

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: P146336

Luminaire Tested: **LDRL-T2-F02-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146336
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5080 lumens
Efficiency: N/A
Efficacy: 92.4 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

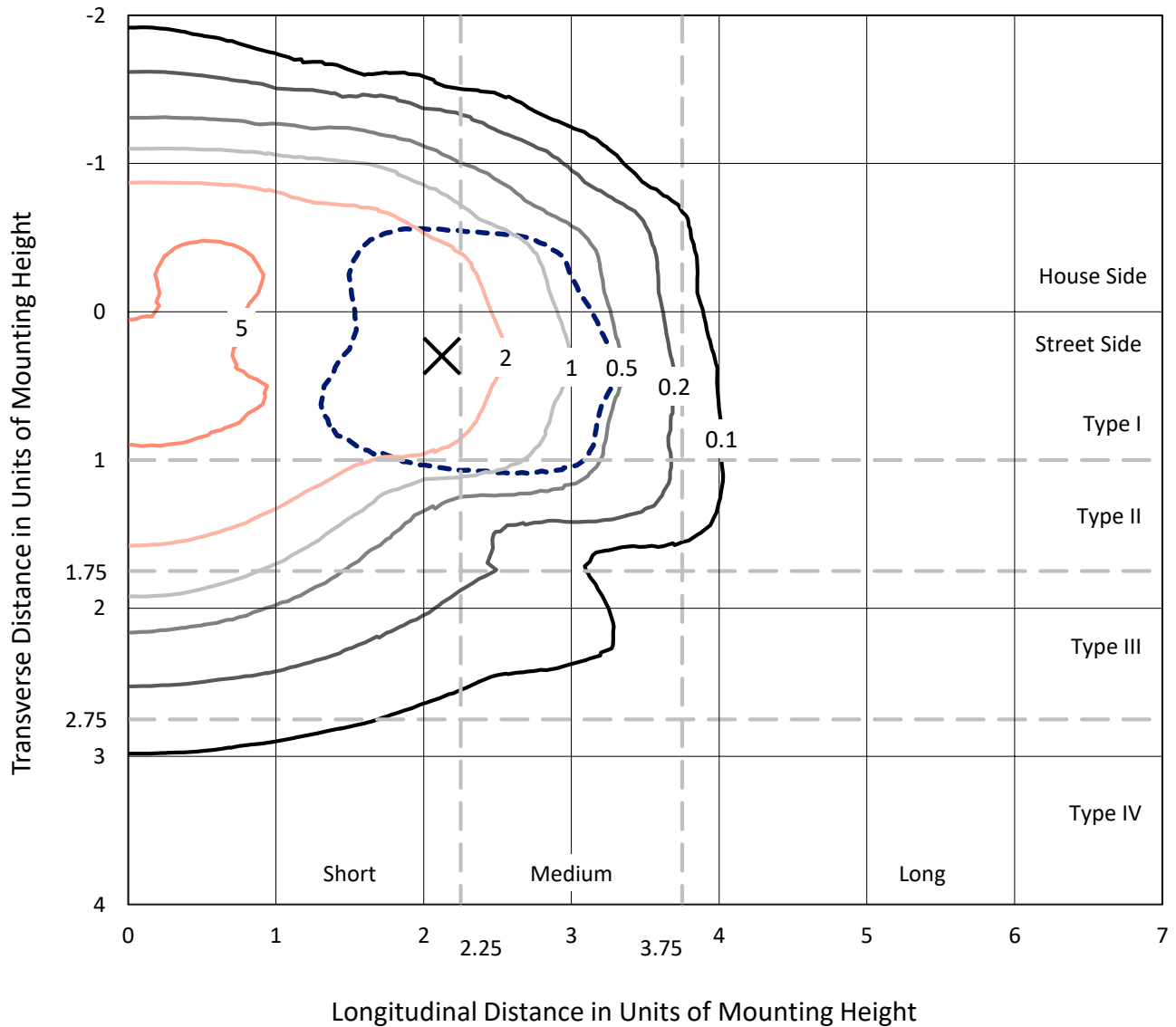
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

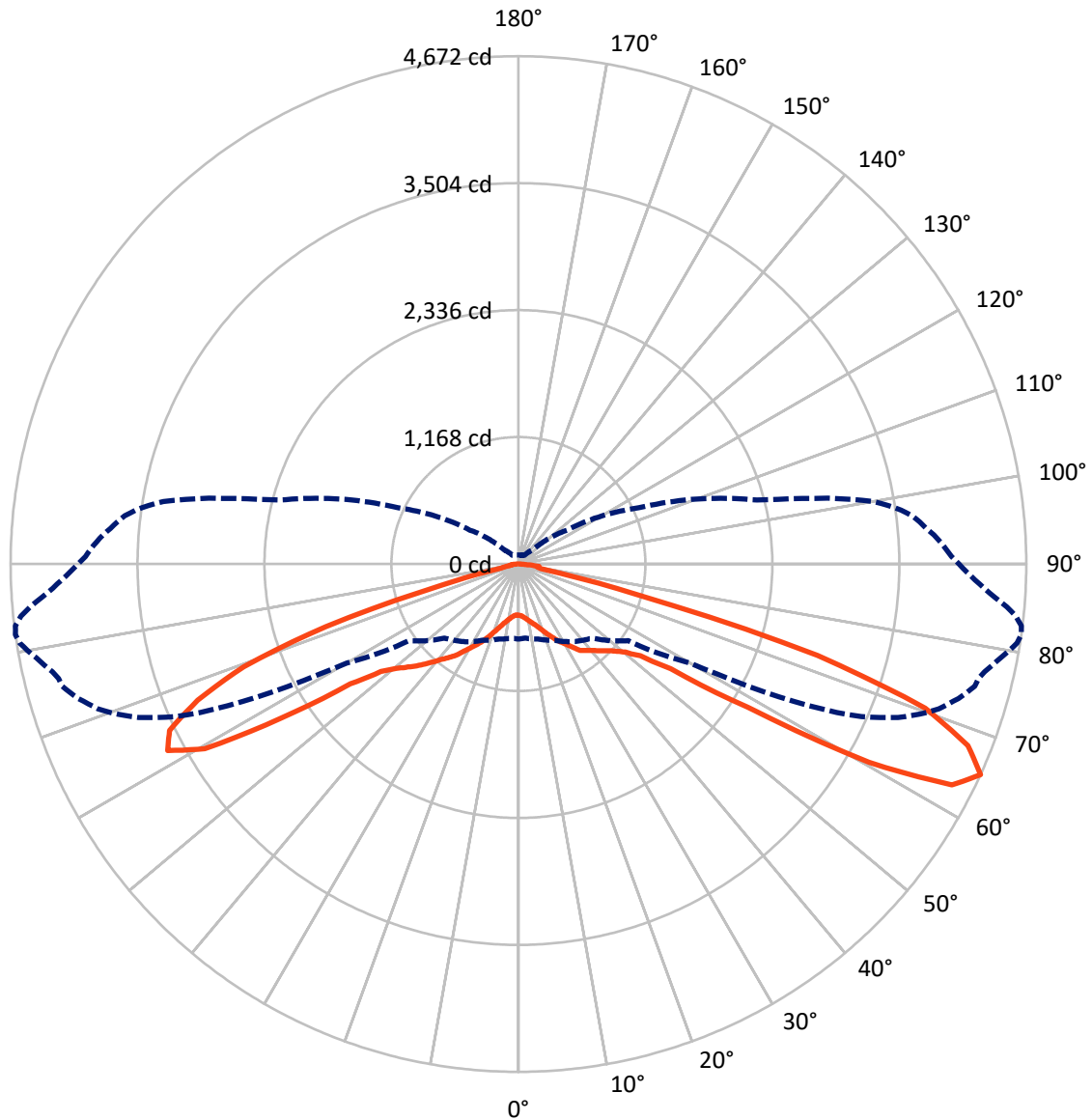
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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	1870.0	0.0	1870.0
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	3210.0	0.0	3210.0
	% Fixture	63.2	0.0	63.2
Total	Lumens	5080.0	0.0	5080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	0.9
10°-20°	168.2	3.3
20°-30°	333.7	6.6
30°-40°	569.4	11.2
40°-50°	853.8	16.8
50°-60°	1188.4	23.4
60°-70°	1365.3	26.9
70°-80°	471.1	9.3
80°-90°	82.4	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°	5080.0	100.0
0°-180°	5080.0	100.0



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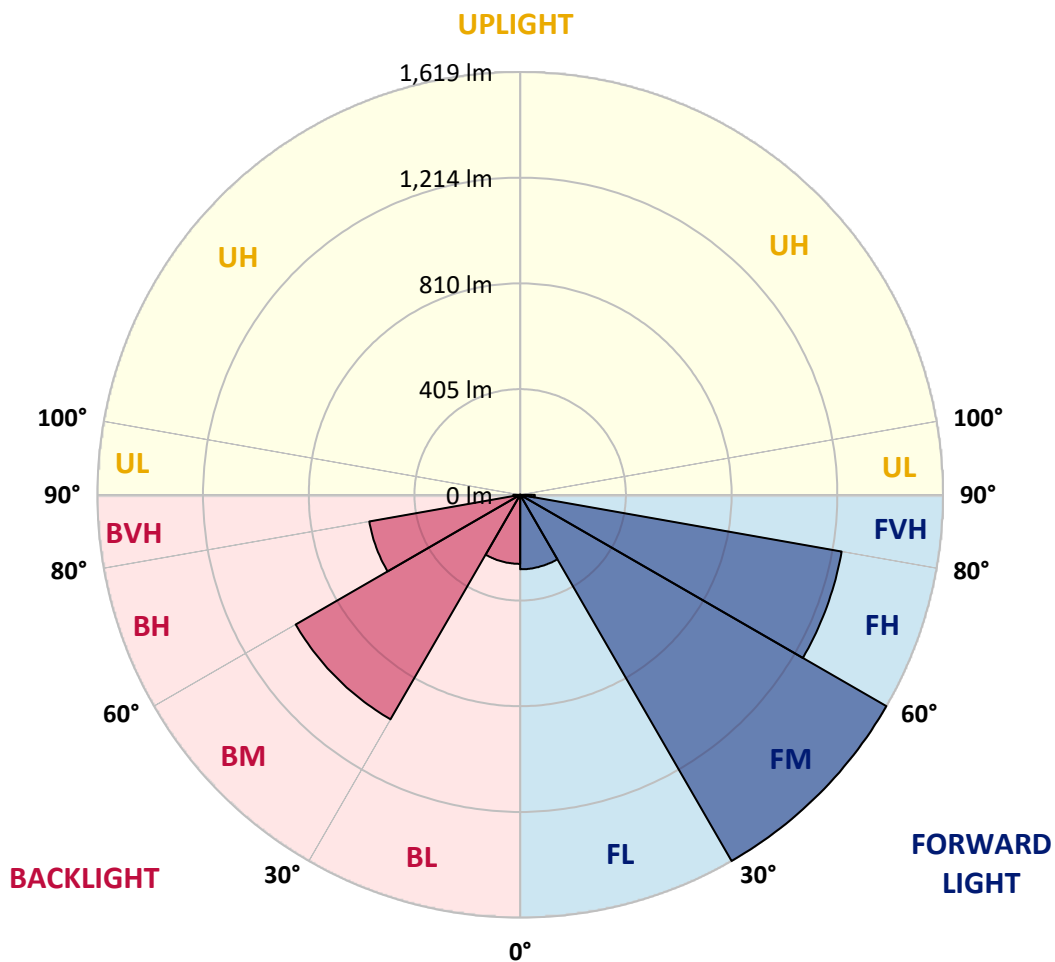
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.2	5.6			
FM	(30°-60°)	1619.1	31.9			
FH	(60°-80°)	1249.8	24.6			G1/1800
FVH	(80°-90°)	56.0	1.1			G1/100
BL	(0°-30°)	264.5	5.2	B1/500		
BM	(30°-60°)	992.5	19.5	B1/1000		
BH	(60°-80°)	586.6	11.5	B2/1000		G2/1000
BVH	(80°-90°)	26.4	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°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
2.5°	496.7	496.4	496.0	494.7	494.0	491.3	488.6	486.9	485.5	486.2	484.2
5°	525.5	525.5	524.2	522.5	520.4	516.7	509.9	506.6	505.9	505.9	503.5
7.5°	555.0	557.0	553.3	552.0	548.6	542.8	535.0	530.6	529.3	529.3	527.2
10°	592.3	591.3	587.2	584.5	577.7	569.9	559.4	554.3	552.3	554.0	550.6
12.5°	631.6	631.2	625.1	620.1	610.6	598.0	584.1	577.4	576.0	576.0	574.0
15°	671.6	671.9	665.1	655.6	640.7	623.8	608.2	601.8	600.1	599.4	597.0
17.5°	702.1	705.4	698.7	686.5	668.2	649.5	632.9	626.5	626.2	625.5	622.8
20°	719.3	720.0	716.3	707.5	691.2	673.3	661.7	658.7	658.3	658.7	659.4
