

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: P146333

Luminaire Tested: **LDRL-T2-F02-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146333
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-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4178.4 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

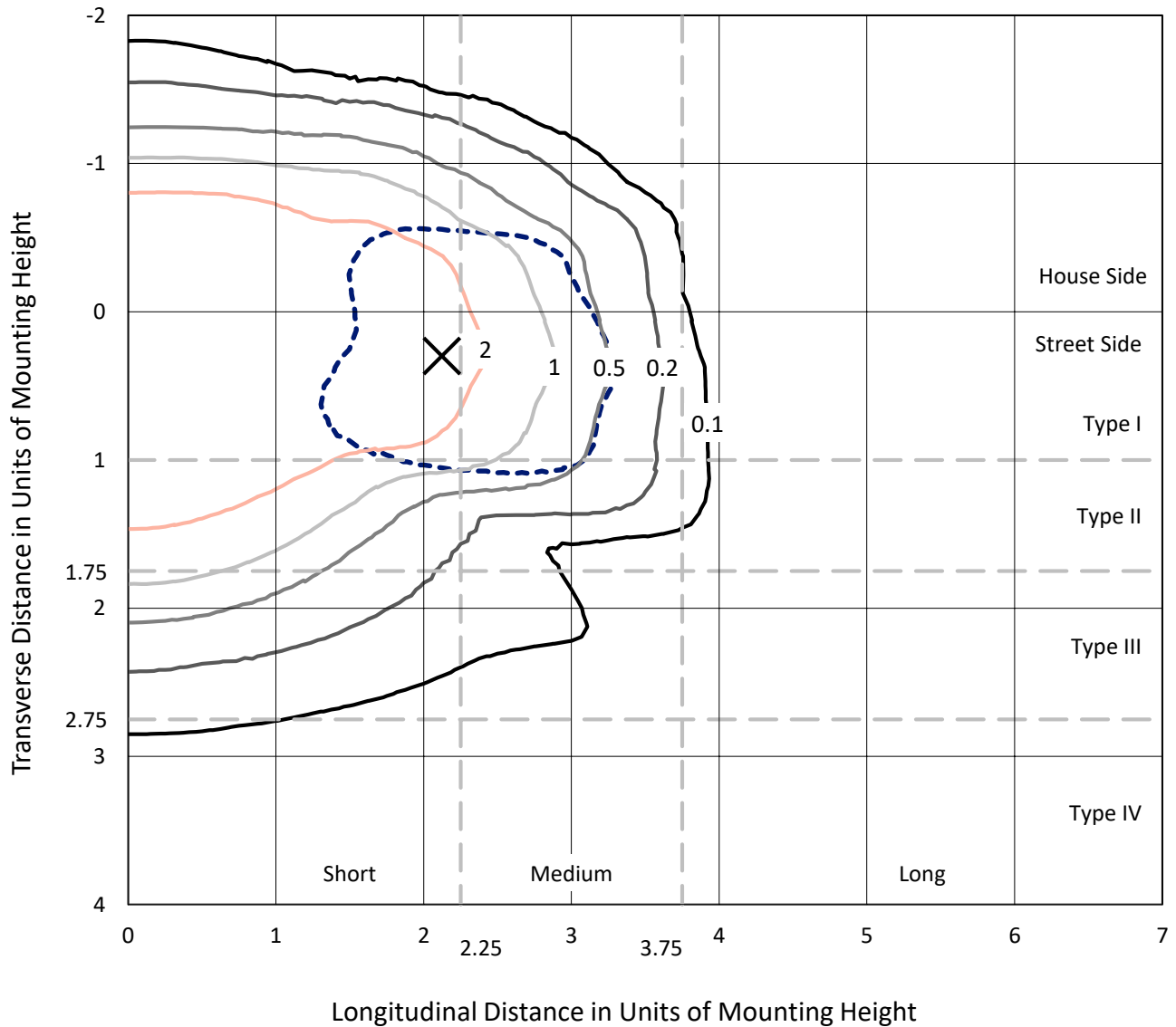
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

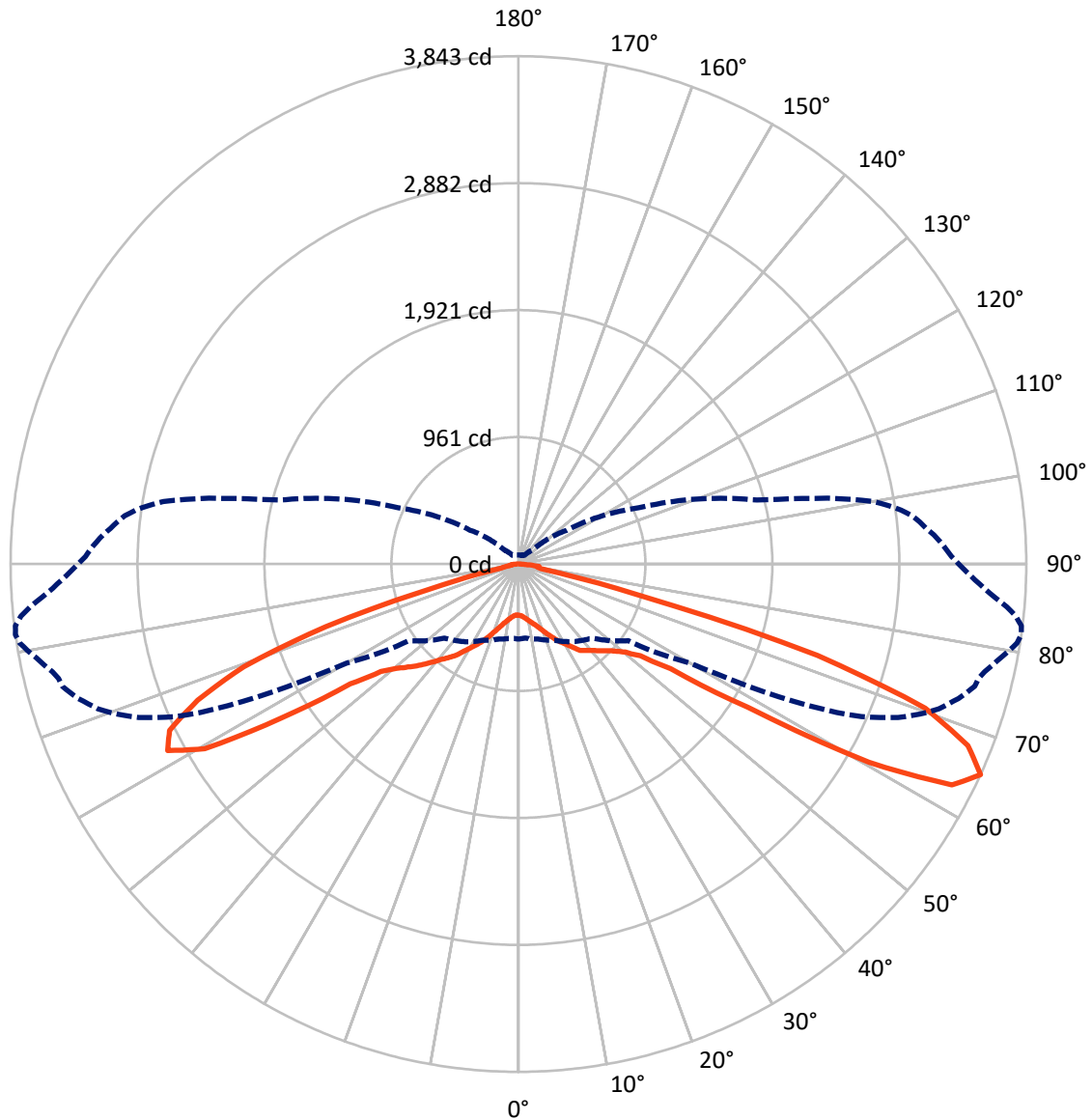
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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	1538.1	0.0	1538.1
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	2640.3	0.0	2640.3
	% Fixture	63.2	0.0	63.2
Total	Lumens	4178.4	0.0	4178.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	0.9
10°-20°	138.4	3.3
20°-30°	274.5	6.6
30°-40°	468.3	11.2
40°-50°	702.2	16.8
50°-60°	977.5	23.4
60°-70°	1123.0	26.9
70°-80°	387.5	9.3
80°-90°	67.8	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°	4178.4	100.0
0°-180°	4178.4	100.0



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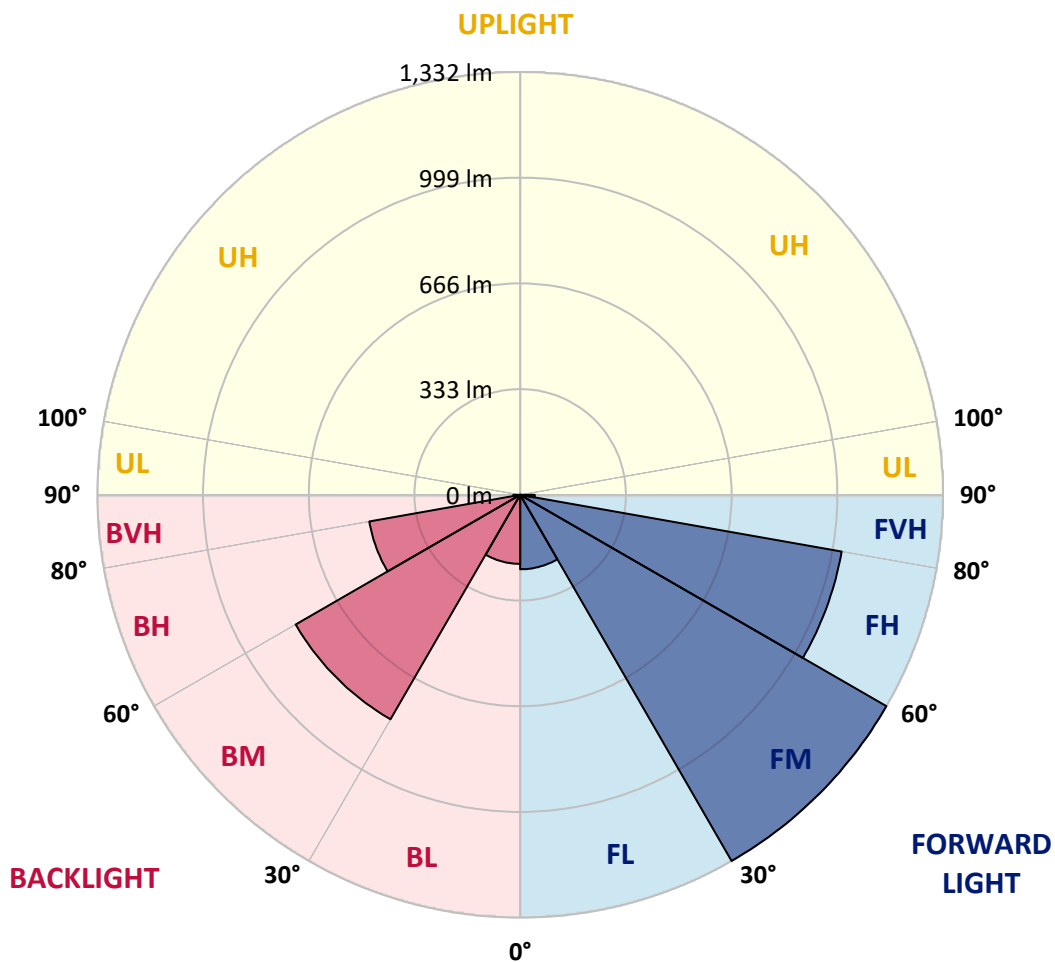
CATALOG NUMBER: LDRL-T2-F02-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.5	5.6			
FM	(30°-60°)	1331.7	31.9			
FH	(60°-80°)	1028.0	24.6			G1/1800
FVH	(80°-90°)	46.0	1.1			G1/100
BL	(0°-30°)	217.6	5.2	B1/500		
BM	(30°-60°)	816.3	19.5	B1/1000		
BH	(60°-80°)	482.5	11.5	B1/500		G1/500
BVH	(80°-90°)	21.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	408.6	408.3	408.0	406.9	406.3	404.1	401.9	400.5	399.4	399.9	398.3
5°	432.3	432.3	431.1	429.7	428.1	425.0	419.4	416.6	416.1	416.1	414.1
7.5°	456.5	458.2	455.1	454.0	451.2	446.5	440.1	436.4	435.3	435.3	433.6
10°	487.2	486.3	483.0	480.7	475.2	468.8	460.1	455.9	454.3	455.7	452.9
12.5°	519.5	519.2	514.2	510.0	502.2	491.9	480.5	474.9	473.8	473.8	472.1
15°	552.4	552.7	547.1	539.3	527.0	513.1	500.3	495.0	493.6	493.0	491.1
17.5°	577.5	580.2	574.7	564.6	549.6	534.3	520.6	515.3	515.0	514.5	512.2
