

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: P146335

Luminaire Tested: **LDRL-T2-F02-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146335
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-T2-F02-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950.8 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

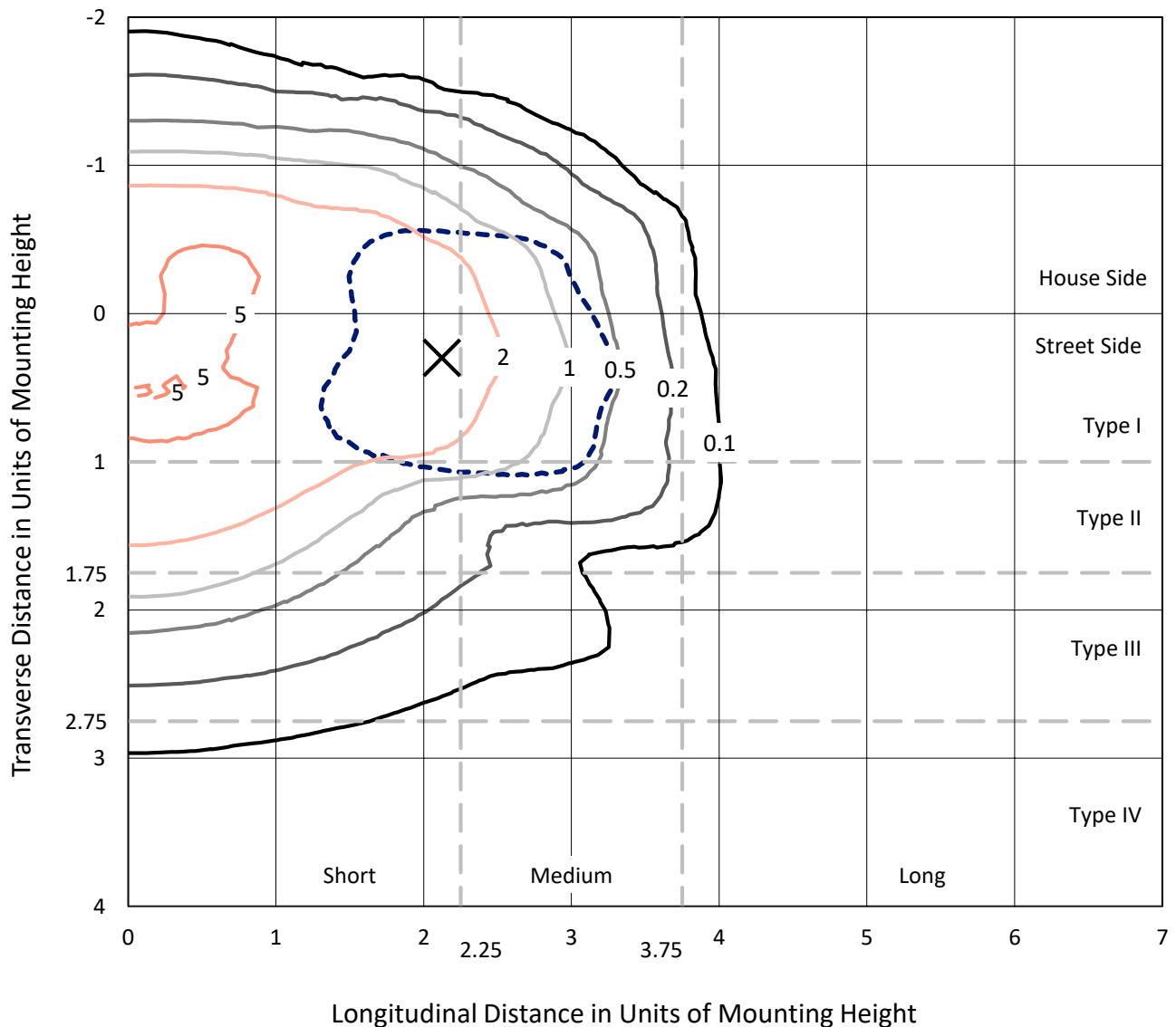
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

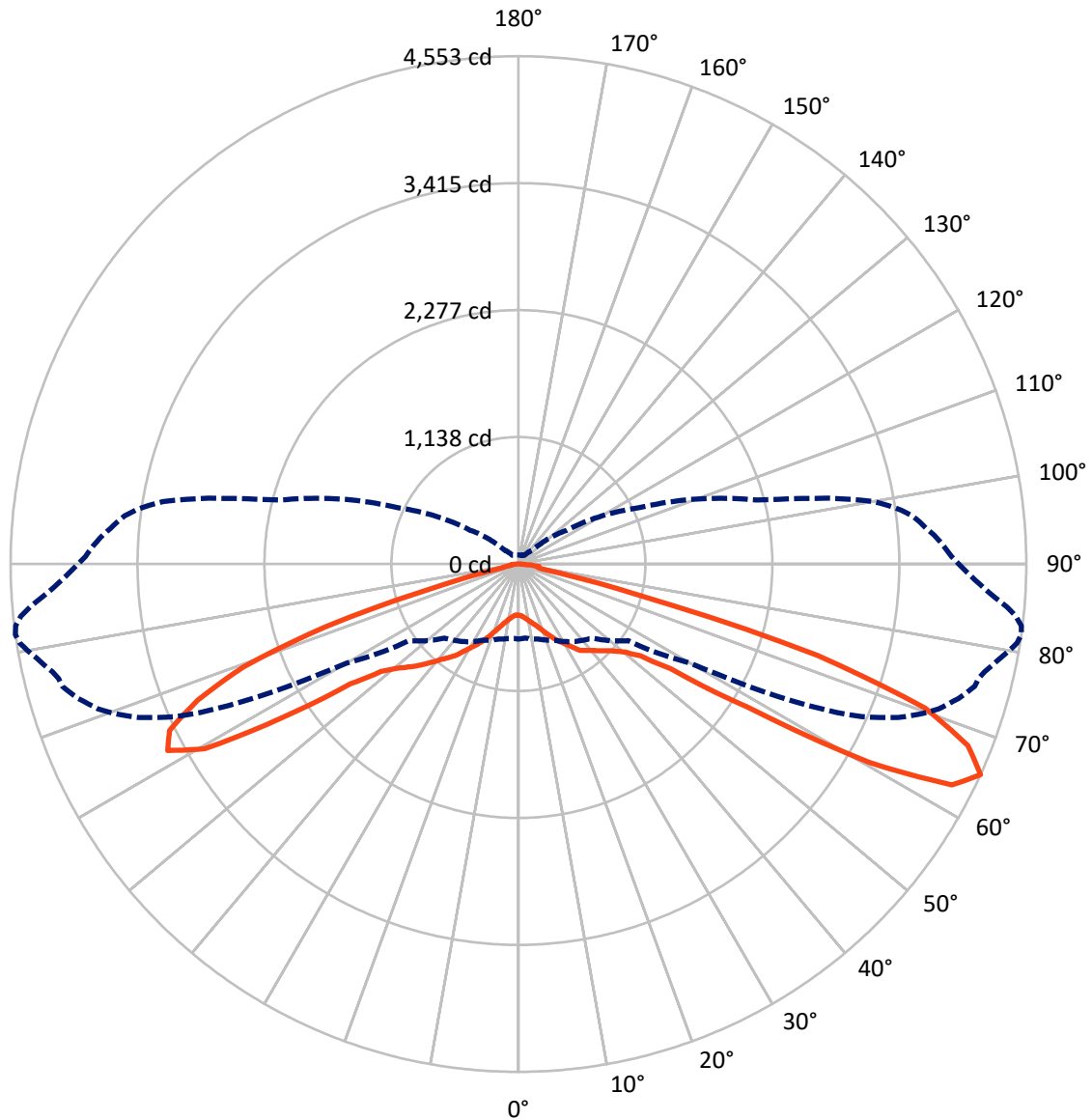
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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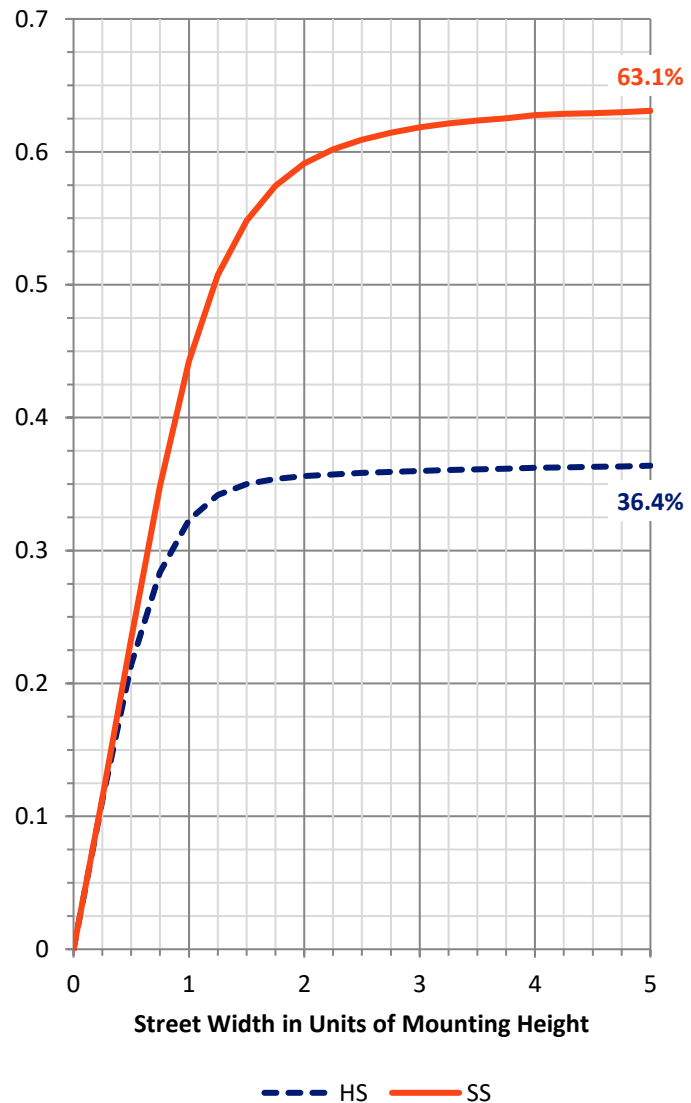
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1822.4	0.0	1822.4
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	3128.4	0.0	3128.4
	% Fixture	63.2	0.0	63.2
Total	Lumens	4950.8	0.0	4950.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	0.9
10°-20°	164.0	3.3
20°-30°	325.2	6.6
30°-40°	554.9	11.2
40°-50°	832.1	16.8
50°-60°	1158.2	23.4
60°-70°	1330.6	26.9
70°-80°	459.2	9.3
80°-90°	80.3	1.6
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°	4950.8	100.0
0°-180°	4950.8	100.0

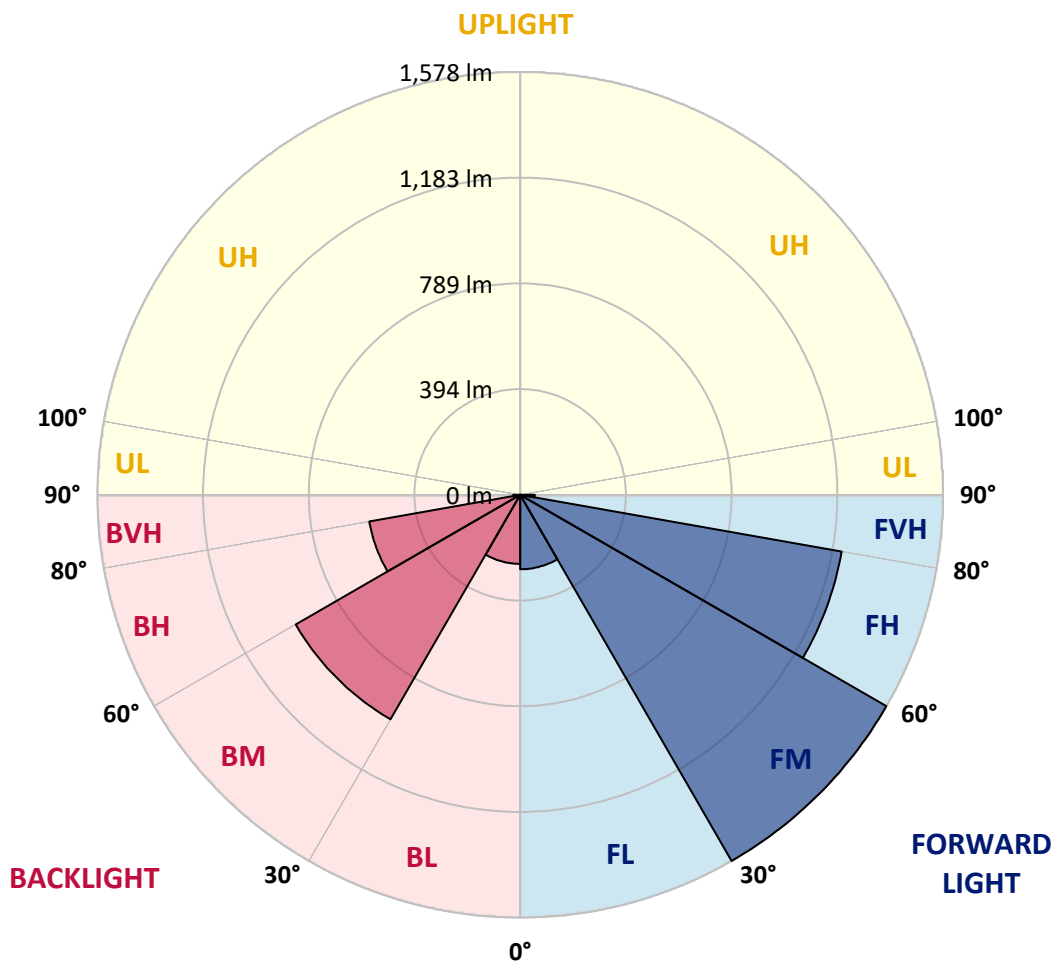


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.9	5.6			
FM	(30°-60°)	1577.9	31.9			
FH	(60°-80°)	1218.1	24.6			G1/1800
FVH	(80°-90°)	54.5	1.1			G1/100
BL	(0°-30°)	257.8	5.2	B1/500		
BM	(30°-60°)	967.2	19.5	B1/1000		
BH	(60°-80°)	571.7	11.5	B2/1000		G2/1000
BVH	(80°-90°)	25.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7
2.5°	484.1	483.8	483.4	482.1	481.4	478.8	476.2	474.5	473.2	473.9	471.9
5°	512.2	512.2	510.8	509.2	507.2	503.6	497.0	493.7	493.0	493.0	490.7
7.5°	540.9	542.9	539.2	537.9	534.6	529.0	521.4	517.1	515.8	515.8	513.8
10°	577.2	576.2	572.3	569.6	563.0	555.4	545.2	540.2	538.2	539.9	536.6
12.5°	615.5	615.2	609.2	604.3	595.0	582.8	569.3	562.7	561.4	561.4	559.4
15°	654.5	654.8	648.2	639.0	624.4	607.9	592.7	586.5	584.8	584.1	581.8
17.5°	684.2	687.5	680.9	669.0	651.2	633.0	616.8	610.6	610.2	609.6	606.9
