

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: P146331

Luminaire Tested: **LDRL-T2-E02-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146331
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6153.7 lumens
Efficiency: N/A
Efficacy: 118.1 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

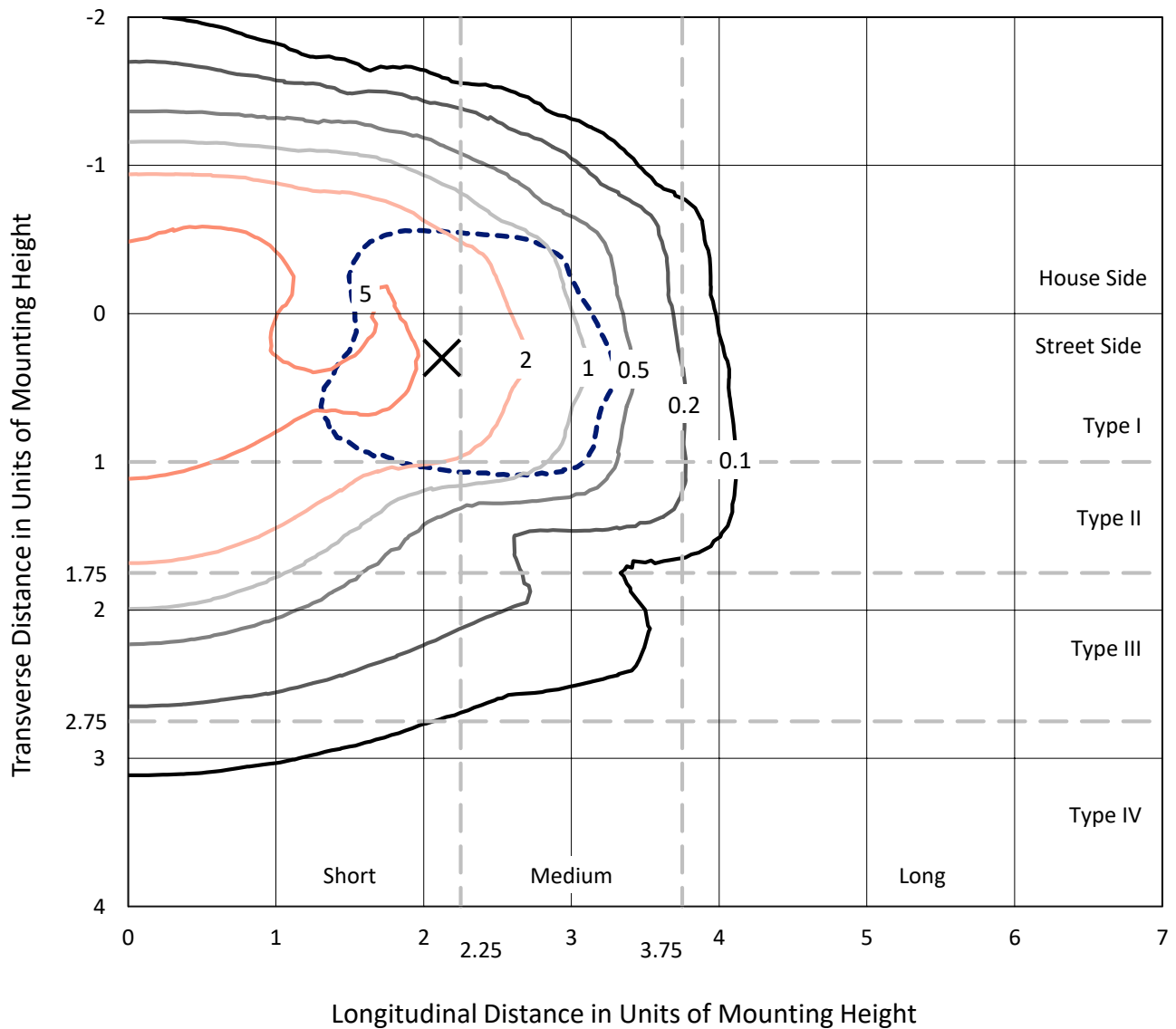
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

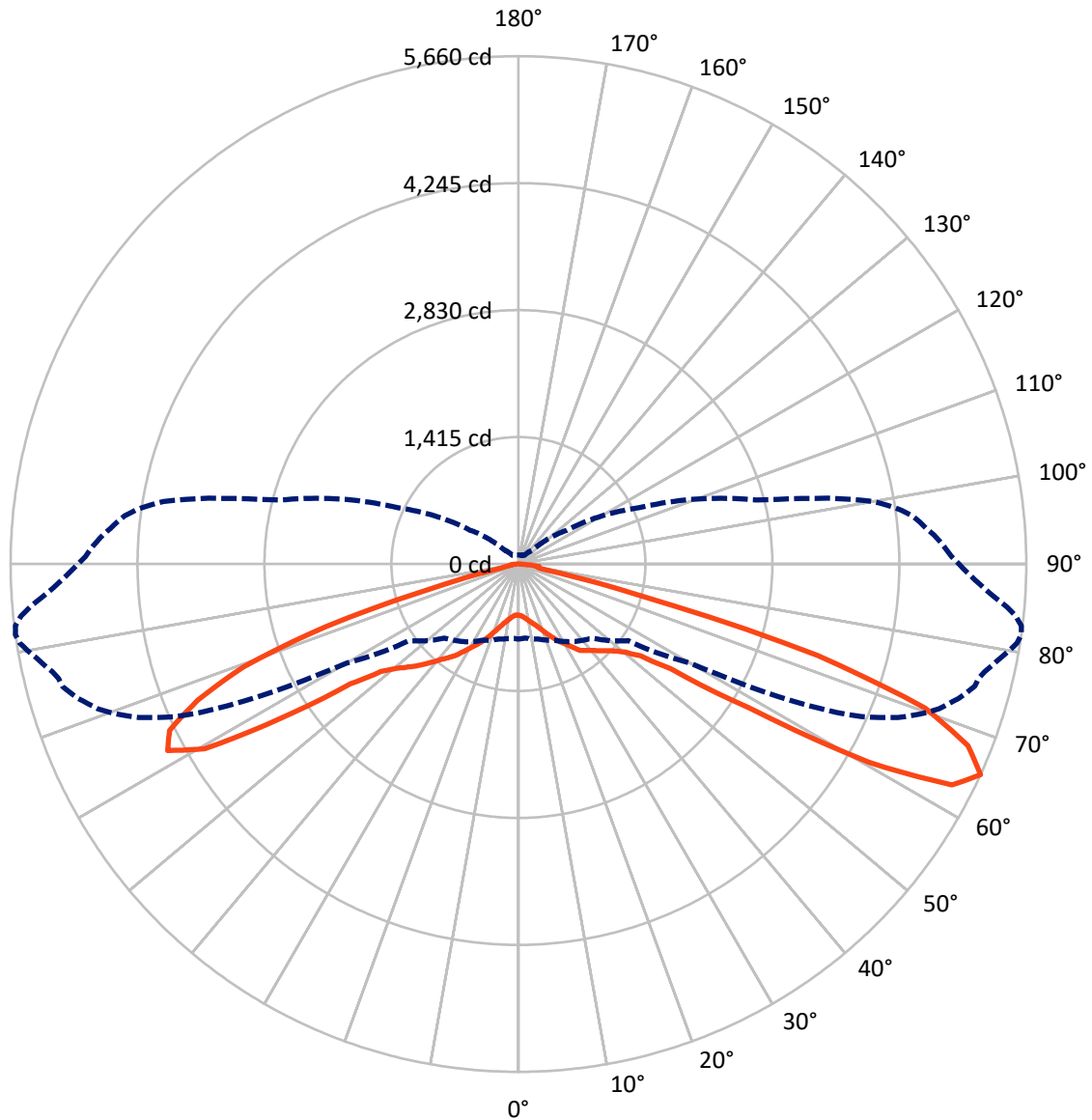
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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	2265.2	0.0	2265.2
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	3888.5	0.0	3888.5
	% Fixture	63.2	0.0	63.2
Total	Lumens	6153.7	0.0	6153.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	0.9
10°-20°	203.8	3.3
20°-30°	404.2	6.6
30°-40°	689.7	11.2
40°-50°	1034.2	16.8
50°-60°	1439.5	23.4
60°-70°	1653.9	26.9
70°-80°	570.7	9.3
80°-90°	99.8	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°	6153.7	100.0
0°-180°	6153.7	100.0



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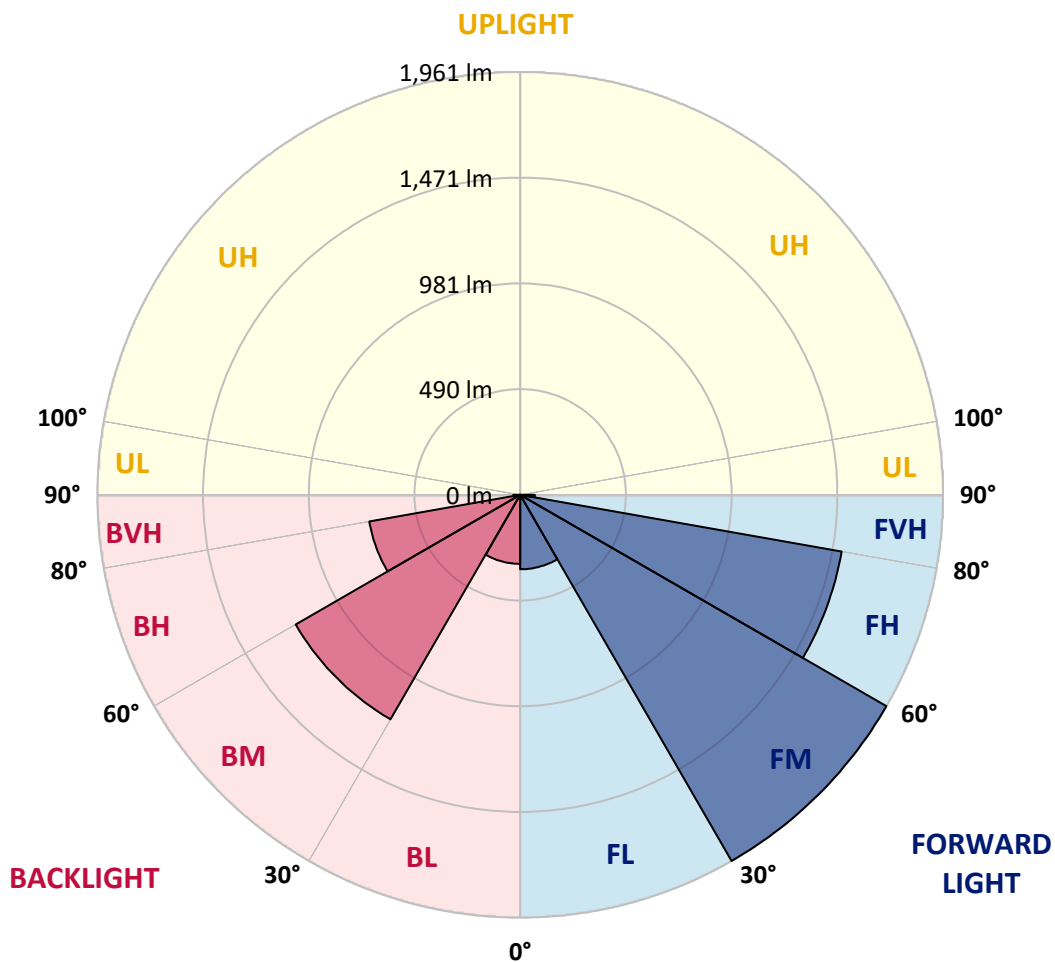
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.4	5.6			
FM	(30°-60°)	1961.3	31.9			
FH	(60°-80°)	1514.0	24.6			G1/1800
FVH	(80°-90°)	67.8	1.1			G1/100
BL	(0°-30°)	320.4	5.2	B1/500		
BM	(30°-60°)	1202.2	19.5	B2/2500		
BH	(60°-80°)	710.6	11.5	B2/1000		G2/1000
BVH	(80°-90°)	32.0	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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	601.7	601.3	600.9	599.2	598.4	595.1	591.9	589.8	588.2	589.0	586.5
5°	636.6	636.6	635.0	632.9	630.4	625.9	617.7	613.6	612.8	612.8	609.9
7.5°	672.3	674.8	670.3	668.6	664.5	657.5	648.1	642.8	641.1	641.1	638.6
10°	717.5	716.2	711.3	708.0	699.8	690.4	677.6	671.5	669.0	671.1	667.0
12.5°	765.1	764.7	757.3	751.1	739.6	724.4	707.6	699.4	697.8	697.8	695.3
15°	813.5	813.9	805.7	794.2	776.1	755.6	736.7	728.9	726.9	726.1	723.2
17.5°	850.4	854.5	846.3	831.6	809.4	786.8	766.7	758.9	758.5	757.7	754.4
20°	871.4	872.2	867.7	857.0	837.3	815.5	801.6	797.9	797.5	797.9	798.7
