

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: P144833

Luminaire Tested: **LDRL-SL2-F02-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144833
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-F02-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080.1 lumens
Efficiency: N/A
Efficacy: 74.2 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

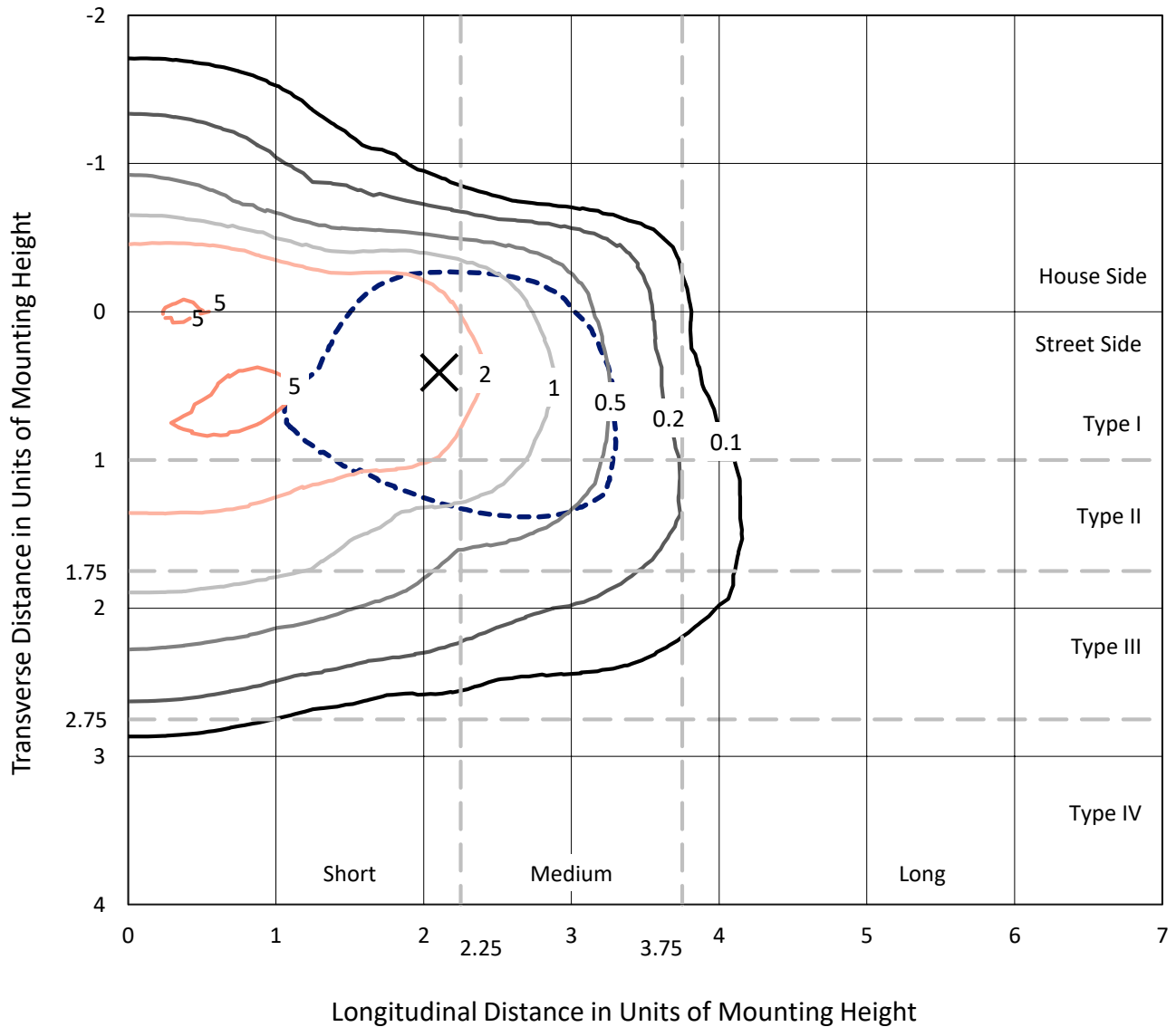


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Iso-Footcandle Lines of Horizontal Illumination

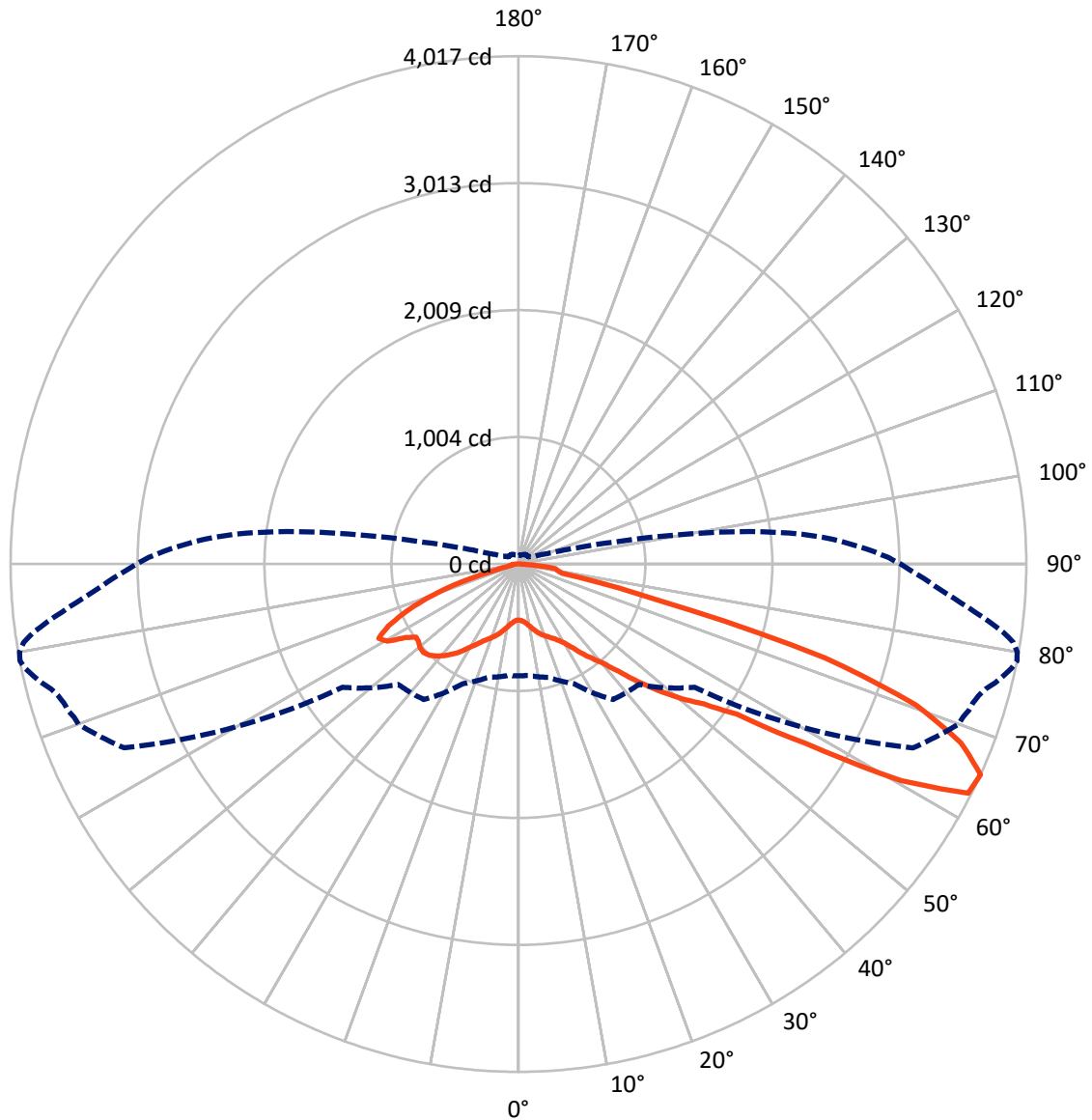
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.1	0.0	926.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	3153.9	0.0	3153.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	4080.1	0.0	4080.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.1
10°-20°	143.3	3.5
20°-30°	247.0	6.1
30°-40°	402.8	9.9
40°-50°	672.4	16.5
50°-60°	909.2	22.3
60°-70°	1129.5	27.7
70°-80°	452.3	11.1
80°-90°	79.5	1.9
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°	4080.1	100.0
0°-180°	4080.1	100.0



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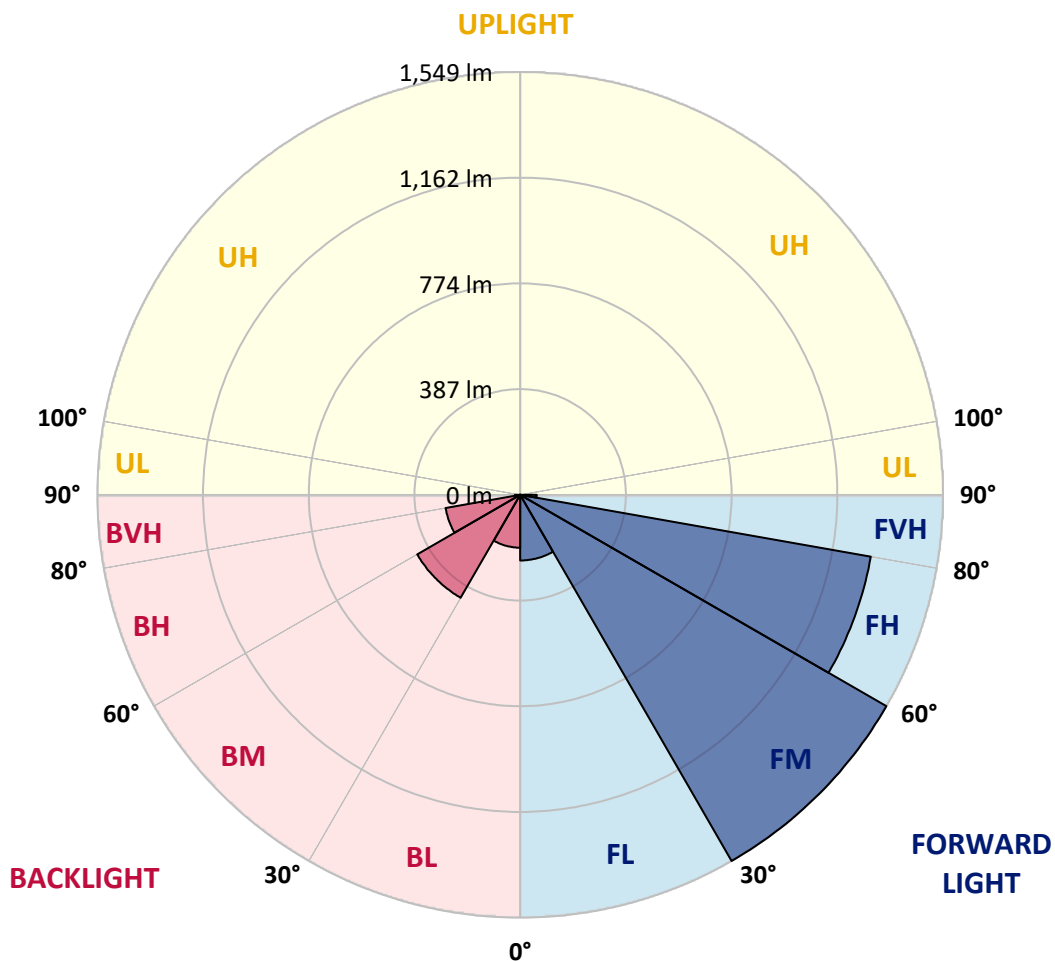
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.6	5.9			
FM	(30°-60°)	1548.8	38.0			
FH	(60°-80°)	1304.2	32.0			G1/1800
FVH	(80°-90°)	60.3	1.5			G1/100
BL	(0°-30°)	193.7	4.7	B1/500		
BM	(30°-60°)	435.6	10.7	B1/1000		
BH	(60°-80°)	277.6	6.8	B1/500		G1/500
BVH	(80°-90°)	19.2	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°	65°	70°	71°	72°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	446.7	446.5	447.9	449.0	449.0	449.5	449.3	447.6	447.9	448.4	447.9