22.5°	718.7	719.7	718.3	714.9	704.4	694.6	693.2	694.9	696.0	694.9	697.3
25°	713.2	714.6	714.6	716.3	713.6	717.0	727.8	732.6	732.9	733.6	738.6
27.5°	725.1	726.5	726.1	729.2	731.5	743.4	763.0	771.5	772.5	774.9	779.6
30°	780.0	780.3	774.2	773.9	776.3	785.7	805.7	815.6	814.5	819.3	822.3
32.5°	866.7	869.4	863.3	856.9	855.9	857.2	861.0	867.7	866.7	869.1	873.2
35°	965.7	966.0	962.6	966.3	968.4	959.2	941.6	939.9	934.5	935.5	936.9
37.5°	1056.5	1058.8	1065.3	1089.0	1102.6	1080.2	1045.6	1023.9	1020.6	1018.9	1007.0
40°	1141.5	1153.4	1169.0	1199.8	1218.4	1226.6	1177.4	1133.7	1121.9	1117.1	1098.5
42.5°	1241.1	1247.2	1265.5	1300.8	1325.5	1362.4	1329.6	1281.5	1267.6	1247.2	1223.9
45°	1325.5	1329.6	1341.1	1370.9	1422.7	1484.4	1488.1	1454.6	1443.8	1423.4	1389.2
47.5°	1382.1	1381.7	1390.2	1419.4	1486.8	1581.0	1636.9	1635.5	1623.0	1615.9	1586.7
50°	1404.1	1403.8	1409.2	1441.7	1515.2	1638.6	1761.9	1804.3	1803.9	1806.6	1791.7
52.5°	1408.2	1407.8	1408.5	1434.6	1509.5	1658.6	1852.0	1952.0	1966.6	1984.9	2001.5
55°	1377.7	1381.1	1388.5	1416.0	1487.8	1650.4	1918.8	2090.6	2125.5	2162.8	2223.1
57.5°	1307.2	1313.6	1339.4	1388.5	1464.8	1630.5	1965.2	2262.0	2332.8	2423.0	2586.3
60°	1206.2	1212.0	1247.6	1312.6	1397.7	1543.4	1911.3	2333.9	2468.4	2624.9	2959.7
62.5°	1027.7	1043.9	1062.9	1109.0	1198.1	1315.3	1669.4	2212.6	2420.9	2650.7	3111.5
65°	690.2	683.4	714.9	773.5	871.5	962.6	1230.0	1824.9	2088.5	2404.7	2974.9
67.5°	427.3	428.3	449.6	506.9	580.8	651.6	779.6	1163.2	1397.0	1697.5	2383.3
70°	353.1	357.1	374.4	427.6	490.6	570.6	578.7	616.7	721.4	866.7	1472.2
72.5°	280.2	281.9	299.5	343.9	433.0	542.8	687.1	468.6	460.5	482.5	746.8
75°	173.8	175.2	184.0	212.4	280.9	422.9	756.6	538.7	504.9	476.4	481.1
77.5°	89.8	92.5	97.2	110.1	147.4	236.2	595.7	683.1	644.5	605.8	530.3
80°	50.8	50.8	55.2	58.3	69.8	96.2	302.9	739.3	807.8	824.4	740.3
82.5°	22.7	25.4	34.2	36.6	40.0	44.0	100.3	444.2	616.3	769.8	951.4
85°	13.6	13.2	21.7	23.7	24.7	21.0	37.6	181.3	288.0	421.5	630.6
