

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: P146055

Luminaire Tested: **LDRL-SLR-F04-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146055
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SLR-F04-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8894 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

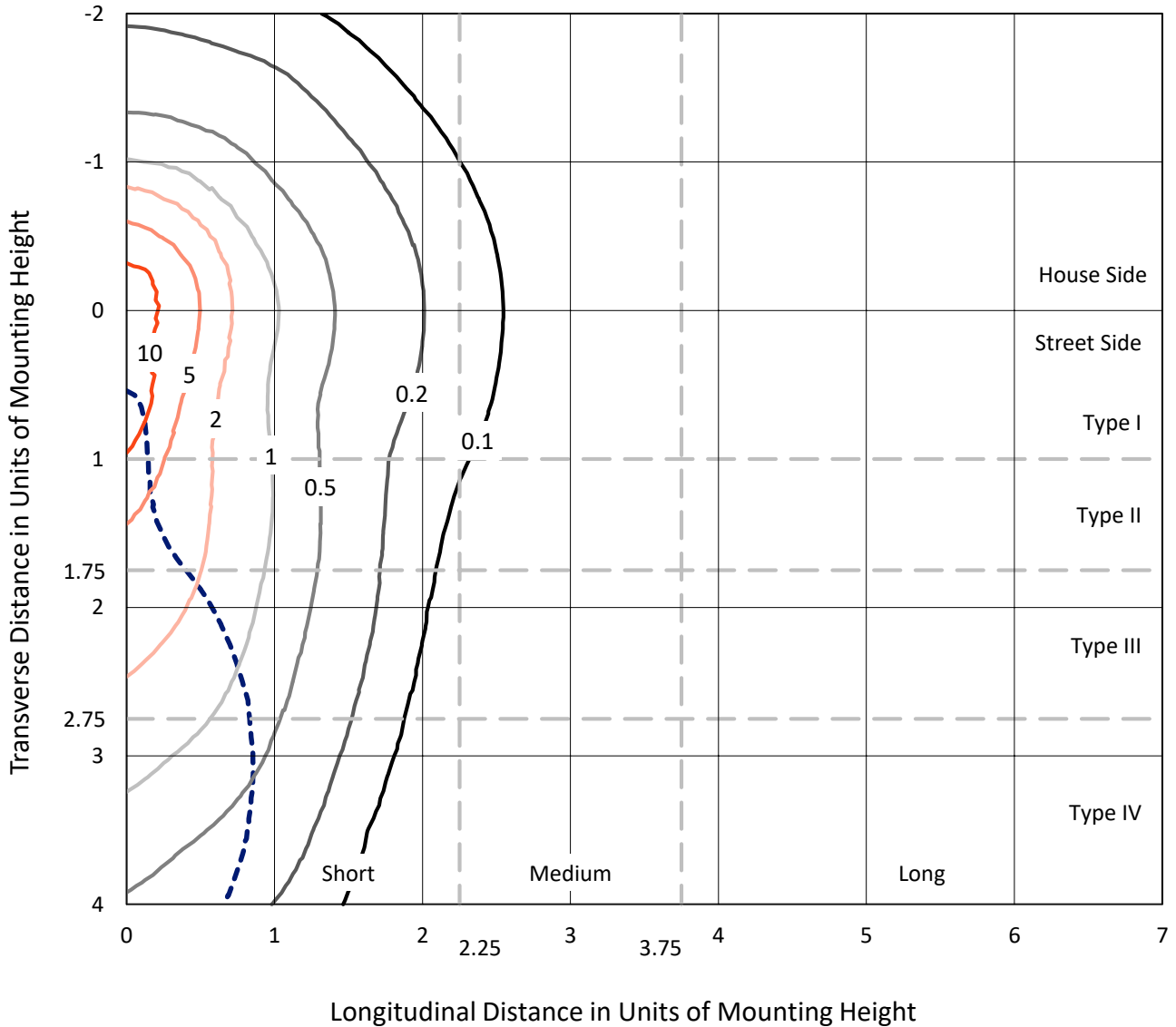
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

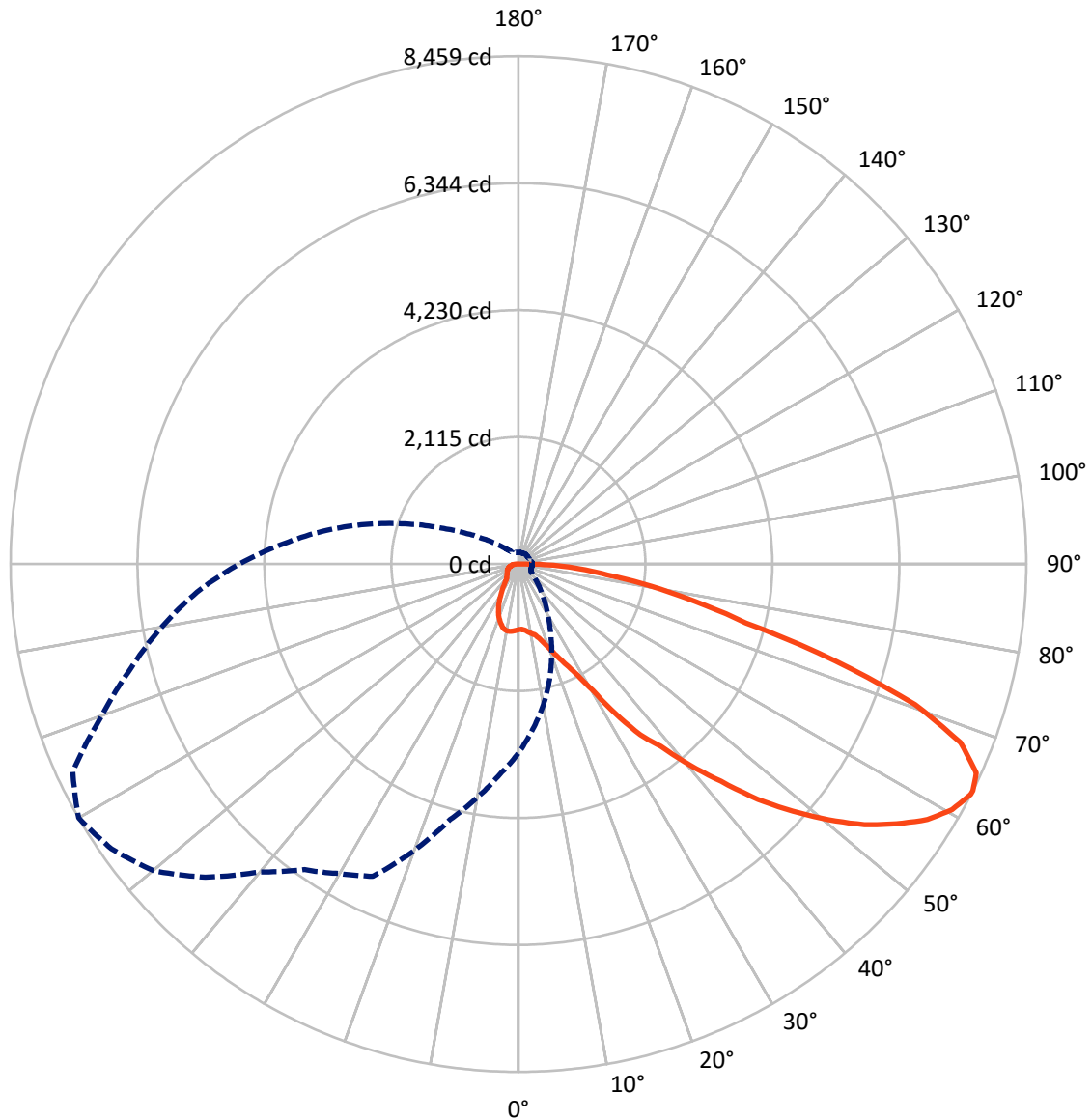
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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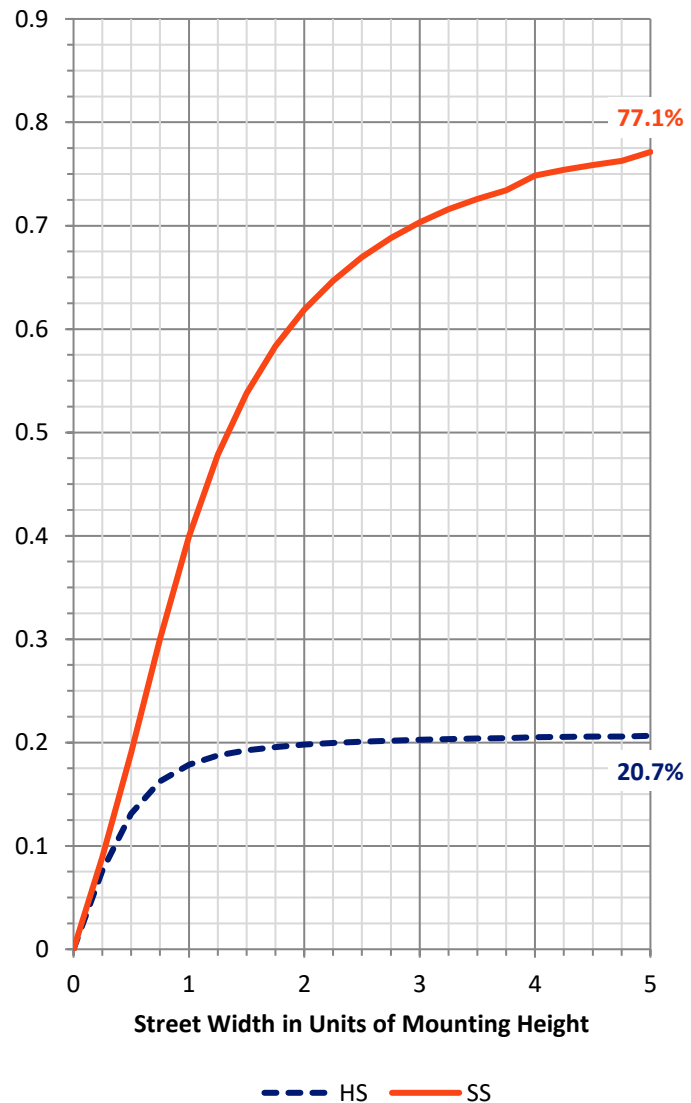
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.8	0.0	1861.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7032.2	0.0	7032.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	8894.0	0.0	8894.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.2
10°-20°	334.8	3.8
20°-30°	592.1	6.7
30°-40°	934.8	10.5
40°-50°	1374.6	15.5
50°-60°	1810.7	20.4
60°-70°	2018.2	22.7
70°-80°	1326.0	14.9
80°-90°	395.4	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8894.0	100.0
0°-180°	8894.0	100.0



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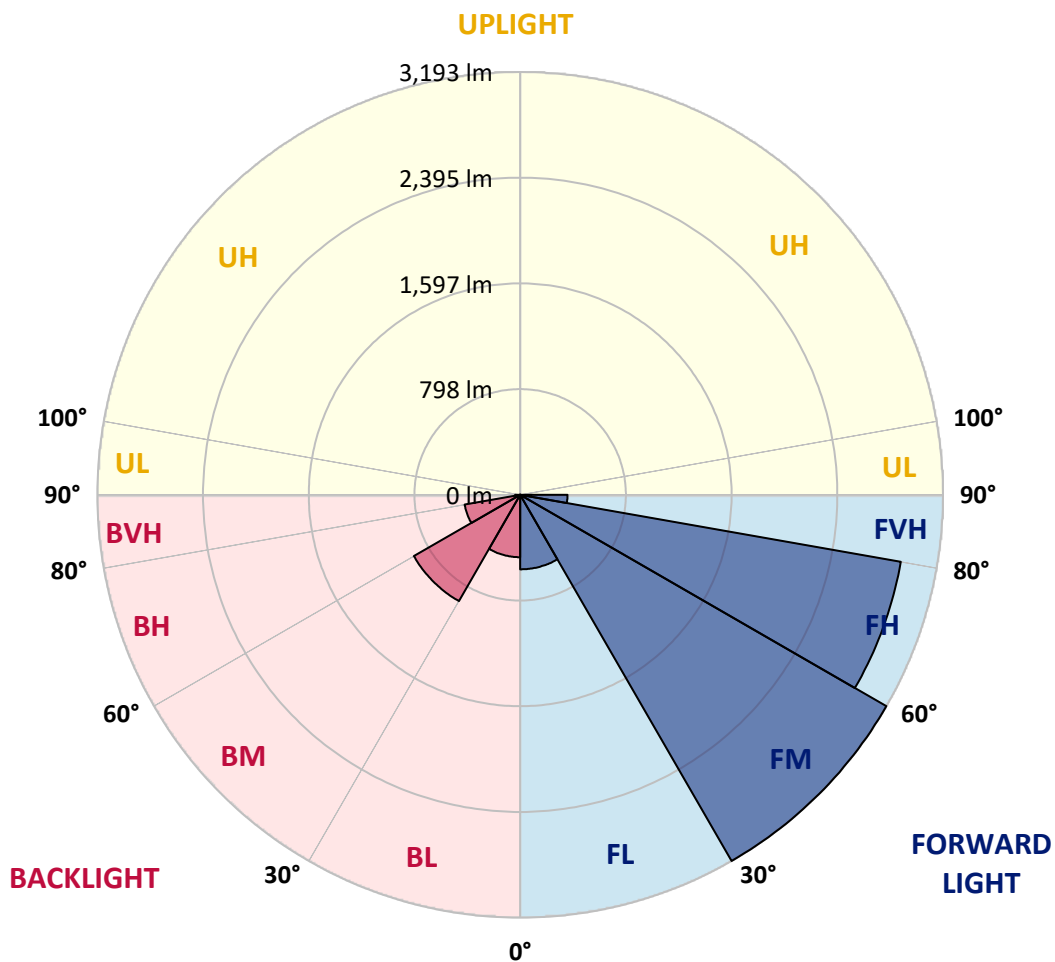
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	562.9	6.3			
FM	(30°-60°)	3193.2	35.9			
FH	(60°-80°)	2918.7	32.8			G2/5000
FVH	(80°-90°)	357.4	4.0			G3/500
BL	(0°-30°)	471.3	5.3	B1/500		
BM	(30°-60°)	926.9	10.4	B1/1000		
BH	(60°-80°)	425.5	4.8	B1/500		G1/500
BVH	(80°-90°)	38.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1091.0	1093.0	1093.0	1091.0	1093.0	1092.3	1092.3	1094.3	1095.0	1098.3	1096.3
5°	1085.7	1086.4	1087.1	1085.7	1086.4	1086.4	1087.7	1089.7	1090.4	1094.3	1092.3
7.5°	1079.8	1081.1	1078.5	1079.1	1081.1	1083.7	1083.7	1086.4	1091.0	1093.0	1092.3
10°	1083.1	1081.8	1079.8	1079.1	1080.4	1081.1	1082.4	1087.1	1091.0	1093.0	1096.3
12.5°	1108.8	1104.9	1102.9	1102.2	1102.9	1101.6	1106.2	1107.5	1108.8	1111.5	1110.2
15°	1157.7	1152.4	1149.1	1145.8	1153.1	1149.8	1149.8	1145.8	1139.2	1129.3	1116.8
17.5°	1225.7	1219.8	1217.2	1215.8	1216.5	1210.5	1198.7	1179.5	1156.4	1130.0	1105.5
20°	1323.5	1332.7	1328.8	1310.9	1304.3	1277.9	1240.3	1200.6	1160.4	1118.1	1077.8
22.5°	1492.5	1487.3	1469.4	1425.2	1385.6	1326.1	1258.8	1194.7	1135.3	1073.8	1021.0
25°	1688.7	1644.4	1594.3	1507.1	1415.9	1318.2	1221.1	1145.2	1065.9	998.6	935.2
27.5°	1929.1	1833.3	1705.2	1563.2	1427.2	1297.1	1182.2	1081.8	991.3	919.3	848.6
30°	2165.5	2005.7	1827.4	1639.2	1455.6	1279.9	1128.0	1011.8	907.4	815.0	743.6
