

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
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 7108.1 (1 lamp)
Luminaire Lumens: 7103.7 lumens
Efficiency: 99.9%
Efficacy: 110.5 lumens/watt
Luminous Opening: Point Source (0m x 0m x 0m)
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U3 - G2

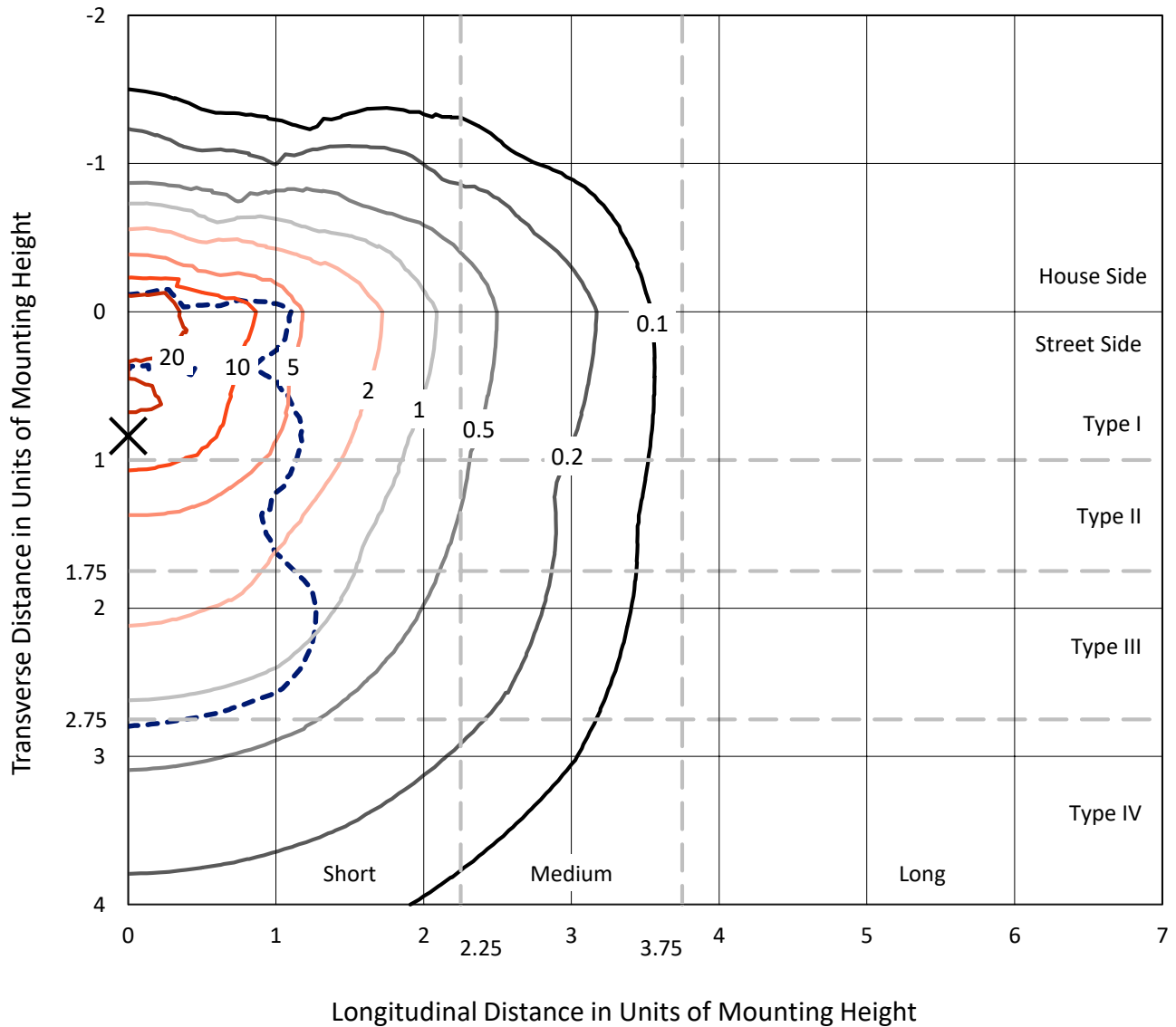
Input Watts (W): 64.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