20°	701.0	701.7	698.1	689.5	673.6	656.1	644.9	641.9	641.6	641.9	642.6
22.5°	700.4	701.4	700.0	696.7	686.5	676.9	675.6	677.3	678.3	677.3	679.6
25°	695.1	696.4	696.4	698.1	695.4	698.7	709.3	713.9	714.2	714.9	719.9
27.5°	706.6	708.0	707.6	710.6	712.9	724.5	743.6	751.9	752.9	755.2	759.8
30°	760.1	760.5	754.5	754.2	756.5	765.8	785.2	794.8	793.8	798.4	801.4
32.5°	844.7	847.3	841.4	835.1	834.1	835.4	839.1	845.7	844.7	847.0	851.0
35°	941.1	941.4	938.1	941.8	943.7	934.8	917.7	916.0	910.7	911.7	913.0
37.5°	1029.6	1031.9	1038.2	1061.3	1074.5	1052.7	1019.0	997.9	994.6	992.9	981.4
40°	1112.5	1124.0	1139.2	1169.3	1187.4	1195.4	1147.5	1104.9	1093.3	1088.7	1070.5
42.5°	1209.6	1215.5	1233.3	1267.7	1291.8	1327.8	1295.7	1248.9	1235.3	1215.5	1192.7
45°	1291.8	1295.7	1307.0	1336.0	1386.6	1446.6	1450.3	1417.6	1407.0	1387.2	1353.9
47.5°	1346.9	1346.6	1354.9	1383.2	1449.0	1540.8	1595.2	1593.9	1581.7	1574.8	1546.4
50°	1368.4	1368.1	1373.3	1405.0	1476.7	1596.9	1717.1	1758.4	1758.0	1760.7	1746.2
52.5°	1372.4	1372.0	1372.7	1398.1	1471.1	1616.4	1804.9	1902.3	1916.5	1934.4	1950.6
55°	1342.6	1345.9	1353.2	1379.9	1450.0	1608.5	1870.0	2037.4	2071.4	2107.7	2166.5
57.5°	1274.0	1280.2	1305.3	1353.2	1427.5	1589.0	1915.2	2204.5	2273.5	2361.3	2520.5
60°	1175.5	1181.2	1215.8	1279.2	1362.1	1504.1	1862.7	2274.5	2405.6	2558.1	2884.4
62.5°	1001.5	1017.4	1035.9	1080.8	1167.6	1281.9	1626.9	2156.3	2359.4	2583.2	3032.3
65°	672.6	666.0	696.7	753.9	849.3	938.1	1198.7	1778.5	2035.4	2343.5	2899.2
67.5°	416.4	417.4	438.2	494.0	566.0	635.0	759.8	1133.6	1361.5	1654.4	2322.7
70°	344.1	348.0	364.9	416.7	478.1	556.1	564.0	601.0	703.0	844.7	1434.8
72.5°	273.1	274.7	291.9	335.2	422.0	529.0	669.7	456.7	448.8	470.2	727.8
75°	169.4	170.7	179.3	207.0	273.7	412.1	737.4	525.0	492.0	464.3	468.9
77.5°	87.5	90.1	94.8	107.3	143.6	230.2	580.5	665.7	628.1	590.4	516.8
80°	49.5	49.5	53.8	56.8	68.0	93.8	295.2	720.5	787.2	803.4	721.5
82.5°	22.1	24.8	33.4	35.7	39.0	42.9	97.7	432.9	600.7	750.2	927.2
85°	13.2	12.9	21.1	23.1	24.1	20.5	36.7	176.7	280.7	410.8	614.5
