

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: P146328

Luminaire Tested: **LDRL-T2-E02-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146328
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-E02-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5061.5 lumens
Efficiency: N/A
Efficacy: 97.2 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

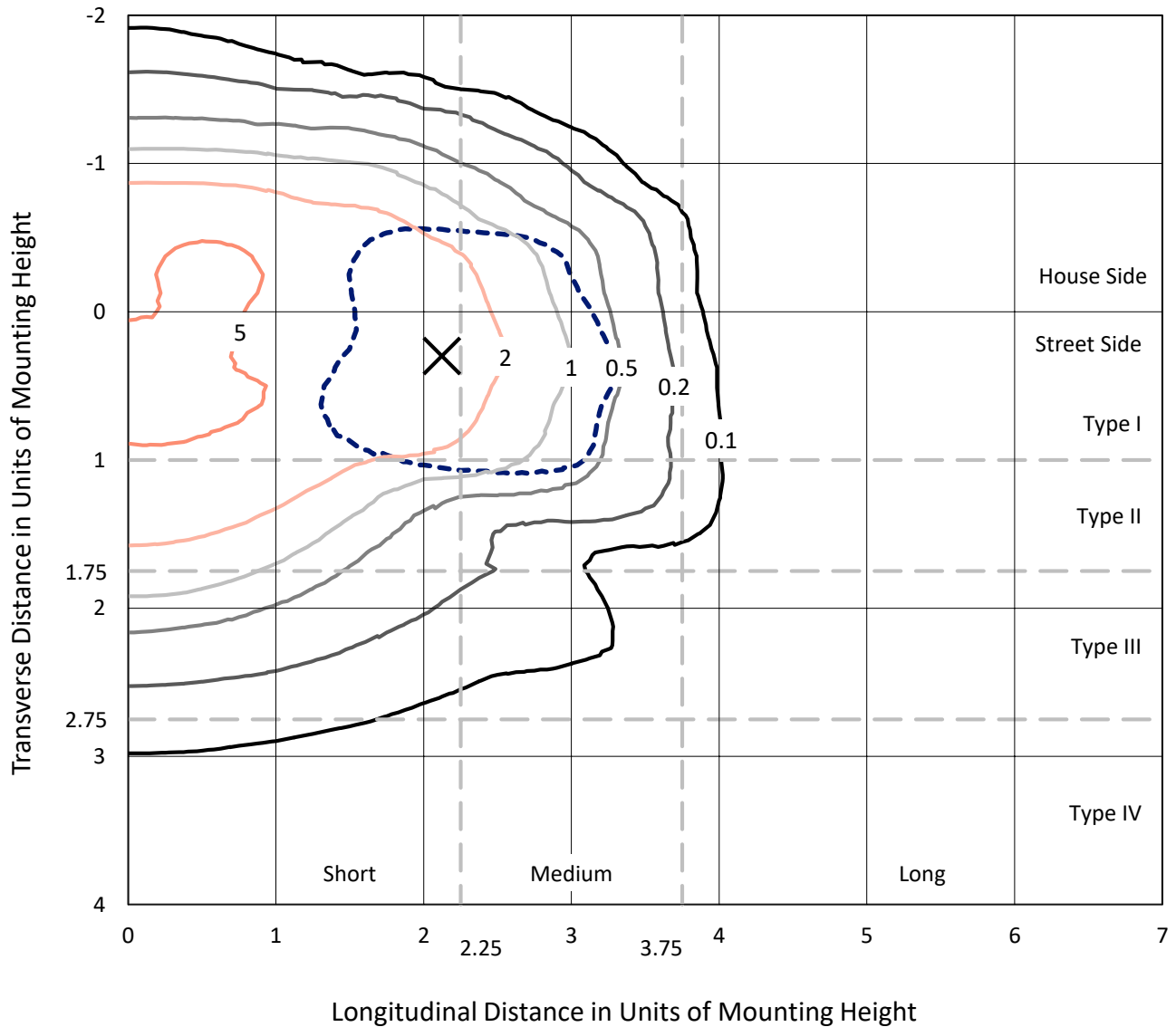
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

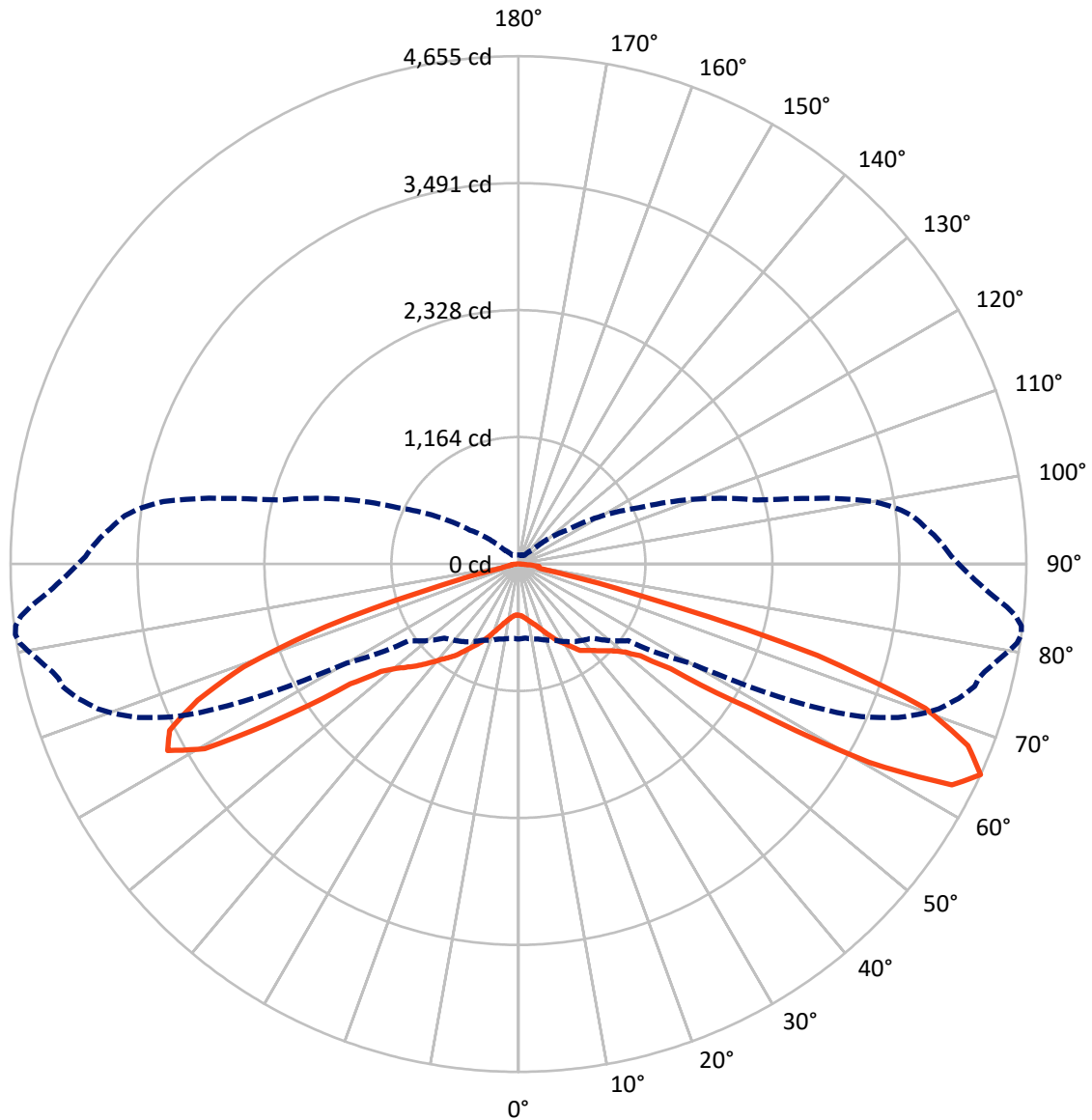
✕ Max cd
 - - - 1/2 Max cd



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	1863.2	0.0	1863.2
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	3198.3	0.0	3198.3
	% Fixture	63.2	0.0	63.2
Total	Lumens	5061.5	0.0	5061.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	0.9
10°-20°	167.6	3.3
20°-30°	332.5	6.6
30°-40°	567.3	11.2
40°-50°	850.7	16.8
50°-60°	1184.1	23.4
60°-70°	1360.3	26.9
70°-80°	469.4	9.3
80°-90°	82.1	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°	5061.5	100.0
0°-180°	5061.5	100.0



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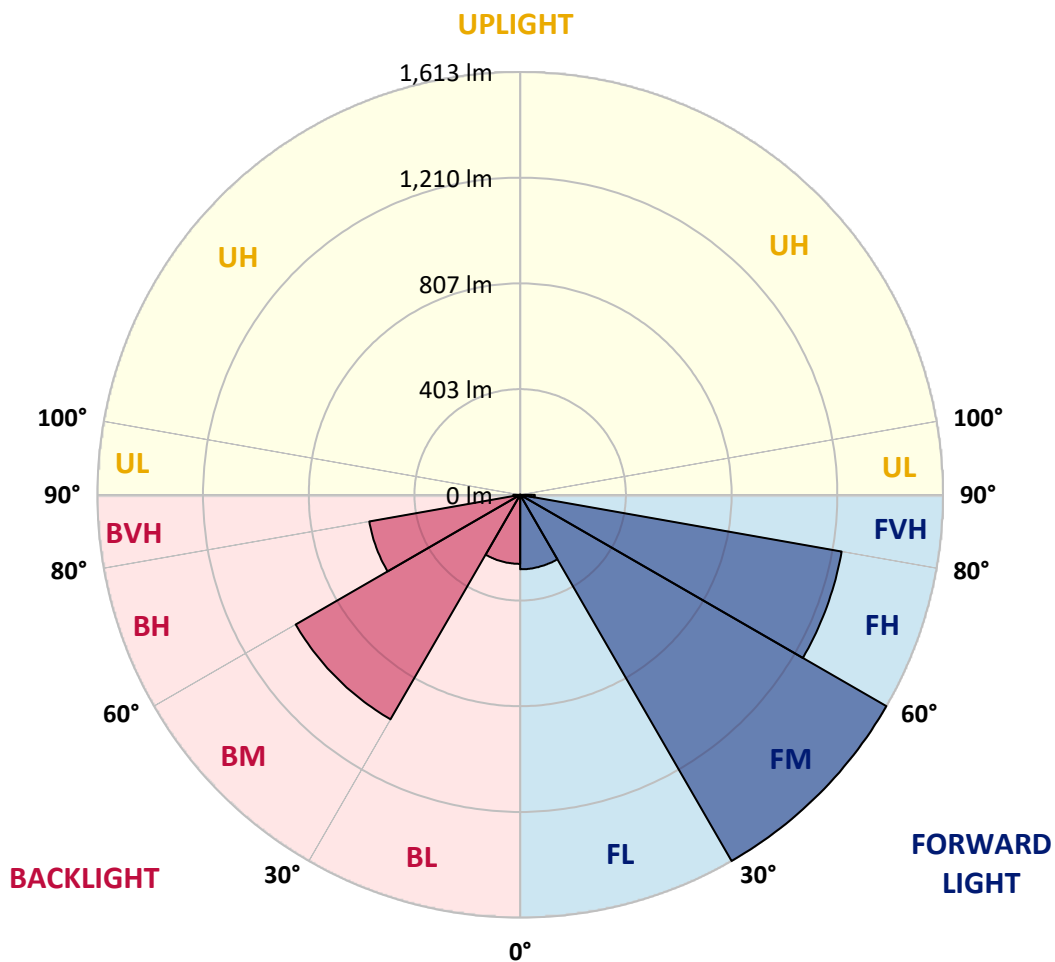
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	284.1	5.6			
FM	(30°-60°)	1613.2	31.9			
FH	(60°-80°)	1245.3	24.6			G1/1800
FVH	(80°-90°)	55.8	1.1			G1/100
BL	(0°-30°)	263.5	5.2	B1/500		
BM	(30°-60°)	988.8	19.5	B1/1000		
BH	(60°-80°)	584.4	11.5	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	494.9	494.6	494.2	492.9	492.2	489.5	486.8	485.1	483.8	484.5	482.4
5°	523.6	523.6	522.3	520.6	518.5	514.8	508.1	504.7	504.0	504.0	501.7
7.5°	553.0	555.0	551.3	549.9	546.6	540.8	533.1	528.7	527.3	527.3	525.3
10°	590.1	589.1	585.1	582.4	575.6	567.8	557.4	552.3	550.3	552.0	548.6
12.5°	629.3	628.9	622.9	617.8	608.3	595.9	582.0	575.3	573.9	573.9	571.9
15°	669.1	669.5	662.7	653.2	638.4	621.5	606.0	599.6	597.9	597.2	594.8
17.5°	699.5	702.9	696.1	684.0	665.7	647.2	630.6	624.2	623.9	623.2	620.5
20°	716.7	717.4	713.7	704.9	688.7	670.8	659.3	656.3	655.9	656.3	657.0
