

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: P146334

Luminaire Tested: **LDRL-T2-F02-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146334
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4521.8 lumens
Efficiency: N/A
Efficacy: 82.2 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

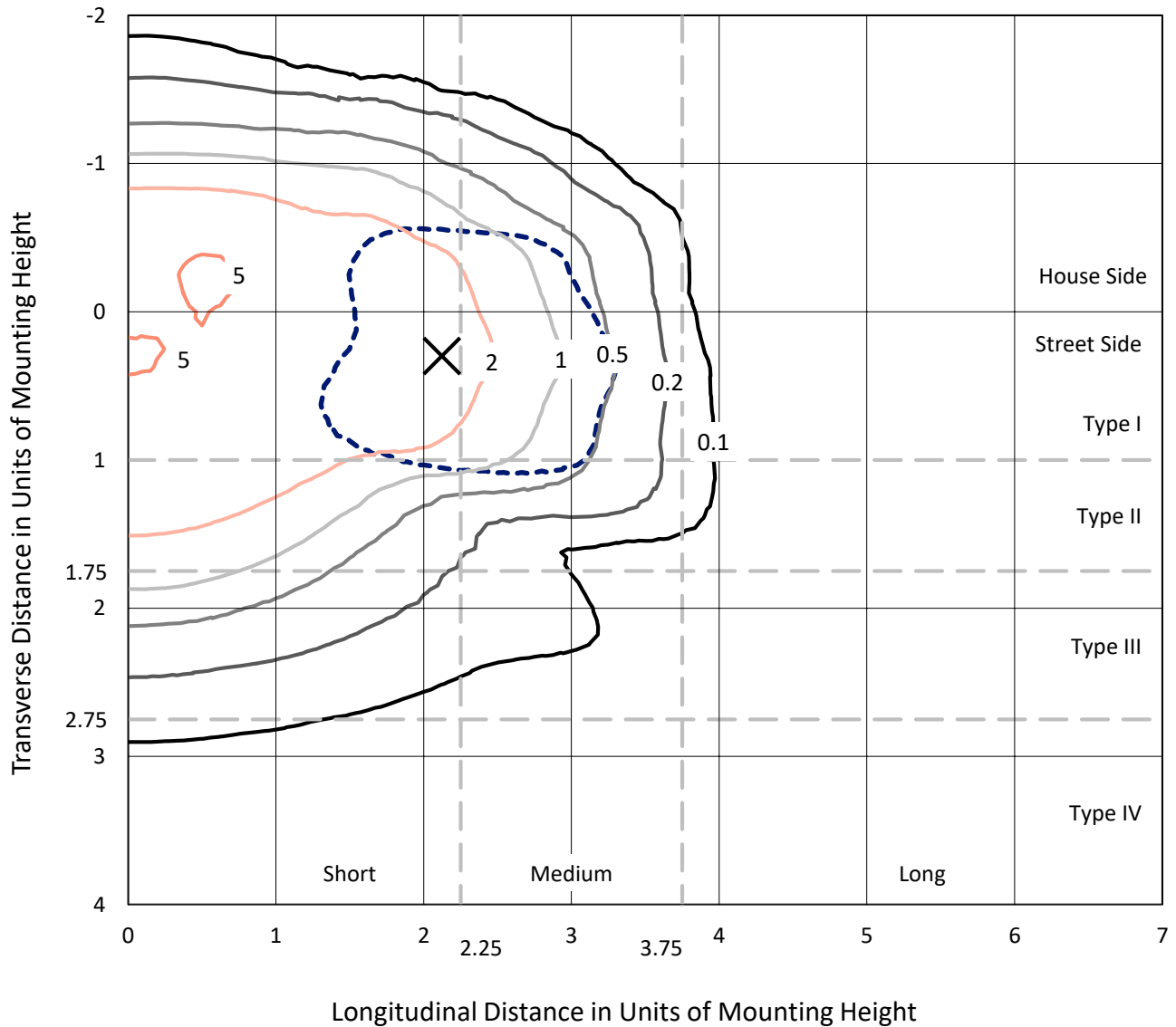
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

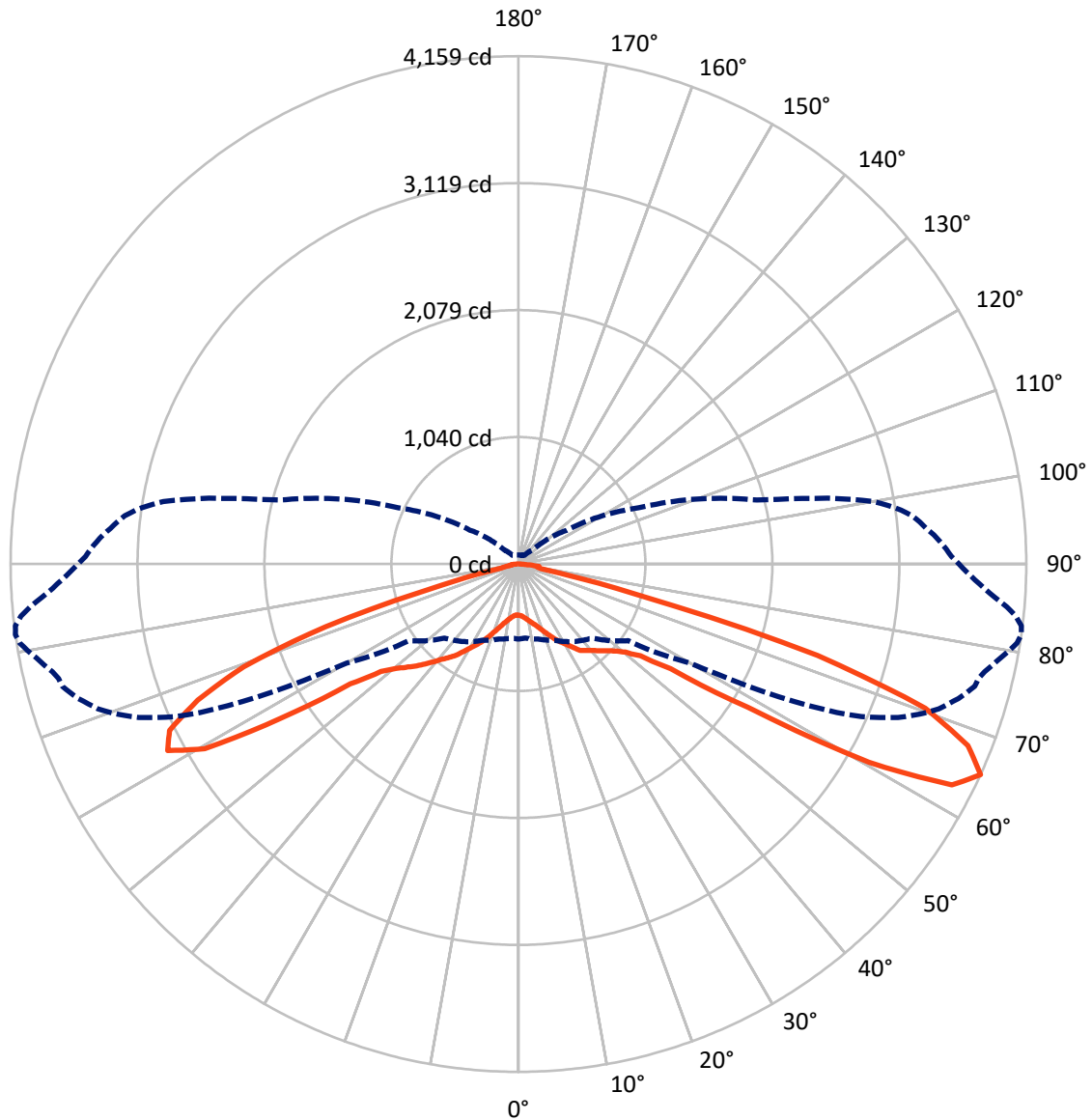
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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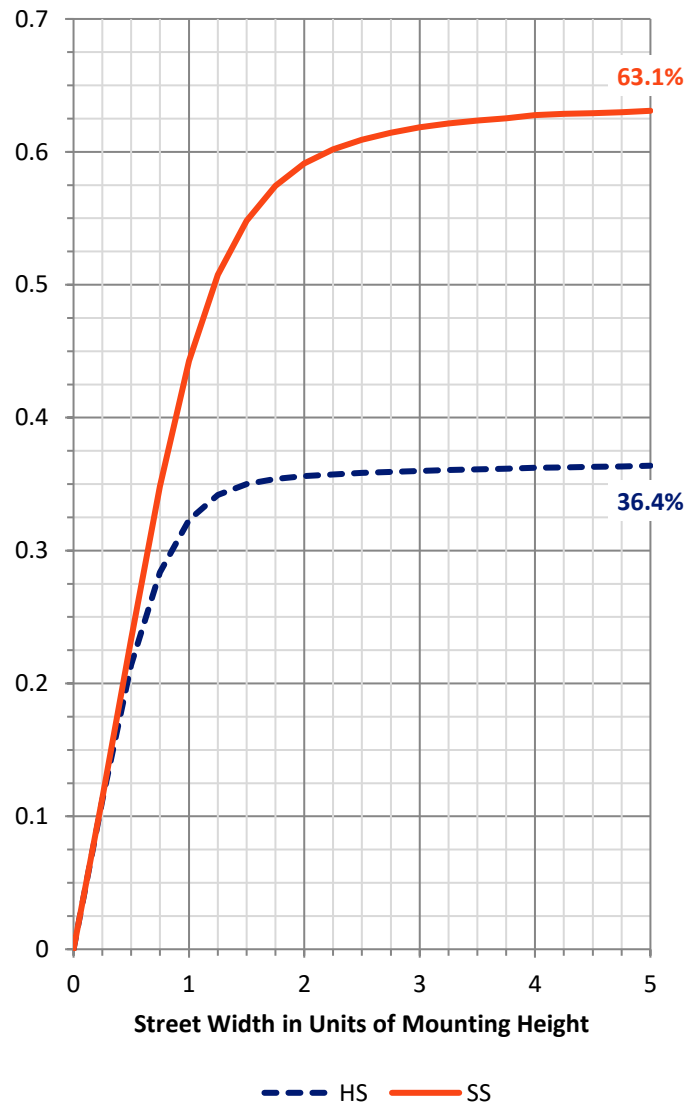
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1664.5	0.0	1664.5
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	2857.3	0.0	2857.3
	% Fixture	63.2	0.0	63.2
Total	Lumens	4521.8	0.0	4521.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	0.9
10°-20°	149.7	3.3
20°-30°	297.0	6.6
30°-40°	506.8	11.2
40°-50°	760.0	16.8
50°-60°	1057.8	23.4
60°-70°	1215.3	26.9
70°-80°	419.4	9.3
80°-90°	73.3	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°	4521.8	100.0
0°-180°	4521.8	100.0



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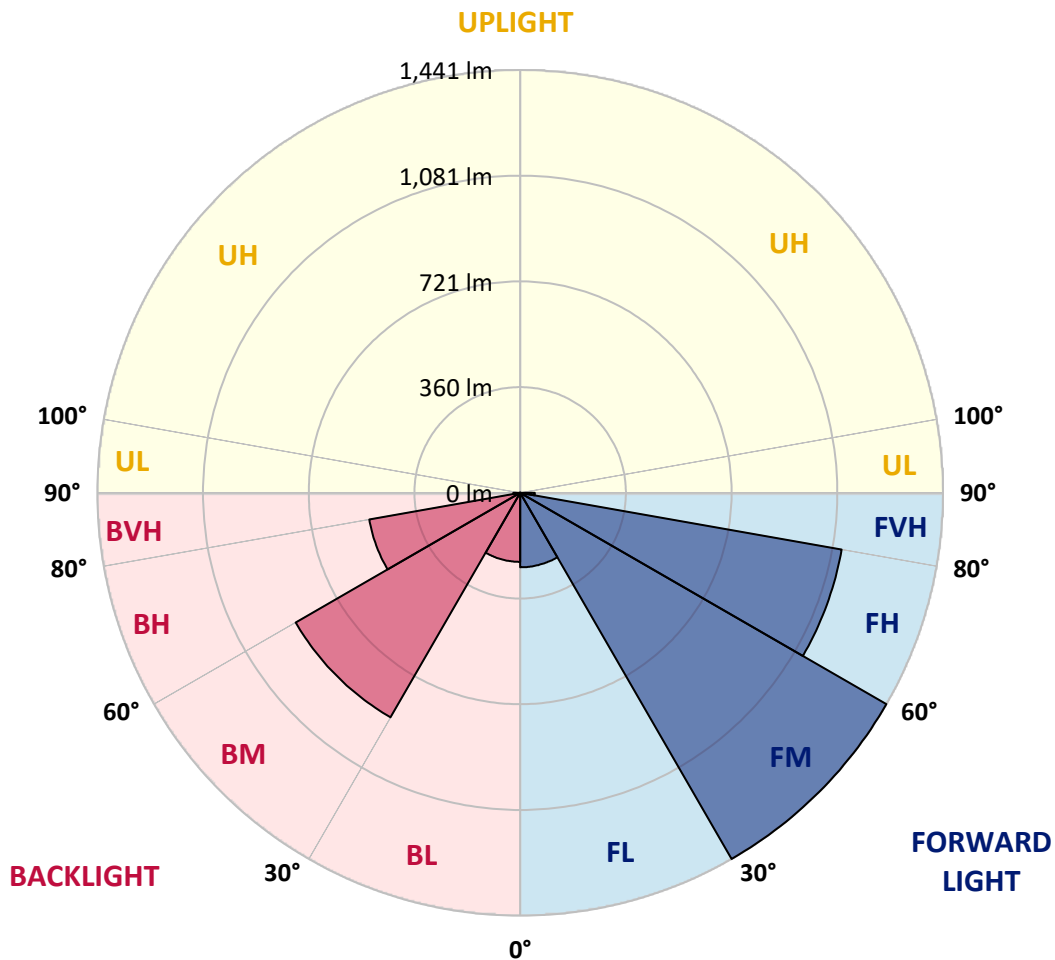
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.8	5.6			
FM	(30°-60°)	1441.2	31.9			
FH	(60°-80°)	1112.5	24.6			G1/1800
FVH	(80°-90°)	49.8	1.1			G1/100
BL	(0°-30°)	235.4	5.2	B1/500		
BM	(30°-60°)	883.4	19.5	B1/1000		
BH	(60°-80°)	522.1	11.5	B2/1000		G2/1000
BVH	(80°-90°)	23.5	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°	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
2.5°	442.1	441.8	441.5	440.3	439.7	437.3	434.9	433.4	432.2	432.8	431.0
5°	467.8	467.8	466.6	465.1	463.3	459.9	453.9	450.9	450.3	450.3	448.2
7.5°	494.0	495.8	492.5	491.3	488.3	483.2	476.2	472.3	471.1	471.1	469.3
10°	527.2	526.3	522.7	520.3	514.2	507.3	497.9	493.4	491.6	493.1	490.1
12.5°	562.2	561.9	556.4	551.9	543.5	532.3	520.0	513.9	512.7	512.7	510.9
15°	597.8	598.1	592.0	583.6	570.3	555.2	541.4	535.6	534.1	533.5	531.4
