

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P227557

Luminaire Tested: **ISS-AF-1000-LED-E1-T2-7060-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-T2-7060-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7089.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

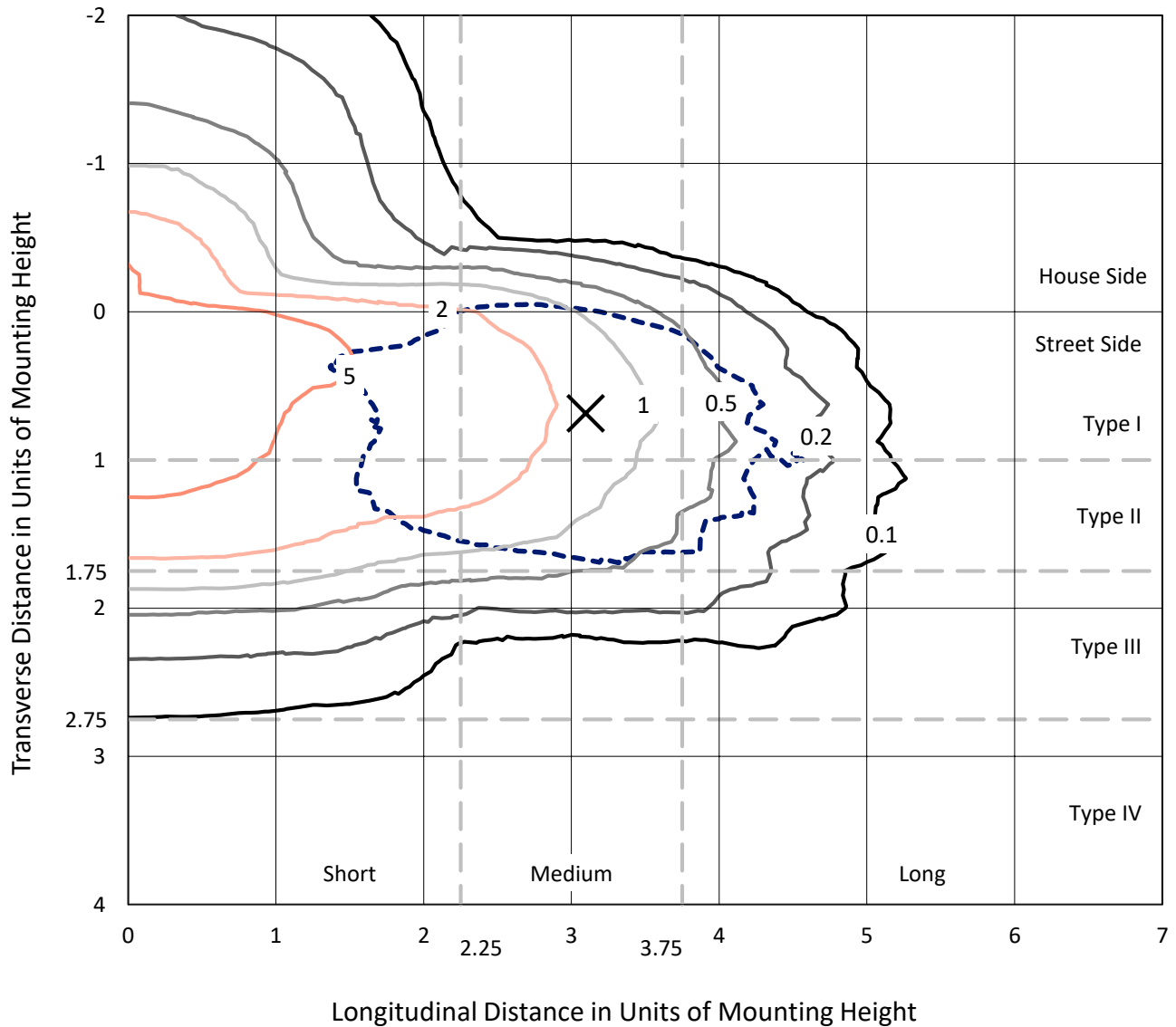


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

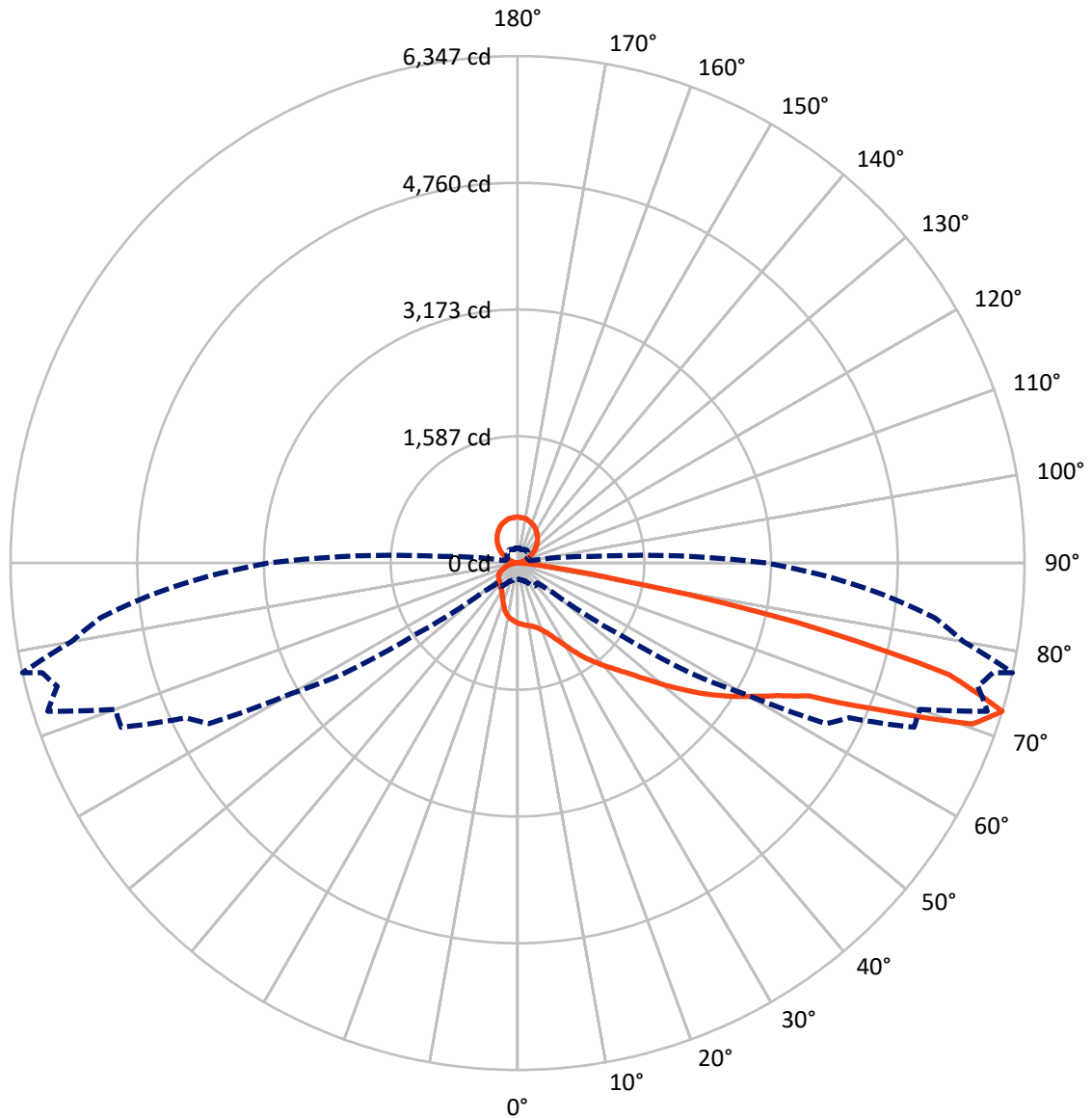


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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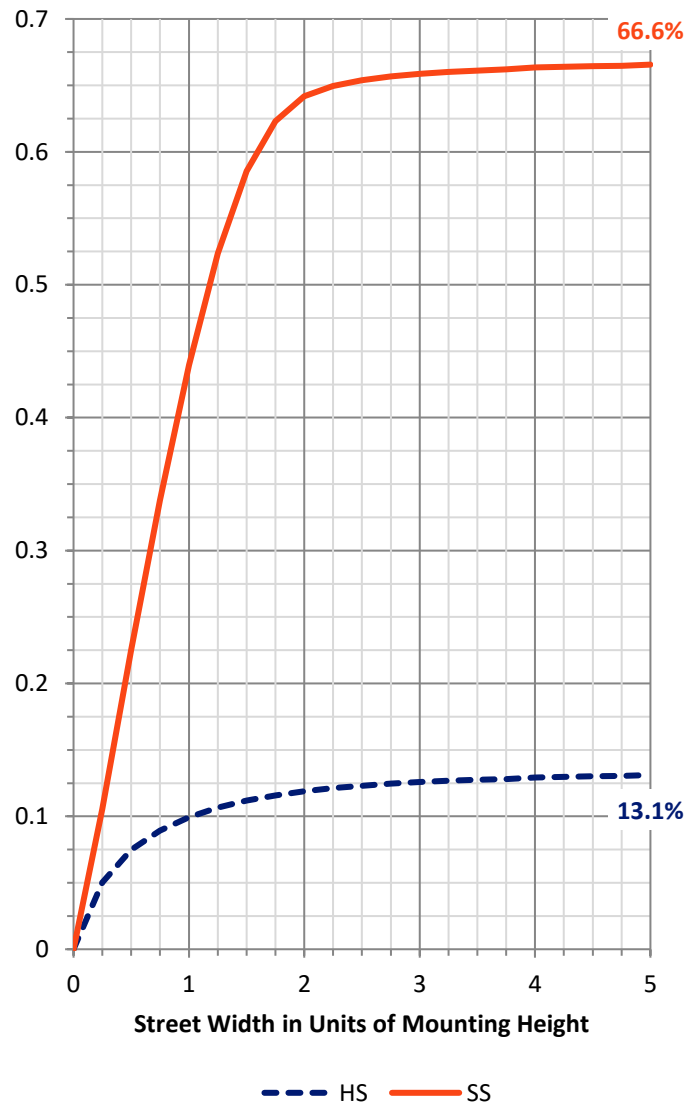
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.3	713.1	1651.4
	% Fixture	13.2	10.1	23.3
Street Side	Lumens	4724.6	713.1	5437.7
	% Fixture	66.6	10.1	76.7
Total	Lumens	5663.0	1426.2	7089.2
	% Fixture	79.9	20.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.0
10°-20°	215.3	3.0
20°-30°	382.3	5.4
30°-40°	605.7	8.5
40°-50°	908.6	12.8
50°-60°	1177.5	16.6
60°-70°	1337.9	18.9
70°-80°	887.8	12.5
80°-90°	77.7	1.1
90°-100°	4.7	0.1
100°-110°	69.0	1.0
110°-120°	153.0	2.2
120°-130°	223.9	3.2
130°-140°	265.6	3.7
140°-150°	269.3	3.8
150°-160°	231.1	3.3
160°-170°	155.1	2.2
170°-180°	54.3	0.8
0°-90°	5663.0	79.9
0°-180°	7089.2	100.0



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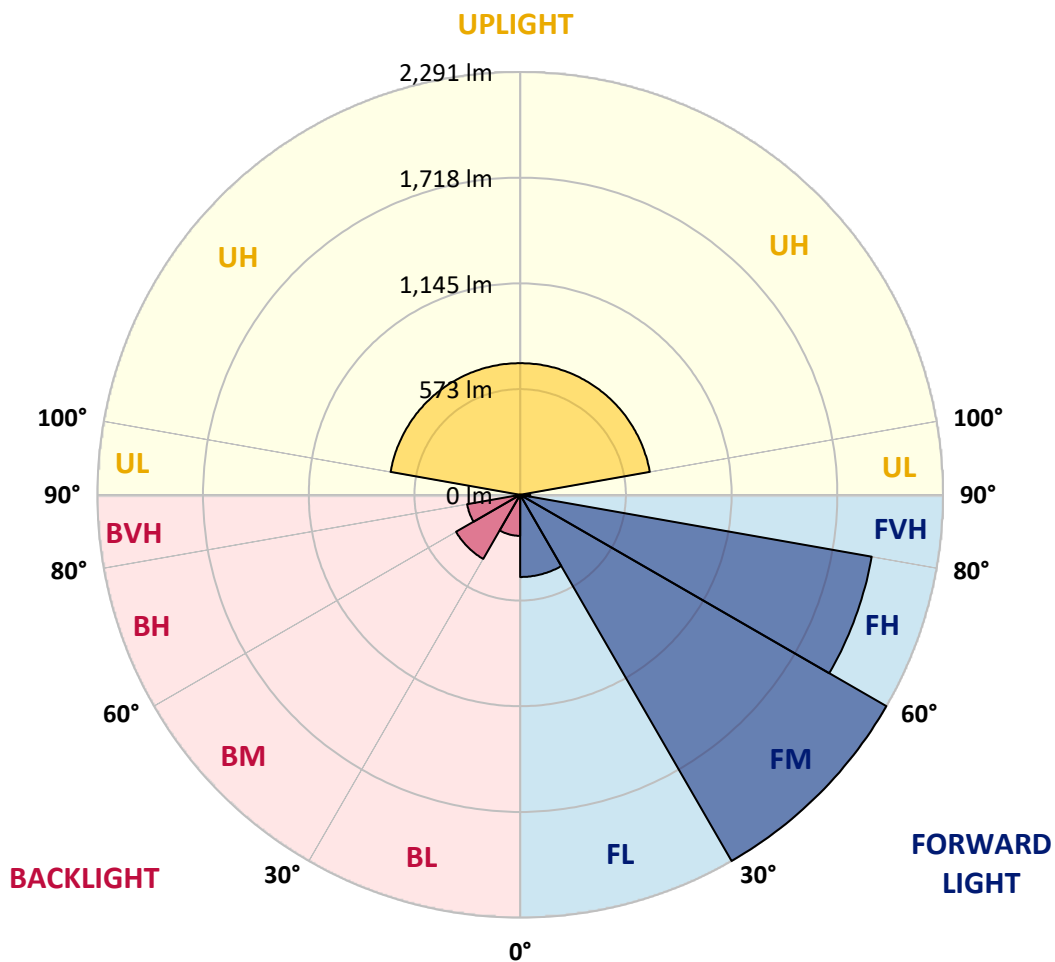
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.5	6.3			
FM (30°-60°)	2291.0	32.3			
FH (60°-80°)	1933.9	27.3			G2/5000
FVH (80°-90°)	54.3	0.8			G1/100
BL (0°-30°)	222.3	3.1	B1/500		
BM (30°-60°)	400.8	5.7	B1/1000		
BH (60°-80°)	291.8	4.1	B1/500		G1/500
BVH (80°-90°)	23.4	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	10.1		U4/1000	

BUG Rating: B1-U5-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1
2.5°	819.1	815.3	813.4	809.6	805.8	803.8	798.1	794.3	800.0	798.1	798.1
5°	880.2	876.4	870.7	864.9	857.3	851.6	845.9	840.1	843.9	840.1	836.3
7.5°	929.9	926.0	918.4	912.7	905.0	897.4	889.8	887.9	884.0	878.3	876.4
10°	958.5	954.7	950.9	947.0	935.6	929.9	920.3	914.6	916.5	908.9	908.9
12.5°	985.2	981.4	979.5	979.5	970.0	964.2	960.4	954.7	958.5	947.0	943.2
15°	1010.1	1006.2	1000.5	1006.2	1004.3	1002.4	1000.5	998.6	1004.3	992.9	994.8
17.5°	1050.2	1048.2	1036.8	1029.1	1031.1	1036.8	1040.6	1038.7	1038.7	1033.0	1034.9
20°	1113.2	1113.2	1097.9	1084.5	1063.5	1063.5	1065.4	1063.5	1067.3	1071.2	1076.9
22.5°	1160.9	1157.1	1151.3	1139.9	1117.0	1097.9	1097.9	1090.2	1096.0	1097.9	1109.3
25°	1222.0	1218.2	1204.8	1204.8	1181.9	1157.1	1153.3	1141.8	1155.2	1130.3	1149.4
27.5°	1296.5	1292.6	1275.5	1267.8	1256.4	1225.8	1218.2	1220.1	1233.5	1197.2	1216.3
30°	1390.0	1386.2	1365.2	1344.2	1325.1	1292.6	1288.8	1286.9	1317.5	1275.5	1300.3
32.5°	1508.4	1508.4	1485.5	1456.8	1418.7	1374.7	1359.5	1361.4	1403.4	1357.6	1399.6
