

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: PSZ2F161101002-10

Luminaire Tested:

Test Date: 2016-11-2

Test Information

Test Method: LM-79-08
Report Number: PSZ2F161101002-10
Test Lab: BACL (Bay Area Compliance Labs)
Test Date: 2016-11-2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number:
Description: WPSQLED-65-UNV-7050
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 7446.2 (1 lamp)
Luminaire Lumens: 7441.6 lumens
Efficiency: 99.9%
Efficacy: 115.7 lumens/watt
Luminous Opening: Point Source (0m x 0m x 0m)
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

Input Watts (W): 64.3
Input Voltage (V): NR
Input Current (A_{in}): 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

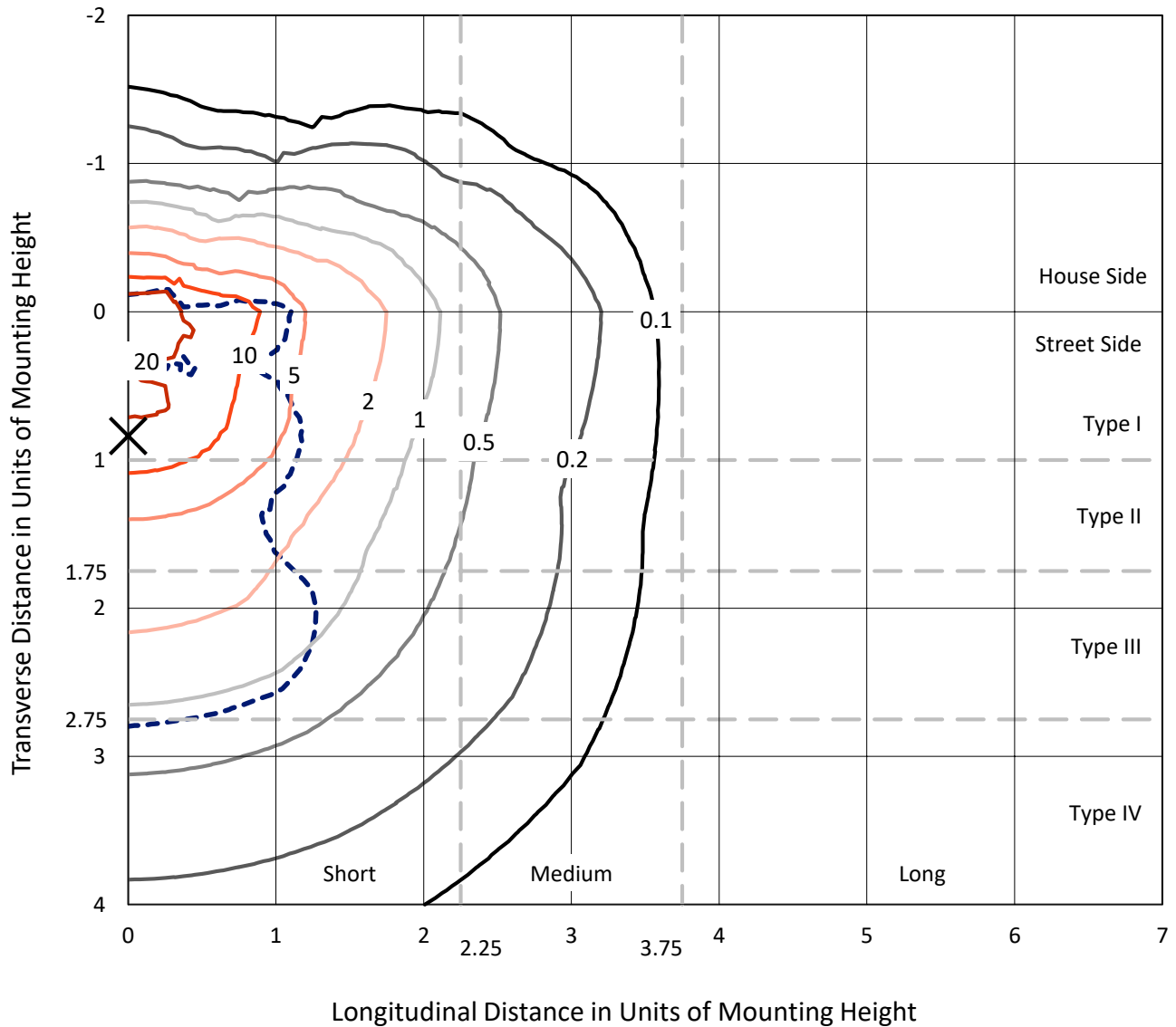


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CATALOG NUMBER:

