

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: P146329

Luminaire Tested: **LDRL-T2-E02-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146329
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5477.5 lumens
Efficiency: N/A
Efficacy: 105.1 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

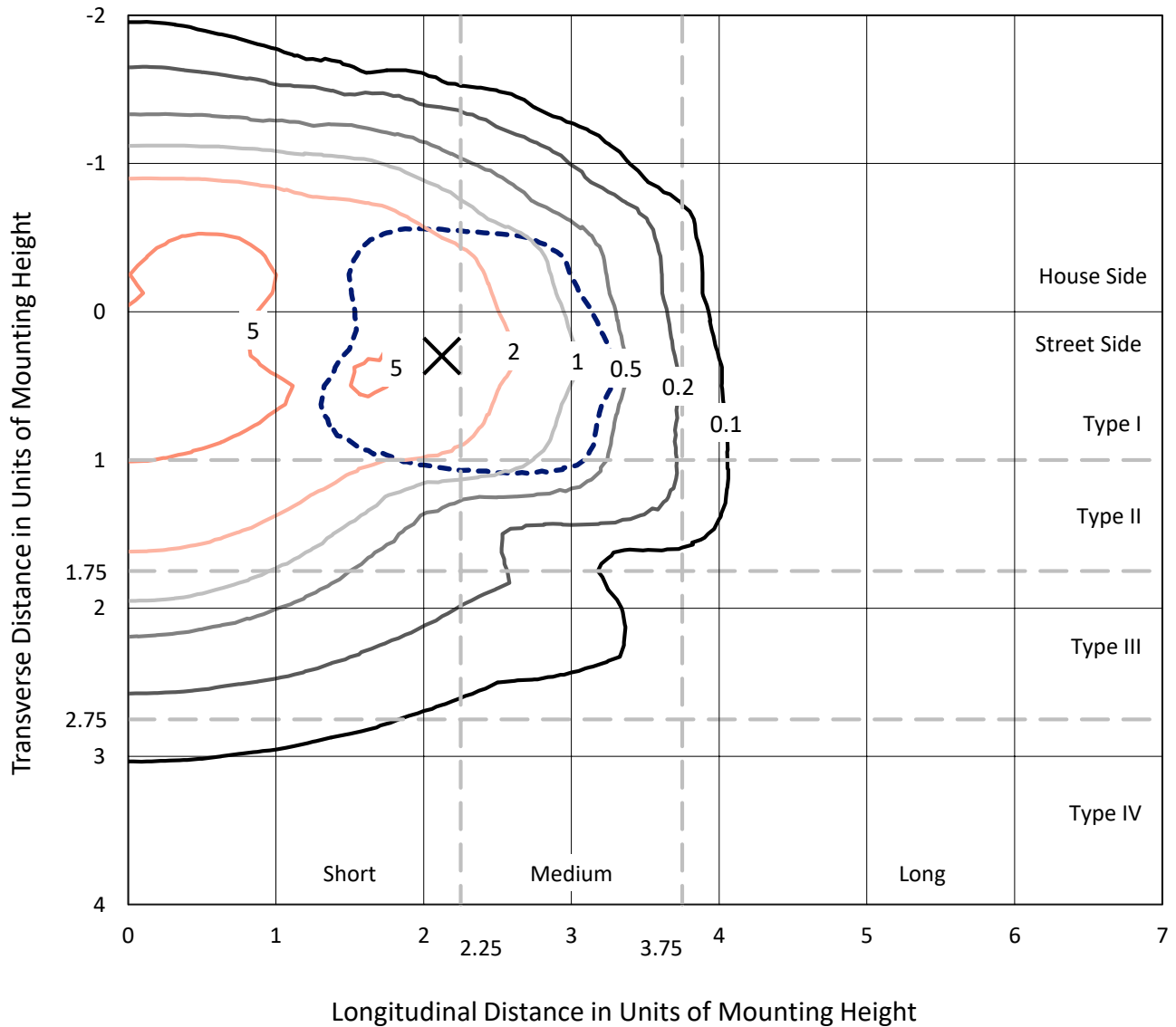
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

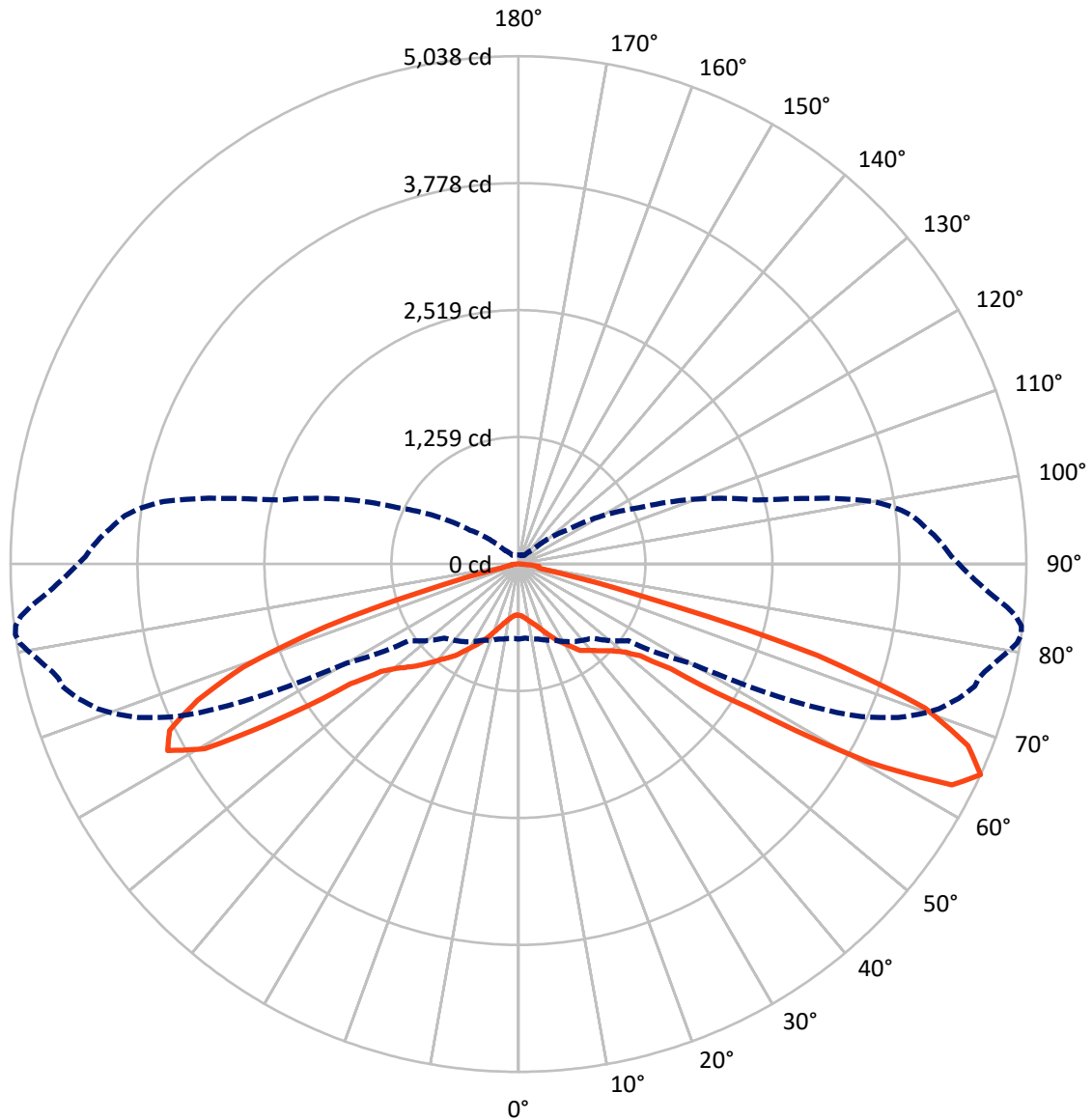
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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	2016.3	0.0	2016.3
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	3461.2	0.0	3461.2
	% Fixture	63.2	0.0	63.2
Total	Lumens	5477.5	0.0	5477.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	0.9
10°-20°	181.4	3.3
20°-30°	359.8	6.6
30°-40°	613.9	11.2
40°-50°	920.6	16.8
50°-60°	1281.4	23.4
60°-70°	1472.1	26.9
70°-80°	508.0	9.3
80°-90°	88.8	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°	5477.5	100.0
0°-180°	5477.5	100.0



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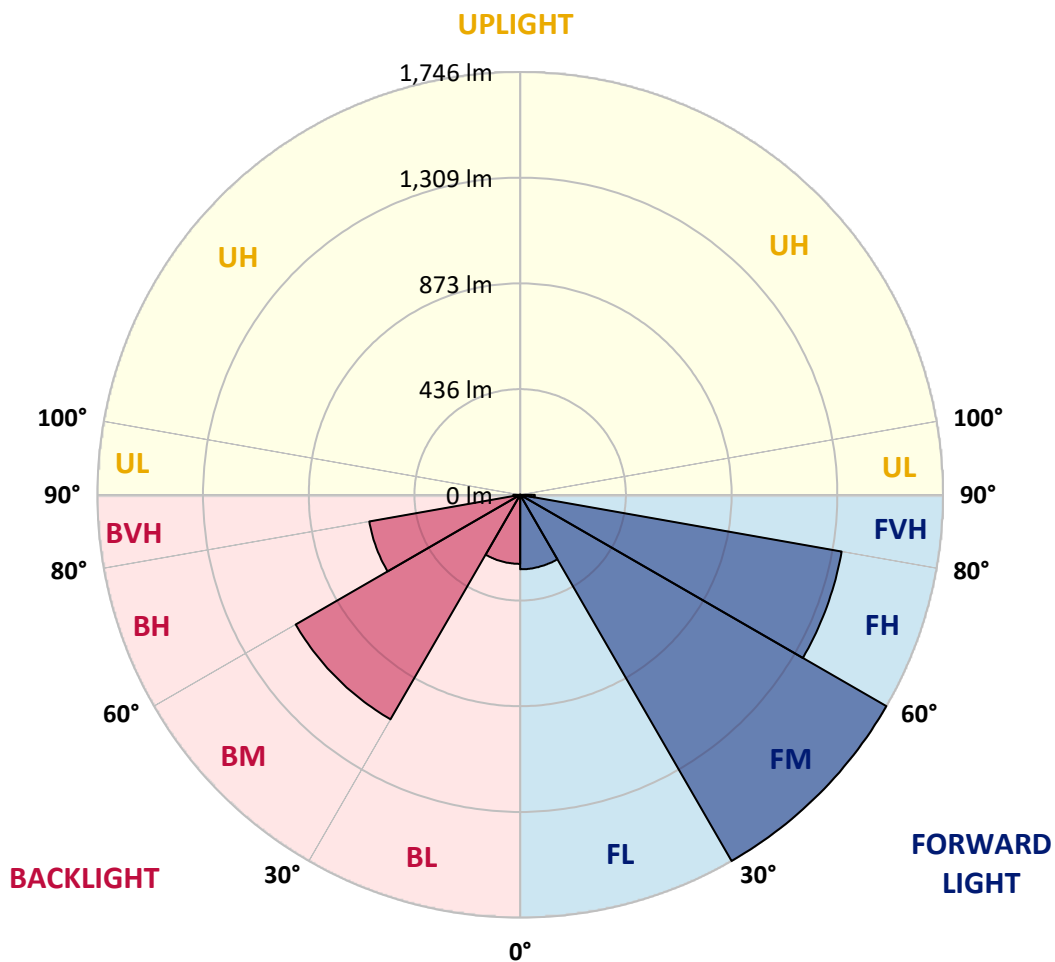
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.5	5.6			
FM (30°-60°)	1745.7	31.9			
FH (60°-80°)	1347.6	24.6			G1/1800
FVH (80°-90°)	60.3	1.1			G1/100
BL (0°-30°)	285.2	5.2	B1/500		
BM (30°-60°)	1070.1	19.5	B2/2500		
BH (60°-80°)	632.5	11.5	B2/1000		G2/1000
BVH (80°-90°)	28.5	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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	535.6	535.2	534.9	533.4	532.7	529.7	526.8	525.0	523.5	524.3	522.1
5°	566.6	566.6	565.2	563.4	561.2	557.1	549.8	546.2	545.5	545.5	542.9
7.5°	598.4	600.6	596.6	595.1	591.5	585.3	576.9	572.1	570.7	570.7	568.5
10°	638.6	637.5	633.1	630.2	622.9	614.5	603.2	597.7	595.5	597.3	593.7
12.5°	681.0	680.6	674.1	668.6	658.3	644.8	629.8	622.5	621.1	621.1	618.9
15°	724.1	724.5	717.2	706.9	690.9	672.6	655.8	648.8	647.0	646.3	643.7
17.5°	757.0	760.6	753.3	740.2	720.5	700.4	682.5	675.5	675.1	674.4	671.5
20°	775.6	776.3	772.3	762.8	745.3	725.9	713.5	710.2	709.9	710.2	711.0