22.5°	870.5	871.8	870.1	866.0	853.3	841.4	839.8	841.8	843.0	841.8	844.7
25°	864.0	865.6	865.6	867.7	864.4	868.5	881.6	887.4	887.8	888.6	894.8
27.5°	878.3	880.0	879.6	883.3	886.1	900.5	924.3	934.6	935.8	938.7	944.4
30°	944.8	945.2	937.9	937.4	940.3	951.8	976.0	987.9	986.7	992.4	996.1
32.5°	1049.9	1053.2	1045.8	1038.0	1036.8	1038.4	1042.9	1051.1	1049.9	1052.8	1057.7
35°	1169.8	1170.2	1166.1	1170.6	1173.0	1162.0	1140.6	1138.6	1132.0	1133.2	1134.9
37.5°	1279.8	1282.6	1290.4	1319.2	1335.6	1308.5	1266.6	1240.4	1236.3	1234.2	1219.8
40°	1382.8	1397.1	1416.0	1453.4	1476.0	1485.8	1426.3	1373.3	1359.0	1353.2	1330.7
42.5°	1503.4	1510.8	1533.0	1575.7	1605.6	1650.4	1610.6	1552.3	1535.5	1510.8	1482.5
45°	1605.6	1610.6	1624.5	1660.6	1723.4	1798.1	1802.7	1762.0	1748.9	1724.3	1682.8
47.5°	1674.2	1673.8	1684.0	1719.3	1801.0	1915.1	1982.8	1981.2	1966.0	1957.4	1922.1
50°	1700.9	1700.5	1707.0	1746.4	1835.5	1984.9	2134.3	2185.6	2185.2	2188.5	2170.4
52.5°	1705.8	1705.4	1706.2	1737.8	1828.5	2009.1	2243.5	2364.6	2382.2	2404.4	2424.5
55°	1668.9	1673.0	1682.0	1715.2	1802.3	1999.3	2324.3	2532.4	2574.7	2619.9	2692.9
57.5°	1583.5	1591.3	1622.5	1682.0	1774.3	1975.0	2380.6	2740.1	2825.9	2935.1	3132.9
60°	1461.2	1468.2	1511.2	1590.1	1693.1	1869.6	2315.3	2827.1	2990.1	3179.7	3585.2
62.5°	1244.9	1264.6	1287.6	1343.4	1451.3	1593.3	2022.2	2680.2	2932.6	3210.9	3769.1
65°	836.1	827.9	866.0	937.0	1055.7	1166.1	1489.9	2210.6	2530.0	2912.9	3603.7
67.5°	517.6	518.8	544.7	614.0	703.5	789.3	944.4	1409.0	1692.3	2056.3	2887.1
70°	427.7	432.6	453.5	518.0	594.3	691.2	701.0	747.0	873.8	1049.9	1783.4
72.5°	339.4	341.5	362.8	416.6	524.5	657.5	832.4	567.6	557.8	584.5	904.6
75°	210.6	212.2	222.9	257.3	340.3	512.2	916.5	652.6	611.6	577.1	582.8
77.5°	108.8	112.1	117.8	133.4	178.5	286.1	721.6	827.5	780.7	733.9	642.3
80°	61.6	61.6	66.9	70.6	84.6	116.6	366.9	895.6	978.5	998.6	896.8
82.5°	27.5	30.8	41.5	44.3	48.4	53.4	121.5	538.1	746.6	932.5	1152.5
85°	16.4	16.0	26.3	28.7	30.0	25.4	45.6	219.6	348.9	510.6	763.8
87.5°	6.6	7.0	11.1	11.9	14.0	10.3	17.2	47.2	69.4	100.6	142.0