32.5°	2329.3	2135.8	1913.9	1681.4	1458.2	1252.2	1068.6	929.9	812.3	719.2	633.3
35°	2464.0	2222.3	1944.3	1674.8	1415.9	1187.4	983.4	829.5	704.7	608.2	533.0
37.5°	2556.5	2266.6	1942.3	1636.5	1340.7	1084.4	885.6	729.1	612.9	523.1	453.7
40°	2621.2	2280.4	1916.5	1571.1	1254.1	984.7	781.3	638.6	536.9	466.9	416.7
42.5°	2652.2	2271.2	1878.2	1509.1	1168.3	904.1	702.7	577.9	495.3	442.5	405.5
45°	2665.5	2248.7	1835.3	1448.3	1098.3	834.8	662.4	559.4	494.7	449.1	408.8
47.5°	2662.2	2224.3	1797.0	1398.1	1056.7	816.3	670.3	584.5	519.1	462.3	410.8
50°	2652.9	2201.8	1772.6	1379.6	1056.0	844.0	714.6	626.7	547.5	474.2	408.8
52.5°	2652.2	2199.9	1785.8	1401.4	1094.3	906.8	781.3	675.6	575.2	487.4	409.5
55°	2668.1	2235.5	1841.9	1460.2	1186.8	994.6	856.6	727.8	606.3	496.6	407.5
57.5°	2732.2	2324.7	1948.2	1591.6	1305.7	1101.6	929.2	766.7	618.2	494.0	398.2
60°	2872.8	2481.2	2112.0	1777.2	1458.2	1199.3	972.1	780.0	612.9	478.1	378.4
62.5°	3092.1	2707.7	2336.6	1959.5	1593.6	1258.1	982.0	769.4	591.7	451.7	354.0
63°	3148.2	2759.9	2382.1	1997.1	1616.7	1264.0	981.4	765.4	585.8	445.1	348.0
65°	3382.7	2983.8	2565.1	2121.3	1678.8	1275.9	966.2	740.3	559.4	414.1	321.0
67.5°	3735.3	3230.8	2746.7	2236.8	1713.1	1254.8	918.6	678.3	491.4	359.9	280.7
70°	3970.4	3394.6	2855.0	2274.5	1672.8	1158.4	809.7	568.6	401.5	296.5	239.7
72.5°	3976.4	3247.9	2708.4	2079.0	1444.3	955.6	634.0	429.9	312.4	241.1	206.7
75°	3551.7	2744.7	2213.7	1707.2	1111.5	675.6	445.8	313.7	239.7	198.8	179.0
77.5°	2640.4	2002.4	1597.6	1148.5	721.8	437.9	310.4	232.5	190.2	164.4	149.9
80°	1638.5	1251.5	969.5	686.8	432.6	291.2	227.2	184.9	159.8	137.4	125.5
82.5°	988.0	700.7	547.5	414.7	276.7	210.0	175.0	155.9	135.4	115.6	106.3
85°	723.8	501.3	367.2	256.2	171.0	138.7	122.8	118.9	105.0	89.2	83.9
87.5°	227.8	239.1	248.3	151.2	82.6	62.7	53.5	62.7	60.1	42.3	46.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1099.6	1102.2	1100.3	1100.3	1098.9	1098.3	1102.9	1101.6	1102.9	1102.2	1103.6
5°	1095.6	1097.6	1096.3	1097.6	1096.3	1096.3	1102.2	1102.2	1104.9	1106.2	1109.5
7.5°	1097.0	1097.6	1097.0	1098.9	1097.6	1096.3	1099.6	1101.6	1106.2	1110.2	1113.5
10°	1101.6	1103.6	1102.9	1102.9	1098.9	1096.3	1098.3	1099.6	1104.2	1106.2	1110.2
12.5°	1112.8	1110.2	1104.9	1101.6	1092.3	1087.1	1084.4	1083.1	1086.4	1089.0	1091.0
15°	1110.2	1095.6	1083.7	1073.8	1060.0	1051.4	1044.8	1044.1	1044.8	1045.4	1047.4
17.5°	1083.1	1063.3	1039.5	1027.0	1011.1	1001.9	997.2	993.9	993.3	994.6	997.9
20°	1044.1	1015.1	988.6	966.9	949.7	935.2	938.5	931.2	934.5	936.5	942.4
22.5°	984.7	944.4	914.0	887.6	867.1	851.9	851.9	845.3	846.7	852.6	860.5