22.5°	774.9	776.0	774.5	770.9	759.5	748.9	747.5	749.3	750.4	749.3	751.9
25°	769.0	770.5	770.5	772.3	769.4	773.1	784.8	789.9	790.2	791.0	796.4
27.5°	781.8	783.3	782.9	786.2	788.8	801.6	822.7	831.9	833.0	835.5	840.6
30°	841.0	841.4	834.8	834.4	837.0	847.2	868.8	879.4	878.3	883.4	886.7
32.5°	934.5	937.5	930.9	923.9	922.8	924.3	928.3	935.6	934.5	937.1	941.5
35°	1041.2	1041.6	1037.9	1042.0	1044.1	1034.3	1015.3	1013.5	1007.6	1008.7	1010.2
37.5°	1139.1	1141.7	1148.6	1174.2	1188.8	1164.7	1127.4	1104.1	1100.4	1098.6	1085.8
40°	1230.8	1243.6	1260.4	1293.7	1313.8	1322.5	1269.6	1222.4	1209.6	1204.5	1184.4
42.5°	1338.2	1344.8	1364.5	1402.5	1429.2	1469.0	1433.6	1381.7	1366.7	1344.8	1319.6
45°	1429.2	1433.6	1446.0	1478.2	1534.1	1600.6	1604.6	1568.4	1556.7	1534.8	1497.9
47.5°	1490.2	1489.9	1499.0	1530.4	1603.1	1704.7	1765.0	1763.5	1750.0	1742.3	1710.9
50°	1514.0	1513.6	1519.4	1554.5	1633.8	1766.8	1899.8	1945.4	1945.1	1948.0	1931.9
52.5°	1518.4	1518.0	1518.7	1546.9	1627.6	1788.3	1996.9	2104.7	2120.4	2140.2	2158.1
55°	1485.5	1489.1	1497.2	1526.8	1604.2	1779.6	2068.9	2254.1	2291.8	2332.0	2397.0
57.5°	1409.5	1416.4	1444.2	1497.2	1579.4	1758.0	2119.0	2439.0	2515.4	2612.5	2788.6
60°	1300.6	1306.8	1345.2	1415.3	1507.0	1664.1	2060.9	2516.5	2661.5	2830.3	3191.2
62.5°	1108.1	1125.6	1146.1	1195.8	1291.8	1418.3	1800.0	2385.7	2610.4	2858.1	3354.9
65°	744.2	736.9	770.9	834.1	939.7	1037.9	1326.2	1967.7	2252.0	2592.8	3207.7
67.5°	460.7	461.8	484.8	546.5	626.2	702.5	840.6	1254.2	1506.3	1830.4	2569.8
70°	380.7	385.1	403.7	461.1	529.0	615.2	624.0	664.9	777.8	934.5	1587.4
72.5°	302.1	304.0	323.0	370.8	466.9	585.3	740.9	505.3	496.5	520.2	805.2
75°	187.4	188.9	198.4	229.1	302.9	455.9	815.8	580.9	544.4	513.7	518.8
77.5°	96.8	99.7	104.9	118.7	158.9	254.6	642.3	736.5	694.9	653.2	571.8
80°	54.8	54.8	59.6	62.8	75.3	103.8	326.6	797.2	871.0	888.9	798.3
82.5°	24.5	27.4	36.9	39.5	43.1	47.5	108.1	479.0	664.6	830.1	1025.9
85°	14.6	14.2	23.4	25.6	26.7	22.7	40.6	195.5	310.5	454.5	679.9
87.5°	5.8	6.2	9.9	10.6	12.4	9.1	15.3	42.0	61.7	89.5	126.4