5°	451.8	450.6	452.0	453.7	454.8	456.2	457.6	457.9	459.0	459.0	458.7
7.5°	462.6	461.8	463.7	464.3	466.8	469.0	471.8	473.8	474.9	475.5	476.3
10°	481.3	480.7	481.3	482.4	483.5	486.0	490.8	495.0	497.5	497.5	498.6
12.5°	503.9	501.6	502.2	500.0	500.5	505.8	511.4	518.4	522.6	523.1	523.7
15°	521.4	520.3	519.5	516.4	518.6	525.6	534.3	544.3	547.9	551.0	550.7
17.5°	537.9	536.5	534.5	530.4	532.6	543.7	556.8	568.0	574.1	574.7	575.2
20°	557.4	555.7	552.1	543.5	542.9	558.5	576.1	588.0	593.6	596.1	597.0
22.5°	582.2	580.0	573.3	556.6	552.1	570.5	591.4	606.2	612.0	614.5	615.9
25°	614.0	609.5	598.9	572.7	563.5	582.7	607.8	625.7	633.8	636.3	637.9
27.5°	642.7	639.3	626.5	595.6	579.7	599.2	627.9	650.8	661.9	665.0	667.5
30°	676.1	671.4	661.1	628.2	607.0	624.3	660.8	689.8	703.4	703.7	709.3
32.5°	754.7	751.6	742.2	705.9	670.3	671.4	705.4	745.2	758.9	761.1	766.1
35°	871.2	870.1	869.8	849.7	823.3	796.0	798.5	828.8	838.0	841.7	843.3
37.5°	947.8	957.6	981.3	995.8	989.1	994.9	964.3	927.2	921.9	918.0	919.7
40°	1013.9	1022.5	1070.5	1137.4	1178.0	1206.7	1179.7	1066.0	1023.6	1011.4	1006.6
42.5°	1052.9	1062.7	1131.2	1238.2	1341.9	1409.9	1417.2	1259.1	1151.6	1150.2	1132.3
45°	1074.1	1083.8	1165.8	1309.9	1456.5	1579.1	1642.6	1496.9	1338.8	1327.1	1302.3
47.5°	1069.9	1079.1	1164.4	1336.3	1524.2	1691.4	1818.5	1737.1	1554.8	1526.7	1492.4
50°	1018.9	1025.6	1115.1	1293.1	1506.1	1738.2	1938.9	1957.5	1799.2	1761.1	1709.8
52.5°	966.2	978.2	1052.3	1216.5	1423.8	1709.2	2010.8	2158.2	2027.5	2001.3	1935.5