Iso-Footcandle Lines of Horizontal Illumination

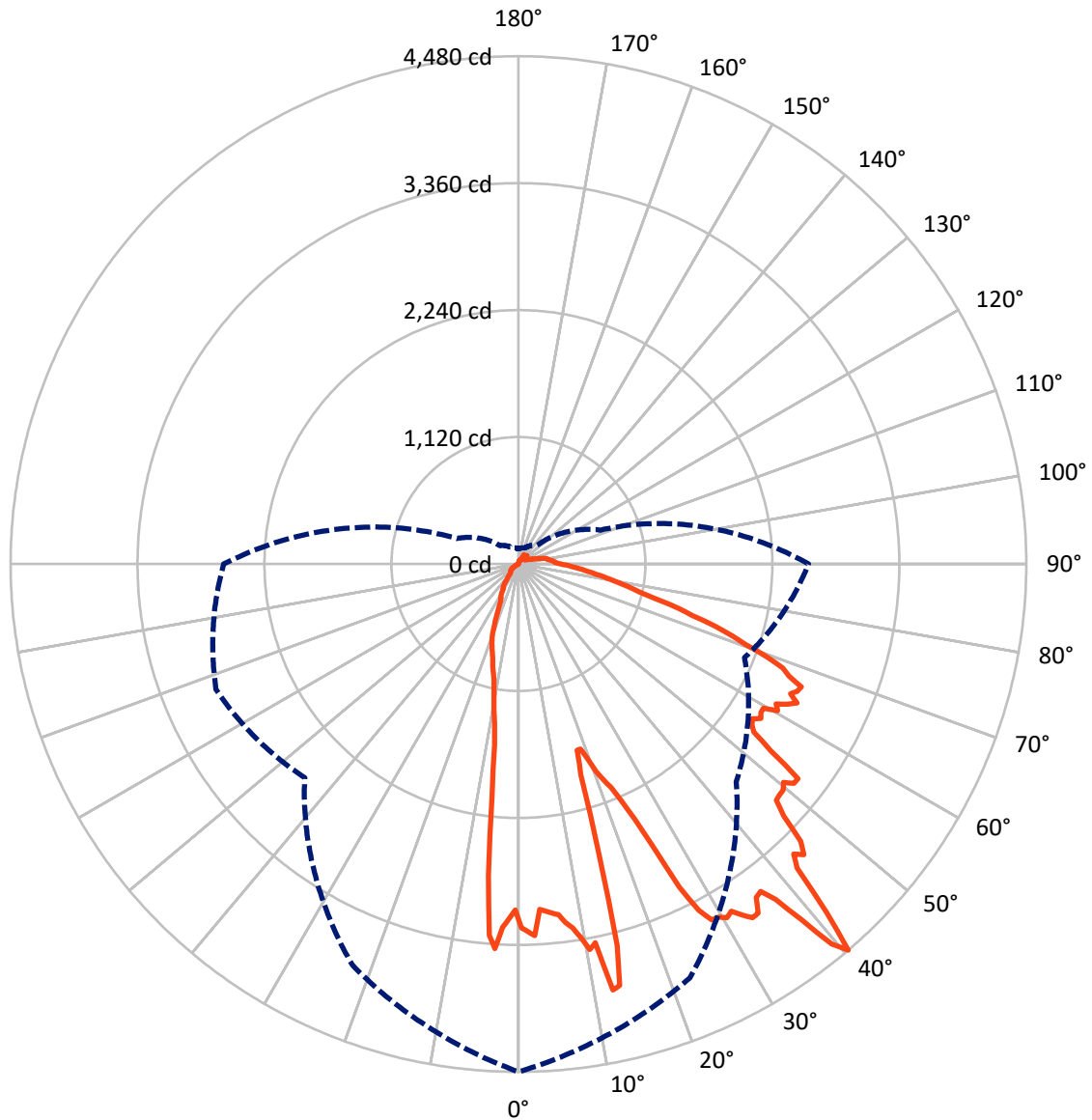
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 40-Deg Vertical

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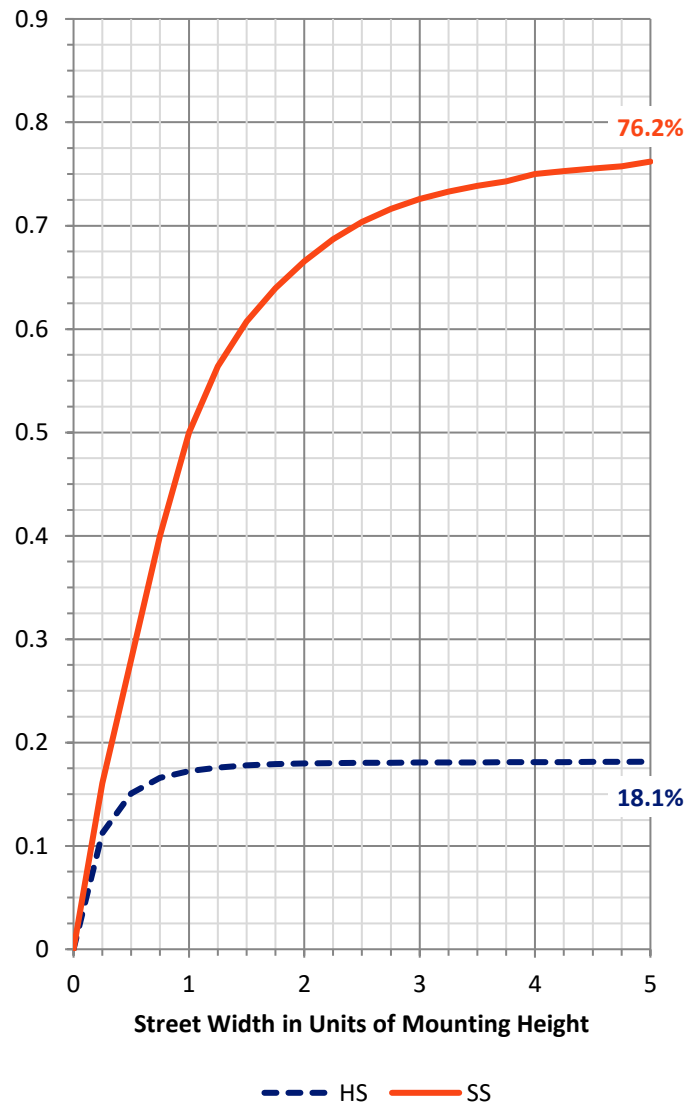
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.3	32.1	1398.4
	% Lamp	18.3	0.4	18.8
Street Side	Lumens	5797.6	245.6	6043.2
	% Lamp	77.9	3.3	81.2
Total	Lumens	7163.9	277.8	7441.6
	% Lamp	96.2	3.7	99.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	278.2	3.7	3.7
10°-20°	673.1	9.0	9.0
20°-30°	785.9	10.6	10.6
30°-40°	1120.8	15.1	15.1
40°-50°	1298.2	17.4	17.4
50°-60°	1170.8	15.7	15.7
60°-70°	1025.9	13.8	13.8
70°-80°	596.5	8.0	8.0
80°-90°	214.6	2.9	2.9
90°-100°	107.8	1.4	1.4
100°-110°	56.5	0.8	0.8
110°-120°	35.8	0.5	0.5
120°-130°	29.1	0.4	0.4
130°-140°	25.3	0.3	0.3
140°-150°	15.5	0.2	0.2
150°-160°	5.6	0.1	0.1
160°-170°	1.8	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	7163.9	96.3	96.2
0°-180°	7441.6	100.0	99.9