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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	521.7	521.7	521.3	521.0	520.6	519.5	519.1	518.4	518.1	517.0	516.6
5°	542.5	541.4	541.1	540.3	540.0	538.5	538.5	537.0	536.0	534.5	534.1
7.5°	567.4	565.9	564.8	564.1	563.7	561.2	561.2	559.0	558.6	556.8	556.0
10°	592.6	591.5	590.0	589.3	588.9	587.5	586.0	584.5	583.4	582.4	580.9
12.5°	617.8	615.6	614.9	613.8	613.0	611.9	611.6	608.3	608.3	607.2	605.7
15°	642.3	641.9	639.3	639.0	638.2	638.6	636.4	636.8	635.7	633.9	633.1
17.5°	672.2	669.7	670.8	668.9	669.3	668.6	667.8	667.5	668.2	667.8	668.6
20°	709.5	708.8	709.9	707.3	709.9	710.2	709.5	711.3	710.6	711.3	709.1
22.5°	753.7	751.1	751.1	753.0	754.1	757.4	755.5	757.0	758.4	759.5	758.1
25°	798.3	797.5	799.0	800.5	802.7	805.6	804.8	805.2	808.1	810.0	810.3
27.5°	843.6	843.6	848.0	848.0	850.9	854.2	855.3	856.7	858.9	861.5	861.5
30°	890.3	890.3	894.4	898.0	899.5	903.5	905.7	907.9	911.9	912.6	915.9
32.5°	943.7	944.8	948.8	951.0	954.3	959.0	959.7	962.3	967.1	968.5	971.1
35°	1013.1	1009.4	1013.1	1017.1	1018.9	1017.5	1025.5	1028.8	1032.1	1033.9	1037.2
37.5°	1084.7	1078.5	1078.8	1078.1	1073.7	1076.3	1076.3	1075.6	1077.8	1077.4	1078.8
40°	1175.3	1164.3	1161.1	1154.1	1144.6	1139.5	1134.0	1133.3	1127.8	1130.0	1126.0
42.5°	1299.5	1283.1	1274.3	1252.8	1241.1	1227.2	1213.7	1202.0	1195.8	1188.8	1183.7
45°	1470.1	1450.8	1429.6	1394.9	1374.8	1347.0	1329.1	1302.4	1284.5	1269.6	1259.0
47.5°	1684.2	1651.7	1634.5	1602.0	1566.9	1524.9	1486.6	1449.3	1419.0	1386.1	1360.2
50°	1933.0	1892.5	1878.9	1835.8	1816.1	1769.0	1728.1	1682.0	1634.5	1584.8	1537.4
52.5°	2153.3	2148.6	2154.0	2125.2	2124.5	2100.7	2055.4	2001.7	1957.5	1907.4	1845.0
55°	2417.5	2464.6	2474.8	2470.8	2492.4	2491.6	2487.2	2481.8	2446.7	2375.8	2354.3
57.5°	2883.6	2936.6	3014.8	3050.2	3128.4	3137.5	3209.9	3181.7	3235.5	3220.8	3230.7
60°	3358.2	3520.8	3669.1	3782.0	3891.6	3991.3	4113.4	4165.6	4204.7	4265.7	4330.0
62.5°	3570.5	3775.4	3952.2	4113.0	4249.3	4375.7	4480.5	4579.9	4658.1	4728.2	4782.3
65°	3484.6	3722.5	3894.9	4062.6	4189.7	4307.4	4411.5	4486.0	4563.8	4627.4	4684.8