20°	591.7	592.2	589.2	581.9	568.5	553.8	544.3	541.8	541.5	541.8	542.3
22.5°	591.1	591.9	590.8	588.0	579.4	571.3	570.2	571.6	572.4	571.6	573.6
25°	586.7	587.8	587.8	589.2	586.9	589.7	598.6	602.5	602.8	603.4	607.6
27.5°	596.4	597.5	597.2	599.7	601.7	611.5	627.6	634.6	635.4	637.4	641.3
30°	641.6	641.8	636.8	636.5	638.5	646.3	662.7	670.8	670.0	673.9	676.4
32.5°	712.9	715.1	710.1	704.8	704.0	705.1	708.2	713.7	712.9	714.9	718.2
35°	794.3	794.6	791.8	794.8	796.5	789.0	774.5	773.1	768.6	769.5	770.6
37.5°	869.0	870.9	876.2	895.7	906.9	888.5	860.1	842.2	839.4	838.0	828.3
40°	938.9	948.7	961.5	986.9	1002.2	1008.9	968.5	932.5	922.8	918.9	903.5
42.5°	1020.9	1025.9	1040.9	1069.9	1090.3	1120.6	1093.6	1054.0	1042.6	1025.9	1006.6
45°	1090.3	1093.6	1103.1	1127.6	1170.2	1221.0	1224.0	1196.4	1187.5	1170.8	1142.6
47.5°	1136.8	1136.5	1143.5	1167.5	1222.9	1300.4	1346.4	1345.3	1334.9	1329.1	1305.1
50°	1154.9	1154.6	1159.1	1185.8	1246.3	1347.8	1449.2	1484.0	1483.8	1486.0	1473.7
52.5°	1158.3	1158.0	1158.5	1180.0	1241.6	1364.2	1523.3	1605.6	1617.5	1632.6	1646.2
55°	1133.2	1136.0	1142.1	1164.7	1223.7	1357.5	1578.2	1719.5	1748.2	1778.9	1828.5
57.5°	1075.2	1080.5	1101.7	1142.1	1204.8	1341.1	1616.4	1860.6	1918.8	1992.9	2127.3
60°	992.2	996.9	1026.2	1079.7	1149.6	1269.5	1572.1	1919.6	2030.3	2159.0	2434.4
62.5°	845.3	858.7	874.3	912.2	985.5	1081.9	1373.1	1819.9	1991.3	2180.2	2559.2
65°	567.7	562.1	588.0	636.3	716.8	791.8	1011.7	1501.0	1717.9	1977.9	2446.9
67.5°	351.4	352.3	369.8	416.9	477.7	535.9	641.3	956.8	1149.1	1396.3	1960.3
70°	290.4	293.7	308.0	351.7	403.5	469.3	476.0	507.2	593.3	712.9	1210.9
72.5°	230.5	231.9	246.4	282.9	356.2	446.5	565.2	385.4	378.7	396.9	614.2
75°	143.0	144.1	151.3	174.7	231.0	347.8	622.3	443.1	415.3	391.8	395.7
77.5°	73.9	76.1	80.0	90.6	121.2	194.2	489.9	561.8	530.1	498.3	436.2
80°	41.8	41.8	45.4	47.9	57.4	79.1	249.2	608.1	664.4	678.1	608.9
82.5°	18.7	20.9	28.1	30.1	32.9	36.2	82.5	365.4	506.9	633.2	782.6
85°	11.1	10.9	17.8	19.5	20.3	17.3	30.9	149.1	236.9	346.7	518.6