87.5°	5.3	5.6	8.9	9.6	11.2	8.3	13.9	38.0	55.8	80.9	114.3
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7
2.5°	471.5	471.5	471.2	470.9	470.5	469.6	469.2	468.6	468.2	467.2	466.9
5°	490.4	489.4	489.0	488.4	488.1	486.7	486.7	485.4	484.4	483.1	482.8
7.5°	512.8	511.5	510.5	509.8	509.5	507.2	507.2	505.2	504.9	503.2	502.6
10°	535.6	534.6	533.3	532.6	532.3	531.0	529.7	528.3	527.3	526.4	525.0
12.5°	558.4	556.4	555.7	554.8	554.1	553.1	552.8	549.8	549.8	548.8	547.5
15°	580.5	580.2	577.9	577.5	576.9	577.2	575.2	575.6	574.6	572.9	572.3
17.5°	607.6	605.3	606.3	604.6	604.9	604.3	603.6	603.3	604.0	603.6	604.3
20°	641.3	640.6	641.6	639.3	641.6	641.9	641.3	642.9	642.3	642.9	640.9
22.5°	681.2	678.9	678.9	680.6	681.6	684.5	682.9	684.2	685.5	686.5	685.2
25°	721.5	720.8	722.2	723.5	725.5	728.1	727.5	727.8	730.4	732.1	732.4
27.5°	762.5	762.5	766.4	766.4	769.1	772.0	773.0	774.3	776.3	778.6	778.6
30°	804.7	804.7	808.4	811.7	813.0	816.6	818.6	820.6	824.2	824.9	827.8
32.5°	852.9	853.9	857.6	859.5	862.5	866.8	867.5	869.8	874.1	875.4	877.7
35°	915.7	912.4	915.7	919.3	921.0	919.6	926.9	929.9	932.8	934.5	937.5
37.5°	980.4	974.8	975.1	974.4	970.5	972.8	972.8	972.1	974.1	973.8	975.1
40°	1062.3	1052.4	1049.4	1043.1	1034.5	1029.9	1025.0	1024.3	1019.4	1021.3	1017.7
42.5°	1174.6	1159.7	1151.8	1132.3	1121.7	1109.2	1097.0	1086.4	1080.8	1074.5	1069.9
45°	1328.8	1311.3	1292.1	1260.7	1242.6	1217.5	1201.3	1177.2	1161.0	1147.5	1137.9
47.5°	1522.3	1492.9	1477.4	1448.0	1416.3	1378.3	1343.6	1309.9	1282.5	1252.8	1229.4
50°	1747.1	1710.5	1698.3	1659.3	1641.5	1598.9	1561.9	1520.3	1477.4	1432.5	1389.5
52.5°	1946.3	1942.0	1946.9	1920.8	1920.2	1898.7	1857.8	1809.2	1769.3	1724.0	1667.6
55°	2185.0	2227.6	2236.8	2233.2	2252.7	2252.0	2248.1	2243.1	2211.4	2147.4	2127.9
57.5°	2606.3	2654.2	2724.9	2756.9	2827.6	2835.8	2901.2	2875.8	2924.3	2911.1	2920.0
60°	3035.3	3182.2	3316.3	3418.3	3517.4	3607.5	3717.8	3765.1	3800.4	3855.5	3913.6
62.5°	3227.1	3412.4	3572.2	3717.5	3840.7	3954.9	4049.7	4139.5	4210.2	4273.6	4322.4
65°	3149.5	3364.5	3520.4	3671.9	3786.8	3893.2	3987.3	4054.6	4125.0	4182.4	4234.3