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	586.1	586.1	585.7	585.3	584.9	583.6	583.2	582.4	582.0	580.8	580.4
5°	609.5	608.3	607.9	607.0	606.6	605.0	605.0	603.4	602.1	600.5	600.1
7.5°	637.4	635.8	634.5	633.7	633.3	630.4	630.4	628.0	627.6	625.5	624.7
10°	665.7	664.5	662.9	662.0	661.6	660.0	658.3	656.7	655.5	654.2	652.6
12.5°	694.1	691.6	690.8	689.5	688.7	687.5	687.1	683.4	683.4	682.2	680.5
15°	721.6	721.1	718.3	717.9	717.0	717.5	715.0	715.4	714.2	712.1	711.3
17.5°	755.2	752.3	753.6	751.5	751.9	751.1	750.3	749.9	750.7	750.3	751.1
20°	797.1	796.3	797.5	794.6	797.5	797.9	797.1	799.1	798.3	799.1	796.7
22.5°	846.7	843.9	843.9	845.9	847.2	850.8	848.8	850.4	852.1	853.3	851.7
25°	896.8	896.0	897.6	899.3	901.7	905.0	904.2	904.6	907.9	910.0	910.4
27.5°	947.7	947.7	952.6	952.6	955.9	959.6	960.8	962.5	964.9	967.8	967.8
30°	1000.2	1000.2	1004.8	1008.9	1010.5	1015.0	1017.5	1019.9	1024.5	1025.3	1029.0
32.5°	1060.2	1061.4	1065.9	1068.4	1072.1	1077.4	1078.2	1081.1	1086.4	1088.1	1091.0
35°	1138.2	1134.1	1138.2	1142.7	1144.7	1143.1	1152.1	1155.8	1159.5	1161.6	1165.2
37.5°	1218.6	1211.6	1212.0	1211.2	1206.3	1209.2	1209.2	1208.3	1210.8	1210.4	1212.0
40°	1320.4	1308.1	1304.4	1296.6	1285.9	1280.2	1274.0	1273.2	1267.0	1269.5	1265.0
42.5°	1459.9	1441.5	1431.6	1407.4	1394.3	1378.7	1363.5	1350.4	1343.4	1335.6	1329.8
45°	1651.6	1629.9	1606.1	1567.1	1544.5	1513.3	1493.2	1463.2	1443.1	1426.3	1414.4
47.5°	1892.1	1855.6	1836.3	1799.8	1760.4	1713.2	1670.1	1628.2	1594.2	1557.2	1528.1
50°	2171.6	2126.1	2110.9	2062.5	2040.3	1987.4	1941.4	1889.7	1836.3	1780.5	1727.1
52.5°	2419.1	2413.8	2420.0	2387.5	2386.7	2360.0	2309.1	2248.8	2199.1	2142.9	2072.7
55°	2715.9	2768.8	2780.3	2775.8	2800.0	2799.2	2794.3	2788.1	2748.7	2669.1	2644.9
57.5°	3239.6	3299.1	3387.0	3426.8	3514.6	3524.9	3606.1	3574.5	3634.9	3618.5	3629.5
60°	3772.8	3955.4	4122.1	4248.9	4372.0	4484.1	4621.2	4679.9	4723.8	4792.3	4864.6
62.5°	4011.3	4241.5	4440.2	4620.8	4773.9	4915.9	5033.7	5145.3	5233.1	5311.9	5372.7
65°	3914.8	4182.0	4375.7	4564.1	4707.0	4839.1	4956.1	5039.8	5127.2	5198.7	5263.1