22.5°	716.0	717.1	715.7	712.3	701.9	692.1	690.7	692.4	693.4	692.4	694.8
25°	710.6	712.0	712.0	713.7	711.0	714.4	725.2	729.9	730.2	730.9	736.0
27.5°	722.5	723.8	723.5	726.5	728.9	740.7	760.3	768.7	769.7	772.1	776.8
30°	777.1	777.5	771.4	771.1	773.4	782.9	802.8	812.6	811.6	816.3	819.3
32.5°	863.6	866.3	860.2	853.8	852.8	854.1	857.8	864.6	863.6	865.9	870.0
35°	962.1	962.5	959.1	962.8	964.9	955.7	938.2	936.5	931.1	932.1	933.5
37.5°	1052.6	1055.0	1061.4	1085.0	1098.5	1076.3	1041.8	1020.2	1016.8	1015.2	1003.3
40°	1137.4	1149.2	1164.7	1195.4	1214.0	1222.1	1173.1	1129.6	1117.8	1113.1	1094.5
42.5°	1236.6	1242.7	1260.9	1296.0	1320.7	1357.5	1324.7	1276.8	1262.9	1242.7	1219.4
45°	1320.7	1324.7	1336.2	1365.9	1417.6	1479.0	1482.7	1449.3	1438.5	1418.2	1384.1
47.5°	1377.1	1376.7	1385.2	1414.2	1481.4	1575.2	1630.9	1629.6	1617.1	1610.0	1581.0
50°	1399.0	1398.7	1404.1	1436.5	1509.7	1632.6	1755.5	1797.7	1797.4	1800.1	1785.2
52.5°	1403.1	1402.7	1403.4	1429.4	1504.0	1652.5	1845.3	1944.9	1959.4	1977.6	1994.2
55°	1372.7	1376.0	1383.5	1410.8	1482.4	1644.4	1911.8	2083.0	2117.7	2154.9	2215.0
57.5°	1302.4	1308.9	1334.5	1383.5	1459.4	1624.5	1958.1	2253.8	2324.4	2414.2	2576.9
60°	1201.8	1207.6	1243.0	1307.8	1392.6	1537.8	1904.4	2325.4	2459.4	2615.4	2948.9
62.5°	1023.9	1040.1	1059.0	1105.0	1193.7	1310.5	1663.3	2204.5	2412.1	2641.0	3100.1
65°	687.7	680.9	712.3	770.7	868.3	959.1	1225.5	1818.3	2080.9	2395.9	2964.1
67.5°	425.7	426.7	448.0	505.0	578.6	649.2	776.8	1159.0	1391.9	1691.4	2374.7
70°	351.8	355.8	373.0	426.0	488.8	568.5	576.6	614.4	718.7	863.6	1466.9
72.5°	279.2	280.9	298.4	342.7	431.4	540.8	684.6	466.9	458.8	480.7	744.1
75°	173.2	174.5	183.3	211.7	279.9	421.3	753.9	536.8	503.0	474.7	479.4
77.5°	89.5	92.2	96.9	109.7	146.9	235.3	593.5	680.6	642.1	603.6	528.3
80°	50.6	50.6	55.0	58.1	69.5	95.9	301.8	736.6	804.8	821.4	737.6
82.5°	22.6	25.3	34.1	36.5	39.8	43.9	99.9	442.6	614.1	767.0	948.0
85°	13.5	13.2	21.6	23.6	24.6	20.9	37.5	180.6	287.0	420.0	628.3