55°	937.8	947.3	1007.8	1147.9	1337.2	1610.3	2040.6	2347.4	2304.8	2294.2	2247.7
57.5°	936.7	945.9	994.1	1106.4	1266.7	1507.2	2049.2	2639.8	2764.9	2767.7	2754.3
60°	982.4	991.9	1032.3	1126.5	1244.9	1418.8	2018.3	3054.5	3331.0	3355.5	3396.4
62.5°	988.8	993.3	1042.0	1169.1	1324.1	1352.8	1890.9	3399.8	3720.0	3742.6	3765.2
65°	884.6	884.3	927.5	1044.5	1307.6	1346.1	1699.5	3442.2	3704.4	3718.1	3746.2
67.5°	659.7	654.1	678.6	785.6	1037.6	1347.8	1472.6	3122.5	3415.7	3441.6	3451.1
70°	340.0	348.6	365.4	430.9	658.8	1085.0	1265.0	2634.5	2998.5	3008.2	3041.9
72.5°	139.6	136.0	147.4	181.2	329.7	717.1	1046.5	2079.1	2476.5	2469.8	2475.9
75°	77.8	78.9	82.2	94.5	160.2	360.1	899.1	1471.8	1684.1	1568.8	1533.9
77.5°	62.4	63.0	63.3	65.5	87.5	192.0	690.0	969.3	847.0	786.5	763.3
80°	45.7	48.8	52.1	52.7	60.2	109.0	378.5	816.0	714.9	664.7	623.4
82.5°	36.8	38.2	45.4	46.5	47.9	64.9	171.4	766.4	712.1	660.8	603.9
85°	22.0	24.5	37.1	37.3	37.9	39.6	94.8	312.1	388.2	343.1	314.1
87.5°	7.8	10.0	18.4	15.3	19.5	16.2	41.5	104.5	128.8	122.3	108.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	447.6	447.6	448.1	447.9	447.9	447.9	447.9	447.3	447.3	446.5	447.0
5°	458.7	458.5	458.7	459.0	458.7	459.3	459.0	458.7	459.0	458.7	459.0
7.5°	476.6	475.2	477.1	476.0	475.7	477.4	476.6	477.4	477.7	477.4	477.1
10°	499.1	500.0	500.0	500.0	499.4	501.1	501.4	501.9	502.2	503.3	503.3
12.5°	525.1	525.3	526.5	526.2	526.7	528.7	530.1	530.4	530.6	531.5	530.4
15°	552.9	553.5	553.5	556.0	555.2	557.9	558.8	558.8	559.1	562.4	562.7