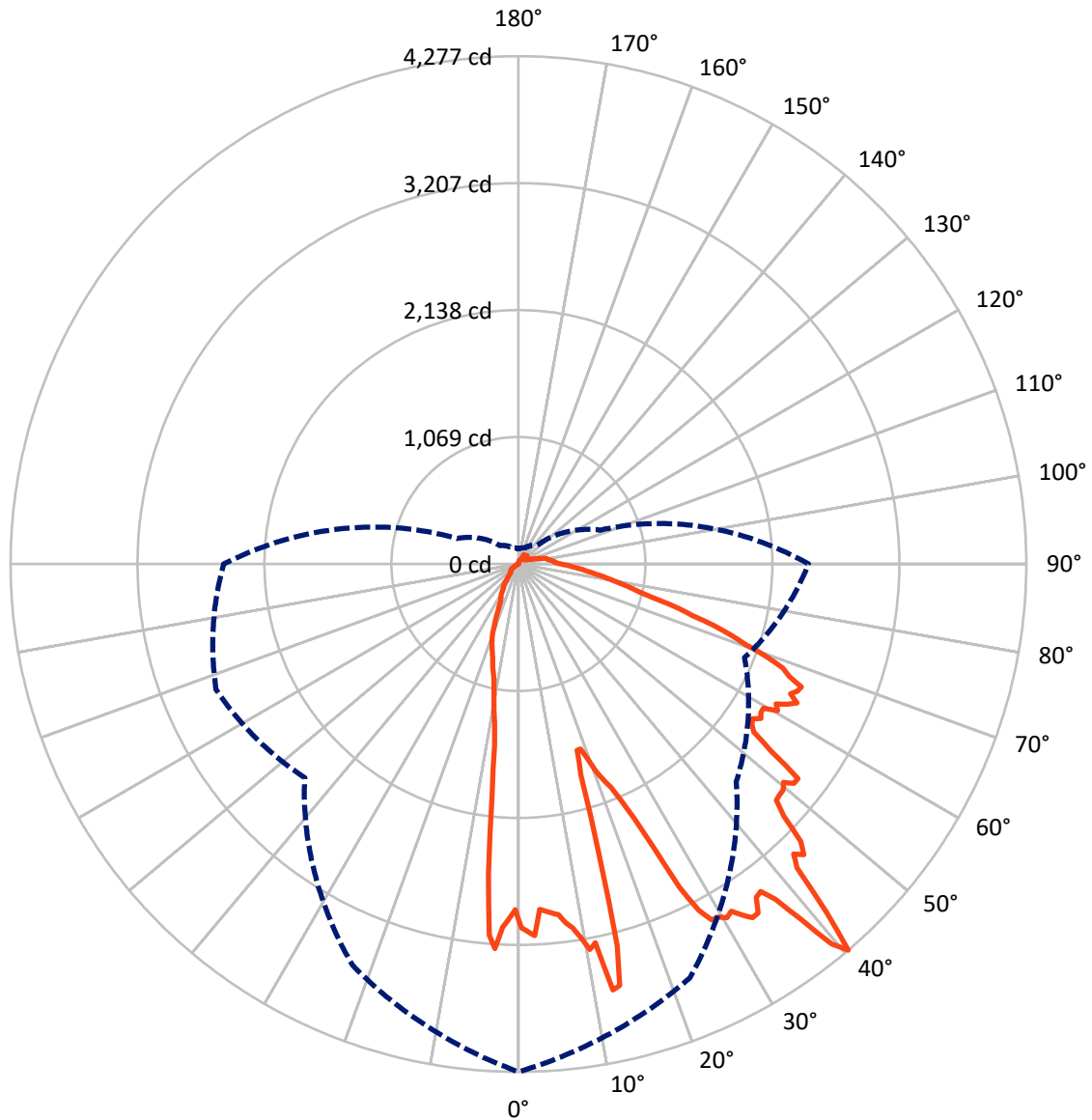


Based on 10 foot mounting height. Maximum calculated value = 30.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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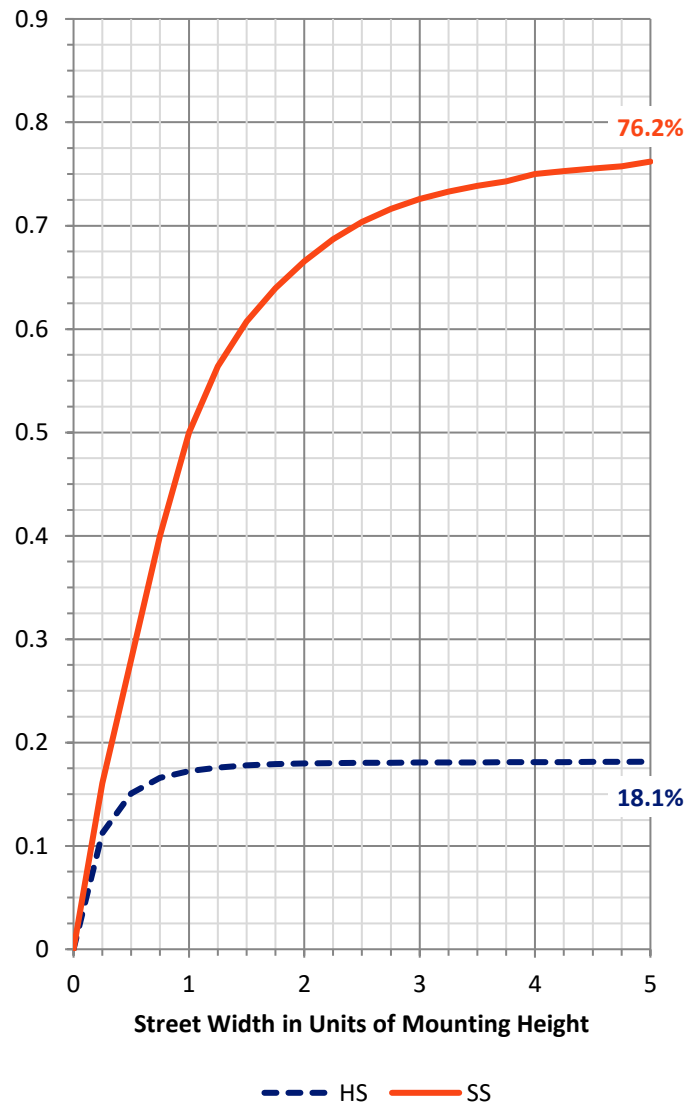
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1304.2	30.6	1334.9
	% Lamp	18.3	0.4	18.8
Street Side	Lumens	5534.3	234.5	5768.8
	% Lamp	77.9	3.3	81.2
Total	Lumens	6838.6	265.1	7103.7
	% Lamp	96.2	3.7	99.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	265.5	3.7	3.7
10°-20°	642.5	9.0	9.0
20°-30°	750.2	10.6	10.6
30°-40°	1069.9	15.1	15.1
40°-50°	1239.2	17.4	17.4
50°-60°	1117.6	15.7	15.7
60°-70°	979.3	13.8	13.8
70°-80°	569.4	8.0	8.0
80°-90°	204.8	2.9	2.9
90°-100°	103.0	1.4	1.4
100°-110°	53.9	0.8	0.8
110°-120°	34.2	0.5	0.5
120°-130°	27.8	0.4	0.4
130°-140°	24.1	0.3	0.3
140°-150°	14.8	0.2	0.2
150°-160°	5.4	0.1	0.1
160°-170°	1.8	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	6838.6	96.3	96.2
0°-180°	7103.7	100.0	99.9