67.5°	2901.2	3217.9	3443.0	3633.3	3793.0	3927.0	4035.2	4137.8	4193.0	4262.4	4293.5
70°	1921.7	2327.9	2646.2	2903.4	3156.5	3308.5	3436.8	3556.2	3619.1	3675.3	3710.0
72.5°	1055.5	1333.1	1672.9	1978.7	2222.0	2421.5	2570.9	2684.2	2748.8	2797.0	2747.0
75°	598.1	735.1	901.3	1070.4	1254.9	1395.6	1435.1	1483.3	1494.6	1469.8	1405.5
77.5°	549.8	549.8	550.2	546.2	554.2	564.1	558.2	548.4	503.8	493.9	480.1
80°	715.0	637.2	553.9	454.8	370.8	312.7	294.8	296.3	310.5	338.3	369.0
82.5°	1013.5	936.7	816.5	665.6	529.7	415.8	340.9	306.5	306.2	333.9	373.7
85°	739.1	745.3	718.6	635.7	507.1	399.3	322.6	247.7	223.6	223.6	220.7
87.5°	129.3	133.3	115.1	103.0	72.0	50.8	45.7	40.2	39.8	41.3	38.0
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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	516.6	515.9	515.1	514.8	514.8	514.0	514.0	513.3	513.7	513.3	512.2
5°	533.4	533.0	531.9	530.1	529.7	528.3	528.6	527.2	527.2	526.5	524.6
7.5°	554.6	553.9	553.1	551.7	550.2	550.2	547.6	547.6	545.8	545.1	543.6
10°	579.8	577.6	576.5	575.0	574.7	574.3	571.8	571.8	569.6	569.2	568.1
12.5°	604.6	603.2	602.1	601.3	599.5	599.2	598.1	597.0	595.9	595.1	594.8
15°	631.7	630.9	629.8	629.8	629.8	628.0	626.9	626.2	626.2	625.1	625.8
17.5°	666.7	667.8	666.4	665.6	664.6	666.4	664.6	664.6	665.6	665.6	663.1
20°	710.2	711.7	710.2	710.6	709.9	710.2	710.6	711.3	712.8	710.2	710.6
22.5°	758.4	758.8	759.9	758.8	760.6	759.5	761.7	763.6	763.2	762.5	762.8
25°	811.1	810.0	810.3	813.6	816.2	815.4	815.8	818.7	818.0	817.3	817.6
27.5°	864.4	863.7	864.8	867.7	870.6	870.2	869.5	871.7	871.7	869.9	870.6
30°	917.4	918.5	920.3	920.3	921.8	923.2	922.1	924.7	925.0	923.6	925.4
32.5°	973.3	975.5	974.7	979.8	979.8	980.2	981.3	980.9	984.6	981.7	982.8
35°	1040.5	1041.2	1045.6	1049.3	1051.4	1053.3	1053.3	1054.4	1056.2	1054.7	1056.9
37.5°	1081.4	1082.9	1084.3	1086.5	1086.5	1086.5	1088.3	1088.7	1089.8	1089.4	1090.2
40°	1126.3	1126.7	1127.1	1127.4	1128.9	1129.6	1127.8	1130.4	1128.5	1129.3	1130.4
42.5°	1180.8	1175.7	1176.4	1175.3	1177.9	1174.6	1175.3	1178.2	1176.8	1179.0	1179.0