67.5°	3259.3	3615.2	3868.0	4081.8	4261.2	4411.8	4533.3	4648.7	4710.6	4788.6	4823.5
70°	2158.9	2615.3	2972.8	3261.8	3546.2	3717.0	3861.0	3995.2	4065.8	4129.0	4168.0
72.5°	1185.8	1497.7	1879.4	2223.0	2496.3	2720.4	2888.3	3015.5	3088.2	3142.3	3086.1
75°	671.9	825.8	1012.6	1202.6	1409.9	1567.9	1612.2	1666.4	1679.1	1651.2	1579.0
77.5°	617.7	617.7	618.1	613.6	622.6	633.7	627.2	616.1	566.0	554.9	539.3
80°	803.2	715.8	622.2	511.0	416.6	351.3	331.2	332.9	348.9	380.1	414.5
82.5°	1138.6	1052.4	917.3	747.8	595.1	467.1	382.9	344.4	344.0	375.1	419.9
85°	830.3	837.3	807.3	714.2	569.7	448.6	362.4	278.3	251.2	251.2	247.9
87.5°	145.3	149.8	129.3	115.7	80.9	57.1	51.3	45.1	44.7	46.4	42.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	580.4	579.5	578.7	578.3	578.3	577.5	577.5	576.7	577.1	576.7	575.4
5°	599.2	598.8	597.6	595.6	595.1	593.5	593.9	592.3	592.3	591.4	589.4
7.5°	623.1	622.2	621.4	619.8	618.1	618.1	615.3	615.3	613.2	612.4	610.7
10°	651.4	648.9	647.7	646.0	645.6	645.2	642.3	642.3	639.9	639.5	638.2
12.5°	679.3	677.6	676.4	675.6	673.5	673.1	671.9	670.7	669.4	668.6	668.2
15°	709.7	708.8	707.6	707.6	707.6	705.6	704.3	703.5	703.5	702.3	703.1
17.5°	749.1	750.3	748.6	747.8	746.6	748.6	746.6	746.6	747.8	747.8	745.0
20°	797.9	799.5	797.9	798.3	797.5	797.9	798.3	799.1	800.8	797.9	798.3
22.5°	852.1	852.5	853.7	852.5	854.5	853.3	855.8	857.8	857.4	856.6	857.0
25°	911.2	910.0	910.4	914.1	916.9	916.1	916.5	919.8	919.0	918.2	918.6
27.5°	971.1	970.3	971.5	974.8	978.1	977.7	976.9	979.3	979.3	977.3	978.1
30°	1030.6	1031.9	1033.9	1033.9	1035.5	1037.2	1036.0	1038.8	1039.2	1037.6	1039.7
32.5°	1093.4	1095.9	1095.1	1100.8	1100.8	1101.2	1102.4	1102.0	1106.1	1102.9	1104.1
35°	1168.9	1169.8	1174.7	1178.8	1181.3	1183.3	1183.3	1184.5	1186.6	1184.9	1187.4
37.5°	1214.9	1216.6	1218.2	1220.7	1220.7	1220.7	1222.7	1223.1	1224.3	1223.9	1224.8
40°	1265.4	1265.8	1266.2	1266.6	1268.3	1269.1	1267.0	1269.9	1267.9	1268.7	1269.9
42.5°	1326.5	1320.8	1321.6	1320.4	1323.3	1319.6	1320.4	1323.7	1322.0	1324.5	1324.5