87.5°	5.4	5.8	9.1	9.8	11.5	8.5	14.2	39.0	57.3	83.0	117.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
2.5°	483.8	483.8	483.5	483.2	482.8	481.8	481.5	480.8	480.5	479.4	479.1
5°	503.2	502.1	501.8	501.1	500.8	499.4	499.4	498.1	497.1	495.7	495.4
7.5°	526.2	524.8	523.8	523.2	522.8	520.4	520.4	518.4	518.1	516.4	515.7
10°	549.6	548.6	547.2	546.5	546.2	544.8	543.5	542.1	541.1	540.1	538.7
12.5°	573.0	570.9	570.3	569.2	568.6	567.5	567.2	564.2	564.2	563.1	561.8
15°	595.7	595.3	593.0	592.6	591.9	592.3	590.2	590.6	589.6	587.9	587.2
17.5°	623.4	621.1	622.1	620.4	620.7	620.1	619.4	619.0	619.7	619.4	620.1
20°	658.0	657.3	658.3	656.0	658.3	658.7	658.0	659.7	659.0	659.7	657.7
22.5°	699.0	696.6	696.6	698.3	699.3	702.4	700.7	702.1	703.4	704.4	703.1
25°	740.3	739.7	741.0	742.4	744.4	747.1	746.4	746.8	749.5	751.2	751.5
27.5°	782.4	782.4	786.4	786.4	789.1	792.2	793.2	794.6	796.6	799.0	799.0
30°	825.7	825.7	829.5	832.8	834.2	837.9	840.0	842.0	845.7	846.4	849.4
32.5°	875.2	876.2	879.9	882.0	885.0	889.4	890.1	892.5	896.9	898.2	900.6
35°	939.6	936.2	939.6	943.3	945.0	943.6	951.1	954.1	957.2	958.9	961.9
37.5°	1006.0	1000.2	1000.6	999.9	995.8	998.2	998.2	997.5	999.5	999.2	1000.6
40°	1090.0	1079.9	1076.8	1070.4	1061.6	1056.8	1051.7	1051.1	1046.0	1048.0	1044.3
42.5°	1205.2	1190.0	1181.8	1161.8	1151.0	1138.1	1125.6	1114.8	1109.0	1102.6	1097.8
45°	1363.5	1345.5	1325.8	1293.7	1275.0	1249.3	1232.7	1207.9	1191.3	1177.4	1167.6
47.5°	1562.0	1531.9	1515.9	1485.8	1453.2	1414.3	1378.7	1344.1	1316.0	1285.5	1261.5
50°	1792.8	1755.1	1742.6	1702.6	1684.3	1640.6	1602.7	1560.0	1515.9	1469.8	1425.8
52.5°	1997.1	1992.7	1997.7	1971.0	1970.3	1948.3	1906.3	1856.5	1815.5	1769.0	1711.1
55°	2242.0	2285.7	2295.2	2291.5	2311.5	2310.8	2306.8	2301.7	2269.1	2203.4	2183.4
57.5°	2674.4	2723.5	2796.0	2828.9	2901.4	2909.9	2977.0	2950.9	3000.7	2987.1	2996.3
60°	3114.5	3265.3	3402.9	3507.6	3609.2	3701.7	3814.9	3863.3	3899.6	3956.2	4015.8
62.5°	3311.4	3501.5	3665.5	3814.6	3940.9	4058.2	4155.4	4247.6	4320.1	4385.1	4435.3
65°	3231.8	3452.3	3612.3	3767.8	3885.7	3994.8	4091.4	4160.5	4232.7	4291.6	4344.8