35°	1687.9	1665.0	1623.0	1579.0	1539.0	1487.4	1466.4	1462.6	1500.8	1454.9	1502.7
37.5°	1802.4	1787.2	1749.0	1716.5	1672.6	1623.0	1607.7	1613.4	1645.9	1579.0	1647.8
40°	1905.6	1903.6	1878.8	1857.8	1813.9	1764.3	1783.4	1859.7	1945.6	1815.8	1817.7
42.5°	1974.3	1978.1	1976.2	1978.1	1953.3	1901.7	1934.2	2041.1	2188.1	2111.8	2041.1
45°	1985.7	1999.1	2004.8	2043.0	2067.8	2037.3	2054.5	2167.1	2461.2	2579.6	2260.7
47.5°	2014.4	2027.7	2016.3	2062.1	2176.7	2174.8	2243.5	2285.5	2325.6	2344.7	2585.3
50°	2052.6	2077.4	2065.9	2104.1	2197.7	2251.1	2310.3	2363.8	2331.3	2211.0	2276.0
52.5°	2054.5	2083.1	2146.1	2184.3	2276.0	2264.5	2304.6	2276.0	2325.6	2201.5	2264.5
55°	1886.5	1892.2	2075.5	2268.3	2428.7	2396.3	2371.4	2306.5	2369.5	2214.9	2295.1
57.5°	1621.1	1640.1	1831.1	2155.7	2499.4	2528.0	2520.4	2514.6	2564.3	2358.1	2445.9
60°	1328.9	1351.8	1533.2	1915.1	2352.3	2426.8	2529.9	2592.9	2720.9	2638.7	2783.9
62.5°	828.7	845.9	1046.3	1523.7	2075.5	2222.5	2373.3	2447.8	2633.0	2671.2	2917.5
65°	395.2	401.0	479.3	828.7	1508.4	1785.3	2008.7	2167.1	2394.3	2566.2	2898.4
67.5°	307.4	309.3	338.0	441.1	773.3	958.5	1212.4	1422.5	1665.0	2134.7	2547.1
70°	246.3	246.3	269.2	324.6	479.3	504.1	569.0	639.6	742.7	1120.8	1454.9
72.5°	206.2	206.2	221.5	255.9	355.1	360.9	357.1	351.3	351.3	443.0	565.2
75°	173.8	171.8	181.4	204.3	263.5	271.1	267.3	253.9	238.7	238.7	269.2
77.5°	141.3	141.3	148.9	160.4	190.9	194.8	194.8	183.3	169.9	171.8	185.2
80°	110.7	110.7	116.5	124.1	133.7	131.7	131.7	120.3	110.7	108.8	116.5
82.5°	80.2	82.1	95.5	89.7	85.9	80.2	80.2	78.3	70.6	64.9	68.7
85°	24.8	26.7	45.8	53.5	43.9	36.3	34.4	28.6	30.5	24.8	28.6
87.5°	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.9	0.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1
2.5°	788.6	792.4	784.8	784.8	775.2	780.9	771.4	773.3	763.7	767.6	767.6
5°	826.8	828.7	819.1	815.3	805.8	805.8	796.2	796.2	782.8	786.7	782.8
7.5°	863.0	863.0	853.5	845.9	836.3	832.5	821.0	815.3	803.8	801.9	796.2
10°	893.6	893.6	880.2	872.6	861.1	855.4	840.1	834.4	821.0	811.5	805.8
12.5°	931.8	928.0	912.7	905.0	885.9	884.0	861.1	857.3	838.2	832.5	822.9
15°	977.6	981.4	956.6	954.7	928.0	926.0	895.5	893.6	864.9	863.0	849.7
17.5°	1027.2	1034.9	1013.9	1012.0	979.5	979.5	943.2	941.3	903.1	901.2	884.0
20°	1071.2	1080.7	1067.3	1071.2	1042.5	1044.4	1004.3	1004.3	950.9	947.0	931.8
22.5°	1111.3	1130.3	1118.9	1139.9	1111.3	1124.6	1071.2	1080.7	1017.7	1010.1	987.1
25°	1151.3	1176.2	1172.4	1206.7	1185.7	1208.6	1153.3	1172.4	1090.2	1096.0	1065.4
27.5°	1191.4	1223.9	1220.1	1269.7	1262.1	1307.9	1260.2	1281.2	1191.4	1197.2	1162.8
30°	1258.3	1294.6	1281.2	1332.7	1332.7	1407.2	1370.9	1403.4	1304.1	1315.6	1275.5
32.5°	1348.0	1390.0	1349.9	1416.8	1412.9	1510.3	1481.7	1537.0	1439.7	1454.9	1405.3
35°	1445.4	1512.2	1447.3	1521.8	1510.3	1611.5	1592.4	1682.2	1579.0	1596.2	1546.6