25°	888.3	850.6	807.0	788.5	765.4	754.9	752.9	751.6	756.8	764.1	768.7
27.5°	801.1	749.6	706.6	682.2	657.8	660.4	647.2	655.1	661.1	667.0	672.3
30°	683.5	641.3	602.3	577.9	548.8	549.5	551.5	552.8	558.1	566.0	576.5
32.5°	570.6	525.0	488.7	462.3	445.1	439.8	432.6	444.5	451.1	459.0	469.6
35°	477.5	429.9	399.6	376.4	366.5	359.3	357.3	356.0	361.9	365.9	374.5
37.5°	410.8	378.4	356.0	339.5	330.2	322.3	320.3	319.0	318.3	317.0	322.3
40°	383.7	357.9	338.8	323.6	315.0	310.4	308.4	305.8	303.1	299.8	299.2
42.5°	375.8	348.0	325.6	310.4	303.8	303.1	303.1	301.8	299.2	294.5	291.2
45°	372.5	338.8	313.0	301.2	296.5	297.2	297.2	297.2	295.2	290.6	285.3
47.5°	366.5	327.6	301.2	291.2	289.3	290.6	291.9	291.9	290.6	286.6	280.7
50°	355.3	310.4	282.7	273.4	272.8	273.4	273.4	274.7	273.4	270.1	264.8
52.5°	346.7	297.2	268.8	261.5	261.5	260.9	260.2	260.2	259.5	256.9	252.9
55°	338.8	288.6	262.8	256.9	258.2	258.2	256.9	256.2	253.6	250.3	246.3
57.5°	327.6	279.4	256.9	252.9	254.3	253.6	252.9	252.3	249.6	245.7	240.4
60°	307.8	262.8	245.0	242.4	244.4	245.0	247.7	248.3	247.0	242.4	235.1
62.5°	286.0	242.4	229.2	227.2	229.2	231.1	233.1	231.8	231.8	227.2	220.6
63°	278.7	239.1	224.5	224.5	226.5	228.5	229.8	228.5	229.2	223.9	217.3
65°	262.2	227.2	216.0	216.6	218.6	219.9	220.6	220.6	219.9	216.0	210.0
67.5°	234.4	210.0	203.4	206.7	209.4	210.0	210.0	211.3	210.0	207.4	202.1
70°	209.4	193.5	188.9	192.8	194.2	194.8	194.8	194.8	193.5	190.9	186.2
72.5°	190.2	182.3	181.6	181.0	181.6	179.6	179.6	178.3	175.0	173.0	169.1
75°	169.1	165.1	165.8	165.1	163.8	163.1	159.8	158.5	154.5	151.9	146.6
77.5°	145.3	146.0	145.3	146.0	147.3	147.9	143.3	140.0	136.7	134.1	131.4
80°	120.9	122.2	120.9	122.2	122.8	122.8	118.2	112.9	110.3	112.3	112.9
82.5°	107.6	107.6	102.4	103.7	102.4	100.4	97.1	95.1	93.1	91.8	95.1
85°	85.2	85.9	87.2	85.9	83.2	81.2	77.9	75.3	73.3	75.3	79.9
87.5°	50.9	54.8	52.8	52.8	52.2	52.2	49.5	48.2	46.2	54.2	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1102.9	1104.9	1105.5	1104.9	1105.5	1106.9	1101.6	1106.9	1107.5	1103.6	1104.9
5°	1112.1	1115.4	1120.1	1120.1	1123.4	1125.4	1122.7	1130.0	1131.3	1130.6	1133.9
7.5°	1118.8	1123.4	1129.3	1132.6	1138.6	1141.2	1143.2	1149.8	1151.1	1153.8	1156.4
10°	1118.1	1124.7	1130.0	1139.2	1146.5	1151.8	1155.7	1163.0	1165.6	1169.6	1171.6
12.5°	1098.9	1106.2	1116.1	1129.3	1142.5	1151.1	1161.7	1172.2	1176.2	1181.5	1184.8
15°	1056.0	1062.0	1075.8	1093.0	1110.8	1132.6	1147.8	1164.3	1171.6	1176.9	1181.5
17.5°	999.9	1005.2	1017.7	1032.9	1056.7	1077.8	1100.9	1126.0	1138.6	1144.5	1146.5