67.5°	2622.2	2908.5	3111.9	3283.9	3428.2	3549.4	3647.2	3740.0	3789.8	3852.6	3880.6
70°	1736.9	2104.1	2391.7	2624.2	2853.0	2990.4	3106.3	3214.3	3271.1	3321.9	3353.3
72.5°	954.0	1204.9	1512.0	1788.4	2008.3	2188.6	2323.7	2426.1	2484.5	2528.1	2482.8
75°	540.6	664.4	814.6	967.5	1134.3	1261.4	1297.1	1340.7	1350.9	1328.4	1270.3
77.5°	497.0	497.0	497.3	493.7	500.9	509.8	504.6	495.6	455.4	446.4	433.9
80°	646.2	575.9	500.6	411.1	335.2	282.7	266.5	267.8	280.7	305.8	333.5
82.5°	916.0	846.7	738.0	601.6	478.8	375.8	308.1	277.0	276.7	301.8	337.8
85°	668.0	673.6	649.5	574.6	458.3	360.9	291.6	223.9	202.1	202.1	199.4
87.5°	116.9	120.5	104.0	93.1	65.1	45.9	41.3	36.3	36.0	37.3	34.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7
2.5°	466.9	466.3	465.6	465.3	465.3	464.6	464.6	463.9	464.3	463.9	463.0
5°	482.1	481.8	480.8	479.1	478.8	477.5	477.8	476.5	476.5	475.8	474.2
7.5°	501.3	500.6	499.9	498.6	497.3	497.3	495.0	495.0	493.3	492.7	491.4
10°	524.0	522.1	521.1	519.8	519.4	519.1	516.8	516.8	514.8	514.5	513.5
12.5°	546.5	545.2	544.2	543.5	541.9	541.5	540.6	539.6	538.6	537.9	537.6
15°	570.9	570.3	569.3	569.3	569.3	567.6	566.6	566.0	566.0	565.0	565.6
17.5°	602.6	603.6	602.3	601.6	600.7	602.3	600.7	600.7	601.6	601.6	599.3
20°	641.9	643.2	641.9	642.3	641.6	641.9	642.3	642.9	644.2	641.9	642.3
22.5°	685.5	685.8	686.8	685.8	687.5	686.5	688.5	690.1	689.8	689.1	689.5
25°	733.1	732.1	732.4	735.4	737.7	737.0	737.4	740.0	739.3	738.7	739.0
27.5°	781.3	780.6	781.6	784.2	786.9	786.6	785.9	787.9	787.9	786.2	786.9
30°	829.2	830.1	831.8	831.8	833.1	834.4	833.4	835.8	836.1	834.8	836.4
32.5°	879.7	881.7	881.0	885.6	885.6	886.0	886.9	886.6	889.9	887.3	888.3
35°	940.4	941.1	945.1	948.4	950.3	952.0	952.0	953.0	954.6	953.3	955.3
37.5°	977.4	978.7	980.1	982.0	982.0	982.0	983.7	984.0	985.0	984.7	985.3
40°	1018.0	1018.4	1018.7	1019.0	1020.3	1021.0	1019.4	1021.7	1020.0	1020.7	1021.7
42.5°	1067.2	1062.6	1063.3	1062.3	1064.6	1061.6	1062.3	1064.9	1063.6	1065.6	1065.6