37.5°	1573.3	1653.5	1567.6	1632.5	1581.0	1697.4	1686.0	1808.2	1703.2	1747.1	1687.9
40°	1724.2	1787.2	1680.2	1735.6	1649.7	1770.0	1750.9	1918.9	1821.5	1892.2	1838.7
42.5°	1863.5	1907.5	1766.2	1834.9	1731.8	1854.0	1819.6	2022.0	1938.0	2046.8	1987.7
45°	1989.6	2039.2	1852.1	1928.5	1813.9	1947.6	1888.4	2121.3	2064.0	2228.2	2169.0
47.5°	2169.0	2096.5	1930.4	2029.7	1901.7	2048.8	1970.5	2237.8	2216.8	2449.7	2381.0
50°	2109.9	2157.6	1995.3	2098.4	1981.9	2161.4	2075.5	2377.2	2382.9	2690.3	2650.2
52.5°	2115.6	2195.8	2044.9	2188.1	2075.5	2318.0	2228.2	2545.2	2571.9	2923.2	2867.9
55°	2149.9	2268.3	2119.4	2312.2	2207.2	2491.7	2428.7	2726.6	2772.4	3142.8	3110.4
57.5°	2235.9	2400.1	2247.3	2499.4	2390.5	2690.3	2633.0	2913.7	2976.7	3362.4	3352.9
60°	2566.2	2760.9	2493.6	2772.4	2627.3	2915.6	2839.2	3110.4	3173.4	3572.4	3597.3
62.5°	2934.7	3272.7	3114.2	3404.4	3020.6	3312.8	3087.4	3352.9	3356.7	3797.7	3876.0
65°	3030.2	3549.5	3685.1	4225.4	4024.9	4324.7	3723.3	3900.8	3671.7	4208.2	4320.9
67.5°	2993.9	3629.7	4005.9	4614.9	4842.2	5365.3	5264.1	5203.0	4672.2	5057.9	5193.5
70°	2197.7	2871.7	3792.0	4410.6	5065.6	5409.2	5953.4	6008.8	5985.9	5932.4	6022.1
72.5°	1000.5	1569.5	2566.2	3272.7	4353.4	4584.4	5373.0	5357.7	6167.3	5966.8	6108.1
75°	393.3	605.3	1222.0	1827.3	3011.1	3295.6	4189.2	3967.7	4977.7	4683.7	4985.4
77.5°	215.8	271.1	458.2	784.8	1644.0	1794.8	2564.3	2193.9	3087.4	2577.6	2678.8
80°	129.8	162.3	210.0	297.9	698.8	738.9	1094.1	882.1	1262.1	958.5	929.9
82.5°	70.6	87.8	105.0	147.0	259.7	288.3	378.1	339.9	404.8	345.6	338.0
85°	28.6	38.2	40.1	59.2	85.9	99.3	120.3	129.8	158.5	145.1	141.3
87.5°	0.0	1.9	0.0	3.8	0.0	3.8	0.0	5.7	5.7	9.5	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0	4.8
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0	26.8
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0	48.2
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0	69.4
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0	91.2
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0	113.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0	135.4
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.4
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0	180.4
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.4
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0	229.8
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.6
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0	278.6
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0	302.6
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0	326.6
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0	349.4
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0	370.8
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0	392.8