20°	947.7	955.6	958.9	976.8	984.7	1005.8	1025.6	1053.4	1069.2	1079.8	1086.4
22.5°	865.8	869.8	886.9	894.2	900.2	913.4	937.8	962.2	983.4	1000.5	1005.8
25°	775.3	785.9	795.1	801.1	815.0	815.6	835.4	852.6	879.0	895.5	908.7
27.5°	675.6	691.5	696.7	700.7	711.3	723.8	731.1	748.3	763.4	782.6	806.4
30°	575.2	590.4	601.0	606.9	616.8	628.7	634.0	645.2	665.0	686.2	704.7
32.5°	481.4	497.3	502.6	521.7	524.4	535.6	539.6	557.4	568.6	586.5	608.2
35°	389.6	406.2	422.0	432.6	444.5	443.8	454.4	470.9	480.8	499.3	513.8
37.5°	326.9	336.8	348.0	359.9	373.1	383.0	392.9	400.2	408.1	420.7	433.9
40°	299.2	301.8	306.4	313.7	322.9	330.2	337.5	343.4	349.4	359.3	367.9
42.5°	287.9	286.0	286.0	284.6	287.9	291.9	297.8	299.8	309.1	315.0	318.3
45°	280.0	275.4	272.1	268.1	266.8	268.1	271.4	276.1	282.0	284.0	284.0
47.5°	275.4	268.1	262.8	256.9	253.6	253.6	255.6	258.9	262.2	262.8	262.2
50°	259.5	252.3	245.7	240.4	237.8	237.8	238.4	243.0	243.7	242.4	243.0
52.5°	247.7	240.4	233.8	229.2	225.9	226.5	228.5	230.5	232.5	231.1	229.8
55°	240.4	231.8	225.9	220.6	216.6	217.9	219.9	222.6	225.9	223.9	221.9
57.5°	233.8	226.5	219.3	214.0	209.4	210.7	212.7	216.6	220.6	216.6	214.0
60°	227.8	220.6	213.3	208.0	202.7	204.1	206.7	210.7	214.0	208.7	205.4
62.5°	213.3	206.7	201.4	198.8	195.5	197.5	199.4	204.1	202.7	197.5	193.5
63°	210.7	204.1	199.4	196.8	194.2	196.8	197.5	202.1	200.1	194.8	191.5
65°	202.7	197.5	192.8	190.2	187.6	188.9	188.9	190.9	188.2	184.3	181.6
67.5°	195.5	189.5	184.9	179.6	177.0	175.7	175.0	174.4	172.4	170.4	169.7
70°	179.6	175.7	171.7	167.1	163.1	160.5	159.2	157.8	156.5	155.9	155.2
72.5°	162.5	159.2	155.2	152.6	149.3	147.3	144.0	143.3	142.0	140.7	140.0
75°	144.0	140.0	138.7	136.0	134.1	132.7	130.1	129.4	128.1	126.1	125.5
77.5°	127.5	126.1	124.2	123.5	120.2	118.2	116.9	116.2	114.9	113.6	112.3
80°	113.6	112.9	111.6	111.0	109.0	106.3	105.0	105.7	103.7	103.0	101.0
82.5°	102.4	103.0	103.0	101.0	99.1	95.8	94.4	96.4	95.1	92.5	89.8
85°	87.2	86.5	87.2	86.5	82.6	79.3	77.9	79.3	78.6	74.6	74.0
87.5°	62.1	61.4	60.1	64.1	58.8	47.6	48.9	55.5	53.5	51.5	50.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1107.5	1105.5	1106.9	1107.5	1105.5	1110.2	1105.5	1106.2	1107.5	1103.6	1102.9
5°	1136.6	1136.6	1141.9	1142.5	1141.9	1147.8	1147.1	1147.8	1146.5	1145.8	1143.2
7.5°	1160.4	1163.0	1167.0	1172.9	1174.9	1179.5	1180.8	1181.5	1184.1	1186.8	1185.5
10°	1177.5	1184.8	1188.1	1194.0	1200.0	1203.3	1206.6	1211.9	1213.9	1215.8	1213.2
12.5°	1189.4	1198.0	1203.3	1210.5	1217.8	1223.1	1229.0	1235.6	1242.2	1244.2	1240.9