45°	1124.4	1119.1	1114.5	1111.8	1111.8	1107.9	1108.5	1109.5	1111.2	1113.8	1118.4
47.5°	1208.9	1190.7	1181.8	1172.6	1168.0	1163.0	1164.7	1165.0	1165.6	1169.9	1181.5
50°	1347.3	1316.9	1293.4	1265.4	1254.8	1246.2	1241.3	1241.6	1241.6	1250.5	1262.1
52.5°	1614.7	1558.3	1502.5	1453.6	1411.6	1391.5	1368.1	1362.1	1362.4	1370.0	1378.0
55°	2076.7	1999.1	1940.0	1831.3	1798.3	1705.5	1656.7	1628.6	1606.8	1617.4	1628.9
57.5°	2905.5	2833.9	2787.0	2657.2	2539.0	2505.3	2425.1	2360.0	2333.3	2302.2	2304.2
60°	3922.2	3885.3	3873.4	3797.4	3754.8	3622.4	3611.8	3529.6	3452.0	3385.0	3412.4
62.5°	4360.1	4377.3	4391.1	4417.9	4428.1	4415.6	4362.4	4326.1	4262.4	4174.5	4120.7
65°	4249.5	4288.8	4347.9	4403.7	4470.4	4525.9	4553.3	4542.7	4485.2	4394.8	4281.8
67.5°	3900.8	3940.7	3991.6	4062.2	4164.3	4272.3	4347.5	4395.4	4349.9	4268.3	4153.4
70°	3351.6	3390.6	3392.2	3491.0	3600.9	3737.0	3870.4	3920.6	3868.7	3814.3	3718.2
72.5°	2510.3	2486.8	2508.6	2526.8	2589.5	2675.4	2804.8	2799.2	2719.9	2677.7	2530.1
75°	1179.8	1164.0	1140.9	1125.7	1111.2	1080.8	1095.3	1033.2	1011.8	1020.3	892.9
77.5°	424.3	402.5	367.5	333.5	290.6	240.7	203.1	178.3	166.1	166.4	158.8
80°	356.0	366.5	361.6	327.9	279.7	227.5	170.4	129.1	110.3	102.4	97.4
82.5°	386.0	439.2	465.6	444.8	375.8	289.3	186.2	112.6	82.6	70.7	67.7
85°	214.0	214.3	207.7	198.5	176.0	120.9	80.6	53.5	42.9	38.3	37.0
87.5°	36.3	34.7	34.7	32.4	28.4	27.7	24.8	23.4	20.8	19.2	18.5
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7
2.5°	462.0	461.3	461.0	460.6	460.6	460.3	460.3	459.7	459.0	458.7	458.3
5°	472.5	471.9	471.2	470.5	470.5	469.9	469.2	468.6	467.6	465.9	465.6
7.5°	490.4	489.0	489.0	486.7	486.7	485.4	484.4	484.4	483.1	480.5	480.1
10°	512.5	510.2	509.2	507.9	507.2	505.9	505.9	504.6	503.9	502.9	499.6
12.5°	536.3	534.6	533.9	532.3	531.3	531.3	530.6	528.3	530.0	527.7	526.0
15°	565.0	564.7	561.7	562.7	562.3	562.0	562.3	560.4	560.0	560.0	558.1
17.5°	601.0	598.3	598.7	598.7	599.3	599.3	596.7	598.0	598.3	597.7	597.0
20°	643.2	642.3	643.2	641.3	643.2	643.2	644.6	644.2	644.6	645.2	645.2