87.5°	4.5	4.7	7.5	8.1	9.5	7.0	11.7	32.0	47.1	68.3	96.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	398.0	398.0	397.7	397.4	397.1	396.3	396.0	395.5	395.2	394.4	394.1
5°	413.9	413.0	412.7	412.2	411.9	410.8	410.8	409.7	408.8	407.7	407.5
7.5°	432.8	431.7	430.9	430.3	430.0	428.1	428.1	426.4	426.1	424.7	424.2
10°	452.0	451.2	450.1	449.5	449.3	448.1	447.0	445.9	445.1	444.2	443.1
12.5°	471.3	469.6	469.0	468.2	467.6	466.8	466.5	464.0	464.0	463.2	462.1
15°	489.9	489.7	487.7	487.4	486.9	487.2	485.5	485.8	484.9	483.5	483.0
17.5°	512.8	510.8	511.7	510.3	510.6	510.0	509.5	509.2	509.7	509.5	510.0
20°	541.2	540.7	541.5	539.6	541.5	541.8	541.2	542.6	542.1	542.6	540.9
22.5°	574.9	573.0	573.0	574.4	575.2	577.7	576.3	577.5	578.6	579.4	578.3
25°	608.9	608.4	609.5	610.6	612.3	614.5	614.0	614.2	616.5	617.9	618.1
27.5°	643.5	643.5	646.8	646.8	649.1	651.6	652.4	653.5	655.2	657.2	657.2
30°	679.2	679.2	682.2	685.0	686.1	689.2	690.9	692.6	695.6	696.2	698.7
32.5°	719.9	720.7	723.8	725.4	727.9	731.6	732.1	734.1	737.7	738.8	740.8
35°	772.8	770.0	772.8	775.9	777.3	776.2	782.3	784.8	787.3	788.7	791.2
37.5°	827.4	822.7	823.0	822.4	819.1	821.0	821.0	820.5	822.1	821.9	823.0
40°	896.6	888.2	885.7	880.4	873.1	869.2	865.1	864.5	860.3	862.0	858.9
42.5°	991.3	978.8	972.1	955.6	946.7	936.1	925.8	916.9	912.2	906.9	903.0
45°	1121.5	1106.7	1090.5	1064.1	1048.7	1027.5	1013.9	993.5	979.9	968.5	960.4
47.5°	1284.8	1260.0	1246.9	1222.1	1195.3	1163.3	1134.0	1105.6	1082.4	1057.4	1037.6
50°	1474.6	1443.6	1433.3	1400.4	1385.4	1349.4	1318.2	1283.1	1246.9	1209.0	1172.7
52.5°	1642.6	1639.0	1643.2	1621.2	1620.6	1602.5	1567.9	1527.0	1493.2	1455.1	1407.4
55°	1844.1	1880.1	1887.9	1884.8	1901.3	1900.7	1897.4	1893.2	1866.4	1812.3	1795.9
57.5°	2199.7	2240.1	2299.8	2326.8	2386.5	2393.4	2448.6	2427.1	2468.1	2457.0	2464.5
60°	2561.8	2685.8	2798.9	2885.0	2968.7	3044.7	3137.8	3177.7	3207.5	3254.0	3303.1
62.5°	2723.7	2880.0	3014.9	3137.5	3241.5	3337.9	3417.9	3493.7	3553.4	3606.9	3648.1