17.5°	624.9	627.9	621.9	611.0	594.8	578.2	563.4	557.7	557.4	556.7	554.3
20°	640.3	640.9	637.6	629.7	615.3	599.3	589.0	586.3	586.0	586.3	586.9
22.5°	639.7	640.6	639.4	636.4	627.0	618.3	617.1	618.6	619.5	618.6	620.7
25°	634.9	636.1	636.1	637.6	635.2	638.2	647.8	652.1	652.4	653.0	657.5
27.5°	645.4	646.6	646.3	649.0	651.1	661.7	679.2	686.7	687.6	689.8	694.0
30°	694.3	694.6	689.2	688.8	691.0	699.4	717.2	725.9	725.0	729.3	732.0
32.5°	771.5	773.9	768.5	762.7	761.8	763.0	766.4	772.4	771.5	773.6	777.2
35°	859.6	859.9	856.8	860.2	862.0	853.8	838.1	836.6	831.8	832.7	833.9
37.5°	940.4	942.5	948.2	969.3	981.4	961.5	930.7	911.4	908.4	906.9	896.3
40°	1016.1	1026.6	1040.5	1068.0	1084.5	1091.8	1048.1	1009.1	998.6	994.4	977.8
42.5°	1104.8	1110.2	1126.5	1157.8	1179.8	1212.7	1183.5	1140.6	1128.3	1110.2	1089.4
45°	1179.8	1183.5	1193.7	1220.3	1266.4	1321.3	1324.6	1294.8	1285.1	1267.0	1236.5
47.5°	1230.2	1229.9	1237.5	1263.4	1323.4	1407.3	1457.0	1455.8	1444.7	1438.3	1412.4
50°	1249.8	1249.5	1254.3	1283.3	1348.7	1458.5	1568.3	1606.0	1605.7	1608.1	1594.8
52.5°	1253.4	1253.1	1253.7	1277.0	1343.6	1476.3	1648.5	1737.5	1750.5	1766.8	1781.5
55°	1226.3	1229.3	1235.9	1260.4	1324.3	1469.1	1707.9	1860.9	1891.9	1925.1	1978.8
57.5°	1163.6	1169.3	1192.2	1235.9	1303.8	1451.3	1749.3	2013.5	2076.5	2156.7	2302.1
60°	1073.7	1078.8	1110.5	1168.4	1244.1	1373.8	1701.3	2077.4	2197.1	2336.5	2634.5
62.5°	914.7	929.2	946.1	987.1	1066.4	1170.8	1486.0	1969.4	2154.9	2359.4	2769.6
65°	614.4	608.3	636.4	688.5	775.7	856.8	1094.8	1624.4	1859.0	2140.4	2648.0
67.5°	380.3	381.2	400.2	451.2	516.9	580.0	694.0	1035.4	1243.5	1511.0	2121.4
70°	314.3	317.9	333.3	380.6	436.7	507.9	515.1	548.9	642.1	771.5	1310.4
72.5°	249.4	250.9	266.6	306.1	385.4	483.2	611.6	417.1	409.9	429.5	664.7
75°	154.7	155.9	163.8	189.1	250.0	376.4	673.5	479.5	449.4	424.0	428.3
77.5°	79.9	82.3	86.6	98.0	131.2	210.2	530.2	608.0	573.6	539.3	472.0
80°	45.2	45.2	49.2	51.9	62.1	85.7	269.6	658.1	719.0	733.8	659.0
82.5°	20.2	22.6	30.5	32.6	35.6	39.2	89.3	395.4	548.6	685.2	846.9
85°	12.1	11.8	19.3	21.1	22.0	18.7	33.5	161.4	256.4	375.2	561.3