87.5°	5.4	5.7	9.1	9.8	11.5	8.4	14.2	38.8	57.1	82.7	116.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	482.1	482.1	481.8	481.4	481.1	480.1	479.7	479.0	478.7	477.7	477.4
5°	501.3	500.3	500.0	499.3	499.0	497.6	497.6	496.3	495.3	493.9	493.6
7.5°	524.3	522.9	521.9	521.2	520.9	518.5	518.5	516.5	516.2	514.5	513.8
10°	547.6	546.6	545.2	544.5	544.2	542.9	541.5	540.2	539.1	538.1	536.8
12.5°	570.9	568.8	568.2	567.2	566.5	565.5	565.1	562.1	562.1	561.1	559.7
15°	593.5	593.2	590.8	590.5	589.8	590.1	588.1	588.4	587.4	585.7	585.1
17.5°	621.2	618.8	619.8	618.1	618.5	617.8	617.1	616.8	617.5	617.1	617.8
20°	655.6	654.9	655.9	653.6	655.9	656.3	655.6	657.3	656.6	657.3	655.3
22.5°	696.5	694.1	694.1	695.8	696.8	699.8	698.1	699.5	700.9	701.9	700.5
25°	737.6	737.0	738.3	739.7	741.7	744.4	743.7	744.1	746.8	748.5	748.8
27.5°	779.5	779.5	783.6	783.6	786.3	789.3	790.3	791.7	793.7	796.1	796.1
30°	822.7	822.7	826.4	829.8	831.2	834.9	836.9	838.9	842.6	843.3	846.4
32.5°	872.0	873.0	876.7	878.8	881.8	886.2	886.9	889.2	893.6	895.0	897.3
35°	936.2	932.8	936.2	939.9	941.6	940.2	947.6	950.7	953.7	955.4	958.4
37.5°	1002.3	996.6	996.9	996.2	992.2	994.6	994.6	993.9	995.9	995.6	996.9
40°	1086.0	1075.9	1072.9	1066.5	1057.7	1053.0	1047.9	1047.2	1042.2	1044.2	1040.5
42.5°	1200.8	1185.6	1177.5	1157.6	1146.8	1134.0	1121.5	1110.7	1105.0	1098.5	1093.8
45°	1358.5	1340.6	1321.0	1288.9	1270.4	1244.7	1228.2	1203.5	1187.0	1173.1	1163.4
47.5°	1556.3	1526.3	1510.4	1480.4	1448.0	1409.1	1373.7	1339.2	1311.2	1280.8	1256.9
50°	1786.2	1748.7	1736.3	1696.4	1678.2	1634.6	1596.8	1554.3	1510.4	1464.5	1420.6
52.5°	1989.8	1985.4	1990.5	1963.8	1963.1	1941.2	1899.3	1849.7	1808.8	1762.6	1704.9
55°	2233.9	2277.4	2286.9	2283.2	2303.1	2302.4	2298.4	2293.3	2260.9	2195.4	2175.5
57.5°	2664.6	2713.6	2785.8	2818.6	2890.8	2899.3	2966.1	2940.1	2989.8	2976.2	2985.4
60°	3103.2	3253.4	3390.5	3494.8	3596.1	3688.2	3801.0	3849.3	3885.4	3941.8	4001.2
62.5°	3299.3	3488.7	3652.1	3800.7	3926.6	4043.4	4140.3	4232.1	4304.4	4369.2	4419.1
65°	3220.0	3439.8	3599.1	3754.1	3871.6	3980.3	4076.5	4145.3	4217.3	4276.0	4329.0