65°	2658.2	2839.6	2971.2	3099.1	3196.1	3285.8	3365.2	3422.1	3481.4	3529.9	3573.7
67.5°	2213.1	2454.7	2626.4	2771.6	2893.4	2995.7	3078.2	3156.5	3198.6	3251.5	3275.2
70°	1465.9	1775.8	2018.6	2214.8	2407.9	2523.9	2621.7	2712.8	2760.7	2803.7	2830.1
72.5°	805.1	1017.0	1276.1	1509.4	1695.0	1847.2	1961.2	2047.6	2096.9	2133.7	2095.5
75°	456.2	560.7	687.5	816.6	957.3	1064.6	1094.7	1131.5	1140.1	1121.2	1072.1
77.5°	419.4	419.4	419.7	416.6	422.8	430.3	425.8	418.3	384.3	376.8	366.2
80°	545.4	486.0	422.5	347.0	282.9	238.6	224.9	226.0	236.9	258.1	281.5
82.5°	773.1	714.6	622.9	507.8	404.1	317.2	260.0	233.8	233.5	254.7	285.1
85°	563.8	568.5	548.2	484.9	386.8	304.6	246.1	189.0	170.6	170.6	168.3
87.5°	98.7	101.7	87.8	78.6	54.9	38.7	34.8	30.7	30.4	31.5	29.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	394.1	393.5	393.0	392.7	392.7	392.1	392.1	391.6	391.8	391.6	390.7
5°	406.9	406.6	405.8	404.4	404.1	403.0	403.3	402.2	402.2	401.6	400.2
7.5°	423.1	422.5	421.9	420.8	419.7	419.7	417.8	417.8	416.4	415.8	414.7
10°	442.3	440.6	439.8	438.7	438.4	438.1	436.2	436.2	434.5	434.2	433.4
12.5°	461.2	460.1	459.3	458.7	457.3	457.1	456.2	455.4	454.6	454.0	453.7
15°	481.9	481.3	480.5	480.5	480.5	479.1	478.2	477.7	477.7	476.8	477.4
17.5°	508.6	509.5	508.3	507.8	506.9	508.3	506.9	506.9	507.8	507.8	505.8
20°	541.8	542.9	541.8	542.1	541.5	541.8	542.1	542.6	543.7	541.8	542.1
22.5°	578.6	578.8	579.7	578.8	580.2	579.4	581.1	582.5	582.2	581.6	581.9
25°	618.7	617.9	618.1	620.7	622.6	622.0	622.3	624.6	624.0	623.4	623.7
27.5°	659.4	658.8	659.7	661.9	664.1	663.8	663.3	665.0	665.0	663.6	664.1
30°	699.8	700.6	702.0	702.0	703.1	704.3	703.4	705.4	705.7	704.5	705.9
32.5°	742.4	744.1	743.6	747.5	747.5	747.7	748.6	748.3	751.1	748.9	749.7
35°	793.7	794.3	797.6	800.4	802.1	803.5	803.5	804.3	805.7	804.6	806.3
37.5°	824.9	826.0	827.2	828.8	828.8	828.8	830.2	830.5	831.3	831.1	831.6
40°	859.2	859.5	859.8	860.1	861.2	861.7	860.3	862.3	860.9	861.4	862.3
42.5°	900.7	896.8	897.4	896.6	898.5	896.0	896.6	898.8	897.7	899.3	899.3