87.5°	4.8	5.1	8.1	8.7	10.3	7.5	12.7	34.7	51.0	73.9	104.4
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°	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
2.5°	430.7	430.7	430.4	430.1	429.8	428.9	428.6	428.0	427.7	426.8	426.5
5°	447.9	447.0	446.7	446.1	445.8	444.6	444.6	443.3	442.4	441.2	440.9
7.5°	468.4	467.2	466.3	465.7	465.4	463.3	463.3	461.4	461.1	459.6	459.0
10°	489.2	488.3	487.1	486.5	486.2	485.0	483.8	482.6	481.7	480.7	479.5
12.5°	510.0	508.2	507.6	506.7	506.1	505.2	504.9	502.2	502.2	501.3	500.0
15°	530.2	529.9	527.8	527.5	526.9	527.2	525.4	525.7	524.8	523.3	522.7
17.5°	554.9	552.8	553.7	552.2	552.5	551.9	551.3	551.0	551.6	551.3	551.9
20°	585.7	585.1	586.0	583.9	586.0	586.3	585.7	587.2	586.6	587.2	585.4
22.5°	622.2	620.1	620.1	621.6	622.5	625.2	623.7	624.9	626.1	627.0	625.8
25°	659.0	658.4	659.6	660.8	662.6	665.0	664.4	664.7	667.1	668.6	668.9
27.5°	696.4	696.4	700.0	700.0	702.4	705.1	706.0	707.2	709.1	711.2	711.2
30°	735.0	735.0	738.3	741.3	742.5	745.9	747.7	749.5	752.8	753.4	756.1
32.5°	779.0	779.9	783.2	785.1	787.8	791.7	792.3	794.4	798.3	799.5	801.6
35°	836.3	833.3	836.3	839.6	841.2	839.9	846.6	849.3	852.0	853.5	856.2
37.5°	895.4	890.3	890.6	890.0	886.4	888.5	888.5	887.9	889.7	889.4	890.6
40°	970.2	961.2	958.5	952.7	944.9	940.7	936.2	935.6	931.0	932.8	929.5
42.5°	1072.8	1059.2	1052.0	1034.2	1024.5	1013.1	1001.9	992.3	987.1	981.4	977.2
45°	1213.6	1197.6	1180.2	1151.5	1134.9	1112.0	1097.2	1075.2	1060.4	1048.1	1039.3
47.5°	1390.4	1363.5	1349.3	1322.5	1293.6	1258.9	1227.2	1196.4	1171.4	1144.3	1122.8
50°	1595.8	1562.3	1551.1	1515.5	1499.2	1460.3	1426.6	1388.6	1349.3	1308.3	1269.1
52.5°	1777.6	1773.7	1778.2	1754.4	1753.8	1734.2	1696.8	1652.5	1616.0	1574.6	1523.1
55°	1995.7	2034.6	2043.0	2039.7	2057.5	2056.9	2053.3	2048.8	2019.8	1961.3	1943.5
57.5°	2380.5	2424.2	2488.8	2518.0	2582.6	2590.1	2649.8	2626.6	2670.9	2658.9	2667.0
60°	2772.3	2906.5	3028.9	3122.1	3212.6	3295.0	3395.7	3438.8	3471.1	3521.5	3574.5
62.5°	2947.5	3116.7	3262.7	3395.4	3507.9	3612.2	3698.8	3780.8	3845.4	3903.3	3947.9