67.5°	2690.7	2984.4	3193.1	3369.7	3517.7	3642.1	3742.4	3837.6	3888.8	3953.1	3981.9
70°	1782.2	2159.0	2454.1	2692.7	2927.5	3068.4	3187.4	3298.2	3356.5	3408.6	3440.8
72.5°	978.9	1236.4	1551.5	1835.1	2060.8	2245.8	2384.3	2489.4	2549.4	2594.1	2547.7
75°	554.7	681.7	835.9	992.8	1163.9	1294.3	1330.9	1375.7	1386.2	1363.1	1303.5
77.5°	509.9	509.9	510.3	506.6	514.0	523.2	517.7	508.6	467.2	458.1	445.2
80°	663.1	590.9	513.7	421.8	343.9	290.0	273.4	274.8	288.0	313.8	342.2
82.5°	939.9	868.8	757.3	617.3	491.3	385.6	316.1	284.3	283.9	309.7	346.6
85°	685.5	691.2	666.5	589.6	470.3	370.3	299.2	229.7	207.4	207.4	204.7
87.5°	119.9	123.7	106.7	95.6	66.7	47.1	42.4	37.3	36.9	38.3	35.2
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
2.5°	479.1	478.4	477.8	477.4	477.4	476.7	476.7	476.1	476.4	476.1	475.0
5°	494.7	494.4	493.3	491.6	491.3	489.9	490.3	488.9	488.9	488.3	486.6
7.5°	514.3	513.7	513.0	511.6	510.3	510.3	507.9	507.9	506.2	505.5	504.2
10°	537.7	535.7	534.7	533.3	533.0	532.6	530.3	530.3	528.2	527.9	526.9
12.5°	560.8	559.4	558.4	557.7	556.0	555.7	554.7	553.6	552.6	552.0	551.6
15°	585.8	585.2	584.1	584.1	584.1	582.4	581.4	580.8	580.8	579.7	580.4
17.5°	618.4	619.4	618.0	617.3	616.3	618.0	616.3	616.3	617.3	617.3	615.0
20°	658.7	660.0	658.7	659.0	658.3	658.7	659.0	659.7	661.1	658.7	659.0
22.5°	703.4	703.8	704.8	703.8	705.4	704.4	706.5	708.2	707.8	707.1	707.5
25°	752.2	751.2	751.5	754.6	756.9	756.3	756.6	759.3	758.6	758.0	758.3
27.5°	801.7	801.0	802.0	804.7	807.4	807.1	806.4	808.4	808.4	806.8	807.4
30°	850.8	851.8	853.5	853.5	854.9	856.2	855.2	857.6	857.9	856.6	858.3
32.5°	902.6	904.7	904.0	908.7	908.7	909.1	910.1	909.8	913.1	910.4	911.5
35°	965.0	965.7	969.7	973.1	975.2	976.8	976.8	977.9	979.6	978.2	980.2
37.5°	1002.9	1004.3	1005.6	1007.7	1007.7	1007.7	1009.4	1009.7	1010.7	1010.4	1011.1
40°	1044.6	1045.0	1045.3	1045.6	1047.0	1047.7	1046.0	1048.3	1046.6	1047.3	1048.3
42.5°	1095.1	1090.4	1091.0	1090.0	1092.4	1089.3	1090.0	1092.7	1091.4	1093.4	1093.4