22.5°	688.5	691.1	691.5	692.1	689.8	693.8	693.8	694.4	696.1	696.1	696.7
25°	743.3	742.0	740.3	742.6	743.3	745.9	746.6	746.6	749.2	749.2	750.2
27.5°	788.9	790.2	789.9	791.2	790.5	794.2	795.5	799.4	798.4	800.4	803.1
30°	835.8	838.4	837.1	837.4	839.1	841.4	844.0	848.0	848.6	853.9	855.2
32.5°	889.9	891.9	893.5	894.2	894.2	898.2	902.5	903.8	910.7	914.7	919.3
35°	958.6	958.9	959.9	960.9	960.3	964.5	968.8	970.2	977.4	978.4	988.0
37.5°	987.7	988.3	992.3	994.3	995.6	1000.9	1008.8	1014.7	1022.7	1030.3	1041.2
40°	1024.0	1027.9	1031.6	1034.5	1039.5	1046.8	1059.0	1064.9	1076.8	1091.0	1101.6
42.5°	1069.9	1077.1	1079.8	1085.4	1097.6	1106.5	1118.8	1131.6	1147.5	1164.7	1177.2
45°	1124.4	1131.3	1141.2	1147.5	1161.7	1175.9	1195.4	1206.6	1222.8	1242.6	1256.4
47.5°	1190.4	1200.0	1209.9	1222.8	1239.6	1254.5	1274.0	1288.5	1304.7	1320.8	1336.0
50°	1272.6	1286.8	1300.0	1313.6	1336.0	1348.6	1367.7	1382.9	1398.1	1414.3	1428.2
52.5°	1383.2	1404.7	1421.6	1430.8	1461.2	1473.7	1497.2	1507.7	1520.3	1534.8	1552.6
55°	1624.6	1658.0	1686.4	1702.9	1749.1	1765.6	1796.0	1811.5	1802.9	1821.4	1853.5
57.5°	2322.7	2363.6	2397.7	2420.1	2467.3	2490.4	2492.1	2550.2	2515.9	2549.9	2554.8
60°	3339.4	3371.8	3363.5	3363.8	3349.0	3327.5	3368.8	3306.1	3332.5	3334.1	3275.0
62.5°	4021.3	3971.8	3948.7	3910.3	3865.8	3831.4	3808.0	3757.5	3717.2	3685.1	3622.7
65°	4181.8	4095.9	4020.0	3948.3	3882.6	3837.0	3787.5	3733.4	3670.3	3617.1	3556.4
67.5°	4026.6	3906.4	3793.8	3699.3	3609.5	3549.4	3477.8	3426.3	3347.0	3277.0	3230.8
70°	3576.5	3410.1	3278.7	3218.2	3129.1	3000.0	2931.6	2867.2	2818.7	2755.3	2727.2
72.5°	2508.9	2303.5	2202.2	2206.1	2115.7	2023.2	2025.5	1986.2	1923.5	1921.5	1911.9
75°	921.9	838.7	780.3	782.9	749.2	713.3	723.2	733.7	713.3	754.9	690.5
77.5°	146.6	142.7	141.3	138.4	131.1	136.4	132.7	139.7	140.7	148.3	148.9
80°	93.4	89.5	88.5	86.8	86.5	86.5	85.9	85.9	85.9	86.2	85.5
82.5°	62.4	60.1	59.8	58.8	60.4	60.8	61.1	63.7	66.0	66.7	69.3
85°	34.0	32.4	32.4	31.7	33.0	33.4	36.3	40.0	44.6	46.6	50.9
87.5°	17.2	18.2	17.8	18.5	19.5	21.8	24.1	26.4	29.1	32.7	35.7
