4032.8	2585.5	1247.1	1202.0	1004.8	1213.3	1259.2
25°	4398.1	4151.4	2893.4	4513.7	3995.6	2478.2	1155.6	1126.6	910.3	1147.5	1180.1
26°	4700.9	4449.2	2968.6	4597.1	3909.5	2369.4	1085.1	1034.8	811.7	1050.5	1117.4
27°	4928.8	4784.0	3017.4	4555.1	3790.2	2261.5	1030.3	925.8	725.2	940.1	1067.8
28°	5081.9	5121.5	3059.4	4455.8	3666.8	2143.8	980.0	830.7	655.6	837.4	1022.5
29°	5178.3	5344.5	3126.6	4292.1	3601.0	2043.1	929.8	744.9	598.4	745.5	977.2
30°	5238.1	5451.3	3213.6	4053.9	3668.3	1963.7	876.4	673.1	554.2	668.3	923.2
31°	5289.3	5452.9	3299.6	3757.8	3859.7	1928.6	821.0	616.8	519.6	604.7	868.4
32°	5320.8	5386.9	3386.5	3522.7	4155.2	1926.2	761.2	564.8	491.6	549.5	808.2
33°	5304.2	5307.6	3467.7	3329.6	4449.7	1951.2	702.1	525.2	463.4	508.1	749.9
34°	5255.6	5250.7	3534.8	3196.6	4622.7	1995.7	649.0	486.1	432.1	471.2	690.0
35°	5204.1	5218.8	3611.5	3103.4	4666.3	2035.1	599.7	453.4	404.2	439.0	636.3
36°	5238.1	5144.3	3674.7	3068.1	4599.4	2056.1	558.1	420.3	381.5	406.1	588.7
37°	5527.2	5060.2	3725.0	3036.9	4444.0	2058.9	519.5	387.9	362.4	375.2	547.7
38°	5940.4	5047.7	3788.8	2990.1	4219.9	2047.4	485.0	359.9	342.5	348.3	513.5
39°	5987.7	5218.7	3860.3	2937.4	3967.7	2008.5	455.1	334.6	317.0	325.3	483.5
40°	5708.4	5475.3	3954.8	2883.1	3719.7	1965.2	429.7	310.8	295.5	304.0	457.3
41°	5368.3	5491.1	4037.1	2832.1	3524.0	1916.3	409.7	283.9	271.0	278.3	433.5
42°	5139.3	5273.1	4094.6	2785.1	3415.0	1869.4	391.8	264.8	246.1	259.8	412.2
43°	5024.9	4990.5	4122.7	2756.4	3391.1	1826.0	376.0	244.1	221.8	240.1	394.0
44°	4958.9	4811.1	4138.6	2738.8	3416.5	1789.2	359.7	224.4	202.3	221.6	379.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	4860.1	4765.7	4146.3	2733.2	3448.0	1759.7	343.4	206.1	184.8	203.1	366.9
46°	4774.5	4691.8	4160.2	2719.6	3461.1	1733.3	327.5	188.6	171.0	186.6	353.1
47°	4720.1	4545.7	4226.6	2687.4	3431.5	1713.3	309.2	173.4	161.0	171.6	339.2
48°	4736.5	4406.0	4316.5	2651.5	3370.5	1693.9	289.9	159.6	154.1	157.8	320.5
49°	4796.3	4292.6	4315.5	2621.9	3317.6	1681.4	272.4	148.6	149.1	147.7	298.2
50°	4795.3	4245.4	4154.3	2597.4	3285.6	1667.0	255.4	138.9	145.7	137.6	280.2
51°	4568.0	4247.6	3905.7	2567.3	3275.9	1651.9	238.4	129.2	142.0	127.5	263.4
52°	4246.4	4229.5	3658.5	2538.7	3282.9	1630.7	222.6	123.4	140.5	122.2	247.7
53°	4111.8	4055.6	3445.3	2508.4	3259.2	1601.9	207.7	121.4	135.5	117.5	232.1
54°	4090.1	3785.9	3267.9	2483.3	3189.5	1567.8	194.6	117.1	130.5	113.2	218.0
55°	4048.1	3582.6	3126.3	2439.4	3077.4	1526.6	182.9	111.8	125.5	107.4	204.9