45°	1153.7	1148.3	1143.6	1140.8	1140.8	1136.8	1137.5	1138.5	1140.2	1142.9	1147.6
47.5°	1240.5	1221.8	1212.7	1203.2	1198.4	1193.4	1195.1	1195.4	1196.1	1200.5	1212.3
50°	1382.4	1351.3	1327.2	1298.4	1287.6	1278.7	1273.7	1274.0	1274.0	1283.2	1295.0
52.5°	1656.9	1598.9	1541.7	1491.5	1448.5	1427.8	1403.8	1397.7	1398.0	1405.8	1413.9
55°	2130.9	2051.3	1990.6	1879.2	1845.3	1750.1	1699.9	1671.1	1648.7	1659.6	1671.4
57.5°	2981.4	2907.8	2859.7	2726.6	2605.3	2570.7	2488.4	2421.6	2394.2	2362.3	2364.4
60°	4024.6	3986.7	3974.5	3896.5	3852.8	3717.0	3706.1	3621.8	3542.1	3473.3	3501.5
62.5°	4473.9	4491.5	4505.8	4533.2	4543.7	4530.8	4476.3	4439.0	4373.6	4283.5	4228.3
65°	4360.4	4400.7	4461.4	4518.6	4587.1	4644.0	4672.1	4661.3	4602.3	4509.5	4393.6
67.5°	4002.6	4043.6	4095.8	4168.3	4273.0	4383.8	4461.0	4510.2	4463.4	4379.7	4261.8
70°	3439.1	3479.1	3480.8	3582.1	3694.9	3834.5	3971.4	4022.9	3969.7	3913.8	3815.2
72.5°	2575.8	2551.7	2574.1	2592.7	2657.1	2745.2	2878.0	2872.3	2790.9	2747.6	2596.1
75°	1210.6	1194.4	1170.7	1155.1	1140.2	1109.0	1123.9	1060.2	1038.2	1047.0	916.2
77.5°	435.4	413.0	377.1	342.2	298.2	247.0	208.4	183.0	170.4	170.8	163.0
80°	365.3	376.1	371.0	336.5	287.0	233.5	174.8	132.5	113.2	105.0	100.0
82.5°	396.1	450.6	477.8	456.4	385.6	296.8	191.1	115.5	84.7	72.5	69.5
85°	219.6	219.9	213.1	203.6	180.6	124.0	82.7	54.9	44.0	39.3	37.9
87.5°	37.3	35.6	35.6	33.2	29.1	28.5	25.4	24.1	21.3	19.7	19.0
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°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
2.5°	474.0	473.3	473.0	472.7	472.7	472.3	472.3	471.7	471.0	470.6	470.3
5°	484.9	484.2	483.5	482.8	482.8	482.2	481.5	480.8	479.8	478.1	477.8
7.5°	503.2	501.8	501.8	499.4	499.4	498.1	497.1	497.1	495.7	493.0	492.7
10°	525.9	523.5	522.5	521.1	520.4	519.1	519.1	517.7	517.1	516.0	512.7
12.5°	550.3	548.6	547.9	546.2	545.2	545.2	544.5	542.1	543.8	541.5	539.8
15°	579.7	579.4	576.4	577.4	577.0	576.7	577.0	575.0	574.7	574.7	572.6
17.5°	616.7	614.0	614.3	614.3	615.0	615.0	612.3	613.6	614.0	613.3	612.6
20°	660.0	659.0	660.0	658.0	660.0	660.0	661.4	661.1	661.4	662.1	662.1