45°	1397.6	1391.0	1385.2	1382.0	1382.0	1377.0	1377.9	1379.1	1381.1	1384.4	1390.2
47.5°	1502.6	1480.1	1469.0	1457.5	1451.7	1445.6	1447.6	1448.0	1448.9	1454.2	1468.6
50°	1674.6	1636.8	1607.7	1572.8	1559.7	1549.0	1542.9	1543.3	1543.3	1554.3	1568.7
52.5°	2007.1	1936.9	1867.5	1806.8	1754.6	1729.6	1700.5	1693.1	1693.5	1702.9	1712.8
55°	2581.3	2484.8	2411.3	2276.3	2235.3	2119.9	2059.2	2024.3	1997.2	2010.3	2024.7
57.5°	3611.5	3522.4	3464.1	3302.8	3155.9	3114.0	3014.3	2933.4	2900.2	2861.6	2864.1
60°	4875.2	4829.3	4814.5	4720.1	4667.1	4502.6	4489.4	4387.2	4290.8	4207.4	4241.5
62.5°	5419.5	5440.8	5458.1	5491.3	5504.0	5488.4	5422.4	5377.2	5298.0	5188.8	5121.9
65°	5282.0	5330.8	5404.3	5473.7	5556.6	5625.5	5659.6	5646.5	5575.0	5462.6	5322.2
67.5°	4848.6	4898.2	4961.4	5049.3	5176.1	5310.3	5403.9	5463.4	5406.8	5305.4	5162.5
70°	4166.0	4214.4	4216.5	4339.2	4475.9	4645.0	4810.8	4873.2	4808.7	4741.0	4621.6
72.5°	3120.2	3091.0	3118.1	3140.7	3218.7	3325.4	3486.3	3479.3	3380.8	3328.3	3144.8
75°	1466.5	1446.8	1418.1	1399.2	1381.1	1343.4	1361.4	1284.3	1257.6	1268.3	1109.8
77.5°	527.4	500.3	456.8	414.5	361.2	299.2	252.4	221.6	206.5	206.9	197.4
80°	442.5	455.6	449.4	407.6	347.6	282.8	211.8	160.5	137.1	127.2	121.1
82.5°	479.8	545.9	578.7	552.9	467.1	359.5	231.5	140.0	102.6	87.8	84.1
85°	266.0	266.4	258.2	246.7	218.8	150.2	100.1	66.5	53.4	47.6	46.0
87.5°	45.1	43.1	43.1	40.2	35.3	34.5	30.8	29.1	25.9	23.8	23.0
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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	574.2	573.4	573.0	572.6	572.6	572.2	572.2	571.3	570.5	570.1	569.7
5°	587.3	586.5	585.7	584.9	584.9	584.1	583.2	582.4	581.2	579.1	578.7
7.5°	609.5	607.9	607.9	605.0	605.0	603.4	602.1	602.1	600.5	597.2	596.8
10°	637.0	634.1	632.9	631.3	630.4	628.8	628.8	627.2	626.3	625.1	621.0
12.5°	666.6	664.5	663.7	661.6	660.4	660.4	659.6	656.7	658.8	655.9	653.8
15°	702.3	701.9	698.2	699.4	699.0	698.6	699.0	696.5	696.1	696.1	693.6
17.5°	747.0	743.7	744.1	744.1	745.0	745.0	741.7	743.3	743.7	742.9	742.1
20°	799.5	798.3	799.5	797.1	799.5	799.5	801.2	800.8	801.2	802.0	802.0