67.5°	2680.9	2973.5	3181.5	3357.4	3504.9	3628.8	3728.8	3823.6	3874.6	3938.7	3967.4
70°	1775.8	2151.2	2445.2	2682.9	2916.8	3057.3	3175.8	3286.2	3344.2	3396.2	3428.3
72.5°	975.3	1231.9	1545.9	1828.4	2053.3	2237.6	2375.7	2480.3	2540.1	2584.6	2538.4
75°	552.6	679.2	832.9	989.2	1159.6	1289.6	1326.1	1370.6	1381.1	1358.2	1298.7
77.5°	508.1	508.1	508.4	504.7	512.1	521.2	515.8	506.7	465.5	456.4	443.6
80°	660.7	588.8	511.8	420.3	342.7	289.0	272.4	273.8	287.0	312.6	341.0
82.5°	936.5	865.6	754.5	615.1	489.5	384.2	315.0	283.2	282.9	308.6	345.4
85°	683.0	688.7	664.1	587.4	468.6	369.0	298.1	228.9	206.6	206.6	203.9
87.5°	119.5	123.2	106.3	95.2	66.5	46.9	42.2	37.1	36.8	38.1	35.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	477.4	476.7	476.0	475.7	475.7	475.0	475.0	474.3	474.7	474.3	473.3
5°	492.9	492.6	491.5	489.9	489.5	488.2	488.5	487.2	487.2	486.5	484.8
7.5°	512.5	511.8	511.1	509.8	508.4	508.4	506.1	506.1	504.4	503.7	502.3
10°	535.8	533.7	532.7	531.4	531.0	530.7	528.3	528.3	526.3	526.0	525.0
12.5°	558.7	557.4	556.4	555.7	554.0	553.7	552.6	551.6	550.6	549.9	549.6
15°	583.7	583.0	582.0	582.0	582.0	580.3	579.3	578.6	578.6	577.6	578.3
17.5°	616.1	617.1	615.8	615.1	614.1	615.8	614.1	614.1	615.1	615.1	612.7
20°	656.3	657.6	656.3	656.6	655.9	656.3	656.6	657.3	658.7	656.3	656.6
22.5°	700.9	701.2	702.2	701.2	702.9	701.9	703.9	705.6	705.2	704.6	704.9
25°	749.5	748.5	748.8	751.8	754.2	753.5	753.9	756.6	755.9	755.2	755.5
27.5°	798.8	798.1	799.1	801.8	804.5	804.2	803.5	805.5	805.5	803.8	804.5
30°	847.7	848.7	850.4	850.4	851.8	853.1	852.1	854.5	854.8	853.4	855.1
32.5°	899.4	901.4	900.7	905.4	905.4	905.8	906.8	906.4	909.8	907.1	908.1
35°	961.5	962.1	966.2	969.6	971.6	973.3	973.3	974.3	976.0	974.6	976.7
37.5°	999.3	1000.6	1002.0	1004.0	1004.0	1004.0	1005.7	1006.0	1007.0	1006.7	1007.4
40°	1040.8	1041.1	1041.5	1041.8	1043.2	1043.8	1042.2	1044.5	1042.8	1043.5	1044.5
42.5°	1091.1	1086.4	1087.1	1086.0	1088.4	1085.4	1086.0	1088.7	1087.4	1089.4	1089.4
45°	1149.5	1144.1	1139.4	1136.7	1136.7	1132.6	1133.3	1134.3	1136.0	1138.7	1143.4