17.5°	577.7	577.7	580.0	580.0	582.2	582.7	585.3	585.5	586.7	589.7	590.0
20°	598.6	599.7	601.1	602.8	603.7	605.3	607.0	608.7	610.1	612.6	612.8
22.5°	618.4	619.5	621.8	622.9	624.8	625.9	627.3	629.3	631.5	634.9	635.7
25°	641.3	642.4	644.9	646.6	648.8	650.5	653.0	655.5	656.9	660.2	662.7
27.5°	670.3	673.6	676.9	677.8	679.5	683.4	686.7	690.0	693.1	694.8	697.9
30°	712.6	712.6	719.6	719.6	722.7	726.3	728.5	732.1	737.7	739.4	743.3
32.5°	769.5	770.9	773.4	780.9	786.5	788.1	789.8	795.1	798.5	802.6	807.4
35°	850.6	852.0	853.4	860.6	867.0	868.7	870.4	873.7	879.3	886.5	884.3
37.5°	923.3	924.2	928.6	936.7	940.3	944.8	946.2	952.3	955.4	962.1	962.3
40°	1010.8	1008.9	1011.4	1020.6	1026.2	1025.9	1030.3	1041.5	1043.7	1046.8	1054.6
42.5°	1132.9	1125.6	1133.4	1136.5	1144.9	1150.2	1159.1	1166.6	1171.9	1183.6	1189.2
45°	1290.6	1283.1	1289.5	1290.9	1308.2	1313.5	1326.9	1336.9	1348.3	1361.7	1365.6
47.5°	1470.4	1456.5	1448.7	1457.3	1477.9	1486.6	1499.7	1509.1	1521.1	1528.1	1525.9
50°	1678.6	1645.1	1629.5	1625.1	1639.8	1652.1	1672.4	1676.9	1682.5	1682.2	1682.5
52.5°	1910.7	1875.9	1843.3	1820.7	1818.5	1834.9	1839.9	1841.1	1839.4	1826.8	1819.0
55°	2213.9	2211.4	2177.2	2130.3	2127.3	2125.3	2096.1	2092.4	2085.7	2066.5	2040.0
57.5°	2764.1	2792.0	2769.4	2768.3	2743.7	2727.6	2673.8	2647.0	2618.9	2566.8	2525.2
60°	3400.1	3440.5	3462.8	3472.5	3520.5	3520.5	3476.4	3438.5	3392.8	3313.4	3235.9
62.5°	3783.0	3818.4	3851.3	3902.8	3963.9	3990.9	3993.1	3959.4	3901.7	3811.1	3701.6
65°	3758.7	3784.9	3824.8	3885.6	3936.0	3984.5	4017.1	4006.8	3962.8	3872.2	3752.9