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0	413.6
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0	434.6
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0	453.6
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.8
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.6
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0	504.6
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0	519.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.6
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0	538.4
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0	548.4
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0	559.8
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0	567.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0	568.6
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0	568.6
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0	574.6
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1
2.5°	761.8	767.6	759.9	759.9	750.4	756.1	750.4	744.7	735.1	737.0	723.7
5°	775.2	779.0	769.5	765.7	759.9	758.0	746.6	735.1	721.7	721.7	706.5
7.5°	788.6	788.6	775.2	775.2	761.8	758.0	740.8	721.7	702.6	700.7	677.8
10°	796.2	794.3	777.1	777.1	758.0	756.1	735.1	706.5	679.7	672.1	639.6
12.5°	811.5	809.6	788.6	784.8	759.9	759.9	729.4	691.2	653.0	639.6	593.8
15°	830.6	832.5	807.7	801.9	773.3	771.4	729.4	672.1	620.5	599.5	544.2
17.5°	861.1	863.0	828.7	822.9	788.6	782.8	731.3	649.2	576.6	553.7	504.1
20°	901.2	895.5	849.7	847.8	801.9	796.2	729.4	614.8	532.7	509.8	465.9
22.5°	950.9	945.1	885.9	880.2	826.8	817.2	727.5	578.5	492.6	467.8	439.2
25°	1019.6	1012.0	939.4	931.8	864.9	849.7	725.6	540.4	458.2	439.2	422.0
27.5°	1105.5	1090.2	1002.4	994.8	905.0	885.9	717.9	496.4	423.9	410.5	402.9
30°	1208.6	1195.3	1082.6	1071.2	958.5	933.7	710.3	456.3	399.1	393.3	387.6
32.5°	1330.8	1317.5	1180.0	1166.6	1027.2	991.0	696.9	423.9	383.8	383.8	376.1
35°	1458.8	1447.3	1285.0	1275.5	1103.6	1055.9	679.7	395.2	370.4	370.4	362.8
37.5°	1573.3	1582.9	1399.6	1391.9	1180.0	1120.8	660.6	376.1	359.0	355.1	347.5
40°	1697.4	1720.3	1506.5	1512.2	1260.2	1189.5	637.7	360.9	345.6	341.8	339.9
42.5°	1823.4	1867.4	1619.1	1640.1	1340.4	1260.2	620.5	351.3	339.9	332.2	330.3
45°	1980.0	2043.0	1758.5	1798.6	1433.9	1346.1	614.8	339.9	322.7	313.1	307.4
47.5°	2174.8	2258.8	1930.4	1976.2	1558.0	1449.2	626.3	336.0	311.2	299.8	288.3
50°	2405.8	2486.0	2134.7	2153.8	1697.4	1561.9	651.1	341.8	307.4	290.2	273.0
52.5°	2650.2	2711.3	2350.4	2329.4	1842.5	1672.6	679.7	343.7	297.9	280.7	259.7
55°	2902.2	2936.6	2550.9	2495.5	1974.3	1783.4	717.9	341.8	290.2	271.1	244.4
57.5°	3148.5	3160.0	2728.5	2675.0	2104.1	1915.1	765.7	336.0	278.8	259.7	231.0
60°	3389.1	3408.2	2925.2	2875.5	2245.4	2085.0	834.4	326.5	263.5	250.1	219.6