22.5°	706.5	709.2	709.5	710.2	707.8	711.9	711.9	712.6	714.3	714.3	714.9
25°	762.7	761.4	759.7	762.0	762.7	765.4	766.1	766.1	768.8	768.8	769.8
27.5°	809.5	810.8	810.5	811.8	811.2	814.9	816.2	820.3	819.3	821.3	824.0
30°	857.6	860.3	858.9	859.3	861.0	863.3	866.1	870.1	870.8	876.2	877.6
32.5°	913.1	915.2	916.9	917.6	917.6	921.6	926.0	927.4	934.5	938.6	943.3
35°	983.6	984.0	985.0	986.0	985.3	989.7	994.1	995.5	1002.9	1004.0	1013.8
37.5°	1013.4	1014.1	1018.2	1020.2	1021.6	1027.0	1035.1	1041.2	1049.4	1057.2	1068.3
40°	1050.7	1054.8	1058.5	1061.6	1066.6	1074.1	1086.6	1092.7	1104.9	1119.5	1130.3
42.5°	1097.8	1105.3	1108.0	1113.7	1126.3	1135.4	1148.0	1161.2	1177.4	1195.1	1207.9
45°	1153.7	1160.8	1171.0	1177.4	1192.0	1206.6	1226.6	1238.1	1254.7	1275.0	1289.2
47.5°	1221.5	1231.3	1241.5	1254.7	1272.0	1287.2	1307.2	1322.1	1338.7	1355.3	1370.9
50°	1305.9	1320.4	1334.0	1347.9	1370.9	1383.8	1403.4	1419.0	1434.6	1451.2	1465.4
52.5°	1419.4	1441.4	1458.7	1468.2	1499.3	1512.2	1536.3	1547.1	1560.0	1574.9	1593.2
55°	1667.0	1701.3	1730.4	1747.3	1794.8	1811.7	1842.9	1858.8	1850.0	1869.0	1901.9
57.5°	2383.3	2425.3	2460.2	2483.3	2531.7	2555.5	2557.2	2616.8	2581.5	2616.4	2621.5
60°	3426.6	3459.8	3451.3	3451.7	3436.4	3414.4	3456.7	3392.4	3419.5	3421.2	3360.5
62.5°	4126.3	4075.5	4051.7	4012.4	3966.7	3931.4	3907.4	3855.5	3814.2	3781.3	3717.3
65°	4290.9	4202.9	4124.9	4051.4	3984.0	3937.2	3886.4	3830.8	3766.1	3711.5	3649.2
67.5°	4131.7	4008.4	3892.8	3795.9	3703.8	3642.1	3568.6	3515.7	3434.4	3362.6	3315.1
70°	3669.9	3499.1	3364.2	3302.2	3210.8	3078.3	3008.1	2942.1	2892.3	2827.2	2798.4
72.5°	2574.4	2363.7	2259.7	2263.7	2170.9	2076.0	2078.4	2038.1	1973.7	1971.7	1961.8
75°	946.0	860.6	800.7	803.4	768.8	731.9	742.0	752.9	731.9	774.6	708.5
77.5°	150.4	146.4	145.0	142.0	134.5	139.9	136.2	143.3	144.3	152.1	152.8
80°	95.9	91.8	90.8	89.1	88.8	88.8	88.1	88.1	88.1	88.4	87.8
82.5°	64.0	61.7	61.3	60.3	62.0	62.3	62.7	65.4	67.8	68.4	71.2
85°	34.9	33.2	33.2	32.5	33.9	34.2	37.3	41.0	45.7	47.8	52.2