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7	458.7
2.5°	457.7	457.3	457.3	456.7	456.7	456.4	455.7	455.0	452.1	448.4	446.1
5°	464.6	463.9	463.6	463.0	462.0	462.0	461.0	459.7	454.0	448.1	444.5
7.5°	478.8	478.5	477.5	476.2	474.8	473.5	472.9	472.2	463.6	458.0	455.4
10°	499.3	498.9	496.6	496.3	494.3	494.7	493.0	491.7	486.1	479.8	476.2
12.5°	525.4	526.7	525.4	522.4	523.1	522.1	520.4	518.8	513.8	508.9	503.2
15°	557.7	556.1	554.8	557.4	555.1	554.8	555.7	556.1	550.1	544.8	536.9
17.5°	598.0	598.0	597.3	598.0	596.7	597.7	597.0	597.7	595.0	587.8	576.2
20°	643.9	646.6	646.6	645.6	645.2	647.2	648.2	644.6	645.2	639.0	618.2
22.5°	697.4	699.4	700.0	699.1	699.4	702.0	703.7	701.0	707.0	696.7	664.7
25°	752.5	755.5	754.2	754.5	757.2	760.1	763.1	760.5	772.0	756.2	714.2
27.5°	807.0	809.7	809.0	811.0	815.3	819.3	822.6	821.6	840.7	819.9	766.4
30°	858.5	864.8	866.1	868.5	873.7	880.3	885.6	885.3	910.1	882.0	809.0
32.5°	921.9	928.9	931.5	936.5	946.7	951.3	957.9	958.6	983.4	936.5	845.0
35°	995.3	1002.2	1007.8	1011.4	1023.0	1028.6	1035.2	1038.2	1054.7	987.3	870.1
37.5°	1052.0	1058.0	1068.9	1076.5	1086.7	1097.9	1105.5	1109.2	1118.4	1030.9	881.7
40°	1114.1	1127.0	1137.6	1149.1	1160.4	1169.3	1176.2	1181.8	1178.2	1067.2	876.7
42.5°	1192.7	1206.3	1220.5	1230.4	1236.3	1248.2	1251.5	1255.5	1225.7	1083.7	854.3
45°	1274.6	1285.5	1297.4	1304.7	1312.6	1318.5	1319.5	1319.8	1261.1	1074.2	813.6
47.5°	1353.5	1362.8	1371.0	1375.0	1379.0	1379.3	1377.6	1375.0	1279.9	1041.8	764.8
50°	1440.0	1445.7	1449.3	1449.6	1453.3	1446.3	1441.7	1429.5	1277.9	992.3	713.3
52.5°	1564.5	1563.2	1558.6	1558.3	1546.7	1533.5	1524.9	1507.4	1264.4	938.8	653.8
55°	1850.5	1837.9	1852.5	1815.5	1784.8	1764.3	1715.8	1680.4	1277.9	888.9	585.5
57.5°	2537.7	2494.7	2499.4	2439.6	2374.2	2251.7	2179.4	2081.6	1384.2	861.2	499.3
60°	3262.5	3191.8	3125.1	3019.1	2880.1	2724.6	2584.6	2431.7	1489.9	827.2	407.5
62.5°	3561.6	3470.5	3354.6	3205.0	3026.4	2833.5	2640.0	2465.7	1431.8	724.8	293.6
65°	3465.2	3356.3	3232.8	3037.6	2834.9	2610.6	2398.6	2214.4	1192.4	530.0	177.3