62.5°	3652.6	3715.6	3160.0	3167.6	2440.2	2350.4	964.2	315.0	248.2	232.9	202.4
65°	4011.6	4252.2	3547.6	3727.1	2814.4	2850.7	1212.4	282.6	227.2	208.1	187.1
67.5°	4910.9	5174.4	4488.9	4561.5	3690.8	3475.1	1369.0	240.6	200.5	187.1	173.8
70°	6037.4	5848.4	5361.5	4922.4	4202.5	3572.4	1204.8	202.4	177.6	169.9	162.3
72.5°	6346.7	5668.9	5267.9	4609.2	3885.6	3116.1	922.2	173.8	158.5	154.7	148.9
75°	5577.3	4595.9	4618.8	3662.2	3221.1	2375.3	630.1	148.9	137.5	135.6	133.7
77.5°	3566.7	2361.9	2875.5	1810.1	1859.7	1099.8	307.4	124.1	118.4	118.4	114.6
80°	1267.8	786.7	889.8	570.9	519.3	349.4	166.1	99.3	95.5	97.4	95.5
82.5°	380.0	301.7	296.0	231.0	179.5	147.0	91.6	76.4	72.6	74.5	70.6
85°	152.7	118.4	99.3	76.4	63.0	57.3	49.6	51.6	45.8	49.6	43.9
87.5°	9.5	7.6	5.7	7.6	0.0	3.8	9.5	7.6	1.9	7.6	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.2	4.0	4.0	4.0	4.0	4.5	4.8	5.0	5.5
100°	26.8	26.5	26.2	26.0	25.5	25.0	26.0	26.5	26.8	27.0	27.8
102.5°	48.2	48.5	48.8	49.0	48.5	48.0	49.0	48.5	48.2	48.0	48.5
105°	69.5	70.0	70.5	71.0	70.0	69.0	71.0	70.0	69.5	69.0	69.5
107.5°	91.2	91.5	91.8	92.0	91.5	91.0	92.0	91.5	91.2	91.0	91.2
110°	113.2	113.5	113.8	114.0	113.5	113.0	114.0	113.5	113.2	113.0	113.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
112.5°	135.5	136.0	136.5	137.0	136.0	135.0	137.0	136.0	135.5	135.0	135.2	0°
115°	158.5	159.0	159.5	160.0	159.5	159.0	160.0	159.0	158.5	158.0	158.0	2.5°
117.5°	180.5	181.0	181.5	182.0	181.0	180.0	182.0	181.0	180.5	180.0	180.2	5°
120°	204.5	205.0	205.5	206.0	205.0	204.0	206.0	205.0	204.5	204.0	204.0	7.5°
122.5°	230.0	231.0	232.0	233.0	232.5	232.0	233.0	231.0	230.0	229.0	228.8	10°
125°	254.8	255.5	256.2	257.0	256.5	256.0	257.0	255.5	254.8	254.0	254.0	12.5°
127.5°	278.8	279.5	280.2	281.0	279.5	278.0	281.0	279.5	278.8	278.0	277.8	15°
130°	302.8	303.5	304.2	305.0	304.0	303.0	305.0	303.5	302.8	302.0	301.8	17.5°
132.5°	326.8	327.5	328.2	329.0	328.0	327.0	329.0	327.5	326.8	326.0	325.8	20°
135°	349.5	350.0	350.5	351.0	350.5	350.0	351.0	350.0	349.5	349.0	348.8	22.5°
137.5°	371.0	372.0	373.0	374.0	373.0	372.0	374.0	372.0	371.0	370.0	369.8	25°
140°	393.0	394.0	395.0	396.0	395.0	394.0	396.0	394.0	393.0	392.0	391.5	27.5°
142.5°	413.8	414.5	415.2	416.0	415.5	415.0	416.0	414.5	413.8	413.0	412.8	30°
145°	434.8	435.5	436.2	437.0	436.0	435.0	437.0	435.5	434.8	434.0	433.8	32.5°
147.5°	453.8	454.5	455.2	456.0	454.5	453.0	456.0	454.5	453.8	453.0	452.8	35°
150°	470.0	471.0	472.0	473.0	471.5	470.0	473.0	471.0	470.0	469.0	469.0	37.5°
152.5°	486.8	487.5	488.2	489.0	487.5	486.0	489.0	487.5	486.8	486.0	486.0	40°
155°	504.8	505.5	506.2	507.0	506.0	505.0	507.0	505.5	504.8	504.0	503.8	42.5°
157.5°	519.2	520.5	521.8	523.0	521.5	520.0	523.0	520.5	519.2	518.0	517.8	45°
160°	530.8	531.5	532.2	533.0	532.0	531.0	533.0	531.5	530.8	530.0	530.0	47.5°