47.5°	1235.9	1217.4	1208.3	1198.8	1194.1	1189.0	1190.7	1191.0	1191.7	1196.1	1207.9
50°	1377.4	1346.3	1322.4	1293.7	1282.9	1274.1	1269.0	1269.4	1269.4	1278.5	1290.3
52.5°	1650.8	1593.1	1536.1	1486.1	1443.2	1422.6	1398.7	1392.6	1392.9	1400.7	1408.8
55°	2123.1	2043.8	1983.4	1872.3	1838.5	1743.7	1693.7	1665.0	1642.7	1653.5	1665.4
57.5°	2970.5	2897.3	2849.3	2716.6	2595.8	2561.3	2479.3	2412.8	2385.5	2353.7	2355.7
60°	4010.0	3972.2	3960.0	3882.4	3838.8	3703.4	3692.6	3608.6	3529.2	3460.7	3488.7
62.5°	4457.6	4475.2	4489.4	4516.7	4527.2	4514.3	4460.0	4422.9	4357.7	4267.9	4212.9
65°	4344.5	4384.7	4445.1	4502.2	4570.4	4627.1	4655.1	4644.3	4585.6	4493.1	4377.6
67.5°	3988.0	4028.9	4080.9	4153.1	4257.4	4367.8	4444.8	4493.7	4447.2	4363.8	4246.3
70°	3426.6	3466.4	3468.1	3569.1	3681.5	3820.6	3957.0	4008.3	3955.3	3899.6	3801.3
72.5°	2566.4	2542.4	2564.7	2583.3	2647.4	2735.2	2867.5	2861.8	2780.8	2737.6	2586.7
75°	1206.2	1190.0	1166.4	1150.9	1136.0	1105.0	1119.8	1056.3	1034.4	1043.2	912.9
77.5°	433.8	411.5	375.7	341.0	297.1	246.1	207.6	182.3	169.8	170.1	162.4
80°	363.9	374.7	369.7	335.2	285.9	232.6	174.2	132.0	112.8	104.7	99.6
82.5°	394.7	449.0	476.0	454.7	384.2	295.7	190.4	115.1	84.4	72.2	69.2
85°	218.8	219.1	212.3	202.9	179.9	123.6	82.4	54.7	43.9	39.2	37.8
87.5°	37.1	35.4	35.4	33.1	29.0	28.4	25.3	24.0	21.3	19.6	18.9
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°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	472.3	471.6	471.3	470.9	470.9	470.6	470.6	469.9	469.3	468.9	468.6
5°	483.1	482.4	481.8	481.1	481.1	480.4	479.7	479.0	478.0	476.3	476.0
7.5°	501.3	500.0	500.0	497.6	497.6	496.3	495.3	495.3	493.9	491.2	490.9
10°	523.9	521.6	520.6	519.2	518.5	517.2	517.2	515.8	515.2	514.2	510.8
12.5°	548.3	546.6	545.9	544.2	543.2	543.2	542.5	540.2	541.8	539.5	537.8
15°	577.6	577.3	574.3	575.3	574.9	574.6	574.9	572.9	572.6	572.6	570.5
17.5°	614.4	611.7	612.1	612.1	612.7	612.7	610.0	611.4	611.7	611.0	610.4
20°	657.6	656.6	657.6	655.6	657.6	657.6	659.0	658.7	659.0	659.7	659.7