22.5°	855.8	859.1	859.5	860.3	857.4	862.3	862.3	863.2	865.2	865.2	866.0
25°	923.9	922.3	920.2	923.1	923.9	927.2	928.0	928.0	931.3	931.3	932.5
27.5°	980.5	982.2	981.8	983.4	982.6	987.1	988.8	993.7	992.4	994.9	998.2
30°	1038.8	1042.1	1040.5	1040.9	1042.9	1045.8	1049.1	1054.0	1054.8	1061.4	1063.0
32.5°	1106.1	1108.6	1110.7	1111.5	1111.5	1116.4	1121.7	1123.4	1132.0	1136.9	1142.7
35°	1191.5	1191.9	1193.2	1194.4	1193.6	1198.9	1204.2	1205.9	1214.9	1216.1	1228.0
37.5°	1227.6	1228.5	1233.4	1235.8	1237.5	1244.1	1253.9	1261.3	1271.1	1280.6	1294.1
40°	1272.8	1277.7	1282.2	1285.9	1292.1	1301.1	1316.3	1323.7	1338.5	1356.1	1369.2
42.5°	1329.8	1338.9	1342.1	1349.1	1364.3	1375.4	1390.6	1406.6	1426.3	1447.6	1463.2
45°	1397.6	1406.2	1418.5	1426.3	1443.9	1461.6	1485.8	1499.8	1519.9	1544.5	1561.7
47.5°	1479.6	1491.5	1503.9	1519.9	1540.8	1559.3	1583.5	1601.5	1621.7	1641.8	1660.6
50°	1581.8	1599.5	1615.9	1632.7	1660.6	1676.2	1700.1	1718.9	1737.8	1757.9	1775.2
52.5°	1719.3	1746.0	1767.0	1778.4	1816.2	1831.8	1860.9	1874.1	1889.7	1907.7	1929.9
55°	2019.4	2060.8	2096.1	2116.7	2174.1	2194.6	2232.4	2251.7	2241.0	2264.0	2303.8
57.5°	2887.1	2937.9	2980.2	3008.1	3066.8	3095.6	3097.6	3169.8	3127.2	3169.4	3175.6
60°	4150.8	4191.0	4180.8	4181.2	4162.7	4136.0	4187.3	4109.3	4142.2	4144.2	4070.8
62.5°	4998.4	4936.8	4908.1	4860.5	4805.0	4762.4	4733.2	4670.4	4620.3	4580.5	4503.0
65°	5197.8	5091.1	4996.7	4907.7	4826.0	4769.3	4707.8	4640.5	4562.1	4496.0	4420.5
67.5°	5004.9	4855.5	4715.6	4598.2	4486.5	4411.8	4322.8	4258.7	4160.2	4073.2	4015.8
70°	4445.5	4238.6	4075.3	4000.2	3889.4	3728.9	3643.9	3563.9	3503.5	3424.7	3389.8
72.5°	3118.5	2863.2	2737.2	2742.2	2629.7	2514.8	2517.7	2468.8	2390.8	2388.4	2376.5
75°	1146.0	1042.5	969.9	973.2	931.3	886.6	898.9	912.0	886.6	938.3	858.2
77.5°	182.2	177.3	175.7	172.0	162.9	169.5	165.0	173.6	174.8	184.3	185.1
80°	116.2	111.2	110.0	107.9	107.5	107.5	106.7	106.7	106.7	107.1	106.3
82.5°	77.6	74.7	74.3	73.1	75.1	75.5	75.9	79.2	82.1	82.9	86.2
85°	42.3	40.2	40.2	39.4	41.0	41.5	45.1	49.7	55.4	57.9	63.2