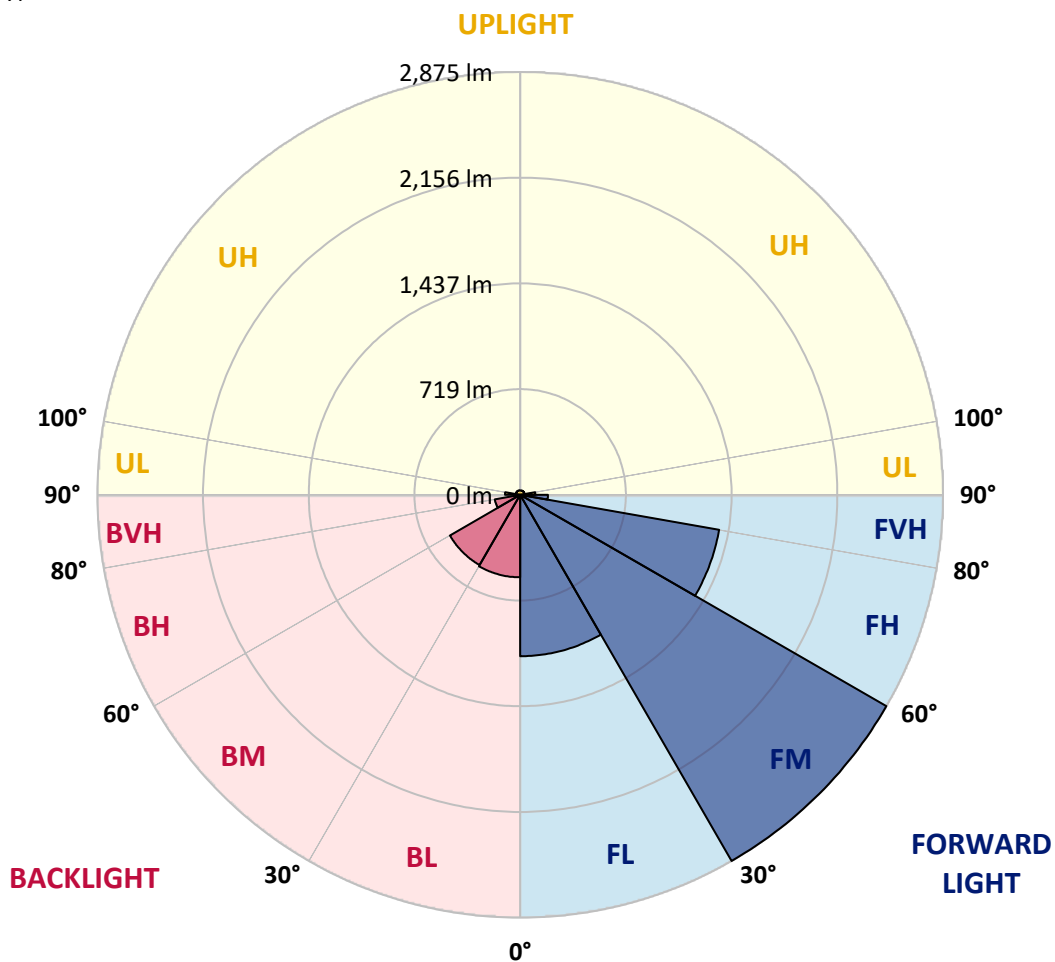


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.4	15.4			
FM (30°-60°)	2874.9	40.4			
FH (60°-80°)	1373.4	19.3			G1/1800
FVH (80°-90°)	188.6	2.7			G2/225
BL (0°-30°)	560.8	7.9	B2/1000		
BM (30°-60°)	551.9	7.8	B1/1000		
BH (60°-80°)	175.3	2.5	B1/500		G1/500
BVH (80°-90°)	16.2	0.2			G1/100
UL (90°-100°)	103.0	1.4		U3/500	
UH (100°-180°)	30.6	0.4		U2/50	
Trapped Light	4.4	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°	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8
1°	3096.9	3041.0	2978.3	2964.3	2930.8	2906.2	2885.7	2893.2	2912.1	2955.0	3003.4
2°	3133.4	3056.6	2994.1	2965.8	2903.6	2838.8	2802.1	2903.5	2986.7	3005.1	2970.8
3°	2912.6	2867.3	3033.2	2985.4	2936.8	2852.8	3020.7	3060.4	3060.8	3050.5	3049.1
4°	2931.9	2807.0	2905.2	3012.5	2931.7	2891.6	3155.0	3279.8	3244.5	3131.2	3026.2
5°	2951.9	2853.6	2833.9	3020.0	2898.4	2876.9	3180.5	3450.5	3135.2	3135.6	3101.3
6°	2972.4	2861.7	2843.4	2950.4	2845.4	2842.8	3204.1	3066.3	2634.0	2816.6	3162.3
7°	3046.6	2895.8	2828.5	2870.8	2872.0	2957.8	2968.4	2492.5	1961.1	2300.8	2962.3
8°	3098.8	2944.5	2775.8	2822.9	2889.6	3097.6	2719.5	1839.4	1539.4	1737.9	2587.9
9°	3191.9	2999.1	2809.3	2748.6	2899.0	3204.7	2399.4	1472.2	1350.9	1460.5	2074.4
10°	3301.5	3164.4	2887.1	2714.0	2912.3	3185.5	2009.8	1336.0	1243.7	1333.6	1700.4
11°	3253.3	3229.8	2967.1	2724.5	2948.4	3148.4	1656.8	1199.7	1136.5	1206.6	1509.7
12°	3674.2	3233.0	2964.6	2757.9	2970.7	3081.2	1428.5	1064.4	1030.1	1080.7	1367.6
13°	3649.0	3530.8	3027.5	2792.1	3054.8	2916.2	1307.4	976.3	963.0	1009.3	1257.2
14°	3321.4	3474.7	3065.8	2818.8	3106.8	2835.9	1186.4	908.4	915.0	952.8	1146.8
15°	2538.0	3247.8	3048.0	2902.6	3201.1	2623.8	1065.5	863.6	864.7	902.9	1038.0
16°	1850.8	2677.5	3211.9	3066.1	3566.9	2481.8	984.1	827.0	813.8	845.8	978.0
17°	1644.6	2045.0	3378.5	3386.9	4003.9	2427.7	934.2	784.8	774.4	792.7	934.7
18°	1643.3	1736.5	3322.2	3714.3	3841.7	2352.5	909.2	760.7	737.0	756.9	904.6
19°	1735.2	1682.0	3111.0	3718.7	3037.0	2043.3	902.0	737.9	704.2	739.0	870.1
20°	1862.0	1737.2	2772.8	3320.3	2321.9	1596.2	911.3	712.4	661.5	722.4	832.8
21°	1955.0	1812.6	2392.2	2819.1	2060.8	1404.8	932.6	677.7	618.2	678.4	811.7
22°	2033.4	1866.3	2087.8	2512.4	2037.5	1213.4	904.2	632.6	549.9	621.8	802.7
23°	2171.3	1922.2	1902.8	2380.1	2135.0	1022.1	848.6	580.9	489.5	553.2	787.0
24°	2357.1	2003.6	1849.4	2343.9	2228.2	994.0	770.1	522.3	430.8	490.4	780.3
25°	2635.6	2114.8	1867.6	2438.4	2299.7	982.0	696.3	467.3	388.5	440.6	780.1
26°	3038.9	2274.5	1873.3	2596.1	2284.1	971.4	622.5	418.0	353.0	399.0	765.2
27°	3288.8	2566.5	1831.5	2718.1	2262.2	964.7	554.2	379.7	328.3	367.3	717.9
28°	3411.2	2865.6	1798.0	2821.1	2257.1	938.8	499.7	351.5	321.8	338.6	665.2
29°	3417.4	3073.0	1800.6	2734.4	2293.1	903.8	457.6	327.9	305.1	322.4	609.9
30°	3457.3	3263.7	1801.3	2710.9	2298.8	861.6	422.0	309.6	293.4	311.8	545.0
31°	3429.0	3323.9	1824.5	2531.3	2292.4	831.5	392.3	297.3	267.3	298.6	478.1
32°	3504.0	3394.6	1899.4	2417.0	2224.0	827.3	365.7	281.0	240.5	283.5	419.0
33°	3572.8	3410.7	1992.0	2339.4	2217.5	823.0	342.0	264.4	239.6	259.2	369.8
34°	3565.3	3465.5	2105.9	2360.3	2301.2	811.7	320.5	246.7	229.9	239.8	325.4