22.5°	703.9	706.6	706.9	707.6	705.2	709.3	709.3	710.0	711.7	711.7	712.3
25°	759.9	758.6	756.9	759.3	759.9	762.6	763.3	763.3	766.0	766.0	767.0
27.5°	806.5	807.9	807.5	808.9	808.2	811.9	813.3	817.3	816.3	818.3	821.0
30°	854.5	857.2	855.8	856.1	857.8	860.2	862.9	866.9	867.6	873.0	874.4
32.5°	909.8	911.8	913.5	914.2	914.2	918.3	922.7	924.0	931.1	935.1	939.9
35°	980.0	980.4	981.4	982.4	981.7	986.1	990.5	991.9	999.3	1000.3	1010.1
37.5°	1009.8	1010.4	1014.5	1016.5	1017.9	1023.3	1031.4	1037.4	1045.5	1053.3	1064.4
40°	1046.9	1050.9	1054.7	1057.7	1062.8	1070.2	1082.7	1088.7	1100.9	1115.4	1126.2
42.5°	1093.8	1101.2	1103.9	1109.7	1122.2	1131.3	1143.8	1156.9	1173.1	1190.7	1203.5
45°	1149.5	1156.6	1166.7	1173.1	1187.7	1202.2	1222.1	1233.6	1250.1	1270.4	1284.6
47.5°	1217.0	1226.8	1237.0	1250.1	1267.3	1282.5	1302.4	1317.3	1333.8	1350.4	1365.9
50°	1301.1	1315.6	1329.1	1343.0	1365.9	1378.7	1398.3	1413.9	1429.4	1445.9	1460.1
52.5°	1414.2	1436.1	1453.4	1462.8	1493.9	1506.7	1530.7	1541.5	1554.3	1569.1	1587.4
55°	1661.0	1695.1	1724.1	1741.0	1788.2	1805.1	1836.2	1852.1	1843.3	1862.2	1894.9
57.5°	2374.7	2416.5	2451.3	2474.2	2522.5	2546.2	2547.8	2607.3	2572.1	2606.9	2612.0
60°	3414.1	3447.2	3438.8	3439.1	3423.9	3402.0	3444.2	3380.0	3407.0	3408.7	3348.3
62.5°	4111.2	4060.6	4037.0	3997.8	3952.2	3917.1	3893.2	3841.5	3800.3	3767.6	3703.8
65°	4275.3	4187.5	4109.9	4036.6	3969.5	3922.9	3872.2	3816.9	3752.4	3698.0	3635.9
67.5°	4116.7	3993.8	3878.6	3782.1	3690.3	3628.8	3555.6	3502.9	3421.9	3350.3	3303.0
70°	3656.5	3486.4	3352.0	3290.2	3199.1	3067.1	2997.2	2931.3	2881.7	2816.9	2788.2
72.5°	2565.1	2355.1	2251.4	2255.5	2163.0	2068.5	2070.8	2030.6	1966.5	1964.5	1954.7
75°	942.6	857.5	797.7	800.4	766.0	729.2	739.3	750.1	729.2	771.7	705.9
77.5°	149.9	145.8	144.5	141.5	134.0	139.4	135.7	142.8	143.8	151.6	152.3
80°	95.5	91.5	90.5	88.8	88.5	88.5	87.8	87.8	87.8	88.1	87.4
82.5°	63.8	61.4	61.1	60.1	61.8	62.1	62.5	65.2	67.5	68.2	70.9
85°	34.8	33.1	33.1	32.4	33.8	34.1	37.1	40.8	45.6	47.6	52.0