65°	2876.6	3073.0	3215.3	3353.8	3458.7	3555.8	3641.8	3703.3	3767.6	3820.0	3867.4
67.5°	2395.0	2656.5	2842.3	2999.4	3131.2	3241.9	3331.1	3415.9	3461.4	3518.7	3544.4
70°	1586.4	1921.8	2184.5	2396.8	2605.8	2731.3	2837.1	2935.7	2987.6	3034.1	3062.7
72.5°	871.3	1100.5	1381.0	1633.5	1834.3	1999.0	2122.3	2215.8	2269.2	2309.0	2267.7
75°	493.7	606.8	744.0	883.7	1036.0	1152.1	1184.7	1224.5	1233.8	1213.3	1160.2
77.5°	453.9	453.9	454.2	450.9	457.5	465.7	460.8	452.7	415.9	407.8	396.3
80°	590.2	526.0	457.2	375.5	306.1	258.2	243.4	244.6	256.4	279.3	304.6
82.5°	836.6	773.3	674.1	549.5	437.3	343.2	281.4	253.0	252.7	275.7	308.5
85°	610.1	615.3	593.2	524.8	418.6	329.6	266.3	204.5	184.6	184.6	182.2
87.5°	106.8	110.1	95.0	85.1	59.4	41.9	37.7	33.2	32.9	34.1	31.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
2.5°	426.5	425.9	425.3	425.0	425.0	424.3	424.3	423.7	424.0	423.7	422.8
5°	440.3	440.0	439.1	437.6	437.3	436.1	436.4	435.2	435.2	434.6	433.1
7.5°	457.8	457.2	456.6	455.4	454.2	454.2	452.1	452.1	450.6	450.0	448.8
10°	478.6	476.8	475.9	474.7	474.4	474.1	472.0	472.0	470.2	469.9	469.0
12.5°	499.1	497.9	497.0	496.4	494.9	494.6	493.7	492.8	491.9	491.3	491.0
15°	521.5	520.9	520.0	520.0	520.0	518.4	517.5	516.9	516.9	516.0	516.6
17.5°	550.4	551.3	550.1	549.5	548.6	550.1	548.6	548.6	549.5	549.5	547.4
20°	586.3	587.5	586.3	586.6	586.0	586.3	586.6	587.2	588.4	586.3	586.6
22.5°	626.1	626.4	627.3	626.4	627.9	627.0	628.8	630.3	630.0	629.4	629.7
25°	669.5	668.6	668.9	671.7	673.8	673.2	673.5	675.9	675.3	674.7	675.0
27.5°	713.6	713.0	713.9	716.3	718.7	718.4	717.8	719.6	719.6	718.1	718.7
30°	757.3	758.2	759.7	759.7	760.9	762.1	761.2	763.3	763.6	762.4	763.9
32.5°	803.5	805.3	804.7	808.9	808.9	809.2	810.1	809.8	812.8	810.4	811.3
35°	858.9	859.6	863.2	866.2	868.0	869.5	869.5	870.4	871.9	870.7	872.5
37.5°	892.7	893.9	895.1	897.0	897.0	897.0	898.5	898.8	899.7	899.4	900.0
40°	929.8	930.1	930.4	930.7	931.9	932.5	931.0	933.1	931.6	932.2	933.1
42.5°	974.8	970.5	971.1	970.2	972.3	969.6	970.2	972.7	971.4	973.3	973.3