56°	4061.1	3468.2	3000.7	2416.5	2957.5	1484.2	171.7	106.8	119.3	101.3	192.8
57°	4102.5	3407.7	2863.0	2384.3	2867.8	1437.0	161.8	101.8	114.3	96.0	182.2
58°	4069.8	3400.2	2739.1	2343.9	2817.7	1384.4	152.1	95.9	106.9	92.0	172.3
59°	4047.9	3430.6	2597.6	2284.7	2775.0	1323.1	143.3	89.6	97.7	88.3	163.3
60°	3991.9	3470.0	2448.0	2220.3	2684.8	1262.6	134.6	82.7	88.7	83.4	154.8
61°	3939.2	3487.5	2296.9	2146.1	2542.9	1202.2	125.9	75.2	80.1	74.8	146.3
62°	3915.8	3493.9	2156.3	2051.2	2411.0	1149.6	118.4	67.9	68.3	65.7	137.1
63°	3812.5	3492.8	2052.8	1945.5	2309.8	1099.8	110.5	60.0	58.4	57.5	127.8
64°	3783.7	3443.9	1972.1	1852.9	2244.0	1056.8	102.7	49.5	50.1	47.6	119.1
65°	3779.2	3413.5	1910.6	1766.3	2161.0	1020.5	94.7	41.0	41.0	39.0	110.0
66°	3567.7	3369.3	1860.0	1686.7	2060.2	986.7	87.6	32.7	27.9	31.6	101.7
67°	3403.4	3250.7	1825.2	1613.1	1946.9	951.4	80.6	22.6	14.9	22.3	93.8
68°	3204.3	3127.3	1799.0	1534.1	1798.2	905.6	73.8	12.5	1.9	13.0	86.4
69°	2905.2	2932.4	1773.6	1430.9	1609.8	834.9	67.3	2.6	0.5	3.9	79.6
70°	2699.5	2704.8	1748.6	1297.5	1422.4	723.3	60.8	0.6	0.5	0.8	73.1
71°	2475.4	2496.2	1706.7	1147.0	1234.9	590.3	55.2	0.6	0.5	0.6	67.1
72°	2234.0	2265.8	1638.4	1000.7	1047.8	458.0	49.8	0.6	0.5	0.6	61.1
73°	2032.0	2052.6	1542.8	860.5	894.5	346.7	45.4	0.6	0.5	0.6	56.1
74°	1843.2	1854.6	1417.5	747.1	782.4	264.3	42.1	0.7	0.5	0.7	51.7
75°	1674.7	1675.7	1278.3	659.3	697.2	209.5	40.2	0.7	0.6	0.7	49.4
76°	1536.1	1530.0	1146.1	599.3	631.4	177.5	38.1	0.7	0.6	0.7	47.4
77°	1403.1	1402.6	1036.4	543.3	553.2	158.2	35.9	0.7	0.6	0.7	45.4
78°	1275.7	1281.1	948.7	487.5	474.4	145.3	34.0	0.8	0.6	0.8	43.3
79°	1154.2	1168.5	872.9	438.1	407.1	132.4	32.5	0.8	0.7	0.8	41.5
80°	1047.2	1068.9	806.1	393.1	343.5	119.5	31.4	0.8	0.7	0.8	40.1
81°	953.2	984.6	746.1	354.2	291.8	110.4	30.6	0.9	0.7	0.8	39.0
82°	869.0	899.1	691.9	319.9	249.2	103.2	30.1	0.9	0.7	0.9	38.2
83°	805.4	826.7	638.2	288.1	206.7	98.2	29.6	0.9	0.8	0.9	37.5
84°	744.5	757.7	598.9	260.9	175.6	94.3	29.3	1.0	0.8	1.0	36.7
85°	705.7	704.6	559.9	239.5	149.5	90.8	29.1	1.0	0.9	1.0	36.0
86°	665.9	652.7	520.8	222.3	123.4	87.5	28.6	1.0	0.9	1.0	35.0
87°	619.0	600.9	492.2	207.0	97.3	83.9	27.8	1.1	1.0	1.1	33.9
88°	586.2	559.1	463.7	194.0	82.2	79.4	26.5	1.1	1.0	1.1	32.3
89°	553.6	517.3	436.7	182.5	70.6	74.8	24.8	1.1	1.0	1.1	30.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	521.1	473.2	407.6	171.9	61.4	70.8	22.9	1.1	1.1	1.1	27.9
91°	493.2	440.6	375.1	161.6	56.4	67.4	20.8	1.1	1.1	1.1	25.5
92°	476.5	410.5	344.1	141.9	53.4	63.8	18.9	1.1	1.1	1.1	23.2