45°	949.0	944.5	940.6	938.4	938.4	935.0	935.6	936.4	937.8	940.0	943.9
47.5°	1020.3	1005.0	997.4	989.6	985.7	981.6	983.0	983.2	983.8	987.4	997.2
50°	1137.1	1111.4	1091.6	1068.0	1059.0	1051.8	1047.6	1047.9	1047.9	1055.4	1065.2
52.5°	1362.8	1315.2	1268.1	1226.8	1191.4	1174.4	1154.6	1149.6	1149.9	1156.3	1163.0
55°	1752.7	1687.2	1637.3	1545.6	1517.8	1439.5	1398.2	1374.5	1356.1	1365.0	1374.8
57.5°	2452.2	2391.8	2352.2	2242.7	2142.9	2114.5	2046.7	1991.8	1969.3	1943.1	1944.7
60°	3310.3	3279.1	3269.1	3205.0	3169.0	3057.3	3048.4	2979.0	2913.5	2856.9	2880.0
62.5°	3679.9	3694.4	3706.1	3728.6	3737.3	3726.7	3681.8	3651.2	3597.4	3523.3	3477.8
65°	3586.5	3619.7	3669.6	3716.7	3773.0	3819.8	3842.9	3834.0	3785.5	3709.1	3613.8
67.5°	3292.2	3325.9	3368.9	3428.5	3514.6	3605.7	3669.3	3709.7	3671.2	3602.4	3505.4
70°	2828.7	2861.6	2863.0	2946.4	3039.2	3154.0	3266.6	3308.9	3265.2	3219.2	3138.1
72.5°	2118.6	2098.8	2117.2	2132.6	2185.5	2258.0	2367.2	2362.5	2295.6	2259.9	2135.4
75°	995.8	982.4	962.9	950.1	937.8	912.2	924.4	872.0	853.9	861.2	753.6
77.5°	358.1	339.7	310.2	281.5	245.3	203.2	171.4	150.5	140.2	140.5	134.1
80°	300.4	309.4	305.2	276.7	236.1	192.0	143.8	109.0	93.1	86.4	82.2
82.5°	325.8	370.7	393.0	375.4	317.2	244.1	157.2	95.0	69.7	59.6	57.1
85°	180.6	180.9	175.3	167.5	148.5	102.0	68.0	45.1	36.2	32.3	31.2
87.5°	30.7	29.3	29.3	27.3	24.0	23.4	20.9	19.8	17.6	16.2	15.6
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	389.9	389.3	389.1	388.8	388.8	388.5	388.5	387.9	387.4	387.1	386.8
5°	398.8	398.3	397.7	397.1	397.1	396.6	396.0	395.5	394.6	393.2	393.0
7.5°	413.9	412.7	412.7	410.8	410.8	409.7	408.8	408.8	407.7	405.5	405.2
10°	432.5	430.6	429.7	428.6	428.1	427.0	427.0	425.8	425.3	424.5	421.7
12.5°	452.6	451.2	450.6	449.3	448.4	448.4	447.9	445.9	447.3	445.4	444.0
15°	476.8	476.6	474.1	474.9	474.6	474.3	474.6	472.9	472.7	472.7	471.0
17.5°	507.2	505.0	505.3	505.3	505.8	505.8	503.6	504.7	505.0	504.4	503.9
20°	542.9	542.1	542.9	541.2	542.9	542.9	544.0	543.7	544.0	544.6	544.6