87.5°	21.3	22.6	22.2	23.0	24.2	27.1	30.0	32.8	36.1	40.6	44.3
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	568.9	568.5	568.5	567.6	567.6	567.2	566.4	565.6	561.9	557.4	554.5
5°	577.5	576.7	576.3	575.4	574.2	574.2	573.0	571.3	564.4	557.0	552.5
7.5°	595.1	594.7	593.5	591.9	590.2	588.6	587.8	586.9	576.3	569.3	566.0
10°	620.6	620.2	617.3	616.9	614.4	614.8	612.8	611.1	604.2	596.4	591.9
12.5°	653.0	654.7	653.0	649.3	650.1	648.9	646.9	644.8	638.6	632.5	625.5
15°	693.2	691.2	689.5	692.8	690.0	689.5	690.8	691.2	683.8	677.2	667.4
17.5°	743.3	743.3	742.5	743.3	741.7	742.9	742.1	742.9	739.6	730.6	716.2
20°	800.4	803.6	803.6	802.4	802.0	804.5	805.7	801.2	802.0	794.2	768.3
22.5°	866.9	869.3	870.1	868.9	869.3	872.6	874.7	871.4	878.8	866.0	826.2
25°	935.4	939.1	937.4	937.9	941.1	944.8	948.5	945.2	959.6	939.9	887.8
27.5°	1003.1	1006.4	1005.6	1008.0	1013.4	1018.3	1022.4	1021.2	1045.0	1019.1	952.6
30°	1067.1	1074.9	1076.6	1079.5	1086.0	1094.2	1100.8	1100.4	1131.2	1096.3	1005.6
32.5°	1146.0	1154.6	1157.9	1164.0	1176.7	1182.5	1190.7	1191.5	1222.3	1164.0	1050.3
35°	1237.1	1245.7	1252.7	1257.2	1271.5	1278.5	1286.7	1290.4	1311.0	1227.2	1081.5
37.5°	1307.7	1315.1	1328.6	1338.0	1350.8	1364.7	1374.2	1378.7	1390.2	1281.4	1095.9
40°	1384.8	1400.8	1414.0	1428.3	1442.3	1453.4	1462.0	1469.0	1464.5	1326.5	1089.7
42.5°	1482.5	1499.3	1517.0	1529.3	1536.7	1551.5	1555.6	1560.5	1523.6	1347.1	1061.8
45°	1584.3	1597.9	1612.6	1621.7	1631.5	1638.9	1640.1	1640.5	1567.5	1335.2	1011.3
47.5°	1682.4	1693.9	1704.2	1709.1	1714.0	1714.4	1712.4	1709.1	1590.9	1294.9	950.6
50°	1789.9	1796.9	1801.4	1801.8	1806.4	1797.7	1792.0	1776.8	1588.4	1233.4	886.6
52.5°	1944.7	1943.0	1937.3	1936.9	1922.5	1906.1	1895.4	1873.7	1571.6	1166.9	812.7
55°	2300.1	2284.5	2302.6	2256.6	2218.4	2193.0	2132.7	2088.7	1588.4	1104.9	727.7
57.5°	3154.2	3100.9	3106.6	3032.3	2951.1	2798.8	2708.9	2587.4	1720.6	1070.4	620.6
60°	4055.2	3967.3	3884.4	3752.7	3579.9	3386.6	3212.5	3022.5	1851.9	1028.2	506.5
62.5°	4427.0	4313.7	4169.7	3983.8	3761.7	3522.0	3281.5	3064.8	1779.7	900.9	364.9