93°	441.0	359.6	286.3	118.1	45.3	57.9	16.9	1.0	1.1	1.1	21.5
94°	413.2	330.7	227.3	100.5	41.6	54.3	16.0	1.1	1.2	1.1	21.3
95°	377.4	306.5	186.0	86.8	39.2	50.1	15.8	1.2	1.3	1.2	21.4
96°	349.2	285.0	161.9	83.1	37.6	44.6	15.8	1.3	1.3	1.3	20.7
97°	313.3	266.6	147.4	84.5	38.7	42.2	15.2	1.4	1.4	1.4	19.1
98°	289.0	250.7	139.0	82.2	40.1	40.6	14.6	1.4	1.5	1.4	17.4
99°	274.7	230.9	133.9	76.7	40.6	40.2	13.7	1.5	1.5	1.5	16.2
100°	267.6	215.1	133.1	70.6	39.4	40.5	13.0	1.6	1.6	1.6	15.5
101°	255.8	208.5	132.2	70.0	35.3	41.7	12.9	1.6	1.6	1.6	15.6
102°	252.8	199.3	128.1	73.7	31.9	41.9	12.8	1.7	1.7	1.7	15.1
103°	253.2	188.5	117.8	80.2	30.7	40.9	12.6	1.7	1.7	1.7	14.6
104°	245.6	182.3	104.8	88.0	32.4	43.7	12.3	1.8	1.8	1.8	14.2
105°	232.3	174.8	94.5	94.7	36.4	47.2	11.8	1.8	1.8	1.8	13.2
106°	221.3	163.6	81.3	100.7	42.3	51.7	10.9	1.9	1.8	1.9	11.8
107°	206.7	150.8	73.1	102.2	48.5	53.2	10.8	1.9	1.9	1.9	11.4
108°	185.0	139.1	71.3	100.7	53.9	51.4	11.2	2.0	1.9	2.0	11.8
109°	174.9	125.3	74.5	99.0	55.3	49.6	11.8	2.0	1.9	2.0	12.5
110°	159.4	113.5	82.5	97.1	54.8	47.9	11.9	2.1	2.0	2.1	12.8
111°	147.0	105.5	91.7	95.1	54.0	46.2	12.5	2.1	2.0	2.1	13.6
112°	136.3	101.8	98.8	93.2	53.0	44.5	12.8	2.2	2.1	2.2	14.0
113°	129.8	101.0	104.0	91.4	51.9	42.9	12.3	2.2	2.2	2.2	14.1
114°	127.1	104.8	108.1	90.1	50.6	41.3	11.8	2.3	2.2	2.3	13.6
115°	131.5	111.3	110.7	89.1	49.0	39.6	11.3	2.3	2.3	2.3	13.1
116°	134.3	119.2	110.7	88.2	47.1	37.9	10.8	2.4	2.4	2.4	12.6
117°	145.5	125.0	109.9	87.3	45.0	36.3	10.4	2.5	2.4	2.5	12.1
118°	153.8	129.7	108.7	86.5	43.0	34.6	9.9	2.6	2.5	2.5	11.6
119°	159.0	133.9	107.5	85.6	41.5	33.0	9.4	2.6	2.6	2.6	11.1
120°	165.3	138.7	106.6	84.7	40.4	31.7	9.0	2.7	2.7	2.7	10.7
121°	171.3	141.9	105.7	83.6	39.5	30.5	8.5	2.8	2.8	2.8	10.3
122°	178.8	143.0	105.1	82.0	38.7	29.2	8.1	2.9	3.0	2.9	9.9
123°	183.2	141.4	104.4	80.3	37.9	28.1	7.8	2.9	3.0	2.9	9.6
124°	183.6	140.0	103.7	78.5	37.1	27.2	7.4	2.9	3.2	3.0	9.3
125°	180.6	139.0	102.9	76.7	36.4	26.3	7.0	3.0	3.2	3.0	8.9
126°	177.5	137.3	102.1	74.9	35.8	25.5	6.6	3.0	3.3	3.0	8.5
127°	174.9	135.8	101.0	73.4	35.1	24.9	6.3	3.0	3.3	3.0	8.2
128°	171.3	134.1	99.9	72.0	34.1	24.6	6.0	3.0	3.3	3.0	7.8
129°	169.4	132.3	98.7	70.6	33.0	24.4	5.9	3.0	3.3	2.9	7.6
130°	167.4	130.2	97.6	69.3	26.5	24.3	5.7	3.0	3.3	3.0	7.4
131°	166.3	127.4	96.6	68.0	18.6	23.8	5.4	3.0	3.3	2.9	7.1
132°	164.9	124.3	96.1	66.3	13.8	22.8	5.2	2.9	3.3	2.9	6.7
133°	161.7	121.0	96.1	63.6	10.3	21.8	4.9	2.8	3.2	2.8	6.3
134°	156.3	118.1	96.7	58.9	13.6	20.2	4.5	2.8	3.1	2.8	5.8