162.5°	538.5	539.0	539.5	540.0	538.5	537.0	540.0	539.0	538.5	538.0	538.5	50°
165°	548.5	549.0	549.5	550.0	549.0	548.0	550.0	549.0	548.5	548.0	548.5	52.5°
167.5°	560.0	561.0	562.0	563.0	562.0	561.0	563.0	561.0	560.0	559.0	558.8	55°
170°	567.2	568.5	569.8	571.0	570.0	569.0	571.0	568.5	567.2	566.0	565.5	57.5°
172.5°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	567.8	60°
175°	568.8	569.5	570.2	571.0	569.5	568.0	571.0	569.5	568.8	568.0	568.5	62.5°
177.5°	574.8	575.5	576.2	577.0	575.5	574.0	577.0	575.5	574.8	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	
756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	112.5°	135.5
733.2	719.8	725.6	719.8	723.7	712.2	716.0	706.5	706.5	704.6	695.0	115°	158.0
708.4	695.0	693.1	679.7	681.6	666.4	664.5	647.3	647.3	632.0	603.4	117.5°	180.5
674.0	653.0	651.1	624.4	622.5	601.5	593.8	574.7	572.8	555.6	538.4	120°	204.0
630.1	597.6	591.9	557.5	559.4	536.5	534.6	521.3	521.3	513.6	513.6	122.5°	228.5
580.4	544.2	540.4	513.6	515.5	500.3	502.2	494.5	498.3	502.2	515.5	125°	254.0
534.6	506.0	502.2	485.0	486.9	483.1	488.8	488.8	494.5	504.1	527.0	127.5°	277.5
496.4	471.6	473.5	465.9	473.5	471.6	483.1	481.2	492.6	504.1	532.7	130°	301.5
462.1	448.7	454.4	452.5	462.1	462.1	471.6	473.5	483.1	498.3	530.8	132.5°	325.5
439.2	435.3	441.1	441.1	448.7	450.6	460.2	465.9	471.6	486.9	515.5	135°	348.5
425.8	423.9	429.6	431.5	437.2	439.2	448.7	448.7	458.2	467.8	483.1	137.5°	369.5
406.7	402.9	410.5	410.5	418.2	416.2	427.7	423.9	433.4	437.2	441.1	140°	391.0
393.3	387.6	393.3	391.4	397.1	391.4	397.1	391.4	397.1	397.1	391.4	142.5°	412.5
380.0	374.2	376.1	368.5	374.2	366.6	368.5	360.9	364.7	360.9	362.8	145°	433.5
366.6	359.0	359.0	349.4	349.4	339.9	343.7	336.0	343.7	349.4	347.5	147.5°	452.5
347.5	341.8	341.8	334.1	338.0	334.1	341.8	338.0	339.9	332.2	318.9	150°	469.0
336.0	339.9	338.0	343.7	339.9	334.1	328.4	317.0	315.0	311.2	303.6	152.5°	486.0
318.9	322.7	313.1	320.8	315.0	317.0	313.1	307.4	303.6	299.8	292.1	155°	503.5
294.0	294.0	286.4	297.9	292.1	303.6	299.8	299.8	296.0	290.2	284.5	157.5°	517.5
273.0	274.9	267.3	276.9	273.0	288.3	286.4	292.1	292.1	288.3	273.0	160°	530.0
259.7	255.9	250.1	259.7	257.8	271.1	273.0	284.5	282.6	284.5	271.1	162.5°	539.0
248.2	240.6	234.9	240.6	240.6	252.0	255.9	269.2	271.1	274.9	267.3	165°	549.0
234.9	225.3	221.5	225.3	225.3	236.8	242.5	252.0	257.8	269.2	265.4	167.5°	558.5
223.4	210.0	206.2	210.0	211.9	223.4	229.1	238.7	246.3	261.6	259.7	170°	565.0
210.0	198.6	194.8	200.5	202.4	213.8	219.6	229.1	234.9	252.0	252.0	172.5°	567.5
194.8	185.2	185.2	187.1	190.9	202.4	206.2	219.6	221.5	242.5	244.4	175°	569.0
181.4	175.7	175.7	177.6	181.4	190.9	192.8	206.2	208.1	229.1	234.9	177.5°	574.0
169.9	166.1	166.1	168.0	169.9	177.6	179.5	192.8	196.7	215.8	225.3	180°	576.0