67.5°	3484.2	3522.4	3574.0	3630.0	3676.8	3722.5	3775.2	3779.1	3767.4	3681.3	3573.4
70°	3060.6	3109.7	3142.3	3212.8	3234.0	3280.2	3333.2	3358.5	3339.6	3273.3	3210.0
72.5°	2486.5	2525.2	2530.8	2500.2	2510.8	2522.2	2535.0	2475.6	2452.8	2364.2	2323.5
75°	1507.7	1456.7	1413.8	1371.2	1243.8	1198.7	1129.3	992.4	976.8	882.9	817.7
77.5°	717.1	695.6	656.9	591.9	505.6	422.8	350.9	285.1	260.6	214.6	182.8
80°	600.3	574.7	539.8	491.6	431.1	370.9	314.1	265.3	216.3	176.1	140.7
82.5°	550.7	506.1	457.1	415.5	372.9	331.9	293.7	249.7	223.8	180.6	147.4
85°	278.4	243.9	197.6	166.4	140.5	114.3	98.9	84.4	75.2	59.9	52.1
87.5°	93.4	76.4	56.9	48.2	43.5	37.3	34.3	32.6	31.8	28.1	25.1
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	447.0	447.0	447.0	447.0	446.7	446.7	446.7	446.7	446.7	446.7	447.0
5°	458.5	458.5	458.7	459.6	457.9	458.5	459.0	458.2	459.0	458.2	459.3
7.5°	476.8	477.7	477.1	478.2	477.7	479.4	478.2	477.4	478.0	478.0	478.2
10°	502.8	503.9	503.0	503.6	503.6	504.7	503.3	503.6	503.9	503.3	503.6
12.5°	531.5	532.0	531.7	533.4	532.6	533.4	532.6	533.7	534.3	534.8	534.8
15°	562.7	563.2	564.9	564.6	566.3	565.7	566.0	564.6	567.4	565.7	566.3
17.5°	591.4	591.1	593.3	594.2	594.5	594.7	595.6	594.5	594.7	595.6	595.0
20°	613.7	615.6	616.2	618.4	620.1	620.7	620.4	621.2	622.3	621.2	621.2
22.5°	637.4	640.2	641.0	642.4	644.1	644.3	646.0	646.8	647.4	647.1	647.4
25°	665.8	667.8	669.7	672.5	674.4	674.7	676.1	677.2	677.5	677.2	678.9
27.5°	700.6	703.1	705.7	709.0	711.2	711.8	714.9	714.9	716.5	717.4	717.9
30°	745.5	746.3	752.8	756.1	755.3	759.2	763.3	763.1	765.0	765.6	767.0