35°	3448.1	3495.6	2228.0	2327.0	2387.8	793.1	302.2	230.8	216.5	232.3	291.9
36°	3430.3	3527.6	2326.9	2238.4	2404.1	783.2	286.8	219.4	197.4	221.7	271.0
37°	3560.8	3549.2	2408.1	2152.8	2414.8	769.1	270.4	202.6	173.3	203.0	253.6
38°	3826.7	3589.6	2484.5	2106.2	2472.6	760.9	254.5	185.3	155.5	181.1	241.7
39°	4145.8	3646.0	2572.3	2073.6	2554.6	758.0	238.7	165.4	141.8	164.1	232.3
40°	4276.6	3771.6	2594.1	2060.0	2442.8	746.1	224.9	148.2	128.1	149.5	219.7
41°	3913.8	4065.7	2568.2	2042.2	2321.4	734.6	211.4	133.6	114.5	134.6	207.9
42°	3472.7	4234.3	2542.4	2012.1	2225.9	721.1	198.3	119.0	103.5	119.7	199.1
43°	3367.4	4064.2	2541.8	1968.5	2140.1	691.1	187.6	108.7	96.9	109.8	188.4
44°	3430.9	3718.5	2564.4	1921.2	2175.6	654.4	178.2	99.4	94.4	101.5	176.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	3332.4	3447.7	2582.0	1886.8	2202.3	637.2	168.0	91.7	94.0	94.3	161.6
46°	3082.1	3281.5	2571.6	1856.5	2216.8	625.9	155.5	85.5	93.6	88.2	146.9
47°	2944.9	3081.3	2618.4	1851.6	2134.8	603.2	146.3	80.0	91.8	85.2	136.3
48°	2935.6	2877.4	2722.0	1859.9	1973.3	578.0	138.7	75.4	87.4	83.5	125.7
49°	2931.8	2737.0	2763.7	1849.7	1867.8	558.4	132.4	72.4	85.2	80.8	115.2
50°	2892.7	2661.1	2715.0	1822.6	1850.8	547.0	126.0	69.7	82.1	77.9	107.2
51°	2966.2	2651.0	2620.6	1764.0	1744.9	528.3	119.7	67.2	80.1	75.6	100.2
52°	2968.3	2657.7	2512.6	1715.4	1662.4	509.1	114.1	65.0	76.1	73.9	95.3
53°	2644.0	2619.2	2398.6	1758.2	1616.6	504.6	109.3	62.6	72.1	71.4	90.4
54°	2435.4	2544.5	2305.2	1740.2	1663.2	494.4	105.1	59.7	68.9	68.4	85.1
55°	2387.3	2400.8	2207.0	1690.3	1804.0	475.0	100.6	55.8	65.6	64.2	80.5
56°	2361.2	2241.4	2099.5	1666.6	1753.8	460.3	95.3	51.6	60.7	60.0	76.5
57°	2421.9	2162.8	1988.4	1738.2	1651.4	470.2	90.7	47.0	54.4	56.5	72.8
58°	2394.7	2106.7	1893.5	1712.9	1619.9	468.7	87.0	41.9	49.2	50.9	69.3
59°	2395.2	2109.3	1822.2	1574.2	1568.9	438.3	83.7	36.2	41.7	44.9	66.1
60°	2506.8	2134.1	1791.2	1534.1	1569.8	426.5	80.6	31.6	33.9	39.8	61.8
61°	2469.1	2188.9	1701.0	1434.6	1528.2	408.3	77.0	26.9	28.5	33.2	58.2
62°	2554.8	2242.2	1571.9	1430.8	1373.7	389.9	72.7	21.2	24.6	25.9	55.2
63°	2620.7	2314.6	1532.5	1386.9	1320.4	379.4	68.3	17.5	17.2	21.5	52.6
64°	2539.5	2371.8	1501.6	1246.0	1259.5	378.3	64.8	12.9	9.9	15.9	50.0
65°	2580.6	2444.1	1478.9	1126.7	1198.6	374.0	60.9	8.3	2.7	10.3	47.0
66°	2597.8	2476.4	1475.1	1048.5	1138.0	338.9	56.6	3.8	0.6	4.7	44.1
67°	2467.5	2409.8	1462.1	998.8	1135.2	301.7	53.2	0.7	0.3	0.7	40.6
68°	2393.2	2304.3	1436.1	996.0	994.6	291.6	49.7	0.4	0.3	0.3	37.4
69°	2239.3	2175.7	1414.0	932.5	847.4	311.1	46.2	0.4	0.3	0.4	34.6
70°	2024.2	1988.6	1365.1	800.8	759.5	280.2	42.8	0.4	0.3	0.4	32.4
71°	1896.7	1807.3	1297.9	740.0	790.4	240.0	39.9	0.4	0.3	0.4	30.5
72°	1730.1	1635.0	1253.2	704.8	778.1	216.3	38.2	0.4	0.3	0.4	29.4
73°	1528.0	1461.3	1209.8	678.6	685.0	206.6	37.2	0.4	0.3	0.4	28.6
74°	1401.2	1327.6	1120.6	624.5	523.6	198.0	36.4	0.4	0.3	0.4	28.1
75°	1236.9	1205.9	1032.8	573.0	414.4	162.4	35.3	0.4	0.4	0.4	27.8
76°	1093.5	1078.7	928.6	511.8	338.8	126.9	33.9	0.4	0.4	0.5	27.6
77°	1000.6	982.1	831.6	450.5	260.5	91.9	32.8	0.5	0.4	0.5	27.6
78°	929.0	898.6	742.1	398.1	212.4	79.8	32.0	0.5	0.4	0.5	28.0
79°	854.3	818.8	660.8	328.4	175.4	72.0	31.7	0.5	0.4	0.5	27.8
80°	785.2	741.0	604.9	265.4	148.3	66.4	31.6	0.5	0.4	0.6	27.7