45°	1026.9	1022.1	1017.9	1015.5	1015.5	1011.9	1012.5	1013.4	1014.9	1017.3	1021.5
47.5°	1104.1	1087.6	1079.4	1071.0	1066.7	1062.2	1063.7	1064.0	1064.6	1068.6	1079.1
50°	1230.5	1202.8	1181.4	1155.7	1146.1	1138.2	1133.7	1134.0	1134.0	1142.1	1152.7
52.5°	1474.8	1423.2	1372.3	1327.6	1289.3	1270.9	1249.5	1244.1	1244.4	1251.3	1258.6
55°	1896.7	1825.9	1771.9	1672.7	1642.5	1557.8	1513.1	1487.5	1467.6	1477.2	1487.8
57.5°	2653.8	2588.3	2545.5	2427.0	2319.0	2288.2	2214.9	2155.5	2131.1	2102.7	2104.5
60°	3582.4	3548.6	3537.7	3468.4	3429.5	3308.5	3298.9	3223.8	3152.9	3091.7	3116.7
62.5°	3982.3	3998.0	4010.6	4035.1	4044.4	4033.0	3984.4	3951.2	3893.0	3812.8	3763.6
65°	3881.3	3917.1	3971.1	4022.1	4083.0	4133.7	4158.7	4149.1	4096.6	4014.0	3910.8
67.5°	3562.8	3599.3	3645.7	3710.3	3803.4	3902.1	3970.8	4014.6	3972.9	3898.4	3793.5
70°	3061.2	3096.8	3098.3	3188.5	3288.9	3413.2	3535.0	3580.9	3533.5	3483.8	3396.0
72.5°	2292.7	2271.3	2291.2	2307.8	2365.1	2443.5	2561.8	2556.6	2484.3	2445.7	2310.8
75°	1077.6	1063.1	1042.0	1028.1	1014.9	987.1	1000.4	943.7	924.1	931.9	815.5
77.5°	387.6	367.6	335.7	304.6	265.4	219.9	185.5	162.9	151.7	152.0	145.1
80°	325.1	334.8	330.2	299.5	255.5	207.8	155.6	117.9	100.7	93.5	89.0
82.5°	352.6	401.1	425.3	406.3	343.2	264.2	170.1	102.8	75.4	64.5	61.8
85°	195.4	195.7	189.7	181.3	160.8	110.4	73.6	48.9	39.2	35.0	33.8
87.5°	33.2	31.7	31.7	29.6	25.9	25.3	22.6	21.4	19.0	17.5	16.9
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°	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
2.5°	421.9	421.3	421.0	420.7	420.7	420.4	420.4	419.8	419.2	418.9	418.6
5°	431.6	431.0	430.4	429.8	429.8	429.2	428.6	428.0	427.1	425.6	425.3
7.5°	447.9	446.7	446.7	444.6	444.6	443.3	442.4	442.4	441.2	438.8	438.5
10°	468.1	466.0	465.1	463.9	463.3	462.0	462.0	460.8	460.2	459.3	456.3
12.5°	489.8	488.3	487.7	486.2	485.3	485.3	484.7	482.6	484.1	482.0	480.4
15°	516.0	515.7	513.0	513.9	513.6	513.3	513.6	511.8	511.5	511.5	509.7
17.5°	548.9	546.5	546.8	546.8	547.4	547.4	545.0	546.2	546.5	545.9	545.3