45°	1244.0	1238.1	1233.0	1230.1	1230.1	1225.7	1226.4	1227.5	1229.4	1232.3	1237.4
47.5°	1337.5	1317.4	1307.6	1297.3	1292.2	1286.7	1288.6	1288.9	1289.7	1294.4	1307.2
50°	1490.6	1457.0	1431.0	1400.0	1388.3	1378.8	1373.3	1373.7	1373.7	1383.5	1396.3
52.5°	1786.5	1724.0	1662.3	1608.2	1561.8	1539.5	1513.6	1507.0	1507.4	1515.8	1524.6
55°	2297.6	2211.8	2146.4	2026.2	1989.6	1887.0	1832.9	1801.9	1777.7	1789.4	1802.2
57.5°	3214.6	3135.3	3083.5	2939.9	2809.1	2771.8	2683.1	2611.1	2581.5	2547.2	2549.3
60°	4339.5	4298.6	4285.4	4201.4	4154.3	4007.8	3996.1	3905.1	3819.3	3745.1	3775.4
62.5°	4824.0	4842.9	4858.3	4887.9	4899.2	4885.3	4826.5	4786.3	4715.8	4618.6	4559.1
65°	4701.6	4745.0	4810.4	4872.2	4946.0	5007.4	5037.7	5026.0	4962.4	4862.3	4737.4
67.5°	4315.8	4360.0	4416.2	4494.4	4607.3	4726.8	4810.1	4863.0	4812.6	4722.4	4595.2
70°	3708.2	3751.3	3753.1	3862.4	3984.0	4134.6	4282.2	4337.7	4280.3	4220.0	4113.7
72.5°	2777.3	2751.4	2775.5	2795.6	2865.0	2960.0	3103.2	3097.0	3009.3	2962.5	2799.2
75°	1305.4	1287.8	1262.3	1245.4	1229.4	1195.8	1211.8	1143.1	1119.4	1128.9	987.9
77.5°	469.5	445.3	406.6	369.0	321.5	266.3	224.7	197.3	183.8	184.1	175.7
80°	393.8	405.5	400.0	362.8	309.4	251.7	188.5	142.8	122.0	113.3	107.8
82.5°	427.1	485.9	515.1	492.1	415.8	320.0	206.1	124.6	91.3	78.2	74.9
85°	236.7	237.1	229.8	219.6	194.7	133.7	89.1	59.2	47.5	42.4	40.9
87.5°	40.2	38.4	38.4	35.8	31.4	30.7	27.4	25.9	23.0	21.2	20.5
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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	511.1	510.4	510.0	509.6	509.6	509.3	509.3	508.6	507.8	507.5	507.1
5°	522.8	522.1	521.3	520.6	520.6	519.9	519.1	518.4	517.3	515.5	515.1
7.5°	542.5	541.1	541.1	538.5	538.5	537.0	536.0	536.0	534.5	531.6	531.2
10°	567.0	564.5	563.4	561.9	561.2	559.7	559.7	558.2	557.5	556.4	552.8
12.5°	593.3	591.5	590.8	588.9	587.8	587.8	587.1	584.5	586.4	583.8	582.0
15°	625.1	624.7	621.4	622.5	622.2	621.8	622.2	620.0	619.6	619.6	617.4
17.5°	664.9	662.0	662.4	662.4	663.1	663.1	660.2	661.6	662.0	661.3	660.5