158.5	154.7	152.7	152.7	158.5	164.2	168.0	181.4	183.3	200.5	211.9		
145.1	141.3	141.3	139.4	145.1	148.9	156.6	164.2	168.0	185.2	192.8		
131.7	127.9	127.9	126.0	129.8	137.5	139.4	147.0	148.9	164.2	171.8		
114.6	110.7	110.7	110.7	114.6	116.5	118.4	126.0	129.8	143.2	150.8		
95.5	91.6	93.6	91.6	97.4	89.7	95.5	103.1	106.9	114.6	110.7		
72.6	66.8	68.7	68.7	70.6	64.9	68.7	72.6	76.4	82.1	80.2		
45.8	40.1	43.9	40.1	43.9	38.2	42.0	42.0	45.8	42.0	40.1		
9.5	3.8	9.5	3.8	11.5	0.0	5.7	0.0	3.8	1.9	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.0	6.5	7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0		
28.5	29.2	30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0		
49.0	49.5	50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0		
70.0	70.5	71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0		
91.5	91.8	92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0		
113.5	113.8	114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0		

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REPORT NUMBER: P227557
 CATALOG NUMBER: ISS-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
135.8	136.0	136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	0°	756.1	756.1
158.0	158.0	158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	2.5°	685.5	677.8
180.8	181.0	180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	5°	588.1	574.7
204.0	204.0	204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	7.5°	528.9	525.1
228.2	228.0	228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	10°	517.4	523.2
254.0	254.0	253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	12.5°	530.8	540.4
277.2	277.0	277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	15°	548.0	565.2
301.2	301.0	301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	17.5°	561.4	584.3
325.2	325.0	325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	20°	563.3	586.2
348.2	348.0	348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	22.5°	546.1	561.4
369.2	369.0	369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	25°	502.2	509.8
390.5	390.0	390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	27.5°	446.8	444.9
412.2	412.0	412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	30°	389.5	385.7
433.2	433.0	433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	32.5°	368.5	355.1
452.2	452.0	452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	35°	336.0	332.2
469.0	469.0	469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	37.5°	324.6	357.1
486.0	486.0	486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	40°	311.2	351.3
503.2	503.0	503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	42.5°	299.8	322.7
517.2	517.0	517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	45°	278.8	288.3