20°	587.5	586.6	587.5	585.7	587.5	587.5	588.7	588.4	588.7	589.3	589.3
22.5°	628.8	631.2	631.5	632.1	630.0	633.7	633.7	634.3	635.8	635.8	636.4
25°	678.9	677.7	676.2	678.3	678.9	681.3	681.9	681.9	684.3	684.3	685.2
27.5°	720.5	721.7	721.4	722.6	722.0	725.3	726.5	730.2	729.3	731.1	733.5
30°	763.3	765.8	764.5	764.9	766.4	768.5	770.9	774.5	775.1	779.9	781.1
32.5°	812.8	814.6	816.1	816.7	816.7	820.3	824.3	825.5	831.8	835.4	839.6
35°	875.5	875.8	876.7	877.6	877.0	881.0	884.9	886.1	892.7	893.6	902.4
37.5°	902.1	902.7	906.3	908.1	909.3	914.1	921.4	926.8	934.0	941.0	950.9
40°	935.3	938.9	942.2	944.9	949.4	956.1	967.2	972.7	983.5	996.5	1006.1
42.5°	977.2	983.8	986.2	991.4	1002.5	1010.7	1021.8	1033.6	1048.1	1063.7	1075.2
45°	1026.9	1033.3	1042.3	1048.1	1061.0	1074.0	1091.8	1102.0	1116.8	1134.9	1147.6
47.5°	1087.3	1096.0	1105.1	1116.8	1132.2	1145.8	1163.6	1176.8	1191.6	1206.4	1220.3
50°	1162.4	1175.3	1187.4	1199.8	1220.3	1231.7	1249.2	1263.1	1277.0	1291.7	1304.4
52.5°	1263.4	1283.0	1298.4	1306.8	1334.6	1346.0	1367.4	1377.1	1388.6	1401.8	1418.1
55°	1483.9	1514.3	1540.3	1555.3	1597.6	1612.6	1640.4	1654.6	1646.7	1663.6	1692.9
57.5°	2121.4	2158.8	2189.9	2210.4	2253.5	2274.6	2276.2	2329.2	2297.9	2328.9	2333.5
60°	3050.1	3079.6	3072.1	3072.4	3058.8	3039.2	3076.9	3019.6	3043.7	3045.2	2991.2
62.5°	3672.9	3627.6	3606.5	3571.5	3530.8	3499.4	3478.0	3431.9	3395.1	3365.8	3308.8
65°	3819.4	3741.0	3671.6	3606.2	3546.2	3504.6	3459.3	3409.9	3352.3	3303.7	3248.2
67.5°	3677.7	3567.9	3465.1	3378.8	3296.8	3241.9	3176.4	3129.4	3057.0	2993.1	2950.8
70°	3266.6	3114.6	2994.6	2939.4	2857.9	2740.0	2677.6	2618.8	2574.4	2516.5	2490.9
72.5°	2291.5	2103.9	2011.4	2015.0	1932.3	1847.9	1850.0	1814.1	1756.8	1755.0	1746.2
75°	842.1	766.1	712.7	715.1	684.3	651.5	660.5	670.1	651.5	689.5	630.6
77.5°	133.9	130.3	129.1	126.4	119.7	124.6	121.2	127.6	128.5	135.4	136.0
80°	85.4	81.7	80.8	79.3	79.0	79.0	78.4	78.4	78.4	78.7	78.1
82.5°	57.0	54.9	54.6	53.7	55.2	55.5	55.8	58.2	60.3	60.9	63.3
85°	31.1	29.6	29.6	29.0	30.2	30.5	33.2	36.5	40.7	42.5	46.4