20°	711.7	710.6	711.7	709.5	711.7	711.7	713.1	712.8	713.1	713.9	713.9
22.5°	761.7	764.7	765.0	765.8	763.2	767.6	767.6	768.3	770.1	770.1	770.9
25°	822.4	820.9	819.1	821.6	822.4	825.3	826.0	826.0	829.0	829.0	830.1
27.5°	872.8	874.3	873.9	875.4	874.6	878.6	880.1	884.5	883.4	885.6	888.5
30°	924.7	927.6	926.1	926.5	928.3	930.9	933.8	938.2	938.9	944.8	946.2
32.5°	984.6	986.8	988.6	989.3	989.3	993.7	998.5	999.9	1007.6	1012.0	1017.1
35°	1060.6	1060.9	1062.0	1063.1	1062.4	1067.2	1071.9	1073.4	1081.4	1082.5	1093.1
37.5°	1092.7	1093.5	1097.8	1100.0	1101.5	1107.3	1116.1	1122.7	1131.5	1139.9	1151.9
40°	1132.9	1137.3	1141.3	1144.6	1150.1	1158.1	1171.6	1178.2	1191.4	1207.1	1218.8
42.5°	1183.7	1191.7	1194.7	1200.9	1214.4	1224.3	1237.8	1252.0	1269.6	1288.6	1302.4
45°	1244.0	1251.7	1262.6	1269.6	1285.3	1301.0	1322.5	1335.0	1352.9	1374.8	1390.1
47.5°	1317.1	1327.6	1338.6	1352.9	1371.5	1387.9	1409.5	1425.6	1443.5	1461.4	1478.2
50°	1408.0	1423.7	1438.3	1453.3	1478.2	1492.0	1513.2	1530.0	1546.9	1564.8	1580.1
52.5°	1530.4	1554.2	1572.8	1583.0	1616.6	1630.5	1656.5	1668.1	1682.0	1698.1	1717.8
55°	1797.5	1834.4	1865.8	1884.1	1935.2	1953.5	1987.1	2004.3	1994.8	2015.2	2050.7
57.5°	2569.8	2615.1	2652.7	2677.6	2729.8	2755.4	2757.2	2821.5	2783.5	2821.2	2826.6
60°	3694.7	3730.5	3721.4	3721.7	3705.3	3681.5	3727.2	3657.8	3687.0	3688.8	3623.4
62.5°	4449.1	4394.3	4368.7	4326.4	4277.0	4239.0	4213.1	4157.2	4112.6	4077.2	4008.1
65°	4626.7	4531.7	4447.7	4368.4	4295.7	4245.3	4190.5	4130.5	4060.8	4001.9	3934.7
67.5°	4455.0	4322.0	4197.4	4092.9	3993.5	3927.0	3847.8	3790.8	3703.1	3625.6	3574.5
70°	3957.0	3772.9	3627.5	3560.6	3462.0	3319.1	3243.5	3172.2	3118.5	3048.4	3017.3
72.5°	2775.9	2548.6	2436.5	2440.8	2340.7	2238.4	2241.0	2197.5	2128.1	2125.9	2115.3
75°	1020.0	928.0	863.3	866.2	829.0	789.1	800.1	811.8	789.1	835.2	763.9
77.5°	162.2	157.8	156.4	153.1	145.0	150.9	146.9	154.5	155.6	164.0	164.8
80°	103.4	99.0	97.9	96.1	95.7	95.7	95.0	95.0	95.0	95.4	94.6
82.5°	69.0	66.5	66.1	65.0	66.9	67.2	67.6	70.5	73.1	73.8	76.7
85°	37.6	35.8	35.8	35.1	36.5	36.9	40.2	44.2	49.3	51.5	56.3