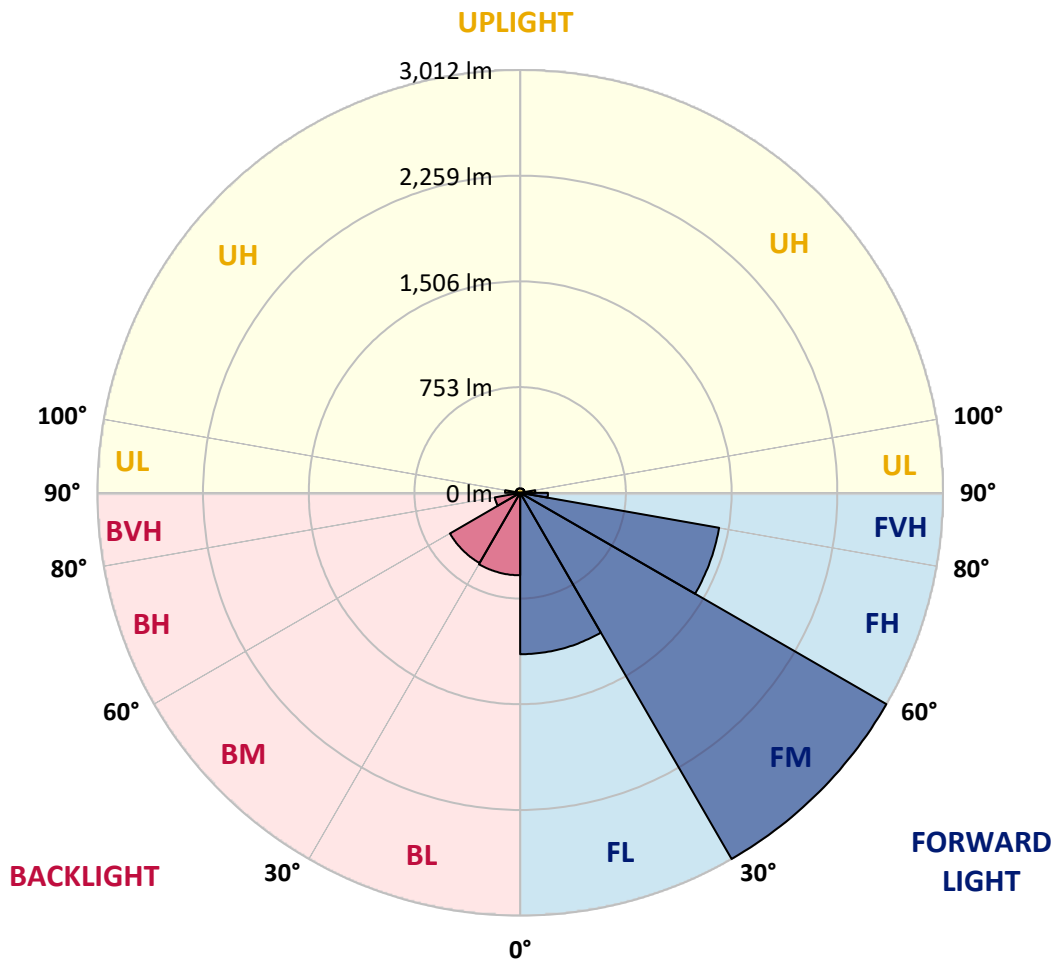


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1149.6	15.4			
FM	(30°-60°)	3011.6	40.4			
FH	(60°-80°)	1438.7	19.3			G1/1800
FVH	(80°-90°)	197.6	2.7			G2/225
BL	(0°-30°)	587.5	7.9	B2/1000		
BM	(30°-60°)	578.1	7.8	B1/1000		
BH	(60°-80°)	183.7	2.5	B1/500		G1/500
BVH	(80°-90°)	17.0	0.2			G1/100
UL	(90°-100°)	107.8	1.4		U3/500	
UH	(100°-180°)	32.1	0.4		U2/50	
Trapped Light		4.6	0.1			