530.0	530.0	530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	47.5°	269.2	265.4
539.5	540.0	540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	50°	261.6	261.6
549.5	550.0	550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	52.5°	255.9	252.0
558.2	558.0	558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	55°	248.2	244.4
564.5	564.0	564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	57.5°	242.5	232.9
567.2	567.0	567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	60°	236.8	227.2
569.5	570.0	570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	62.5°	232.9	221.5
574.0	574.0	574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	65°	227.2	215.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	219.6	204.3
										70°	204.3	190.9
										72.5°	189.0	173.8
										75°	166.1	152.7
										77.5°	139.4	124.1
										80°	105.0	95.5
										82.5°	76.4	64.9
										85°	34.4	24.8
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.0	2.0
										100°	14.0	10.0
										102.5°	38.0	32.0
										105°	61.0	56.0
										107.5°	84.0	80.0
										110°	106.0	103.0



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tinued):

175°	180°
756.1	756.1
674.0	672.1
570.9	567.1
525.1	523.2
525.1	525.1
548.0	548.0
574.7	574.7
593.8	595.7
599.5	601.5
570.9	570.9
515.5	515.5
443.0	450.6
378.1	385.7
336.0	341.8
322.7	324.6
355.1	357.1
349.4	353.2
299.8	301.7
269.2	269.2
257.8	255.9
257.8	253.9
265.4	263.5
253.9	253.9
248.2	248.2
242.5	242.5
240.6	238.7
240.6	236.8
236.8	231.0
223.4	208.1
190.9	177.6
154.7	152.7
120.3	122.2
91.6	91.6
66.8	55.4
19.1	19.1
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.0	8.0
28.0	28.0
54.0	54.0
77.0	78.0
102.0	101.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
112.5°	129.0	126.0	124.0
115°	151.0	149.0	147.0
117.5°	174.0	172.0	170.0
120°	198.0	196.0	195.0
122.5°	223.0	221.0	220.0
125°	248.0	247.0	246.0
127.5°	272.0	270.0	269.0
130°	294.0	293.0	292.0
132.5°	318.0	317.0	314.0
135°	341.0	339.0	337.0
137.5°	364.0	363.0	360.0
140°	386.0	385.0	383.0
142.5°	407.0	408.0	406.0
145°	428.0	428.0	426.0
147.5°	448.0	447.0	444.0
150°	465.0	464.0	462.0
152.5°	482.0	483.0	480.0
155°	501.0	502.0	500.0
157.5°	516.0	517.0	515.0
160°	529.0	529.0	527.0
162.5°	538.0	539.0	536.0
165°	548.0	549.0	547.0
167.5°	558.0	559.0	556.0
170°	565.0	566.0	563.0
172.5°	567.0	569.0	566.0
175°	569.0	570.0	569.0
177.5°	574.0	575.0	573.0
180°	576.0	576.0	576.0



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<u>180°</u>
124.0
146.0
169.0
193.0
219.0
244.0
267.0
290.0
313.0
336.0
359.0
382.0
404.0
425.0
444.0
461.0
479.0
499.0
513.0
525.0
535.0
546.0
555.0
562.0
565.0
567.0
572.0
576.0

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