15°	1183.5	1193.4	1201.3	1209.2	1220.5	1230.4	1241.6	1253.5	1262.1	1265.4	1261.4
17.5°	1146.5	1156.4	1168.3	1180.2	1192.1	1210.5	1226.4	1246.2	1260.1	1270.0	1271.3
20°	1095.6	1101.6	1118.8	1130.6	1149.8	1171.6	1195.4	1218.5	1234.3	1252.2	1262.7
22.5°	1020.3	1032.2	1051.4	1071.9	1091.0	1119.4	1144.5	1174.9	1202.0	1226.4	1249.5
25°	928.6	945.1	967.5	995.9	1021.0	1051.4	1087.7	1121.4	1167.0	1205.3	1254.8
27.5°	829.5	859.9	890.9	920.6	948.4	982.7	1020.3	1058.0	1110.2	1171.6	1236.3
30°	735.7	760.8	799.8	834.1	866.5	908.7	947.7	989.3	1038.8	1111.5	1184.8
32.5°	638.0	658.4	688.8	731.1	768.7	818.3	852.6	902.1	959.6	1036.2	1119.4
35°	536.9	565.3	589.8	618.8	647.2	696.7	748.3	803.1	869.1	951.0	1042.1
37.5°	447.8	465.6	477.5	507.2	532.3	574.6	634.7	700.7	773.4	856.6	954.3
40°	373.8	385.0	398.2	418.0	439.2	477.5	533.0	606.9	682.9	766.1	863.8
42.5°	322.9	330.2	331.5	346.7	366.5	404.2	448.4	516.4	600.3	687.5	785.2
45°	287.9	287.9	287.3	293.9	309.7	342.1	382.4	443.1	523.1	614.2	715.9
47.5°	263.5	265.5	264.8	267.5	278.0	301.8	338.1	389.6	462.3	551.5	653.8
50°	245.0	247.7	248.3	249.0	252.9	272.8	303.8	345.4	410.1	495.3	598.3
52.5°	230.5	231.1	231.1	230.5	231.8	243.0	268.8	307.1	367.2	443.8	542.9
55°	222.6	223.2	223.2	223.2	223.2	230.5	249.0	280.0	328.2	400.2	490.0
57.5°	213.3	213.3	214.6	214.6	214.6	217.3	230.5	256.2	293.2	350.7	430.6
60°	205.4	207.4	210.0	210.7	210.0	210.0	216.6	233.8	258.2	299.8	367.2
62.5°	193.5	196.1	199.4	200.8	201.4	200.1	203.4	210.7	225.2	247.0	292.6
63°	191.5	194.2	196.8	198.1	198.8	197.5	200.1	206.1	217.9	235.8	276.7
65°	182.9	186.2	186.9	187.6	186.9	186.2	185.6	185.6	188.9	195.5	217.3
67.5°	171.0	173.0	173.0	174.4	171.0	169.7	168.4	167.1	165.1	165.8	173.7
70°	157.2	158.5	157.8	157.2	155.9	153.9	152.6	150.6	146.6	145.3	149.3
72.5°	141.3	142.7	142.7	142.7	140.0	138.7	137.4	136.0	134.7	136.0	137.4
75°	126.8	126.8	128.1	127.5	125.5	124.2	123.5	122.8	122.8	122.8	122.2
77.5°	112.9	112.3	112.3	110.3	109.0	108.3	109.6	110.3	109.6	108.3	107.6
80°	101.0	97.7	94.4	91.8	91.1	92.5	93.8	97.7	95.8	95.8	94.4
82.5°	85.9	78.6	74.0	74.6	72.6	73.3	74.6	79.3	77.9	78.6	81.2
85°	68.7	62.1	54.8	56.1	56.1	54.8	58.1	59.4	60.8	64.1	61.4
87.5°	48.2	42.3	35.0	30.4	31.7	33.0	34.3	33.0	29.1	30.4	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
2.5°	1101.6	1102.2	1102.2	1097.6	1096.3	1097.6	1097.0	1097.0	1093.0	1093.7	1092.3
5°	1141.9	1143.2	1139.2	1135.9	1131.3	1130.6	1130.0	1127.3	1124.7	1119.4	1116.8
7.5°	1184.8	1178.8	1177.5	1171.6	1169.6	1164.3	1160.4	1156.4	1153.1	1150.5	1148.5
10°	1211.9	1207.2	1205.9	1195.4	1192.1	1185.5	1181.5	1176.9	1172.9	1168.9	1168.3