81°	723.7	676.2	555.8	215.2	121.2	61.2	32.3	0.5	0.5	0.6	27.8
82°	664.3	614.5	506.8	181.4	94.5	58.1	33.2	0.5	0.5	0.6	28.0
83°	611.0	577.2	457.8	160.7	77.7	54.5	33.7	0.6	0.5	0.6	28.2
84°	562.1	534.2	422.6	144.7	68.1	52.2	33.2	0.6	0.6	0.6	28.7
85°	522.6	491.0	391.7	136.1	60.0	49.7	31.9	0.6	0.6	0.7	28.8
86°	483.1	454.4	365.5	125.3	55.0	47.1	30.0	0.6	0.6	0.7	27.8
87°	445.2	417.2	341.6	118.1	41.8	43.9	27.7	0.6	0.6	0.7	25.5
88°	410.6	383.4	320.9	108.1	34.1	40.4	24.9	0.6	0.7	0.7	22.5
89°	374.1	352.0	301.2	102.0	31.7	38.0	21.8	0.7	0.7	0.8	19.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	340.9	327.0	282.8	97.6	30.4	36.5	19.4	0.7	0.8	0.8	16.8
91°	325.9	303.7	264.5	94.2	29.8	36.2	18.2	0.7	0.8	0.8	15.1
92°	308.1	287.0	247.4	91.2	29.3	37.1	18.7	0.7	0.8	0.8	14.7
93°	307.0	269.0	231.0	88.8	28.3	37.3	20.4	0.7	0.8	0.8	15.2
94°	293.5	256.5	217.3	86.0	27.6	37.0	22.9	0.7	0.8	0.8	16.7
95°	288.1	244.4	205.0	80.6	27.4	36.9	25.2	0.8	0.9	0.8	18.7
96°	272.2	235.0	194.5	70.4	26.6	35.4	26.8	0.8	0.9	0.9	20.5
97°	264.8	226.0	185.2	61.2	25.4	31.8	26.6	0.9	1.0	1.0	21.1
98°	252.8	219.2	172.1	57.7	24.3	27.6	24.3	0.9	1.0	1.0	20.3
99°	250.2	212.1	159.2	54.2	23.4	23.9	19.9	0.9	1.0	1.0	18.0
100°	240.7	198.6	125.8	50.8	23.2	21.9	15.4	1.0	1.0	1.0	15.1
101°	235.9	186.8	109.2	47.6	23.2	20.7	12.4	1.0	1.1	1.1	12.2
102°	214.5	173.1	97.9	43.0	22.1	20.3	10.6	1.0	1.1	1.1	9.3
103°	204.2	159.1	90.6	40.2	19.2	20.2	12.0	1.1	1.1	1.1	7.9
104°	191.8	143.8	85.2	39.6	17.3	20.1	14.4	1.1	1.2	1.2	7.4
105°	169.5	133.0	81.8	42.4	17.3	18.9	15.6	1.1	1.2	1.2	8.5
106°	155.6	123.6	80.2	46.4	19.4	19.2	16.4	1.2	1.2	1.2	9.6
107°	146.5	111.7	75.8	52.1	20.6	20.9	16.4	1.2	1.2	1.2	9.9
108°	129.8	104.9	70.3	56.8	22.6	23.3	16.0	1.2	1.3	1.3	9.6
109°	117.5	100.5	67.0	61.1	25.5	24.8	16.0	1.2	1.3	1.3	9.5
110°	117.8	93.6	60.3	61.3	28.6	24.3	16.1	1.3	1.3	1.3	9.7
111°	110.1	87.9	54.1	60.5	30.2	23.7	16.2	1.3	1.3	1.4	9.8
112°	101.9	83.4	47.9	59.9	30.1	23.2	16.3	1.4	1.4	1.4	10.0
113°	98.0	77.8	41.8	59.4	29.8	22.5	16.1	1.4	1.4	1.5	9.8
114°	92.6	75.3	39.3	58.7	29.5	22.1	15.5	1.5	1.5	1.5	9.4
115°	88.2	71.0	38.4	57.5	29.1	21.5	14.9	1.5	1.6	1.6	8.8
116°	87.7	65.3	38.8	56.2	28.8	20.8	14.1	1.6	1.6	1.6	8.3
117°	82.6	61.2	41.6	54.9	28.2	20.4	13.4	1.6	1.7	1.7	7.8
118°	76.9	57.9	45.4	53.8	27.7	19.9	12.6	1.7	1.8	1.7	7.4
119°	72.4	54.6	49.7	52.7	27.1	19.9	11.8	1.7	1.8	1.8	7.0
120°	67.1	51.4	53.4	51.6	26.7	20.1	11.0	1.7	1.8	1.8	6.7
121°	63.6	51.3	57.0	50.7	26.6	20.5	10.1	1.8	1.9	1.8	6.4
122°	63.4	50.4	59.6	49.9	26.6	20.6	9.4	1.8	1.9	1.8	6.1
123°	64.3	49.1	61.3	49.2	26.9	20.6	8.7	1.8	2.0	1.9	5.8
124°	66.3	50.4	62.8	48.4	27.4	20.5	8.1	1.8	2.0	1.9	5.5
125°	63.8	51.7	63.6	47.5	27.9	20.8	7.6	1.8	2.0	1.9	5.3
126°	63.2	55.7	62.4	46.6	28.2	21.2	7.1	1.8	2.0	1.9	5.0
127°	63.6	59.7	61.3	45.6	28.6	21.7	6.7	1.8	2.0	1.9	4.8
128°	67.0	64.3	60.3	44.8	29.3	22.0	6.3	1.8	2.0	1.9	4.5
129°	72.5	68.4	59.3	44.2	27.9	21.8	5.9	1.8	2.0	1.9	4.4
130°	79.6	72.2	58.2	43.6	23.2	19.4	5.6	1.9	2.0	1.9	4.3
131°	89.1	73.5	57.3	43.0	19.8	16.6	5.2	1.8	2.0	1.8	4.2
132°	96.0	74.5	56.8	42.3	17.0	14.8	4.8	1.8	2.0	1.8	4.0
133°	101.1	74.7	56.5	41.5	16.0	12.5	4.6	1.8	1.9	1.8	3.9
134°	99.8	72.7	56.6	40.8	18.7	10.2	4.3	1.8	1.9	1.8	3.8