87.5°	15.7	16.6	16.3	16.9	17.8	19.9	22.0	24.1	26.5	29.9	32.6
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°	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
2.5°	418.0	417.7	417.7	417.1	417.1	416.8	416.2	415.6	412.9	409.6	407.5
5°	424.3	423.7	423.4	422.8	421.9	421.9	421.0	419.8	414.7	409.3	406.0
7.5°	437.3	437.0	436.1	434.9	433.7	432.5	431.9	431.3	423.4	418.3	415.9
10°	456.0	455.7	453.6	453.3	451.5	451.8	450.3	449.1	444.0	438.2	434.9
12.5°	479.8	481.0	479.8	477.1	477.7	476.8	475.3	473.8	469.3	464.8	459.6
15°	509.4	507.9	506.7	509.1	507.0	506.7	507.6	507.9	502.5	497.6	490.4
17.5°	546.2	546.2	545.6	546.2	545.0	545.9	545.3	545.9	543.5	536.8	526.3
20°	588.1	590.5	590.5	589.6	589.3	591.1	592.0	588.7	589.3	583.6	564.6
22.5°	637.0	638.8	639.4	638.5	638.8	641.2	642.7	640.3	645.7	636.4	607.1
25°	687.3	690.1	688.8	689.2	691.6	694.3	697.0	694.6	705.1	690.7	652.4
27.5°	737.1	739.5	738.9	740.7	744.6	748.3	751.3	750.4	767.9	748.9	700.0
30°	784.2	789.9	791.1	793.2	798.0	804.1	808.9	808.6	831.2	805.6	738.9
32.5°	842.1	848.4	850.8	855.3	864.7	868.9	874.9	875.5	898.2	855.3	771.8
35°	909.0	915.3	920.5	923.8	934.3	939.5	945.5	948.2	963.3	901.8	794.7
37.5°	960.9	966.3	976.3	983.2	992.6	1002.8	1009.7	1013.1	1021.5	941.6	805.3
40°	1017.6	1029.4	1039.0	1049.6	1059.8	1068.0	1074.3	1079.4	1076.1	974.8	800.7
42.5°	1089.4	1101.7	1114.7	1123.8	1129.2	1140.0	1143.1	1146.7	1119.5	989.8	780.2
45°	1164.2	1174.1	1185.0	1191.6	1198.8	1204.3	1205.2	1205.5	1151.8	981.1	743.1
47.5°	1236.2	1244.7	1252.2	1255.9	1259.5	1259.8	1258.3	1255.9	1169.0	951.5	698.5
50°	1315.3	1320.4	1323.7	1324.0	1327.3	1321.0	1316.8	1305.6	1167.2	906.3	651.5
52.5°	1429.0	1427.8	1423.5	1423.2	1412.7	1400.6	1392.8	1376.8	1154.8	857.4	597.2
55°	1690.2	1678.7	1692.0	1658.2	1630.1	1611.4	1567.1	1534.8	1167.2	811.9	534.7
57.5°	2317.8	2278.6	2282.8	2228.2	2168.5	2056.6	1990.5	1901.3	1264.3	786.6	456.0
60°	2979.8	2915.2	2854.3	2757.5	2630.5	2488.5	2360.6	2221.0	1360.8	755.5	372.2
62.5°	3253.0	3169.8	3063.9	2927.3	2764.1	2588.0	2411.3	2252.0	1307.7	662.0	268.1