12.5°	1236.3	1228.4	1223.8	1209.2	1202.6	1195.4	1192.1	1188.1	1186.8	1186.1	1188.8
15°	1255.5	1244.2	1235.6	1222.4	1217.2	1213.2	1213.9	1211.9	1219.8	1224.4	1233.0
17.5°	1268.0	1263.4	1261.4	1251.5	1254.8	1254.8	1264.0	1268.7	1283.2	1295.1	1307.0
20°	1274.6	1283.2	1299.7	1303.0	1310.9	1319.5	1333.4	1341.3	1356.5	1373.7	1390.2
22.5°	1280.6	1316.9	1350.6	1375.7	1393.5	1413.3	1423.2	1439.7	1450.3	1462.8	1487.9
25°	1313.6	1374.3	1433.8	1466.1	1508.4	1536.8	1559.3	1575.8	1594.3	1604.8	1633.2
27.5°	1304.3	1381.6	1460.8	1520.3	1586.3	1639.8	1687.4	1719.1	1742.8	1781.2	1804.9
30°	1262.1	1351.9	1447.6	1532.2	1624.6	1711.8	1794.4	1868.3	1931.7	1983.2	2018.2
32.5°	1202.0	1305.0	1417.3	1521.6	1639.8	1756.1	1874.9	1987.9	2095.5	2180.7	2234.2
35°	1134.6	1245.6	1369.7	1493.2	1635.2	1787.1	1947.6	2099.5	2255.3	2391.4	2498.4
37.5°	1052.7	1172.9	1309.0	1452.3	1615.4	1797.7	1999.8	2206.5	2405.2	2611.3	2761.9
40°	966.9	1084.4	1225.7	1389.5	1577.7	1792.4	2040.0	2308.2	2596.1	2861.6	3090.8
42.5°	893.5	1008.5	1156.4	1318.2	1520.9	1772.6	2067.1	2399.3	2754.0	3098.0	3402.5
45°	821.6	944.4	1093.7	1264.7	1485.9	1764.6	2102.1	2478.6	2883.4	3291.5	3679.9
47.5°	764.8	886.3	1036.9	1220.5	1457.5	1760.0	2135.1	2552.5	2989.1	3435.5	3895.8
50°	710.6	826.8	973.5	1167.0	1427.8	1752.8	2155.0	2611.3	3071.6	3548.4	4049.0
52.5°	655.1	776.0	918.6	1106.2	1388.9	1738.2	2160.9	2657.5	3156.8	3656.7	4192.3
55°	599.0	719.9	862.5	1056.7	1336.0	1709.8	2156.3	2691.2	3246.0	3771.0	4323.1
57.5°	530.3	649.2	798.4	993.9	1268.0	1653.0	2133.8	2705.7	3301.4	3878.0	4454.5
60°	453.0	565.3	706.6	906.1	1184.8	1571.1	2083.6	2685.3	3326.5	3948.7	4593.9
62.5°	356.0	453.7	583.8	781.9	1063.9	1452.9	1974.0	2594.8	3265.8	3930.8	4654.0
63°	334.2	428.6	562.7	748.9	1028.3	1412.0	1941.6	2563.8	3238.7	3914.3	4646.7
65°	254.9	324.9	435.9	602.3	869.1	1223.1	1771.2	2388.1	3068.3	3749.9	4532.5
67.5°	188.2	224.5	292.6	404.2	611.5	951.7	1451.6	2062.5	2706.4	3347.0	4143.5
70°	155.9	169.7	201.4	258.9	378.4	631.4	1025.6	1569.8	2175.4	2726.9	3446.1
72.5°	139.3	149.3	163.8	189.5	239.1	370.5	667.0	1019.0	1515.0	1991.8	2599.4
75°	124.8	131.4	143.3	158.5	181.0	231.8	352.7	604.3	925.9	1342.0	1783.1
77.5°	109.6	116.2	128.1	140.0	154.5	176.3	218.6	344.1	554.1	783.3	1094.3
80°	95.1	98.4	108.3	125.5	136.0	153.9	167.7	215.3	301.8	410.1	583.2
82.5°	78.6	79.3	85.9	99.1	112.3	118.9	122.8	135.4	173.7	216.6	286.0
85°	56.1	53.5	57.5	62.7	73.3	67.4	72.0	75.9	92.5	111.6	204.7
87.5°	25.1	19.8	23.1	25.8	23.1	15.9	23.1	19.2	23.8	46.9	52.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	0°