22.5°	581.1	583.3	583.6	584.1	582.2	585.5	585.5	586.1	587.5	587.5	588.0
25°	627.3	626.2	624.8	626.8	627.3	629.6	630.1	630.1	632.4	632.4	633.2
27.5°	665.8	666.9	666.6	667.8	667.2	670.3	671.4	674.7	673.9	675.6	677.8
30°	705.4	707.6	706.5	706.8	708.2	710.1	712.3	715.7	716.2	720.7	721.8
32.5°	751.1	752.8	754.1	754.7	754.7	758.0	761.7	762.8	768.6	772.0	775.9
35°	809.0	809.3	810.2	811.0	810.4	814.1	817.7	818.8	824.9	825.8	833.9
37.5°	833.6	834.1	837.5	839.1	840.3	844.7	851.4	856.4	863.1	869.5	878.7
40°	864.2	867.6	870.6	873.1	877.3	883.5	893.8	898.8	908.8	920.8	929.7
42.5°	903.0	909.1	911.3	916.1	926.4	933.9	944.2	955.1	968.5	983.0	993.5
45°	949.0	954.8	963.2	968.5	980.4	992.4	1008.9	1018.3	1032.0	1048.7	1060.4
47.5°	1004.7	1012.8	1021.1	1032.0	1046.2	1058.8	1075.2	1087.5	1101.1	1114.8	1127.6
50°	1074.1	1086.1	1097.2	1108.6	1127.6	1138.2	1154.4	1167.2	1180.0	1193.6	1205.4
52.5°	1167.5	1185.6	1199.8	1207.6	1233.2	1243.8	1263.6	1272.5	1283.1	1295.4	1310.4
55°	1371.2	1399.3	1423.3	1437.2	1476.2	1490.2	1515.8	1528.9	1521.7	1537.3	1564.3
57.5°	1960.3	1994.9	2023.6	2042.5	2082.4	2101.9	2103.3	2152.4	2123.4	2152.1	2156.3
60°	2818.4	2845.7	2838.8	2839.1	2826.5	2808.4	2843.2	2790.3	2812.6	2814.0	2764.1
62.5°	3393.9	3352.1	3332.6	3300.3	3262.7	3233.7	3213.9	3171.3	3137.3	3110.2	3057.6
65°	3529.4	3456.9	3392.8	3332.3	3276.9	3238.4	3196.6	3150.9	3097.7	3052.8	3001.5
67.5°	3398.4	3297.0	3201.9	3122.2	3046.4	2995.7	2935.2	2891.7	2824.8	2765.8	2726.7
70°	3018.5	2878.1	2767.2	2716.2	2640.9	2531.9	2474.2	2419.9	2378.9	2325.4	2301.7
72.5°	2117.5	1944.2	1858.6	1862.0	1785.6	1707.6	1709.5	1676.3	1623.4	1621.7	1613.6
75°	778.1	707.9	658.6	660.8	632.4	602.0	610.3	619.3	602.0	637.1	582.7
77.5°	123.7	120.4	119.3	116.8	110.6	115.1	112.0	117.9	118.7	125.1	125.7
80°	78.9	75.5	74.7	73.3	73.0	73.0	72.5	72.5	72.5	72.7	72.2
82.5°	52.7	50.7	50.4	49.6	51.0	51.3	51.6	53.8	55.7	56.3	58.5
85°	28.7	27.3	27.3	26.8	27.9	28.1	30.7	33.7	37.6	39.3	42.9
87.5°	14.5	15.3	15.0	15.6	16.4	18.4	20.3	22.3	24.5	27.6	30.1