87.5°	19.0	20.1	19.7	20.5	21.6	24.1	26.7	29.2	32.1	36.2	39.5
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°	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5	507.5
2.5°	506.4	506.0	506.0	505.3	505.3	504.9	504.2	503.4	500.2	496.1	493.6
5°	514.0	513.3	512.9	512.2	511.1	511.1	510.0	508.6	502.3	495.8	491.7
7.5°	529.7	529.4	528.3	526.8	525.4	523.9	523.2	522.4	512.9	506.7	503.8
10°	552.4	552.0	549.5	549.1	546.9	547.3	545.5	544.0	537.8	530.8	526.8
12.5°	581.3	582.7	581.3	578.0	578.7	577.6	575.8	573.9	568.5	563.0	556.8
15°	617.1	615.2	613.8	616.7	614.1	613.8	614.9	615.2	608.7	602.8	594.0
17.5°	661.6	661.6	660.9	661.6	660.2	661.3	660.5	661.3	658.3	650.3	637.5
20°	712.4	715.3	715.3	714.2	713.9	716.1	717.2	713.1	713.9	706.9	683.9
22.5°	771.6	773.8	774.5	773.4	773.8	776.7	778.5	775.6	782.2	770.9	735.4
25°	832.6	835.9	834.4	834.8	837.7	841.0	844.3	841.4	854.2	836.6	790.2
27.5°	892.9	895.8	895.1	897.3	902.0	906.4	910.1	909.0	930.2	907.1	848.0
30°	949.9	956.8	958.3	960.8	966.7	974.0	979.8	979.5	1006.9	975.8	895.1
32.5°	1020.0	1027.7	1030.6	1036.1	1047.4	1052.5	1059.9	1060.6	1088.0	1036.1	934.9
35°	1101.1	1108.8	1115.0	1119.0	1131.8	1138.0	1145.3	1148.6	1166.9	1092.4	962.7
37.5°	1164.0	1170.5	1182.6	1191.0	1202.3	1214.8	1223.2	1227.2	1237.4	1140.6	975.5
40°	1232.7	1246.9	1258.6	1271.4	1283.8	1293.7	1301.3	1307.6	1303.5	1180.8	970.0
42.5°	1319.6	1334.6	1350.3	1361.3	1367.8	1381.0	1384.6	1389.0	1356.1	1199.0	945.1
45°	1410.2	1422.3	1435.4	1443.5	1452.2	1458.8	1459.9	1460.3	1395.2	1188.5	900.2
47.5°	1497.5	1507.8	1516.9	1521.3	1525.7	1526.0	1524.2	1521.3	1416.1	1152.6	846.1
50°	1593.2	1599.5	1603.5	1603.8	1607.9	1600.2	1595.1	1581.6	1413.9	1097.8	789.1
52.5°	1731.0	1729.5	1724.4	1724.0	1711.3	1696.6	1687.1	1667.8	1398.9	1038.7	723.4
55°	2047.4	2033.5	2049.6	2008.6	1974.7	1952.0	1898.3	1859.2	1413.9	983.5	647.7
57.5°	2807.6	2760.1	2765.3	2699.1	2626.8	2491.3	2411.2	2303.1	1531.5	952.8	552.4
60°	3609.6	3531.4	3457.6	3340.3	3186.5	3014.4	2859.5	2690.4	1648.4	915.2	450.8