87.5°	17.6	18.6	18.2	18.9	19.9	22.3	24.6	27.0	29.7	33.4	36.5
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9	468.9
2.5°	467.9	467.6	467.6	466.9	466.9	466.6	465.9	465.2	462.2	458.5	456.1
5°	475.0	474.3	474.0	473.3	472.3	472.3	471.3	469.9	464.2	458.1	454.4
7.5°	489.5	489.2	488.2	486.8	485.5	484.1	483.4	482.8	474.0	468.2	465.5
10°	510.4	510.1	507.7	507.4	505.4	505.7	504.0	502.7	496.9	490.5	486.8
12.5°	537.1	538.5	537.1	534.1	534.8	533.7	532.1	530.4	525.3	520.2	514.5
15°	570.2	568.5	567.2	569.9	567.5	567.2	568.2	568.5	562.4	557.0	548.9
17.5°	611.4	611.4	610.7	611.4	610.0	611.0	610.4	611.0	608.3	600.9	589.1
20°	658.3	661.0	661.0	660.0	659.7	661.7	662.7	659.0	659.7	653.2	632.0
22.5°	713.0	715.0	715.7	714.7	715.0	717.7	719.4	716.7	722.8	712.3	679.6
25°	769.4	772.4	771.1	771.4	774.1	777.1	780.2	777.5	789.3	773.1	730.2
27.5°	825.1	827.8	827.1	829.1	833.5	837.6	841.0	839.9	859.5	838.3	783.6
30°	877.8	884.2	885.5	887.9	893.3	900.0	905.4	905.1	930.4	901.7	827.1
32.5°	942.6	949.7	952.4	957.4	967.9	972.6	979.4	980.0	1005.4	957.4	863.9
35°	1017.5	1024.6	1030.3	1034.1	1045.9	1051.6	1058.4	1061.4	1078.3	1009.4	889.6
37.5°	1075.6	1081.7	1092.8	1100.6	1111.0	1122.5	1130.3	1134.0	1143.4	1054.0	901.4
40°	1139.1	1152.2	1163.0	1174.8	1186.3	1195.4	1202.5	1208.3	1204.5	1091.1	896.3
42.5°	1219.4	1233.2	1247.8	1257.9	1264.0	1276.1	1279.5	1283.5	1253.2	1108.0	873.4
45°	1303.1	1314.3	1326.4	1333.8	1341.9	1348.0	1349.0	1349.4	1289.3	1098.2	831.8
47.5°	1383.8	1393.3	1401.7	1405.8	1409.8	1410.1	1408.5	1405.8	1308.5	1065.1	781.9
50°	1472.3	1478.0	1481.7	1482.0	1485.8	1478.7	1473.9	1461.5	1306.5	1014.5	729.2
52.5°	1599.5	1598.2	1593.5	1593.1	1581.3	1567.8	1559.0	1541.1	1292.7	959.8	668.4
55°	1891.9	1879.1	1893.9	1856.1	1824.7	1803.8	1754.2	1718.0	1306.5	908.8	598.6
57.5°	2594.4	2550.5	2555.3	2494.2	2427.3	2302.1	2228.1	2128.2	1415.2	880.5	510.4
60°	3335.5	3263.2	3195.0	3086.6	2944.5	2785.5	2642.4	2486.1	1523.2	845.7	416.6
62.5°	3641.3	3548.1	3429.6	3276.7	3094.1	2896.9	2699.1	2520.8	1463.8	741.0	300.1