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1	387.1
2.5°	386.3	386.0	386.0	385.4	385.4	385.2	384.6	384.0	381.5	378.5	376.5
5°	392.1	391.6	391.3	390.7	389.9	389.9	389.1	387.9	383.2	378.2	375.1
7.5°	404.1	403.8	403.0	401.9	400.8	399.6	399.1	398.5	391.3	386.5	384.3
10°	421.4	421.1	419.2	418.9	417.2	417.5	416.1	415.0	410.2	404.9	401.9
12.5°	443.4	444.5	443.4	440.9	441.5	440.6	439.2	437.8	433.6	429.5	424.7
15°	470.7	469.3	468.2	470.4	468.5	468.2	469.0	469.3	464.3	459.8	453.2
17.5°	504.7	504.7	504.2	504.7	503.6	504.4	503.9	504.4	502.2	496.1	486.3
20°	543.5	545.7	545.7	544.8	544.6	546.2	547.1	544.0	544.6	539.3	521.7
22.5°	588.6	590.3	590.8	590.0	590.3	592.5	593.9	591.7	596.7	588.0	561.0
25°	635.1	637.7	636.5	636.8	639.0	641.6	644.1	641.8	651.6	638.2	602.8
27.5°	681.1	683.4	682.8	684.5	688.1	691.4	694.2	693.4	709.6	692.0	646.8
30°	724.6	729.9	731.0	733.0	737.4	743.0	747.5	747.2	768.1	744.4	682.8
32.5°	778.1	784.0	786.2	790.4	799.0	802.9	808.5	809.0	830.0	790.4	713.2
35°	840.0	845.8	850.6	853.6	863.4	868.1	873.7	876.2	890.1	833.3	734.4
37.5°	887.9	892.9	902.1	908.5	917.2	926.7	933.1	936.1	943.9	870.1	744.1
40°	940.3	951.2	960.1	969.9	979.3	986.9	992.7	997.4	994.4	900.7	739.9
42.5°	1006.6	1018.1	1030.1	1038.4	1043.4	1053.5	1056.3	1059.6	1034.5	914.7	721.0
45°	1075.8	1085.0	1095.0	1101.1	1107.8	1112.8	1113.7	1113.9	1064.3	906.6	686.7
47.5°	1142.4	1150.2	1157.1	1160.5	1163.8	1164.1	1162.7	1160.5	1080.2	879.3	645.5
50°	1215.4	1220.1	1223.2	1223.5	1226.5	1220.7	1216.8	1206.5	1078.5	837.5	602.0
52.5°	1320.5	1319.3	1315.4	1315.2	1305.4	1294.3	1287.0	1272.2	1067.1	792.3	551.8
55°	1561.8	1551.2	1563.5	1532.3	1506.3	1489.1	1448.1	1418.3	1078.5	750.2	494.1
57.5°	2141.8	2105.5	2109.4	2059.0	2003.8	1900.4	1839.4	1756.9	1168.3	726.8	421.4
60°	2753.5	2693.9	2637.6	2548.1	2430.8	2299.5	2181.3	2052.3	1257.5	698.1	343.9
62.5°	3006.0	2929.1	2831.3	2705.0	2554.2	2391.5	2228.2	2081.0	1208.4	611.7	247.8
65°	2924.6	2832.6	2728.4	2563.7	2392.6	2203.4	2024.4	1868.9	1006.4	447.3	149.7