REPORT NUMBER: PSZ2F161027006-10
 CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	150.8	115.4	97.3	54.1	15.0	17.6	4.3	2.9	2.9	2.8	5.4
136°	145.1	112.9	97.2	49.4	14.4	14.0	3.9	3.0	2.9	2.9	4.9
137°	139.0	111.3	95.5	45.5	13.9	10.4	3.4	3.1	2.9	3.1	4.3
138°	132.1	110.8	92.3	42.0	13.3	6.8	3.1	3.2	3.0	3.1	3.7
139°	125.9	111.6	87.9	39.1	12.8	4.6	2.8	3.2	3.2	3.2	3.3
140°	121.3	113.1	83.1	34.0	12.2	5.7	2.8	3.3	3.3	3.3	3.0
141°	119.3	115.0	78.2	28.4	11.6	7.7	2.9	3.3	3.4	3.3	3.1
142°	120.6	116.6	73.9	22.4	11.0	9.8	3.1	3.3	3.4	3.4	3.3
143°	125.3	117.7	69.7	17.2	10.2	10.7	3.2	3.3	3.4	3.4	3.5
144°	132.1	116.8	65.6	13.0	9.4	9.9	3.3	3.3	3.5	3.4	3.6
145°	136.3	112.7	61.9	10.7	8.5	8.8	3.2	3.3	3.5	3.4	3.7
146°	132.6	105.5	59.0	10.6	7.5	7.4	3.2	3.2	3.5	3.3	3.8
147°	121.6	96.6	56.0	6.5	6.7	5.9	3.2	3.3	3.5	3.3	3.9
148°	108.0	88.2	53.0	7.2	5.8	4.1	3.0	3.4	3.4	3.4	3.9
149°	95.8	81.1	51.0	8.0	4.9	2.4	2.9	3.6	3.5	3.4	3.9
150°	86.5	75.7	49.1	10.4	3.0	2.3	2.9	3.7	3.5	3.6	3.9
151°	79.7	71.3	47.3	12.8	2.3	2.3	2.9	3.8	3.7	3.8	3.8
152°	74.4	67.7	45.5	15.3	2.4	2.3	2.9	3.9	3.9	3.9	3.7
153°	70.2	64.5	43.8	14.8	2.4	2.3	2.9	3.8	4.1	4.0	3.5
154°	66.7	61.1	42.1	14.3	2.5	2.4	2.9	3.7	4.2	4.1	3.5
155°	63.5	58.2	39.1	13.8	2.5	2.4	2.9	3.5	4.3	4.2	3.6
156°	60.2	55.3	29.6	13.2	2.5	2.4	2.8	3.5	4.2	4.1	3.6
157°	57.0	52.3	20.5	12.6	2.5	2.5	2.8	3.4	4.1	4.0	3.5
158°	53.8	49.4	12.3	12.0	2.5	2.5	2.8	3.4	3.8	3.7	3.5
159°	50.5	46.3	5.8	11.3	2.6	2.6	2.7	3.3	3.7	3.7	3.4
160°	47.3	42.7	5.8	10.8	2.6	2.6	2.7	3.3	3.7	3.6	3.4
161°	43.9	31.0	5.8	10.2	2.6	2.6	2.7	3.1	3.6	3.5	3.3
162°	32.9	19.7	10.1	9.6	2.6	2.5	2.7	3.0	3.5	3.4	3.1
163°	20.9	9.8	14.5	9.0	2.6	2.5	2.7	3.0	3.4	3.3	3.0
164°	10.1	7.7	18.8	8.3	2.6	2.5	2.7	3.0	3.3	3.2	2.9
165°	7.8	5.8	17.2	7.7	2.6	2.5	2.7	2.9	3.2	3.2	3.0
166°	5.7	10.3	15.7	7.0	2.6	2.5	2.7	2.9	3.1	3.1	2.9
167°	9.2	14.9	13.9	6.3	2.6	2.6	2.7	2.8	3.1	3.0	2.8
168°	12.8	19.4	12.5	5.6	2.6	2.6	2.7	2.8	3.0	2.9	2.8
169°	16.3	16.7	11.3	4.8	2.6	2.6	2.7	2.8	3.0	2.9	2.7
170°	14.0	14.1	9.9	4.3	2.7	2.6	2.7	2.7	2.9	2.9	2.7
171°	11.8	11.7	8.4	4.2	2.7	2.7	2.7	2.7	2.9	2.9	2.7
172°	9.8	9.6	6.9	4.2	2.7	2.7	2.7	2.7	2.9	2.9	2.7
173°	8.0	7.7	6.0	4.2	2.7	2.7	2.7	2.7	2.8	2.9	2.7
174°	6.3	6.5	5.0	4.1	2.8	2.8	2.7	2.7	2.9	2.9	2.8
175°	5.2	5.3	4.1	4.1	2.8	2.8	2.8	2.8	3.0	3.0	2.9
176°	4.1	4.1	4.0	4.0	2.9	2.9	2.9	3.0	3.1	3.0	3.1
177°	3.9	3.9	3.9	3.9	3.0	3.0	3.0	3.1	3.2	3.2	3.2
178°	3.8	3.8	3.8	3.7	3.1	3.1	3.2	3.2	3.2	3.2	3.2
179°	3.7	3.6	3.6	3.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3