BUG Rating: B2-U3-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6
1°	3244.2	3185.6	3120.0	3105.3	3070.2	3044.4	3022.9	3030.8	3050.7	3095.5	3146.3
2°	3282.4	3202.0	3136.6	3106.9	3041.7	2973.8	2935.4	3041.6	3128.8	3148.1	3112.1
3°	3051.1	3003.7	3177.5	3127.5	3076.5	2988.5	3164.4	3206.0	3206.4	3195.6	3194.2
4°	3071.4	2940.5	3043.4	3155.8	3071.2	3029.2	3305.1	3435.8	3398.8	3280.2	3170.2
5°	3092.3	2989.3	2968.7	3163.6	3036.3	3013.7	3331.8	3614.6	3284.4	3284.8	3248.8
6°	3113.8	2997.8	2978.6	3090.8	2980.7	2978.0	3356.5	3212.1	2759.3	2950.6	3312.8
7°	3191.5	3033.5	2963.0	3007.4	3008.6	3098.5	3109.6	2611.0	2054.4	2410.2	3103.3
8°	3246.2	3084.6	2907.9	2957.2	3027.0	3245.0	2848.9	1926.9	1612.7	1820.6	2711.0
9°	3343.7	3141.7	2942.9	2879.4	3036.9	3357.2	2513.6	1542.3	1415.2	1530.0	2173.1
10°	3458.5	3315.0	3024.4	2843.1	3050.8	3337.0	2105.4	1399.5	1302.9	1397.0	1781.3
11°	3408.1	3383.5	3108.3	2854.1	3088.6	3298.1	1735.6	1256.8	1190.6	1264.0	1581.5
12°	3849.0	3386.8	3105.6	2889.1	3112.0	3227.7	1496.5	1115.0	1079.1	1132.1	1432.7
13°	3822.5	3698.8	3171.5	2924.9	3200.1	3054.9	1369.6	1022.7	1008.9	1057.3	1317.0
14°	3479.4	3640.0	3211.6	2952.9	3254.6	2970.8	1242.8	951.6	958.5	998.1	1201.4
15°	2658.8	3402.3	3193.0	3040.7	3353.4	2748.6	1116.2	904.7	905.8	945.8	1087.4
16°	1938.8	2804.8	3364.7	3211.9	3736.6	2599.9	1030.9	866.4	852.5	886.0	1024.6
17°	1722.8	2142.3	3539.2	3548.0	4194.4	2543.2	978.7	822.1	811.2	830.4	979.2
18°	1721.5	1819.1	3480.2	3891.0	4024.4	2464.5	952.5	796.9	772.1	792.9	947.6
19°	1817.7	1762.1	3259.0	3895.6	3181.4	2140.5	944.9	773.0	737.7	774.2	911.5
20°	1950.6	1819.9	2904.7	3478.3	2432.3	1672.2	954.7	746.2	693.0	756.8	872.5
21°	2048.0	1898.8	2506.0	2953.2	2158.9	1471.7	977.0	709.9	647.6	710.7	850.3
22°	2130.2	1955.1	2187.1	2631.9	2134.4	1271.2	947.2	662.6	576.1	651.4	840.9
23°	2274.6	2013.7	1993.3	2493.4	2236.6	1070.7	888.9	608.5	512.7	579.5	824.4
24°	2469.3	2098.9	1937.3	2455.4	2334.2	1041.3	806.7	547.2	451.3	513.7	817.4
25°	2761.0	2215.4	1956.5	2554.4	2409.1	1028.8	729.5	489.5	407.0	461.6	817.2
26°	3183.4	2382.7	1962.4	2719.6	2392.8	1017.6	652.1	437.9	369.8	418.0	801.6
27°	3445.3	2688.6	1918.6	2847.4	2369.8	1010.6	580.6	397.8	343.9	384.7	752.0
28°	3573.4	3001.9	1883.5	2955.3	2364.4	983.4	523.4	368.2	337.1	354.7	696.8
29°	3580.0	3219.1	1886.3	2864.5	2402.2	946.7	479.4	343.5	319.6	337.7	638.9
30°	3621.7	3418.9	1887.0	2839.9	2408.1	902.6	442.1	324.3	307.4	326.6	570.9
31°	3592.1	3482.0	1911.3	2651.7	2401.4	871.1	411.0	311.5	280.0	312.8	500.9
32°	3670.6	3556.0	1989.8	2532.0	2329.8	866.7	383.1	294.4	252.0	297.0	438.9
33°	3742.8	3572.9	2086.8	2450.7	2323.0	862.1	358.3	276.9	251.0	271.5	387.4
34°	3734.9	3630.3	2206.1	2472.5	2410.6	850.3	335.8	258.4	240.9	251.2	340.9
35°	3612.2	3661.9	2334.0	2437.7	2501.4	830.9	316.6	241.8	226.8	243.4	305.8
36°	3593.5	3695.4	2437.6	2344.9	2518.5	820.5	300.5	229.9	206.7	232.3	283.8
37°	3730.2	3718.0	2522.6	2255.2	2529.7	805.7	283.3	212.3	181.5	212.7	265.6
38°	4008.7	3760.4	2602.7	2206.4	2590.2	797.1	266.6	194.1	162.9	189.7	253.2
39°	4343.0	3819.5	2694.7	2172.2	2676.1	794.1	250.1	173.3	148.6	171.9	243.3
40°	4480.0	3951.0	2717.5	2157.9	2559.0	781.6	235.6	155.3	134.2	156.6	230.1
41°	4099.9	4259.1	2690.4	2139.4	2431.8	769.6	221.4	139.9	119.9	141.0	217.7
42°	3637.9	4435.7	2663.3	2107.8	2331.8	755.4	207.7	124.7	108.4	125.4	208.6
43°	3527.6	4257.6	2662.7	2062.1	2241.9	723.9	196.6	113.9	101.5	115.0	197.4
44°	3594.1	3895.4	2686.4	2012.6	2279.0	685.5	186.7	104.1	98.9	106.3	185.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	3490.9	3611.7	2704.8	1976.5	2307.0	667.5	175.9	96.1	98.5	98.7	169.2
46°	3228.7	3437.6	2693.9	1944.8	2322.3	655.7	162.9	89.5	98.0	92.4	153.9
47°	3085.0	3227.8	2743.0	1939.7	2236.3	631.9	153.3	83.8	96.2	89.2	142.8
48°	3075.2	3014.3	2851.4	1948.4	2067.1	605.5	145.3	79.0	91.6	87.5	131.7
49°	3071.3	2867.2	2895.1	1937.7	1956.7	585.0	138.6	75.8	89.3	84.7	120.6
50°	3030.3	2787.7	2844.1	1909.2	1938.9	573.1	132.0	73.0	86.0	81.6	112.3
51°	3107.2	2777.2	2745.2	1847.9	1827.9	553.4	125.4	70.4	83.9	79.2	105.0
52°	3109.5	2784.1	2632.1	1796.9	1741.4	533.3	119.5	68.1	79.7	77.4	99.9
53°	2769.8	2743.8	2512.6	1841.8	1693.5	528.6	114.5	65.5	75.5	74.8	94.7
54°	2551.3	2665.5	2414.9	1823.0	1742.4	517.9	110.1	62.5	72.2	71.6	89.1
55°	2500.9	2515.0	2312.0	1770.7	1889.8	497.6	105.4	58.4	68.7	67.3	84.3
56°	2473.5	2348.0	2199.4	1745.8	1837.3	482.2	99.8	54.0	63.6	62.9	80.1
57°	2537.1	2265.7	2083.0	1820.9	1729.9	492.5	95.0	49.3	57.0	59.2	76.3
58°	2508.6	2206.9	1983.6	1794.4	1697.0	491.0	91.1	43.9	51.6	53.3	72.6
59°	2509.1	2209.7	1908.9	1649.1	1643.5	459.1	87.7	38.0	43.7	47.1	69.3