65°	4307.2	4171.7	4018.2	3775.7	3523.6	3245.0	2981.5	2752.4	1482.1	658.8	220.4
67.5°	3881.6	3765.0	3575.8	3346.7	3034.8	2755.3	2494.7	2282.9	1092.6	407.2	126.4
70°	3268.4	3107.0	2945.3	2725.3	2396.6	2133.1	1890.5	1703.3	693.2	201.1	93.2
72.5°	2255.8	2128.1	1998.9	1801.8	1556.4	1375.0	1166.5	1012.6	362.8	108.4	85.8
75°	878.8	864.8	850.0	760.5	677.2	542.6	476.5	429.7	151.0	94.0	84.6
77.5°	192.9	204.4	211.0	199.9	190.4	169.9	162.5	145.3	101.0	96.5	83.7
80°	106.3	106.3	106.3	107.5	105.5	105.5	104.3	102.2	94.4	96.5	82.1
82.5°	87.0	88.2	89.9	90.3	89.9	90.3	89.5	89.1	92.3	96.9	78.0
85°	66.5	70.6	73.1	76.3	79.6	81.7	82.5	82.9	85.0	91.9	68.1
87.5°	47.2	50.5	55.8	56.6	60.3	64.8	66.5	69.0	67.7	69.8	32.0
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):

	145°	155°	165°	175°	180°
0°	570.1	570.1	570.1	570.1	570.1
2.5°	552.0	548.8	547.5	547.1	546.3
5°	548.8	546.7	545.1	543.8	544.7
7.5°	563.5	562.3	559.4	558.6	559.8
10°	589.8	586.9	582.8	583.2	582.8
12.5°	622.6	614.8	608.3	605.4	603.4
15°	656.3	641.1	627.6	621.4	618.9
17.5°	693.6	667.8	646.9	635.8	633.7
20°	733.0	697.3	670.3	657.1	655.1
22.5°	778.6	729.4	694.9	676.8	673.9
25°	822.9	758.1	712.1	690.0	686.3
27.5°	863.2	779.8	722.4	696.1	692.4
30°	896.8	797.1	731.0	701.0	696.9
32.5°	919.0	806.5	733.9	701.4	696.5
35°	926.0	800.4	721.6	684.2	680.1
37.5°	911.2	775.3	688.7	646.4	643.2
40°	877.5	728.9	637.0	593.1	589.0
42.5°	825.0	670.3	577.1	530.7	527.0
45°	766.7	607.5	513.5	467.1	463.4
47.5°	703.1	541.0	446.6	403.9	398.1
50°	633.3	468.7	378.4	336.6	331.2
52.5°	551.6	389.9	306.2	268.4	265.1
55°	456.0	310.7	243.8	216.3	213.0
57.5°	354.6	236.4	193.7	180.2	174.8
60°	257.3	179.8	154.3	147.8	144.9
62.5°	174.8	134.2	124.4	122.3	120.3
65°	118.6	105.1	102.2	102.6	101.4
67.5°	93.6	88.2	86.6	87.4	87.0
70°	82.1	78.0	77.6	78.4	78.0
72.5°	77.6	72.2	73.1	74.3	73.9
75°	75.5	69.8	71.4	72.2	70.2
77.5°	73.5	66.1	71.0	72.6	68.5
80°	70.6	62.8	74.3	73.5	65.7
82.5°	64.4	55.4	72.6	66.5	59.1
85°	52.5	41.5	81.7	58.7	43.1
87.5°	33.7	25.0	56.6	44.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)