67.5°	2635.6	2556.5	2428.0	2272.5	2060.7	1870.9	1693.9	1550.1	741.9	276.5	85.8
70°	2219.2	2109.7	1999.9	1850.5	1627.3	1448.4	1283.7	1156.6	470.7	136.6	63.3
72.5°	1531.7	1445.0	1357.2	1223.5	1056.8	933.6	792.0	687.5	246.4	73.6	58.2
75°	596.7	587.2	577.2	516.4	459.8	368.4	323.6	291.8	102.6	63.8	57.4
77.5°	131.0	138.8	143.2	135.7	129.3	115.4	110.4	98.7	68.6	65.5	56.9
80°	72.2	72.2	72.2	73.0	71.6	71.6	70.8	69.4	64.1	65.5	55.7
82.5°	59.1	59.9	61.0	61.3	61.0	61.3	60.8	60.5	62.7	65.8	53.0
85°	45.1	47.9	49.6	51.8	54.1	55.5	56.0	56.3	57.7	62.4	46.3
87.5°	32.0	34.3	37.9	38.5	41.0	44.0	45.1	46.8	46.0	47.4	21.7
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):

	145°	155°	165°	175°	180°
0°	387.1	387.1	387.1	387.1	387.1
2.5°	374.8	372.6	371.8	371.5	370.9
5°	372.6	371.2	370.1	369.3	369.8
7.5°	382.6	381.8	379.9	379.3	380.1
10°	400.5	398.5	395.7	396.0	395.7
12.5°	422.8	417.5	413.0	411.1	409.7
15°	445.6	435.3	426.1	421.9	420.3
17.5°	471.0	453.4	439.2	431.7	430.3
20°	497.7	473.5	455.1	446.2	444.8
22.5°	528.7	495.2	471.8	459.6	457.6
25°	558.8	514.7	483.5	468.5	466.0
27.5°	586.1	529.5	490.5	472.7	470.2
30°	608.9	541.2	496.4	476.0	473.2
32.5°	624.0	547.6	498.3	476.3	472.9
35°	628.7	543.5	489.9	464.6	461.8
37.5°	618.7	526.5	467.6	438.9	436.7
40°	595.8	495.0	432.5	402.7	399.9
42.5°	560.2	455.1	391.8	360.4	357.8
45°	520.6	412.5	348.6	317.2	314.6
47.5°	477.4	367.3	303.2	274.2	270.3
50°	430.0	318.3	257.0	228.5	224.9
52.5°	374.6	264.8	207.9	182.3	180.0
55°	309.6	211.0	165.5	146.9	144.6
57.5°	240.8	160.5	131.5	122.3	118.7
60°	174.7	122.1	104.8	100.3	98.4
62.5°	118.7	91.1	84.4	83.1	81.7
65°	80.5	71.3	69.4	69.7	68.8
67.5°	63.5	59.9	58.8	59.4	59.1
70°	55.7	53.0	52.7	53.2	53.0
72.5°	52.7	49.1	49.6	50.4	50.2
75°	51.3	47.4	48.5	49.1	47.7
77.5°	49.9	44.9	48.2	49.3	46.5
80°	47.9	42.6	50.4	49.9	44.6
82.5°	43.8	37.6	49.3	45.1	40.1
85°	35.7	28.1	55.5	39.9	29.3
87.5°	22.9	17.0	38.5	30.4	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)