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°	98.5	70.7	57.7	40.0	22.7	7.9	4.0	1.8	1.9	1.8	3.6
136°	96.1	68.6	60.0	39.2	22.2	5.7	3.8	1.8	1.9	1.8	3.5
137°	93.5	66.4	63.3	38.4	21.4	8.9	3.6	1.9	1.9	1.9	3.4
138°	90.3	64.5	66.0	37.5	20.3	15.7	3.3	1.9	1.9	2.0	3.2
139°	85.5	63.4	65.6	36.0	18.9	23.7	3.1	1.9	2.0	2.1	2.9
140°	80.1	63.6	61.7	33.9	17.6	26.8	2.8	2.0	2.0	2.1	2.6
141°	75.9	65.3	55.9	31.8	16.0	24.8	2.6	2.0	2.1	2.1	2.4
142°	72.5	67.6	50.5	29.4	14.6	20.8	2.4	2.0	2.1	2.2	2.2
143°	71.8	69.1	46.5	26.8	13.2	16.9	2.1	2.0	2.2	2.2	2.1
144°	75.3	69.0	43.7	24.9	12.0	12.9	2.0	2.0	2.2	2.2	2.0
145°	83.3	68.9	41.2	23.2	10.8	9.0	1.8	1.9	2.2	2.2	2.1
146°	90.8	66.5	38.6	21.4	9.7	7.4	1.7	2.0	2.2	2.2	2.1
147°	86.8	61.3	36.2	19.6	8.7	6.3	1.6	2.0	2.2	2.2	2.2
148°	73.0	55.0	33.8	17.7	7.8	5.4	1.6	2.0	2.2	2.2	2.2
149°	60.4	49.4	31.9	16.0	6.8	4.1	1.6	2.0	2.2	2.2	2.2
150°	52.2	45.7	30.3	14.5	5.4	1.8	1.6	1.9	2.2	2.2	2.2
151°	48.6	42.9	29.0	13.9	2.4	1.2	1.6	1.9	2.2	2.2	2.2
152°	45.2	40.9	28.1	11.6	1.2	1.4	1.6	1.9	2.2	2.2	2.2
153°	41.7	39.1	27.1	8.2	1.7	1.9	1.6	1.9	2.2	2.3	2.1
154°	39.6	37.5	26.1	6.4	2.5	1.7	1.6	1.9	2.2	2.3	2.1
155°	38.0	35.8	25.0	4.6	2.0	1.5	1.6	1.9	2.2	2.3	2.1
156°	36.2	34.2	23.9	2.9	1.6	1.3	1.5	1.9	2.2	2.3	2.1
157°	34.6	32.5	22.8	2.9	1.3	1.3	1.5	1.8	2.1	2.3	2.1
158°	32.8	30.8	21.7	2.9	1.3	1.3	1.5	1.8	2.1	2.2	2.1
159°	30.9	28.9	20.5	2.9	1.4	1.4	1.5	1.8	2.0	2.2	2.0
160°	28.9	27.1	19.3	2.9	1.4	1.4	1.5	1.8	2.0	2.1	2.0
161°	26.8	25.3	18.3	3.6	1.4	1.4	1.5	1.7	2.0	2.0	1.9
162°	24.9	23.6	17.4	5.0	1.4	1.3	1.4	1.7	1.9	2.0	1.8
163°	23.0	21.9	16.4	6.0	1.4	1.4	1.4	1.7	1.9	1.9	1.8
164°	21.3	20.2	12.0	5.8	1.4	1.4	1.5	1.7	1.8	1.9	1.8
165°	19.6	18.6	6.6	5.3	1.4	1.4	1.5	1.7	1.8	1.8	1.8
166°	18.1	17.1	4.8	4.9	1.4	1.4	1.5	1.6	1.7	1.8	1.7
167°	16.6	14.9	3.0	4.5	1.4	1.4	1.5	1.6	1.7	1.8	1.7
168°	14.0	8.4	3.0	4.1	1.5	1.5	1.5	1.6	1.7	1.7	1.6
169°	6.9	6.5	3.0	3.7	1.5	1.5	1.5	1.6	1.7	1.7	1.6
170°	4.8	4.6	4.9	3.3	1.5	1.5	1.5	1.6	1.6	1.7	1.6
171°	2.9	2.8	5.5	2.9	1.5	1.5	1.5	1.6	1.6	1.8	1.7
172°	3.0	4.3	4.7	2.6	1.5	1.5	1.5	1.6	1.6	1.8	1.7
173°	5.7	5.4	4.0	2.5	1.5	1.5	1.5	1.6	1.6	1.8	1.7
174°	4.9	4.4	3.3	2.5	1.6	1.6	1.5	1.6	1.7	1.8	1.8
175°	3.8	3.5	2.7	2.5	1.6	1.6	1.6	1.6	1.7	1.8	1.8
176°	2.8	2.6	2.5	2.4	1.7	1.7	1.7	1.7	1.9	1.8	1.9
177°	2.4	2.4	2.4	2.3	1.7	1.7	1.8	1.8	1.9	1.9	1.9
178°	2.3	2.3	2.2	2.2	1.8	1.8	1.9	2.0	1.9	2.0	2.0
179°	2.2	2.2	2.1	2.1	1.9	1.9	2.0	2.1	2.1	2.0	2.1