32.5°	810.7	810.7	816.3	820.5	824.9	823.5	830.0	828.8	831.9	833.6	832.7
35°	889.9	892.7	896.8	899.3	904.1	906.6	911.1	913.6	915.0	914.7	911.6
37.5°	971.5	976.0	977.7	983.8	988.5	992.7	993.3	990.5	991.6	986.0	984.3
40°	1064.9	1071.3	1075.2	1084.4	1083.8	1089.1	1089.7	1081.6	1080.2	1073.0	1065.4
42.5°	1195.3	1204.2	1207.3	1214.3	1208.7	1211.2	1197.3	1193.9	1182.8	1171.1	1154.1
45°	1371.2	1366.7	1368.7	1366.7	1351.9	1341.1	1329.7	1313.2	1296.8	1274.2	1249.9
47.5°	1525.9	1528.1	1513.6	1504.4	1480.4	1465.1	1444.2	1415.5	1395.4	1365.0	1333.0
50°	1676.1	1651.3	1630.9	1609.7	1588.6	1560.4	1528.9	1503.6	1474.3	1436.4	1397.1
52.5°	1798.1	1766.1	1741.6	1711.5	1682.8	1651.5	1618.7	1581.9	1543.4	1505.5	1457.0
55°	2014.4	1967.9	1936.4	1883.7	1851.1	1807.3	1781.7	1734.0	1680.5	1630.4	1578.8
57.5°	2478.4	2408.8	2372.8	2343.0	2292.3	2220.4	2174.7	2096.3	2020.0	1966.5	1880.6
60°	3177.4	3106.6	3047.0	2976.5	2898.7	2801.2	2757.7	2665.4	2556.2	2467.8	2354.4
62.5°	3613.0	3515.2	3418.5	3319.5	3241.5	3165.1	3075.1	2982.0	2873.9	2753.8	2629.8
65°	3630.5	3513.2	3397.6	3296.7	3205.3	3106.0	3021.6	2927.1	2813.4	2689.7	2560.9
67.5°	3448.3	3317.0	3193.0	3082.4	2977.8	2885.9	2797.5	2708.6	2586.8	2483.2	2351.3
70°	3085.1	2965.3	2853.0	2727.0	2647.0	2543.6	2457.5	2363.9	2276.7	2179.7	2056.2
72.5°	2266.1	2175.8	2047.6	1994.1	1951.1	1841.6	1777.5	1769.7	1714.0	1597.8	1505.5
75°	842.8	717.4	679.5	702.0	664.4	676.9	672.2	645.5	646.6	626.8	603.4
77.5°	165.0	153.3	144.1	146.6	136.3	131.8	141.3	138.5	133.5	134.9	132.7