REPORT NUMBER: PSZ2F161027006-10

CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6

REPORT NUMBER: PSZ2F161027006-10
 CATALOG NUMBER:

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	247.5°	270°	292.5°	315°	337.5°	360°	
0°	4153.1	4153.1	4153.1	4153.1	4153.1	4153.1	45°
1°	4206.0	4216.2	4173.3	4145.7	4135.8	4145.5	46°
2°	4347.0	4355.0	4291.9	4221.2	4157.7	4161.8	47°
3°	4534.0	4514.9	4451.0	4325.6	4189.5	4198.0	48°
4°	4719.9	4641.5	4582.7	4431.6	4270.3	4255.8	49°
5°	4870.5	4701.0	4657.4	4534.2	4313.5	4303.2	50°
6°	4951.0	4733.2	4685.0	4587.6	4353.0	4396.6	51°
7°	4995.9	4752.4	4691.2	4612.6	4476.6	4543.2	52°
8°	5030.4	4813.4	4715.8	4634.5	4625.2	4739.3	53°
9°	5096.3	4992.3	4844.4	4691.6	4916.4	5050.8	54°
10°	5250.6	5148.6	5053.6	4783.1	5268.4	5133.5	55°
11°	5400.8	5099.5	5171.9	4972.3	5336.4	4748.4	56°
12°	5421.3	4789.9	5087.4	5476.3	4894.5	3913.2	57°
13°	5245.6	4407.8	4817.5	5941.4	4018.4	3105.8	58°
14°	4889.6	4121.5	4518.5	5942.0	3195.7	2718.7	59°
15°	4516.7	3954.3	4332.8	5493.3	2815.1	2647.6	60°
16°	4235.5	3893.6	4218.4	4689.2	2738.7	2713.0	61°
17°	4067.6	3907.5	4139.8	3803.2	2788.0	2846.6	62°
18°	3977.7	3944.3	4079.9	3136.9	2903.9	2991.3	63°
19°	3869.1	3981.6	4038.0	2806.1	3050.8	3150.0	64°
20°	3723.7	4003.2	4073.9	2725.8	3208.3	3307.5	65°
21°	3541.0	4017.0	4213.7	2736.9	3382.3	3474.2	66°
22°	3329.2	3987.0	4448.3	2775.4	3565.9	3655.1	67°
23°	3087.1	3935.9	4732.9	2832.4	3779.2	3858.7	68°
24°	2835.7	3886.7	4905.6	2894.6	4001.8	4112.4	69°
25°	2633.8	3831.9	4846.3	2979.2	4240.0	4398.1	70°
26°	2472.3	3748.8	4667.7	3064.6	4527.9	4700.9	71°
27°	2346.3	3634.3	4433.6	3156.7	4845.9	4928.8	72°
28°	2237.3	3524.9	4181.8	3258.1	5111.3	5081.9	73°
29°	2145.1	3484.4	3888.2	3354.7	5261.7	5178.3	74°
30°	2065.2	3561.0	3588.9	3430.8	5323.3	5238.1	75°
31°	2018.5	3767.2	3349.6	3502.3	5342.8	5289.3	76°
32°	2006.3	4021.2	3200.6	3588.4	5328.3	5320.8	77°
33°	2031.7	4240.3	3117.3	3686.0	5285.1	5304.2	78°
34°	2086.5	4350.5	3084.0	3780.9	5228.9	5255.6	79°
35°	2149.3	4358.1	3059.5	3848.0	5179.2	5204.1	80°
36°	2197.6	4276.1	3039.2	3883.7	5119.6	5238.1	81°
37°	2218.9	4122.2	3016.9	3880.9	5056.6	5527.2	82°
38°	2216.0	3893.0	2991.0	3862.1	5057.4	5940.4	83°
39°	2194.3	3640.9	2959.0	3849.4	5277.1	5987.7	84°
40°	2155.0	3434.9	2927.7	3856.3	5613.1	5708.4	85°
41°	2095.2	3302.5	2887.1	3880.7	5631.4	5368.3	86°
42°	2033.7	3246.9	2843.9	3908.4	5396.7	5139.3	87°
43°	1971.7	3260.8	2809.5	3932.0	5095.9	5024.9	88°
44°	1927.0	3305.7	2773.2	3962.8	4889.9	4958.9	89°

NUMBER: PSZ2F161027006-10
 NUMBER:

REPORT NUMBER: F
 CATALOG NUMBER:

DISTRIBUTION (continued):