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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

REPORT NUMBER: PSZ2F161101002-10
 CATALOG NUMBER:

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	247.5°	270°	292.5°	315°	337.5°	360°	
0°	3063.8	3063.8	3063.8	3063.8	3063.8	3063.8	45°
1°	3061.6	3062.7	3060.9	3074.5	3104.4	3096.9	46°
2°	3000.0	3083.2	3039.2	3049.7	3106.1	3133.4	47°
3°	3000.2	2986.8	2931.8	2973.7	2851.1	2912.6	48°
4°	2928.4	2991.2	2858.5	2691.2	2751.2	2931.9	49°
5°	3005.1	3036.2	2910.0	2551.7	2842.5	2951.9	50°
6°	3015.8	3051.8	2827.1	2670.5	2867.1	2972.4	51°
7°	3118.6	3053.8	2775.5	2759.5	2878.5	3046.6	52°
8°	3273.7	2892.7	2650.2	2777.8	2935.0	3098.8	53°
9°	3235.7	2934.3	2542.8	2895.1	2951.7	3191.9	54°
10°	3206.2	2973.4	2607.8	3022.3	3131.2	3301.5	55°
11°	3076.2	3053.2	2679.9	3017.6	3236.9	3253.3	56°
12°	2893.0	3016.7	2809.4	3007.7	3176.9	3674.2	57°
13°	2696.1	2977.9	2847.7	3105.8	3474.5	3649.0	58°
14°	2458.3	3067.2	2819.2	3162.7	3537.3	3321.4	59°
15°	2191.6	3128.7	2927.7	3102.1	3376.8	2538.0	60°
16°	1995.7	3166.9	2926.0	3196.2	2876.8	1850.8	61°
17°	1758.3	3309.7	2959.4	3435.3	2086.2	1644.6	62°
18°	1630.6	3472.2	3023.7	3514.6	1739.6	1643.3	63°
19°	1605.3	3852.5	3183.9	3352.5	1651.1	1735.2	64°
20°	1599.3	3705.4	3460.5	3005.6	1646.1	1862.0	65°
21°	1600.4	3114.1	3590.7	2558.5	1691.1	1955.0	66°
22°	1520.2	2397.6	3275.1	2113.8	1789.9	2033.4	67°
23°	1307.6	2030.5	2757.6	1875.2	1909.3	2171.3	68°
24°	1095.1	2040.0	2409.4	1779.4	2027.8	2357.1	69°
25°	884.5	2148.2	2224.0	1770.8	2126.5	2635.6	70°
26°	773.9	2244.8	2217.6	1817.0	2253.3	3038.9	71°
27°	725.9	2295.3	2270.8	1854.1	2445.3	3288.8	72°
28°	712.3	2347.5	2262.0	1869.1	2784.8	3411.2	73°
29°	706.5	2334.5	2261.7	1841.2	3042.6	3417.4	74°
30°	693.1	2270.8	2282.0	1782.0	3189.9	3457.3	75°
31°	681.1	2210.9	2360.0	1774.1	3233.6	3429.0	76°
32°	661.2	2282.8	2426.6	1810.5	3305.9	3504.0	77°
33°	632.4	2394.4	2569.4	1863.1	3368.3	3572.8	78°
34°	601.6	2431.1	2584.7	1955.1	3422.5	3565.3	79°
35°	582.4	2380.3	2533.4	2082.6	3441.1	3448.1	80°
36°	577.7	2381.2	2600.0	2217.9	3430.0	3430.3	81°
37°	580.9	2379.6	2753.3	2344.4	3438.9	3560.8	82°
38°	580.8	2397.9	2863.0	2439.7	3488.8	3826.7	83°
39°	570.7	2429.5	2820.4	2513.6	3554.8	4145.8	84°
40°	561.7	2481.5	2756.7	2544.3	3655.4	4276.6	85°
41°	542.2	2542.2	2621.6	2544.4	3862.0	3913.8	86°
42°	519.1	2509.5	2448.6	2534.2	4075.6	3472.7	87°
43°	498.1	2537.6	2307.2	2518.0	4043.0	3367.4	88°
44°	480.5	2474.9	2153.2	2523.2	3777.1	3430.9	89°

NUMBER: PSZ2F161101002-10
 NUMBER:

REPORT NUMBER: F
 CATALOG NUMBER:

DISTRIBUTION (continued):

247.5°	270°	292.5°	315°	337.5°	360°
464.0	2276.2	2056.9	2531.6	3497.4	3332.4
450.6	2153.6	2031.9	2534.0	3297.5	3082.1
432.2	2111.3	2039.7	2532.9	3120.9	2944.9
410.1	2185.2	2000.1	2567.4	2960.0	2935.6
395.5	2156.6	1951.0	2630.7	2759.0	2931.8
384.2	2041.4	1923.4	2633.2	2643.5	2892.7
364.9	1940.7	1904.1	2621.5	2591.6	2966.2
344.3	1807.4	1877.6	2602.5	2567.5	2968.3
327.0	1688.2	1836.8	2472.0	2551.1	2644.0
313.4	1801.7	1806.1	2370.4	2511.4	2435.4
297.5	1791.2	1827.5	2284.0	2420.2	2387.3
290.4	1768.9	1814.9	2192.4	2282.7	2361.2
284.6	1887.7	1766.6	2083.9	2179.1	2421.9
275.7	1816.2	1763.6	1996.9	2121.4	2394.7
262.5	1714.8	1782.3	1920.3	2117.4	2395.2
245.1	1677.4	1758.3	1825.7	2125.0	2506.8
229.6	1634.2	1687.3	1736.5	2149.0	2469.1
214.5	1541.8	1603.1	1695.9	2184.4	2554.8
203.4	1463.9	1558.5	1615.3	2209.1	2620.7
196.0	1399.6	1499.5	1501.6	2255.3	2539.5
187.2	1313.3	1432.6	1412.1	2276.5	2580.6
174.2	1224.8	1348.2	1361.4	2305.5	2597.8
162.2	1208.6	1261.9	1318.9	2327.2	2467.5
154.7	1191.8	1199.5	1299.0	2294.4	2393.2
148.1	1080.6	1176.9	1290.6	2241.4	2239.3
137.1	941.5	1136.2	1280.1	2144.9	2024.2
126.1	843.6	1046.6	1270.0	1999.5	1896.7
115.1	809.8	979.0	1247.3	1837.2	1730.1
107.0	749.3	919.2	1224.1	1644.2	1528.0
99.8	672.4	860.8	1186.0	1448.8	1401.2
92.1	565.4	802.0	1112.4	1276.4	1236.9
84.5	491.2	706.3	1025.8	1113.9	1093.5
77.5	418.0	603.4	934.5	987.7	1000.6
70.4	344.7	521.6	840.6	894.8	929.0
64.5	295.3	440.0	741.7	806.3	854.3
59.5	246.9	358.4	647.1	729.2	785.2
55.7	190.6	302.8	572.2	668.5	723.7
52.4	146.6	252.1	521.3	615.5	664.3
51.1	122.4	202.1	471.1	565.1	611.0
48.9	97.4	166.9	420.9	528.1	562.1
46.4	82.9	141.0	383.8	491.4	522.6
44.9	68.0	124.9	350.8	463.2	483.1
43.6	57.4	112.4	323.1	432.7	445.2
41.4	51.6	102.1	299.0	403.6	410.6
38.5	45.9	94.7	278.3	373.8	374.1

CANDELA DISTRIBUTION:

	247.5°
90°	36.1
91°	33.6
92°	33.7
93°	35.3
94°	35.2
95°	34.3
96°	34.4
97°	32.8
98°	29.7
99°	26.2
100°	22.8
101°	20.0
102°	18.0
103°	16.5
104°	15.6
105°	15.0
106°	13.5
107°	12.5
108°	13.2
109°	14.7
110°	16.1
111°	16.2
112°	15.9
113°	15.6
114°	15.4
115°	15.2
116°	15.0
117°	14.7
118°	14.3
119°	14.0
120°	13.6
121°	13.3
122°	13.1
123°	13.1
124°	12.9
125°	13.0
126°	13.2
127°	13.7
128°	14.3
129°	14.5
130°	14.0
131°	12.2
132°	10.3
133°	8.5
134°	7.6

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REPORT NUMBER: PSZ2F1611

CATALOG NUMBER:

TION (continued):

270°	292.5°	315°	337.5°	360°
40.1	88.8	261.7	351.0	340.9
37.2	84.2	246.7	326.1	325.9
35.1	80.6	232.4	305.1	308.1
34.1	78.4	218.4	283.0	307.0
33.4	76.3	206.1	265.2	293.5
33.0	72.4	194.8	246.0	288.1
31.9	63.5	184.0	233.7	272.2
30.1	55.8	174.9	222.5	264.8
28.6	50.4	162.2	215.8	252.8
27.0	44.9	150.1	205.4	250.2
26.2	45.1	120.6	191.3	240.7
26.4	44.4	104.4	177.8	235.9
26.1	42.0	94.2	165.0	214.5
25.4	38.5	86.4	150.8	204.2
24.0	37.4	80.1	137.6	191.8
23.6	39.2	76.2	127.5	169.5
23.7	41.8	72.0	118.5	155.6
23.1	44.9	70.1	107.7	146.5
23.8	49.0	65.1	101.6	129.8
25.8	54.4	59.9	97.2	117.5
28.6	56.7	54.3	91.2	117.8
31.1	56.8	48.6	85.9	110.1
32.1	56.1	42.9	81.0	101.9
31.4	55.2	38.9	76.0	98.0
30.8	54.3	37.0	72.4	92.6
30.3	53.4	36.7	68.3	88.2
29.6	52.2	37.7	62.4	87.7
28.8	51.0	39.9	58.0	82.6
27.9	49.8	44.5	55.1	76.9
27.3	48.6	49.1	52.2	72.4
26.8	47.5	52.9	49.4	67.1
26.5	46.8	55.7	49.9	63.6
26.3	46.3	57.9	50.0	63.4
26.1	45.8	59.3	49.2	64.3
25.9	45.2	60.1	50.6	66.3
25.7	44.9	60.9	52.1	63.8
25.4	44.4	60.2	55.9	63.2
25.2	43.8	59.3	60.4	63.6
24.9	43.4	58.2	64.4	67.0
24.6	43.1	57.3	68.9	72.5
23.1	43.0	56.5	71.2	79.6
19.3	43.0	56.4	71.5	89.1
16.5	42.8	56.6	72.4	96.0
14.3	42.5	57.0	72.0	101.1
13.3	42.0	57.5	69.9	99.8

CANDELA DISTRIBUTION (con

	247.5°	270°
135°	6.8	14.3
136°	7.0	17.4
137°	7.2	17.6
138°	7.5	16.7
139°	9.8	15.8
140°	12.6	14.9
141°	15.1	13.9
142°	15.7	12.9
143°	13.7	12.0
144°	11.7	11.2
145°	9.7	10.4
146°	8.2	9.8
147°	6.9	9.2
148°	5.7	8.4
149°	2.6	7.6
150°	2.1	6.6
151°	2.1	5.1
152°	2.1	3.6
153°	2.1	2.1
154°	2.1	2.2
155°	2.1	2.7
156°	2.1	2.6
157°	2.1	2.3
158°	2.1	2.3
159°	2.1	2.3
160°	2.0	2.4
161°	2.0	2.4
162°	1.9	2.4
163°	1.9	2.3
164°	1.9	2.3
165°	1.9	2.3
166°	1.9	2.3
167°	1.9	2.3
168°	1.8	2.3
169°	1.8	2.2
170°	1.8	2.2
171°	1.8	2.2
172°	1.7	2.2
173°	1.7	2.2
174°	1.7	2.2
175°	1.8	2.1
176°	1.9	2.1
177°	1.9	2.0
178°	2.0	2.0
179°	2.1	2.0



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REPORT NUMBER: PSZ2F161101002-10

CATALOG NUMBER:

tinued):

292.5°	315°	337.5°	360°
41.2	58.1	67.5	98.5
40.1	58.4	65.4	96.1
38.8	58.1	63.0	93.5
37.0	56.0	61.2	90.3
34.8	52.6	60.0	85.5
32.4	48.6	59.7	80.1
29.3	45.1	60.2	75.9
26.6	42.5	61.4	72.5
24.2	40.5	62.7	71.8
21.8	38.5	63.8	75.3
19.4	36.7	62.6	83.3
17.3	34.7	58.2	90.8
15.6	32.6	52.9	86.8
14.3	30.6	48.5	73.0
12.5	28.6	44.7	60.4
9.7	26.9	41.8	52.2
6.6	25.4	39.7	48.6
5.0	24.2	38.0	45.2
3.5	23.0	36.5	41.7
3.6	22.2	35.1	39.6
3.1	21.3	33.7	38.0
2.8	20.4	32.3	36.2
2.5	19.4	30.8	34.6
2.5	18.4	29.1	32.8
2.8	17.4	27.3	30.9
3.5	16.5	25.6	28.9
4.5	15.6	23.8	26.8
4.6	14.8	22.1	24.9
4.4	13.1	20.4	23.0
4.1	7.8	18.8	21.3
3.8	6.1	17.4	19.6
3.5	4.5	16.0	18.1
3.2	2.9	13.4	16.6
2.9	2.8	6.9	14.0
2.6	4.2	4.9	6.9
2.4	5.6	3.0	4.8
2.4	5.0	2.9	2.9
2.4	4.2	5.6	3.0
2.3	3.5	5.5	5.7
2.3	2.8	4.3	4.9
2.2	2.4	3.3	3.8
2.2	2.3	2.5	2.8
2.1	2.2	2.3	2.4
2.1	2.2	2.3	2.3
2.1	2.2	2.2	2.2

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°
180°	2.0	2.0	2.0



315°	337.5°	360°
2.0	2.0	2.0

(END OF REPORT)