62.5°	3940.6	3839.7	3711.5	3546.0	3348.3	3135.0	2920.9	2728.0	1584.1	801.9	324.8
65°	3833.9	3713.3	3576.7	3360.8	3136.4	2888.4	2653.8	2450.0	1319.2	586.4	196.2
67.5°	3455.0	3351.3	3182.8	2979.0	2701.3	2452.5	2220.5	2032.0	972.5	362.4	112.5
70°	2909.2	2765.6	2621.7	2425.9	2133.2	1898.7	1682.8	1516.2	617.1	179.0	82.9
72.5°	2007.9	1894.3	1779.2	1603.8	1385.4	1223.9	1038.3	901.3	323.0	96.4	76.4
75°	782.2	769.8	756.6	677.0	602.8	483.0	424.2	382.5	134.4	83.7	75.3
77.5°	171.7	181.9	187.8	177.9	169.5	151.3	144.7	129.3	89.9	85.9	74.5
80°	94.6	94.6	94.6	95.7	93.9	93.9	92.8	91.0	84.0	85.9	73.1
82.5°	77.5	78.5	80.0	80.4	80.0	80.4	79.6	79.3	82.2	86.2	69.4
85°	59.2	62.8	65.0	68.0	70.9	72.7	73.4	73.8	75.6	81.8	60.6
87.5°	42.0	44.9	49.7	50.4	53.7	57.7	59.2	61.4	60.3	62.1	28.5
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°	507.5	507.5	507.5	507.5	507.5
2.5°	491.4	488.5	487.4	487.0	486.3
5°	488.5	486.6	485.2	484.1	484.8
7.5°	501.6	500.5	498.0	497.2	498.3
10°	525.0	522.4	518.8	519.1	518.8
12.5°	554.2	547.3	541.4	538.9	537.0
15°	584.2	570.7	558.6	553.1	550.9
17.5°	617.4	594.4	575.8	565.9	564.1
20°	652.5	620.7	596.6	584.9	583.1
22.5°	693.1	649.2	618.5	602.4	599.9
25°	732.5	674.8	633.9	614.1	610.8
27.5°	768.3	694.1	643.0	619.6	616.3
30°	798.3	709.5	650.7	624.0	620.3
32.5°	818.0	717.9	653.2	624.4	620.0
35°	824.2	712.4	642.3	609.0	605.4
37.5°	811.1	690.1	613.0	575.4	572.5
40°	781.1	648.8	567.0	527.9	524.3
42.5°	734.3	596.6	513.7	472.4	469.1
45°	682.5	540.7	457.0	415.8	412.5
47.5°	625.8	481.5	397.5	359.5	354.4
50°	563.7	417.2	336.8	299.6	294.8
52.5°	491.0	347.1	272.5	238.9	236.0
55°	405.9	276.6	217.0	192.5	189.6
57.5°	315.7	210.4	172.4	160.4	155.6
60°	229.1	160.0	137.4	131.5	129.0
62.5°	155.6	119.5	110.7	108.9	107.0
65°	105.6	93.5	91.0	91.3	90.2
67.5°	83.3	78.5	77.1	77.8	77.5
70°	73.1	69.4	69.0	69.8	69.4
72.5°	69.0	64.3	65.0	66.1	65.8
75°	67.2	62.1	63.6	64.3	62.5
77.5°	65.4	58.8	63.2	64.7	61.0
80°	62.8	55.9	66.1	65.4	58.5
82.5°	57.4	49.3	64.7	59.2	52.6
85°	46.8	36.9	72.7	52.2	38.4
87.5°	30.0	22.3	50.4	39.8	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)