65°	3165.0	3065.4	2952.6	2774.4	2589.2	2384.4	2190.8	2022.5	1089.1	484.1	162.0
67.5°	2852.2	2766.6	2627.5	2459.2	2230.0	2024.6	1833.1	1677.5	802.9	299.2	92.9
70°	2401.6	2283.1	2164.3	2002.6	1761.0	1567.4	1389.2	1251.6	509.4	147.8	68.5
72.5°	1657.6	1563.8	1468.8	1324.0	1143.7	1010.4	857.1	744.0	266.6	79.6	63.0
75°	645.7	635.5	624.6	558.9	497.6	398.7	350.2	315.8	111.0	69.1	62.1
77.5°	141.8	150.2	155.0	146.9	139.9	124.9	119.4	106.8	74.2	70.9	61.5
80°	78.1	78.1	78.1	79.0	77.5	77.5	76.6	75.1	69.4	70.9	60.3
82.5°	63.9	64.8	66.0	66.4	66.0	66.4	65.7	65.4	67.9	71.2	57.3
85°	48.9	51.9	53.7	56.1	58.5	60.0	60.6	60.9	62.4	67.6	50.1
87.5°	34.7	37.1	41.0	41.6	44.3	47.7	48.9	50.7	49.8	51.3	23.5
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):

	145°	155°	165°	175°	180°
0°	418.9	418.9	418.9	418.9	418.9
2.5°	405.6	403.2	402.3	402.0	401.4
5°	403.2	401.7	400.5	399.6	400.2
7.5°	414.1	413.2	411.1	410.5	411.4
10°	433.4	431.3	428.3	428.6	428.3
12.5°	457.5	451.8	447.0	444.9	443.3
15°	482.3	471.1	461.1	456.6	454.8
17.5°	509.7	490.7	475.3	467.2	465.7
20°	538.7	512.4	492.5	482.9	481.3
22.5°	572.1	535.9	510.6	497.3	495.2
25°	604.7	557.1	523.3	507.0	504.3
27.5°	634.3	573.0	530.8	511.5	508.8
30°	659.0	585.7	537.1	515.1	512.1
32.5°	675.3	592.6	539.3	515.4	511.8
35°	680.4	588.1	530.2	502.8	499.7
37.5°	669.5	569.7	506.1	475.0	472.6
40°	644.8	535.6	468.1	435.8	432.8
42.5°	606.2	492.5	424.0	390.0	387.3
45°	563.4	446.4	377.3	343.2	340.5
47.5°	516.6	397.5	328.1	296.8	292.5
50°	465.4	344.4	278.1	247.3	243.4
52.5°	405.3	286.5	225.0	197.2	194.8
55°	335.1	228.3	179.1	158.9	156.5
57.5°	260.6	173.7	142.4	132.4	128.5
60°	189.1	132.1	113.4	108.6	106.5
62.5°	128.5	98.6	91.4	89.9	88.4
65°	87.2	77.2	75.1	75.4	74.5
67.5°	68.8	64.8	63.6	64.2	63.9
70°	60.3	57.3	57.0	57.6	57.3
72.5°	57.0	53.1	53.7	54.6	54.3
75°	55.5	51.3	52.5	53.1	51.6
77.5°	54.0	48.6	52.2	53.4	50.4
80°	51.9	46.1	54.6	54.0	48.3
82.5°	47.4	40.7	53.4	48.9	43.4
85°	38.6	30.5	60.0	43.1	31.7
87.5°	24.7	18.4	41.6	32.9	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)