2.5°	1093.7	1089.7	1089.7	1089.0	1089.7	1088.4	1085.7	1085.7	1087.7	1087.1	1087.1	2.5°
5°	1116.8	1111.5	1110.2	1109.5	1109.5	1106.2	1102.2	1100.3	1099.6	1097.0	1095.0	5°
7.5°	1147.1	1143.8	1145.8	1141.9	1140.5	1139.9	1134.6	1130.6	1124.7	1122.1	1112.1	7.5°
10°	1172.2	1170.3	1175.5	1174.9	1175.5	1175.5	1168.3	1164.3	1155.7	1151.1	1138.6	10°
12.5°	1194.0	1195.4	1205.3	1205.3	1207.2	1209.9	1205.9	1197.3	1194.0	1189.4	1176.2	12.5°
15°	1249.5	1254.8	1262.1	1274.0	1277.3	1277.9	1281.2	1274.0	1265.4	1253.5	1237.6	15°
17.5°	1324.8	1335.4	1359.8	1377.0	1380.3	1383.6	1381.6	1380.3	1364.4	1354.5	1338.0	17.5°
20°	1419.2	1445.0	1479.3	1503.1	1513.7	1515.0	1528.2	1519.0	1504.4	1484.6	1460.8	20°
22.5°	1524.9	1567.8	1611.4	1646.4	1666.9	1676.1	1690.0	1676.8	1657.7	1645.8	1614.1	22.5°
25°	1669.5	1716.4	1766.6	1794.4	1846.5	1861.7	1869.6	1865.7	1845.9	1854.5	1825.4	25°
27.5°	1867.7	1908.0	1978.6	2013.6	2062.5	2090.9	2084.9	2118.0	2123.9	2144.4	2147.7	27.5°
30°	2083.6	2150.3	2245.4	2316.1	2390.7	2438.9	2477.2	2506.3	2540.0	2596.8	2631.1	30°
32.5°	2316.8	2413.2	2534.7	2684.6	2843.1	2972.6	3118.5	3143.6	3218.9	3197.1	3182.6	32.5°
35°	2576.3	2697.8	2853.7	3050.5	3281.0	3494.9	3635.6	3706.3	3736.0	3752.5	3652.1	35°
37.5°	2923.7	3088.1	3261.8	3476.5	3652.8	3852.9	4014.7	4190.4	4270.9	4232.6	4040.4	37.5°
40°	3308.7	3462.6	3697.7	3873.4	4081.4	4410.9	4630.2	4841.5	4907.6	4780.1	4479.0	40°
42.5°	3695.0	3906.4	4161.3	4410.9	4650.0	4948.5	5239.1	5447.8	5520.5	5302.5	4945.2	42.5°
45°	4039.1	4309.9	4609.7	4866.0	5200.1	5590.5	5946.4	6114.2	6101.0	5750.9	5348.7	45°
47.5°	4339.0	4690.3	5028.4	5373.8	5710.7	6151.2	6503.8	6696.7	6560.0	6192.1	5736.4	47.5°
50°	4586.6	5011.3	5419.4	5816.3	6229.7	6698.0	7038.1	7216.4	7008.4	6542.8	6033.6	50°
52.5°	4774.8	5301.2	5771.4	6215.2	6709.2	7215.1	7517.6	7625.2	7300.9	6814.2	6256.2	52.5°
55°	4952.5	5547.5	6067.9	6571.8	7186.7	7640.4	7923.7	7903.9	7485.2	6932.4	6395.5	55°
57.5°	5086.6	5757.5	6311.6	6885.5	7547.9	8032.7	8196.5	8065.7	7561.8	6967.4	6435.8	57.5°
60°	5255.6	5921.3	6528.3	7168.9	7891.4	8301.5	8323.3	8088.8	7540.0	6901.4	6379.0	60°
62.5°	5363.9	6023.7	6666.3	7363.0	8152.9	8452.7	8296.9	7989.1	7414.5	6738.3	6248.9	62.5°
63°	5374.5	6033.6	6677.5	7382.2	8189.9	8459.3	8272.4	7944.2	7377.6	6693.4	6214.6	63°
65°	5326.9	6005.2	6626.0	7347.8	8199.1	8381.4	8093.4	7759.9	7173.5	6464.2	6012.5	65°
67.5°	4994.8	5700.1	6292.5	6969.4	7842.5	7943.5	7654.9	7292.4	6741.6	5970.2	5570.6	67.5°
70°	4399.7	5070.0	5490.1	6118.8	6886.9	7007.7	6749.5	6468.8	5979.4	5334.9	5003.3	70°