87.5°	17.6	18.6	18.3	19.0	20.0	22.4	24.7	27.1	29.8	33.5	36.6
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°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
2.5°	469.6	469.3	469.3	468.6	468.6	468.3	467.6	466.9	463.9	460.1	457.8
5°	476.7	476.1	475.7	475.0	474.0	474.0	473.0	471.7	465.9	459.8	456.1
7.5°	491.3	491.0	489.9	488.6	487.2	485.9	485.2	484.5	475.7	470.0	467.2
10°	512.3	512.0	509.6	509.3	507.2	507.6	505.9	504.5	498.8	492.3	488.6
12.5°	539.1	540.4	539.1	536.0	536.7	535.7	534.0	532.3	527.2	522.1	516.4
15°	572.3	570.6	569.2	571.9	569.6	569.2	570.3	570.6	564.5	559.1	550.9
17.5°	613.6	613.6	612.9	613.6	612.3	613.3	612.6	613.3	610.6	603.1	591.3
20°	660.7	663.4	663.4	662.4	662.1	664.1	665.1	661.4	662.1	655.6	634.3
22.5°	715.6	717.6	718.3	717.3	717.6	720.4	722.0	719.3	725.4	714.9	682.1
25°	772.2	775.2	773.9	774.2	776.9	780.0	783.0	780.3	792.2	775.9	732.9
27.5°	828.1	830.8	830.1	832.2	836.6	840.6	844.0	843.0	862.7	841.3	786.4
30°	881.0	887.4	888.8	891.1	896.5	903.3	908.7	908.4	933.8	905.0	830.1
32.5°	946.0	953.1	955.8	960.9	971.4	976.2	982.9	983.6	1009.0	960.9	867.1
35°	1021.2	1028.3	1034.1	1037.8	1049.7	1055.5	1062.2	1065.3	1082.2	1013.1	892.8
37.5°	1079.5	1085.6	1096.8	1104.6	1115.1	1126.6	1134.4	1138.1	1147.6	1057.8	904.7
40°	1143.2	1156.4	1167.3	1179.1	1190.6	1199.8	1206.9	1212.7	1208.9	1095.1	899.6
42.5°	1223.9	1237.7	1252.3	1262.5	1268.6	1280.8	1284.2	1288.2	1257.7	1112.0	876.6
45°	1307.9	1319.1	1331.3	1338.7	1346.9	1352.9	1354.0	1354.3	1294.0	1102.2	834.9
47.5°	1388.9	1398.4	1406.8	1410.9	1415.0	1415.3	1413.6	1410.9	1313.3	1069.0	784.7
50°	1477.6	1483.4	1487.1	1487.5	1491.2	1484.1	1479.3	1466.8	1311.3	1018.2	731.9
52.5°	1605.4	1604.0	1599.3	1598.9	1587.1	1573.5	1564.7	1546.8	1297.4	963.3	670.9
55°	1898.8	1885.9	1900.8	1862.9	1831.4	1810.4	1760.6	1724.3	1311.3	912.1	600.7
57.5°	2603.9	2559.9	2564.6	2503.3	2436.2	2310.5	2236.3	2136.0	1420.4	883.7	512.3
60°	3347.6	3275.1	3206.7	3097.9	2955.3	2795.7	2652.0	2495.1	1528.8	848.8	418.1
62.5°	3654.6	3561.1	3442.2	3288.7	3105.4	2907.5	2708.9	2530.0	1469.2	743.7	301.2