65°	3542.7	3431.3	3305.1	3105.5	2898.3	2669.0	2452.3	2263.9	1219.1	541.8	181.3
67.5°	3192.6	3096.8	2941.1	2752.8	2496.2	2266.3	2051.9	1877.7	898.7	334.9	104.0
70°	2688.3	2555.6	2422.6	2241.6	1971.2	1754.5	1555.0	1401.0	570.2	165.4	76.6
72.5°	1855.4	1750.4	1644.1	1482.0	1280.2	1130.9	959.4	832.9	298.4	89.1	70.6
75°	722.8	711.3	699.2	625.6	557.0	446.3	391.9	353.5	124.2	77.3	69.5
77.5°	158.7	168.1	173.5	164.4	156.6	139.8	133.7	119.5	83.0	79.3	68.9
80°	87.4	87.4	87.4	88.5	86.8	86.8	85.7	84.1	77.6	79.3	67.5
82.5°	71.6	72.6	73.9	74.3	73.9	74.3	73.6	73.3	76.0	79.7	64.1
85°	54.7	58.1	60.1	62.8	65.5	67.2	67.9	68.2	69.9	75.6	56.0
87.5°	38.8	41.5	45.9	46.6	49.6	53.3	54.7	56.7	55.7	57.4	26.3
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):

	145°	155°	165°	175°	180°
0°	468.9	468.9	468.9	468.9	468.9
2.5°	454.1	451.4	450.4	450.0	449.3
5°	451.4	449.7	448.3	447.3	448.0
7.5°	463.5	462.5	460.1	459.5	460.5
10°	485.1	482.8	479.4	479.7	479.4
12.5°	512.1	505.7	500.3	498.0	496.3
15°	539.8	527.3	516.2	511.1	509.1
17.5°	570.5	549.3	532.1	522.9	521.2
20°	602.9	573.6	551.3	540.5	538.8
22.5°	640.4	599.9	571.6	556.7	554.3
25°	676.9	623.5	585.7	567.5	564.5
27.5°	710.0	641.4	594.2	572.6	569.5
30°	737.6	655.6	601.3	576.6	573.2
32.5°	755.9	663.4	603.6	577.0	572.9
35°	761.6	658.3	593.5	562.8	559.4
37.5°	749.5	637.7	566.5	531.7	529.0
40°	721.8	599.6	523.9	487.8	484.5
42.5°	678.6	551.3	474.7	436.5	433.5
45°	630.6	499.6	422.3	384.2	381.1
47.5°	578.3	445.0	367.3	332.2	327.5
50°	520.9	385.5	311.3	276.8	272.4
52.5°	453.7	320.7	251.8	220.8	218.1
55°	375.1	255.6	200.5	177.9	175.2
57.5°	291.7	194.5	159.3	148.2	143.8
60°	211.7	147.9	126.9	121.5	119.2
62.5°	143.8	110.4	102.3	100.6	98.9
65°	97.6	86.4	84.1	84.4	83.4
67.5°	77.0	72.6	71.2	71.9	71.6
70°	67.5	64.1	63.8	64.5	64.1
72.5°	63.8	59.4	60.1	61.1	60.8
75°	62.1	57.4	58.7	59.4	57.7
77.5°	60.4	54.4	58.4	59.8	56.4
80°	58.1	51.7	61.1	60.4	54.0
82.5°	53.0	45.6	59.8	54.7	48.6
85°	43.2	34.1	67.2	48.3	35.4
87.5°	27.7	20.6	46.6	36.8	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)