247.5°	270°	292.5°	315°	337.5°	360°
1896.0	3360.9	2754.6	4016.7	4804.3	4860.1
1881.3	3402.0	2766.2	4094.4	4721.0	4774.5
1875.2	3415.7	2764.2	4145.8	4579.4	4720.1
1872.2	3410.5	2751.0	4131.3	4420.0	4736.5
1864.8	3391.5	2739.4	4064.4	4295.7	4796.3
1851.7	3351.6	2740.9	3953.0	4269.1	4795.3
1832.9	3286.8	2734.0	3834.5	4303.5	4568.0
1809.3	3194.7	2707.2	3672.1	4260.2	4246.4
1781.9	3082.7	2674.4	3489.1	4039.9	4111.8
1749.6	2958.1	2645.3	3337.6	3807.5	4090.1
1710.6	2826.7	2611.8	3214.0	3632.6	4048.1
1659.1	2726.6	2581.1	3053.0	3533.3	4061.1
1599.8	2687.4	2553.1	2895.2	3485.5	4102.5
1541.7	2713.4	2521.6	2724.7	3469.2	4069.8
1490.6	2743.1	2469.4	2583.4	3487.0	4047.9
1443.8	2720.7	2414.3	2434.6	3475.9	3991.9
1398.5	2612.5	2346.1	2283.2	3430.7	3939.2
1348.0	2483.7	2250.8	2170.6	3423.9	3915.8
1283.4	2341.4	2140.4	2077.8	3431.5	3812.5
1218.8	2163.7	2029.6	2011.7	3449.4	3783.7
1153.1	1952.2	1915.7	1959.9	3483.9	3779.2
1040.4	1720.0	1778.7	1916.3	3447.1	3567.7
904.0	1503.1	1626.3	1884.0	3356.1	3403.4
752.4	1313.1	1471.0	1860.9	3236.3	3204.3
600.4	1158.1	1309.3	1829.9	3035.5	2905.2
471.5	1053.2	1160.4	1796.8	2821.9	2699.5
379.3	956.8	1042.5	1751.9	2620.8	2475.4
315.8	878.1	937.1	1682.6	2397.2	2234.0
271.3	789.4	837.3	1577.2	2190.9	2032.0
241.5	709.1	745.8	1453.1	2002.8	1843.2
216.7	643.3	673.0	1328.4	1825.3	1674.7
197.5	578.7	614.2	1213.3	1670.5	1536.1
180.1	514.1	564.1	1098.7	1530.5	1403.1
165.3	449.5	514.1	1002.0	1387.7	1275.7
152.6	393.7	464.0	915.5	1248.0	1154.2
142.3	341.1	415.2	837.2	1127.5	1047.2
132.0	292.1	371.5	769.7	1023.4	953.2
121.8	244.9	334.9	706.9	937.4	869.0
114.2	201.9	303.7	650.9	862.4	805.4
107.2	165.8	277.0	609.2	790.9	744.5
101.1	136.1	255.6	560.1	729.3	705.7
94.8	109.7	237.3	511.0	667.9	665.9
88.7	89.1	220.6	473.7	606.0	619.0
83.4	74.9	204.2	442.5	563.5	586.2
78.3	65.3	190.9	410.2	521.2	553.6

CANDELA DISTRIBUTION:

	247.5°
90°	73.5
91°	68.7
92°	63.5
93°	59.1
94°	56.0
95°	51.0
96°	46.4
97°	42.9
98°	40.8
99°	40.1
100°	40.8
101°	41.8
102°	40.3
103°	40.1
104°	43.2
105°	47.7
106°	52.7
107°	52.6
108°	51.1
109°	49.7
110°	48.2
111°	46.9
112°	45.4
113°	44.0
114°	42.5
115°	41.0
116°	39.5
117°	38.1
118°	36.9
119°	35.8
120°	34.7
121°	33.9
122°	33.0
123°	32.3
124°	31.6
125°	31.0
126°	30.7
127°	30.6
128°	30.7
129°	31.1
130°	31.6
131°	31.7
132°	31.3
133°	30.3
134°	28.9

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REPORT NUMBER: PSZ2F1610

CATALOG NUMBER:

TION (continued):

270°	292.5°	315°	337.5°	360°
58.6	178.6	382.8	479.4	521.1
52.0	163.1	354.9	446.2	493.2
45.4	135.3	291.5	399.7	476.5
41.9	113.8	236.1	358.3	441.0
39.5	94.9	202.7	329.2	413.2
37.9	87.2	177.8	303.8	377.4
39.6	89.7	158.0	279.9	349.2
40.8	89.9	145.6	260.4	313.3
41.5	86.1	137.6	247.1	289.0
40.1	80.2	133.5	228.2	274.7
35.7	78.6	130.1	214.4	267.6
32.2	79.9	129.6	205.0	255.8
30.7	84.1	124.4	197.6	252.8
32.3	90.4	115.2	190.7	253.2
36.8	97.2	104.0	182.8	245.6
43.1	103.3	93.7	172.5	232.3
49.9	105.5	89.2	161.0	221.3
55.4	104.0	87.1	149.1	206.7
56.7	102.3	89.5	134.9	185.0
56.4	100.6	97.9	120.1	174.9
55.7	98.7	103.7	108.2	159.4
54.8	97.0	107.4	102.3	147.0
53.9	95.1	110.1	99.5	136.3
52.9	93.1	111.8	102.4	129.8
51.5	91.3	112.4	106.3	127.1
49.8	89.9	111.4	115.7	131.5
48.1	88.8	110.6	122.4	134.3
46.3	87.9	109.9	127.2	145.5
44.7	87.2	109.0	132.0	153.8
43.4	86.4	108.0	137.1	159.0
42.5	85.5	106.9	141.2	165.3
41.5	84.3	106.1	144.1	171.3
40.6	82.9	105.2	142.8	178.8
39.8	81.2	104.2	141.2	183.2
39.1	79.3	103.2	139.9	183.6
38.4	77.4	101.9	138.6	180.6
37.6	75.7	100.8	137.1	177.5
36.8	74.2	99.7	135.8	174.9
33.1	72.7	98.5	134.5	171.3
25.2	71.0	97.1	133.3	169.4
18.4	68.5	96.0	131.3	167.4
13.9	65.2	95.4	128.4	166.3
12.1	61.0	95.1	124.9	164.9
15.7	56.0	95.1	121.1	161.7
16.9	51.0	95.6	117.3	156.3