67.5°	3122.8	3029.0	2876.8	2692.5	2441.6	2216.7	2007.0	1836.6	879.0	327.6	101.7
70°	2629.5	2499.7	2369.6	2192.6	1928.1	1716.1	1520.9	1370.4	557.7	161.8	75.0
72.5°	1814.8	1712.1	1608.1	1449.6	1252.2	1106.2	938.5	814.6	291.9	87.2	69.0
75°	707.0	695.8	683.9	611.9	544.8	436.5	383.4	345.7	121.5	75.6	68.0
77.5°	155.2	164.4	169.7	160.8	153.2	136.7	130.8	116.9	81.2	77.6	67.4
80°	85.5	85.5	85.5	86.5	84.9	84.9	83.9	82.2	75.9	77.6	66.0
82.5°	70.0	71.0	72.3	72.6	72.3	72.6	72.0	71.7	74.3	77.9	62.7
85°	53.5	56.8	58.8	61.4	64.1	65.7	66.4	66.7	68.4	74.0	54.8
87.5°	38.0	40.6	44.9	45.6	48.5	52.2	53.5	55.5	54.5	56.1	25.8
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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CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	458.7	458.7	458.7	458.7	458.7
2.5°	444.1	441.5	440.5	440.2	439.5
5°	441.5	439.8	438.5	437.5	438.2
7.5°	453.4	452.4	450.1	449.4	450.4
10°	474.5	472.2	468.9	469.2	468.9
12.5°	500.9	494.7	489.4	487.1	485.4
15°	528.0	515.8	504.9	499.9	498.0
17.5°	558.1	537.3	520.4	511.5	509.8
20°	589.8	561.0	539.2	528.7	527.0
22.5°	626.4	586.8	559.0	544.5	542.2
25°	662.1	609.9	572.9	555.1	552.1
27.5°	694.4	627.4	581.2	560.0	557.1
30°	721.5	641.3	588.1	564.0	560.7
32.5°	739.3	648.9	590.4	564.3	560.4
35°	745.0	643.9	580.5	550.5	547.2
37.5°	733.1	623.8	554.1	520.1	517.4
40°	706.0	586.5	512.5	477.2	473.9
42.5°	663.7	539.2	464.3	427.0	424.0
45°	616.8	488.7	413.1	375.8	372.8
47.5°	565.6	435.2	359.3	324.9	320.3
50°	509.5	377.1	304.5	270.8	266.5
52.5°	443.8	313.7	246.3	216.0	213.3
55°	366.9	250.0	196.1	174.0	171.4
57.5°	285.3	190.2	155.9	145.0	140.7
60°	207.0	144.6	124.2	118.9	116.6
62.5°	140.7	108.0	100.1	98.4	96.8
65°	95.4	84.5	82.2	82.6	81.6
67.5°	75.3	71.0	69.7	70.3	70.0
70°	66.0	62.7	62.4	63.1	62.7
72.5°	62.4	58.1	58.8	59.8	59.4
75°	60.8	56.1	57.5	58.1	56.5
77.5°	59.1	53.2	57.1	58.4	55.1
80°	56.8	50.5	59.8	59.1	52.8
82.5°	51.8	44.6	58.4	53.5	47.6
85°	42.3	33.4	65.7	47.2	34.7
87.5°	27.1	20.1	45.6	36.0	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)