60°	2626.0	2235.7	1876.4	1607.1	1644.4	446.8	84.4	33.1	35.5	41.7	64.7
61°	2586.6	2293.0	1782.0	1502.9	1600.9	427.7	80.6	28.1	29.9	34.7	60.9
62°	2676.3	2348.9	1646.7	1498.9	1439.0	408.4	76.2	22.2	25.7	27.2	57.8
63°	2745.4	2424.7	1605.4	1452.9	1383.2	397.4	71.6	18.4	18.0	22.5	55.1
64°	2660.3	2484.7	1573.1	1305.3	1319.4	396.3	67.8	13.5	10.4	16.6	52.4
65°	2703.4	2560.4	1549.3	1180.3	1255.6	391.8	63.8	8.7	2.8	10.8	49.3
66°	2721.4	2594.2	1545.3	1098.4	1192.1	355.1	59.3	3.9	0.6	4.9	46.2
67°	2584.9	2524.4	1531.6	1046.4	1189.1	316.0	55.7	0.7	0.3	0.8	42.5
68°	2507.1	2413.9	1504.4	1043.4	1042.0	305.4	52.1	0.4	0.3	0.4	39.2
69°	2345.8	2279.2	1481.3	976.9	887.7	325.9	48.4	0.4	0.3	0.4	36.2
70°	2120.4	2083.1	1430.0	838.8	795.6	293.6	44.8	0.4	0.3	0.4	34.0
71°	1986.9	1893.3	1359.7	775.2	828.0	251.5	41.8	0.4	0.3	0.4	31.9
72°	1812.4	1712.7	1312.8	738.3	815.1	226.6	40.0	0.4	0.3	0.4	30.8
73°	1600.7	1530.9	1267.3	710.8	717.5	216.4	39.0	0.5	0.3	0.4	30.0
74°	1467.9	1390.7	1173.9	654.2	548.6	207.5	38.1	0.5	0.3	0.5	29.5
75°	1295.8	1263.2	1082.0	600.3	434.2	170.2	37.0	0.5	0.4	0.5	29.1
76°	1145.6	1130.0	972.8	536.1	355.0	132.9	35.5	0.5	0.4	0.5	28.9
77°	1048.2	1028.8	871.1	471.9	272.9	96.2	34.3	0.5	0.4	0.5	28.9
78°	973.2	941.4	777.4	417.0	222.5	83.5	33.5	0.5	0.4	0.5	29.3
79°	894.9	857.8	692.3	344.0	183.7	75.5	33.2	0.5	0.4	0.6	29.1
80°	822.5	776.3	633.6	278.1	155.4	69.5	33.1	0.5	0.5	0.6	29.0
81°	758.2	708.4	582.2	225.4	127.0	64.2	33.9	0.5	0.5	0.6	29.1
82°	695.9	643.7	530.9	190.0	99.0	60.8	34.8	0.6	0.5	0.6	29.3
83°	640.1	604.6	479.6	168.3	81.4	57.1	35.3	0.6	0.6	0.6	29.5
84°	588.9	559.6	442.7	151.5	71.3	54.7	34.8	0.6	0.6	0.7	30.0
85°	547.5	514.4	410.3	142.6	62.8	52.1	33.4	0.6	0.6	0.7	30.1
86°	506.1	476.0	382.9	131.3	57.6	49.3	31.4	0.6	0.6	0.7	29.1
87°	466.4	437.0	357.9	123.7	43.8	46.0	29.0	0.6	0.7	0.7	26.7
88°	430.1	401.6	336.2	113.2	35.8	42.3	26.1	0.7	0.7	0.8	23.6
89°	391.9	368.8	315.6	106.9	33.2	39.8	22.9	0.7	0.8	0.8	20.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	357.1	342.6	296.3	102.2	31.9	38.2	20.3	0.7	0.8	0.8	17.6
91°	341.4	318.1	277.1	98.7	31.2	38.0	19.1	0.7	0.8	0.8	15.8
92°	322.8	300.6	259.1	95.6	30.7	38.8	19.6	0.7	0.8	0.8	15.4
93°	321.6	281.8	242.0	93.0	29.6	39.1	21.3	0.7	0.8	0.8	16.0
94°	307.5	268.7	227.6	90.1	28.9	38.8	24.0	0.8	0.9	0.8	17.5
95°	301.8	256.0	214.7	84.5	28.7	38.7	26.4	0.8	0.9	0.9	19.6
96°	285.1	246.2	203.8	73.8	27.8	37.1	28.1	0.9	1.0	0.9	21.5
97°	277.4	236.7	194.0	64.1	26.6	33.3	27.9	0.9	1.0	1.0	22.1
98°	264.8	229.6	180.3	60.4	25.5	28.9	25.4	0.9	1.0	1.0	21.3
99°	262.1	222.2	166.7	56.8	24.6	25.0	20.8	1.0	1.1	1.1	18.9
100°	252.2	208.1	131.8	53.2	24.4	23.0	16.2	1.0	1.1	1.1	15.8
101°	247.1	195.6	114.4	49.9	24.3	21.7	12.9	1.0	1.1	1.1	12.8
102°	224.7	181.3	102.6	45.0	23.1	21.3	11.2	1.1	1.2	1.1	9.8
103°	213.9	166.6	94.9	42.1	20.2	21.2	12.6	1.1	1.2	1.2	8.3
104°	200.9	150.7	89.3	41.5	18.1	21.1	15.1	1.1	1.2	1.2	7.8
105°	177.5	139.3	85.6	44.4	18.1	19.8	16.4	1.2	1.2	1.2	8.9
106°	163.0	129.5	84.0	48.6	20.3	20.1	17.2	1.2	1.3	1.3	10.0
107°	153.5	117.0	79.4	54.6	21.5	21.9	17.2	1.2	1.3	1.3	10.4
108°	136.0	109.9	73.7	59.4	23.6	24.4	16.8	1.3	1.3	1.3	10.0
109°	123.1	105.2	70.2	64.0	26.7	25.9	16.8	1.3	1.3	1.4	10.0
110°	123.5	98.0	63.1	64.2	29.9	25.5	16.9	1.3	1.4	1.4	10.2
111°	115.3	92.1	56.7	63.4	31.6	24.8	17.0	1.4	1.4	1.4	10.3
112°	106.8	87.4	50.2	62.8	31.5	24.3	17.0	1.4	1.4	1.5	10.4
113°	102.7	81.6	43.7	62.3	31.2	23.6	16.8	1.5	1.5	1.6	10.3
114°	97.0	78.9	41.2	61.5	30.9	23.1	16.3	1.5	1.6	1.6	9.9
115°	92.4	74.4	40.2	60.2	30.5	22.5	15.6	1.6	1.6	1.7	9.2
116°	91.9	68.4	40.7	58.9	30.1	21.8	14.8	1.7	1.7	1.7	8.7
117°	86.5	64.1	43.6	57.5	29.6	21.4	14.0	1.7	1.7	1.8	8.2
118°	80.6	60.7	47.6	56.3	29.0	20.9	13.3	1.7	1.8	1.8	7.8
119°	75.8	57.2	52.0	55.2	28.4	20.9	12.4	1.8	1.9	1.8	7.4
120°	70.3	53.8	56.0	54.0	28.0	21.1	11.5	1.8	1.9	1.9	7.1
121°	66.7	53.8	59.7	53.1	27.8	21.5	10.6	1.9	2.0	1.9	6.7
122°	66.4	52.8	62.4	52.3	27.9	21.6	9.9	1.9	2.0	1.9	6.4
123°	67.4	51.5	64.2	51.6	28.2	21.6	9.1	1.9	2.1	2.0	6.1
124°	69.4	52.8	65.8	50.7	28.7	21.5	8.5	1.9	2.1	2.0	5.8
125°	66.9	54.2	66.7	49.7	29.2	21.7	7.9	1.9	2.1	2.0	5.5
126°	66.3	58.4	65.4	48.8	29.5	22.2	7.5	1.9	2.1	2.0	5.3
127°	66.6	62.5	64.2	47.8	30.0	22.7	7.0	1.9	2.1	2.0	5.0
128°	70.2	67.3	63.2	47.0	30.7	23.1	6.6	1.9	2.1	2.0	4.8
129°	75.9	71.7	62.1	46.3	29.3	22.9	6.2	1.9	2.1	2.0	4.6
130°	83.3	75.6	61.0	45.7	24.3	20.3	5.8	1.9	2.1	1.9	4.5
131°	93.4	77.0	60.0	45.1	20.7	17.4	5.4	1.9	2.1	1.9	4.4
132°	100.6	78.1	59.6	44.3	17.9	15.5	5.1	1.9	2.1	1.9	4.2
133°	105.9	78.3	59.2	43.5	16.7	13.1	4.8	1.9	2.0	1.9	4.1
134°	104.5	76.1	59.3	42.7	19.6	10.7	4.5	1.9	2.0	1.9	3.9