CANDELA DISTRIBUTION (con

	247.5°	270°
135°	26.7	16.4
136°	22.9	15.9
137°	19.2	15.4
138°	15.3	15.0
139°	11.5	14.5
140°	7.6	14.1
141°	5.7	13.5
142°	5.0	12.7
143°	5.3	11.9
144°	5.4	10.9
145°	5.3	10.0
146°	5.2	9.1
147°	4.9	8.2
148°	3.4	7.4
149°	3.4	6.6
150°	3.4	5.1
151°	3.4	3.5
152°	3.4	3.6
153°	3.5	4.0
154°	3.5	3.8
155°	3.6	3.9
156°	3.6	4.0
157°	3.6	4.0
158°	3.6	4.1
159°	3.6	4.2
160°	3.5	4.2
161°	3.4	4.2
162°	3.4	4.2
163°	3.3	4.3
164°	3.2	4.3
165°	3.2	4.2
166°	3.1	4.2
167°	3.1	4.1
168°	3.1	4.0
169°	3.0	4.0
170°	3.0	3.9
171°	2.9	3.9
172°	2.9	3.9
173°	2.8	3.9
174°	2.9	3.9
175°	3.0	3.8
176°	3.2	3.7
177°	3.2	3.6
178°	3.4	3.5
179°	3.4	3.4



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tinued):

292.5°	315°	337.5°	360°
47.5	95.9	113.5	150.8
44.6	95.7	110.3	145.1
41.4	94.2	107.4	139.0
35.4	91.2	106.1	132.1
29.5	87.4	106.7	125.9
23.8	82.9	108.3	121.3
19.0	77.9	110.3	119.3
15.5	73.5	112.3	120.6
14.2	69.5	113.6	125.3
14.8	65.5	113.1	132.1
14.9	62.2	109.4	136.3
16.5	58.7	102.5	132.6
19.2	55.2	94.0	121.6
16.6	51.8	85.7	108.0
16.2	49.1	78.6	95.8
18.5	46.7	73.2	86.5
20.5	44.9	68.6	79.7
18.6	43.1	65.1	74.4
16.7	41.5	62.3	70.2
15.0	37.8	59.5	66.7
14.0	28.7	56.6	63.5
13.1	20.1	53.8	60.2
12.3	12.4	51.1	57.0
11.4	6.2	48.4	53.8
10.6	5.9	45.5	50.5
9.8	5.7	38.5	47.3
9.1	9.7	26.3	43.9
8.4	13.6	15.6	32.9
7.8	17.6	6.7	20.9
7.1	16.4	9.5	10.1
6.6	14.9	12.7	7.8
6.0	13.5	15.8	5.7
5.4	12.0	19.0	9.2
4.8	10.7	17.1	12.8
4.3	9.3	14.7	16.3
4.1	8.1	12.5	14.0
4.1	6.9	10.5	11.8
4.0	6.0	8.7	9.8
4.0	5.1	7.1	8.0
4.0	4.1	6.0	6.3
3.9	4.0	5.0	5.2
3.8	3.9	3.9	4.1
3.7	3.8	3.8	3.9
3.6	3.7	3.7	3.8
3.5	3.6	3.6	3.7

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°
180°	3.6	3.6	3.6



315°	337.5°	360°
3.6	3.6	3.6

(END OF REPORT)