72.5°	3544.5	4202.9	4455.2	4936.6	5546.9	5520.5	5338.8	5303.8	5046.3	4505.4	4305.9	72.5°
75°	2649.6	3276.3	3382.7	3578.8	3919.6	3911.0	3953.3	4103.8	4232.6	3913.0	3657.4	75°
77.5°	1747.5	2370.9	2436.9	2665.5	2759.9	3018.8	3322.6	3701.0	3888.6	3757.8	3444.1	77.5°
80°	966.9	1622.0	1608.8	1697.9	1865.0	2241.5	2701.8	3263.8	3638.9	3545.1	3201.7	80°
82.5°	502.6	1025.0	1009.8	1025.6	1180.8	1497.2	1847.2	2306.8	2694.5	2703.1	2587.5	82.5°
85°	373.8	735.7	779.3	815.0	918.0	1028.3	1092.3	1239.6	1452.3	1650.4	1721.1	85°
87.5°	137.4	441.8	550.1	591.1	593.7	579.8	472.2	519.8	472.9	559.4	781.3	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1092.3	1092.3	1092.3	1092.3	1092.3	1092.3	1092.3
1088.4	1088.4	1087.7	1089.0	1089.7	1091.7	1091.0
1093.0	1091.0	1089.0	1087.7	1086.4	1087.1	1085.7
1104.9	1098.3	1093.0	1088.4	1084.4	1083.7	1079.8
1131.3	1119.4	1109.5	1102.2	1094.3	1090.4	1083.1
1165.0	1151.8	1139.2	1128.7	1119.4	1114.1	1108.8
1223.8	1204.6	1189.4	1178.2	1168.9	1163.0	1157.7
1310.9	1287.2	1264.0	1242.2	1239.6	1225.7	1225.7
1431.1	1398.8	1369.1	1350.6	1342.0	1323.5	1323.5
1597.6	1565.9	1521.6	1499.2	1501.1	1485.3	1492.5
1812.9	1786.4	1740.9	1731.6	1731.6	1714.5	1688.7
2135.8	2126.6	2076.4	2088.9	2062.5	1998.4	1929.1
2615.3	2615.3	2518.2	2448.2	2387.4	2287.7	2165.5
3095.4	3032.6	2884.1	2765.2	2639.0	2486.5	2329.3
3500.9	3333.8	3183.2	3037.9	2848.4	2684.6	2464.0
3843.0	3684.5	3512.1	3290.9	3068.3	2839.8	2556.5
4267.0	4074.1	3815.2	3537.2	3263.8	2949.4	2621.2
4654.6	4412.9	4086.0	3734.0	3386.0	3035.3	2652.2
5019.2	4707.5	4304.0	3881.3	3485.0	3088.1	2665.5
5362.6	4944.6	4475.0	3986.3	3553.1	3116.5	2662.2
5589.1	5118.3	4582.7	4049.7	3594.0	3126.4	2652.9
5731.1	5224.6	4646.1	4084.7	3614.5	3128.4	2652.2
5811.0	5284.7	4680.4	4109.1	3636.9	3140.3	2668.1
5873.1	5332.2	4718.7	4150.7	3690.4	3195.8	2732.2
5931.9	5457.0	4818.4	4227.3	3783.5	3299.5	2872.8
5956.3	5694.1	5021.2	4368.7	3913.6	3465.9	3092.1
5954.3	5739.0	5080.0	4407.6	3948.0	3510.1	3148.2
5882.4	5881.7	5347.4	4593.9	4107.8	3714.9	3382.7
5669.0	5953.0	5643.3	4839.6	4356.1	4052.3	3735.3
5331.6	5866.5	5683.6	4904.3	4532.5	4362.1	3970.4
4750.4	5453.1	5306.5	4628.2	4472.4	4422.8	3976.4
3842.3	4383.9	4321.1	3953.9	4011.4	4113.1	3551.7
3095.4	3078.2	3069.0	2935.6	3179.9	3386.6	2640.4
2585.5	2129.9	1978.0	1926.4	2329.3	2487.8	1638.5
2417.1	1913.2	1534.8	1470.1	1745.5	1830.0	988.0
1847.2	1857.8	1608.1	1378.3	1357.8	1242.9	723.8
904.1	919.3	971.5	886.9	760.8	641.3	227.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)