65°	3555.7	3443.9	3317.1	3116.9	2908.9	2678.8	2461.3	2272.2	1223.5	543.8	182.0
67.5°	3204.3	3108.1	2951.9	2762.8	2505.3	2274.6	2059.4	1884.6	902.0	336.1	104.4
70°	2698.1	2564.9	2431.4	2249.8	1978.4	1760.9	1560.7	1406.1	572.3	166.0	76.9
72.5°	1862.2	1756.8	1650.1	1487.5	1284.8	1135.1	963.0	835.9	299.5	89.5	70.8
75°	725.4	713.9	701.7	627.9	559.1	447.9	393.4	354.8	124.7	77.6	69.8
77.5°	159.3	168.7	174.2	165.0	157.2	140.3	134.2	119.9	83.4	79.6	69.1
80°	87.8	87.8	87.8	88.8	87.1	87.1	86.1	84.4	77.9	79.6	67.8
82.5°	71.8	72.8	74.2	74.5	74.2	74.5	73.9	73.5	76.2	80.0	64.4
85°	54.9	58.3	60.3	63.0	65.7	67.4	68.1	68.4	70.1	75.9	56.2
87.5°	39.0	41.7	46.1	46.8	49.8	53.5	54.9	56.9	55.9	57.6	26.4
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°	470.6	470.6	470.6	470.6	470.6
2.5°	455.7	453.0	452.0	451.7	451.0
5°	453.0	451.3	450.0	449.0	449.6
7.5°	465.2	464.2	461.8	461.1	462.2
10°	486.9	484.5	481.1	481.5	481.1
12.5°	514.0	507.6	502.1	499.8	498.1
15°	541.8	529.3	518.1	513.0	511.0
17.5°	572.6	551.3	534.0	524.8	523.2
20°	605.2	575.7	553.3	542.5	540.8
22.5°	642.8	602.1	573.6	558.7	556.4
25°	679.4	625.8	587.9	569.6	566.5
27.5°	712.6	643.8	596.3	574.7	571.6
30°	740.3	658.0	603.5	578.7	575.3
32.5°	758.6	665.8	605.8	579.1	575.0
35°	764.4	660.7	595.7	564.8	561.4
37.5°	752.2	640.1	568.6	533.7	530.9
40°	724.4	601.8	525.9	489.6	486.2
42.5°	681.0	553.3	476.4	438.1	435.1
45°	632.9	501.5	423.9	385.6	382.5
47.5°	580.4	446.6	368.6	333.4	328.7
50°	522.8	386.9	312.4	277.8	273.4
52.5°	455.4	321.9	252.8	221.6	218.9
55°	376.4	256.5	201.3	178.6	175.9
57.5°	292.7	195.2	159.9	148.7	144.3
60°	212.4	148.4	127.4	122.0	119.6
62.5°	144.3	110.8	102.7	101.0	99.3
65°	97.9	86.7	84.4	84.7	83.7
67.5°	77.3	72.8	71.5	72.2	71.8
70°	67.8	64.4	64.0	64.7	64.4
72.5°	64.0	59.6	60.3	61.3	61.0
75°	62.3	57.6	59.0	59.6	57.9
77.5°	60.7	54.6	58.6	60.0	56.6
80°	58.3	51.8	61.3	60.7	54.2
82.5°	53.2	45.7	60.0	54.9	48.8
85°	43.4	34.2	67.4	48.5	35.6
87.5°	27.8	20.7	46.8	36.9	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)