REPORT NUMBER: PSZ2F161101002-10

CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	103.2	74.0	60.4	41.9	23.8	8.2	4.2	1.9	2.0	1.9	3.8
136°	100.7	71.8	62.9	41.0	23.2	6.0	4.0	1.9	2.0	1.9	3.7
137°	97.9	69.5	66.3	40.2	22.4	9.4	3.8	2.0	2.0	2.0	3.5
138°	94.6	67.6	69.1	39.3	21.3	16.5	3.5	2.0	2.0	2.1	3.3
139°	89.6	66.4	68.8	37.7	19.8	24.8	3.2	2.0	2.1	2.2	3.0
140°	83.9	66.7	64.6	35.6	18.4	28.1	3.0	2.0	2.1	2.2	2.8
141°	79.5	68.4	58.5	33.3	16.7	25.9	2.7	2.1	2.2	2.2	2.5
142°	75.9	70.9	52.9	30.8	15.3	21.8	2.5	2.1	2.2	2.3	2.3
143°	75.2	72.4	48.7	28.0	13.8	17.7	2.2	2.1	2.3	2.3	2.2
144°	78.9	72.3	45.7	26.1	12.6	13.5	2.1	2.1	2.3	2.3	2.1
145°	87.3	72.1	43.2	24.3	11.4	9.5	1.9	2.0	2.3	2.3	2.2
146°	95.2	69.7	40.4	22.4	10.1	7.8	1.7	2.0	2.3	2.3	2.2
147°	91.0	64.2	37.9	20.5	9.1	6.6	1.7	2.1	2.3	2.3	2.3
148°	76.5	57.6	35.4	18.5	8.2	5.6	1.7	2.1	2.3	2.3	2.3
149°	63.2	51.7	33.4	16.8	7.1	4.3	1.7	2.0	2.3	2.3	2.3
150°	54.7	47.8	31.7	15.2	5.6	1.9	1.7	2.0	2.3	2.3	2.3
151°	51.0	45.0	30.4	14.6	2.5	1.3	1.7	2.0	2.3	2.3	2.3
152°	47.3	42.9	29.4	12.1	1.3	1.4	1.7	2.0	2.3	2.3	2.3
153°	43.7	40.9	28.4	8.6	1.8	2.0	1.7	2.0	2.3	2.4	2.2
154°	41.5	39.3	27.3	6.7	2.6	1.8	1.7	2.0	2.3	2.4	2.2
155°	39.8	37.6	26.2	4.9	2.1	1.5	1.6	2.0	2.3	2.4	2.2
156°	38.0	35.9	25.0	3.0	1.6	1.4	1.6	1.9	2.3	2.4	2.2
157°	36.2	34.1	23.9	3.0	1.4	1.4	1.6	1.9	2.2	2.4	2.2
158°	34.3	32.3	22.7	3.0	1.4	1.4	1.6	1.9	2.2	2.3	2.2
159°	32.3	30.3	21.5	3.1	1.4	1.4	1.6	1.9	2.1	2.3	2.1
160°	30.2	28.4	20.3	3.1	1.4	1.4	1.6	1.8	2.1	2.2	2.1
161°	28.1	26.5	19.2	3.7	1.4	1.4	1.5	1.8	2.1	2.1	2.0
162°	26.1	24.7	18.2	5.3	1.4	1.4	1.5	1.8	2.0	2.1	1.9
163°	24.1	22.9	17.1	6.3	1.4	1.4	1.5	1.8	1.9	2.0	1.9
164°	22.3	21.2	12.5	6.1	1.4	1.4	1.5	1.8	1.9	1.9	1.9
165°	20.5	19.5	6.9	5.6	1.5	1.4	1.6	1.7	1.9	1.9	1.9
166°	18.9	18.0	5.0	5.1	1.5	1.5	1.6	1.7	1.8	1.9	1.8
167°	17.3	15.6	3.2	4.7	1.5	1.5	1.6	1.7	1.8	1.8	1.8
168°	14.6	8.8	3.1	4.3	1.6	1.5	1.6	1.7	1.8	1.8	1.7
169°	7.2	6.8	3.2	3.8	1.6	1.6	1.6	1.7	1.7	1.8	1.7
170°	5.1	4.9	5.1	3.5	1.6	1.6	1.6	1.7	1.7	1.8	1.7
171°	3.0	3.0	5.8	3.1	1.6	1.6	1.6	1.7	1.7	1.8	1.7
172°	3.2	4.5	5.0	2.8	1.6	1.6	1.6	1.6	1.7	1.8	1.8
173°	6.0	5.6	4.2	2.6	1.6	1.6	1.6	1.6	1.7	1.8	1.8
174°	5.1	4.6	3.5	2.6	1.6	1.6	1.6	1.6	1.7	1.9	1.9
175°	4.0	3.6	2.8	2.6	1.7	1.7	1.7	1.7	1.8	1.9	1.9
176°	2.9	2.8	2.6	2.5	1.7	1.7	1.8	1.8	1.9	1.9	2.0
177°	2.5	2.5	2.5	2.4	1.8	1.8	1.9	1.9	2.0	2.0	2.0
178°	2.4	2.4	2.4	2.3	1.9	1.9	2.0	2.1	2.0	2.1	2.1
179°	2.3	2.3	2.2	2.2	2.0	1.9	2.1	2.2	2.2	2.1	2.2



REPORT NUMBER: PSZ2F161101002-10

CATALOG NUMBER:

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1

REPORT NUMBER: PSZ2F161101002-10
 CATALOG NUMBER:

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	247.5°	270°	292.5°	315°	337.5°	360°	
0°	3209.6	3209.6	3209.6	3209.6	3209.6	3209.6	45°
1°	3207.3	3208.4	3206.5	3220.7	3252.1	3244.2	46°
2°	3142.7	3229.9	3183.7	3194.8	3253.8	3282.4	47°
3°	3142.9	3128.9	3071.3	3115.2	2986.7	3051.1	48°
4°	3067.7	3133.5	2994.5	2819.2	2882.1	3071.4	49°
5°	3148.1	3180.6	3048.5	2673.1	2977.7	3092.3	50°
6°	3159.2	3196.9	2961.5	2797.5	3003.5	3113.8	51°
7°	3266.9	3199.1	2907.6	2890.8	3015.4	3191.5	52°
8°	3429.5	3030.3	2776.2	2909.9	3074.6	3246.2	53°
9°	3389.6	3073.9	2663.7	3032.8	3092.1	3343.7	54°
10°	3358.7	3114.8	2731.8	3166.0	3280.2	3458.5	55°
11°	3222.5	3198.4	2807.4	3161.1	3390.8	3408.1	56°
12°	3030.6	3160.2	2943.0	3150.8	3328.1	3849.0	57°
13°	2824.3	3119.5	2983.2	3253.5	3639.8	3822.5	58°
14°	2575.2	3213.1	2953.3	3313.1	3705.5	3479.4	59°
15°	2295.8	3277.6	3067.0	3249.6	3537.4	2658.8	60°
16°	2090.6	3317.5	3065.2	3348.2	3013.6	1938.8	61°
17°	1841.9	3467.1	3100.2	3598.7	2185.4	1722.8	62°
18°	1708.2	3637.4	3167.6	3681.8	1822.3	1721.5	63°
19°	1681.6	4035.7	3335.4	3512.0	1729.6	1817.7	64°
20°	1675.4	3881.6	3625.1	3148.6	1724.4	1950.6	65°
21°	1676.5	3262.2	3761.5	2680.2	1771.6	2048.0	66°
22°	1592.5	2511.7	3430.9	2214.4	1875.0	2130.2	67°
23°	1369.8	2127.0	2888.8	1964.4	2000.1	2274.6	68°
24°	1147.2	2137.0	2524.1	1864.1	2124.3	2469.3	69°
25°	926.5	2250.4	2329.8	1855.1	2227.7	2761.0	70°
26°	810.7	2351.6	2323.1	1903.4	2360.5	3183.4	71°
27°	760.5	2404.5	2378.9	1942.3	2561.6	3445.3	72°
28°	746.1	2459.2	2369.6	1958.1	2917.3	3573.4	73°
29°	740.1	2445.6	2369.3	1928.8	3187.4	3580.0	74°
30°	726.1	2378.8	2390.6	1866.8	3341.7	3621.7	75°
31°	713.5	2316.0	2472.3	1858.5	3387.4	3592.1	76°
32°	692.7	2391.4	2542.1	1896.7	3463.2	3670.6	77°
33°	662.5	2508.3	2691.6	1951.7	3528.5	3742.8	78°
34°	630.2	2546.7	2707.7	2048.1	3585.3	3734.9	79°
35°	610.1	2493.6	2653.9	2181.7	3604.8	3612.2	80°
36°	605.2	2494.4	2723.7	2323.4	3593.2	3593.5	81°
37°	608.5	2492.8	2884.3	2456.0	3602.4	3730.2	82°
38°	608.4	2512.0	2999.2	2555.7	3654.7	4008.7	83°
39°	597.9	2545.1	2954.6	2633.2	3723.9	4343.0	84°
40°	588.5	2599.6	2887.8	2665.3	3829.3	4480.0	85°
41°	568.0	2663.1	2746.3	2665.5	4045.7	4099.9	86°
42°	543.8	2628.9	2565.1	2654.7	4269.5	3637.9	87°
43°	521.8	2658.3	2417.0	2637.8	4235.3	3527.6	88°
44°	503.3	2592.6	2255.6	2643.2	3956.7	3594.1	89°

NUMBER: PSZ2F161101002-10
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REPORT NUMBER: F
 CATALOG NUMBER:

DISTRIBUTION (continued):

247.5°	270°	292.5°	315°	337.5°	360°
486.0	2384.4	2154.7	2652.1	3663.8	3490.9
472.0	2256.1	2128.6	2654.6	3454.4	3228.7
452.7	2211.8	2136.8	2653.4	3269.3	3085.0
429.7	2289.2	2095.3	2689.5	3100.8	3075.2
414.3	2259.1	2043.9	2755.9	2890.3	3071.3
402.5	2138.5	2014.9	2758.5	2769.3	3030.3
382.2	2033.0	1994.7	2746.2	2714.9	3107.2
360.7	1893.4	1966.9	2726.3	2689.6	3109.5
342.6	1768.5	1924.2	2589.6	2672.5	2769.8
328.3	1887.4	1892.0	2483.1	2630.9	2551.3
311.6	1876.4	1914.4	2392.7	2535.3	2500.9
304.2	1853.1	1901.3	2296.6	2391.3	2473.5
298.1	1977.5	1850.7	2183.0	2282.8	2537.1
288.8	1902.6	1847.5	2091.9	2222.3	2508.6
275.0	1796.4	1867.0	2011.6	2218.1	2509.1
256.8	1757.2	1842.0	1912.5	2226.1	2626.0
240.6	1712.0	1767.5	1819.1	2251.2	2586.6
224.7	1615.2	1679.4	1776.6	2288.3	2676.3
213.1	1533.5	1632.6	1692.1	2314.2	2745.4
205.3	1466.2	1570.8	1573.1	2362.6	2660.3
196.1	1375.8	1500.7	1479.3	2384.8	2703.4
182.5	1283.0	1412.3	1426.2	2415.1	2721.4
169.9	1266.1	1321.9	1381.7	2437.9	2584.9
162.1	1248.4	1256.5	1360.8	2403.5	2507.1
155.2	1132.0	1232.9	1352.0	2348.0	2345.8
143.6	986.3	1190.2	1341.0	2246.9	2120.4
132.1	883.8	1096.4	1330.4	2094.6	1986.9
120.6	848.3	1025.6	1306.7	1924.6	1812.4
112.1	785.0	962.9	1282.3	1722.4	1600.7
104.5	704.4	901.7	1242.4	1517.7	1467.9
96.4	592.3	840.1	1165.3	1337.1	1295.8
88.6	514.6	739.9	1074.6	1166.9	1145.6
81.2	437.8	632.1	978.9	1034.7	1048.2
73.7	361.1	546.4	880.5	937.4	973.2
67.6	309.4	460.9	777.0	844.7	894.9
62.3	258.6	375.4	677.9	763.9	822.5
58.4	199.7	317.2	599.4	700.3	758.2
54.9	153.6	264.1	546.1	644.8	695.9
53.5	128.3	211.7	493.5	592.0	640.1
51.2	102.1	174.8	440.9	553.2	588.9
48.6	86.8	147.7	402.1	514.8	547.5
47.0	71.2	130.9	367.5	485.3	506.1
45.6	60.1	117.8	338.4	453.3	466.4
43.4	54.1	107.0	313.2	422.8	430.1
40.3	48.1	99.2	291.6	391.6	391.9

CANDELA DISTRIBUTION:

	247.5°
90°	37.9
91°	35.2
92°	35.3
93°	36.9
94°	36.8
95°	35.9
96°	36.1
97°	34.4
98°	31.1
99°	27.4
100°	23.9
101°	20.9
102°	18.9
103°	17.2
104°	16.4
105°	15.8
106°	14.1
107°	13.1
108°	13.8
109°	15.4
110°	16.9
111°	17.0
112°	16.6
113°	16.4
114°	16.1
115°	16.0
116°	15.7
117°	15.4
118°	15.0
119°	14.6
120°	14.2
121°	13.9
122°	13.8
123°	13.7
124°	13.6
125°	13.6
126°	13.8
127°	14.3
128°	14.9
129°	15.2
130°	14.7
131°	12.7
132°	10.8
133°	8.9
134°	7.9

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REPORT NUMBER: PSZ2F1611

CATALOG NUMBER:

TION (continued):

270°	292.5°	315°	337.5°	360°
42.0	93.0	274.1	367.7	357.1
38.9	88.2	258.5	341.6	341.4
36.8	84.4	243.5	319.6	322.8
35.7	82.1	228.8	296.5	321.6
35.0	80.0	215.9	277.8	307.5
34.6	75.8	204.0	257.8	301.8
33.4	66.5	192.7	244.8	285.1
31.5	58.5	183.2	233.1	277.4
29.9	52.7	169.9	226.1	264.8
28.3	47.1	157.2	215.2	262.1
27.4	47.3	126.3	200.4	252.2
27.6	46.5	109.4	186.3	247.1
27.4	44.0	98.7	172.9	224.7
26.6	40.4	90.5	158.0	213.9
25.1	39.2	83.9	144.2	200.9
24.8	41.0	79.8	133.6	177.5
24.8	43.8	75.5	124.1	163.0
24.2	47.1	73.5	112.8	153.5
24.9	51.4	68.2	106.4	136.0
27.0	57.0	62.8	101.8	123.1
29.9	59.4	56.8	95.5	123.5
32.6	59.5	50.9	90.0	115.3
33.6	58.7	44.9	84.8	106.8
32.9	57.8	40.8	79.7	102.7
32.3	56.9	38.7	75.9	97.0
31.7	56.0	38.5	71.5	92.4
31.0	54.7	39.5	65.4	91.9
30.1	53.4	41.8	60.7	86.5
29.3	52.2	46.6	57.7	80.6
28.6	50.9	51.4	54.7	75.8
28.1	49.8	55.4	51.7	70.3
27.8	49.0	58.4	52.2	66.7
27.5	48.5	60.7	52.4	66.4
27.3	47.9	62.2	51.6	67.4
27.2	47.4	63.0	53.0	69.4
26.9	47.0	63.8	54.6	66.9
26.6	46.5	63.1	58.5	66.3
26.4	45.9	62.1	63.2	66.6
26.1	45.4	60.9	67.4	70.2
25.8	45.1	60.0	72.1	75.9
24.2	45.1	59.2	74.5	83.3
20.3	45.0	59.1	74.9	93.4
17.2	44.9	59.3	75.8	100.6
15.0	44.5	59.7	75.4	105.9
13.9	44.0	60.3	73.3	104.5

CANDELA DISTRIBUTION (con

	247.5°	270°
135°	7.1	15.0
136°	7.3	18.2
137°	7.6	18.4
138°	7.8	17.5
139°	10.3	16.6
140°	13.2	15.6
141°	15.9	14.6
142°	16.4	13.5
143°	14.4	12.6
144°	12.3	11.7
145°	10.2	10.9
146°	8.6	10.3
147°	7.2	9.6
148°	6.0	8.8
149°	2.8	7.9
150°	2.2	6.9
151°	2.2	5.3
152°	2.2	3.8
153°	2.2	2.2
154°	2.2	2.3
155°	2.2	2.8
156°	2.2	2.7
157°	2.2	2.4
158°	2.2	2.4
159°	2.2	2.4
160°	2.1	2.5
161°	2.1	2.5
162°	2.0	2.5
163°	2.0	2.5
164°	2.0	2.5
165°	2.0	2.4
166°	1.9	2.4
167°	1.9	2.4
168°	1.9	2.4
169°	1.9	2.3
170°	1.9	2.3
171°	1.9	2.3
172°	1.8	2.3
173°	1.8	2.3
174°	1.8	2.3
175°	1.9	2.2
176°	2.0	2.2
177°	2.0	2.1
178°	2.1	2.1
179°	2.2	2.1



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REPORT NUMBER: PSZ2F161101002-10

CATALOG NUMBER:

tinued):

292.5°	315°	337.5°	360°
43.2	60.9	70.7	103.2
42.0	61.2	68.5	100.7
40.6	60.9	66.0	97.9
38.7	58.7	64.2	94.6
36.4	55.1	62.9	89.6
33.9	50.9	62.5	83.9
30.7	47.2	63.1	79.5
27.8	44.5	64.3	75.9
25.3	42.4	65.7	75.2
22.8	40.4	66.9	78.9
20.4	38.4	65.6	87.3
18.1	36.3	60.9	95.2
16.3	34.2	55.4	91.0
14.9	32.0	50.8	76.5
13.1	30.0	46.8	63.2
10.2	28.2	43.8	54.7
6.9	26.6	41.6	51.0
5.3	25.3	39.8	47.3
3.7	24.1	38.2	43.7
3.8	23.2	36.8	41.5
3.3	22.3	35.3	39.8
2.9	21.3	33.9	38.0
2.7	20.3	32.2	36.2
2.7	19.3	30.5	34.3
2.9	18.3	28.6	32.3
3.7	17.3	26.8	30.2
4.7	16.4	25.0	28.1
4.8	15.5	23.2	26.1
4.6	13.8	21.4	24.1
4.3	8.2	19.7	22.3
4.0	6.4	18.2	20.5
3.7	4.7	16.7	18.9
3.4	3.0	14.1	17.3
3.0	2.9	7.2	14.6
2.7	4.4	5.1	7.2
2.6	5.9	3.1	5.1
2.5	5.2	3.1	3.0
2.5	4.4	5.9	3.2
2.4	3.7	5.7	6.0
2.4	2.9	4.5	5.1
2.3	2.5	3.5	4.0
2.3	2.4	2.6	2.9
2.2	2.3	2.4	2.5
2.2	2.3	2.4	2.4
2.2	2.3	2.3	2.3

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°
180°	2.1	2.1	2.1



315°	337.5°	360°
2.1	2.1	2.1

(END OF REPORT)