80°	112.3	95.0	86.1	82.8	78.6	76.6	76.1	75.2	73.6	72.7	70.2
82.5°	110.6	82.2	64.9	55.7	52.4	50.7	49.3	49.1	48.5	48.2	49.1
85°	44.0	35.7	32.6	29.8	29.0	28.1	28.1	27.9	27.6	28.1	29.3
87.5°	21.5	18.1	16.4	15.0	14.5	14.2	14.2	14.5	14.8	15.9	18.1
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	446.5	446.7	446.2	446.5	446.2	445.6	445.4	446.2	445.9	445.6	445.6
5°	457.9	459.0	458.5	457.9	457.9	457.6	457.6	457.6	457.3	457.6	456.8
7.5°	477.7	477.4	477.4	476.8	476.3	476.8	476.6	475.7	476.0	475.5	474.6
10°	503.0	502.2	503.6	503.6	502.5	502.2	501.6	500.8	500.8	500.0	500.0
12.5°	533.1	532.3	534.3	532.9	531.2	530.9	529.2	528.7	529.5	529.2	528.7
15°	563.8	564.1	564.9	564.6	562.7	562.7	560.5	560.7	559.1	558.5	557.1
17.5°	593.6	593.9	593.1	593.1	591.7	590.8	588.3	588.6	587.5	585.3	583.6
20°	620.4	620.1	618.1	619.8	617.0	616.5	614.2	612.0	612.6	610.3	607.0
22.5°	646.6	646.0	645.5	644.6	643.2	642.7	640.2	639.9	637.1	633.8	631.0
25°	676.9	676.7	675.8	676.1	673.3	673.6	669.1	668.0	666.4	662.7	660.5
27.5°	716.2	716.2	714.0	713.2	712.3	711.2	707.3	704.5	700.4	696.2	691.7
30°	764.5	763.9	763.3	761.1	758.0	756.4	749.4	744.9	739.4	731.6	724.9
32.5°	833.3	828.6	824.7	819.6	814.6	809.3	798.5	790.9	782.0	769.5	758.9
35°	909.9	901.9	897.7	887.4	877.9	867.3	854.2	838.9	826.6	810.2	792.9
37.5°	973.2	967.1	955.9	944.2	930.8	910.8	896.0	879.6	858.1	840.0	819.1
40°	1051.2	1037.3	1021.4	1001.9	983.5	960.9	940.6	916.9	890.7	864.5	837.2
42.5°	1133.2	1111.7	1085.5	1062.9	1035.1	1005.5	979.1	947.0	913.6	878.4	841.9
45°	1216.8	1190.3	1155.5	1123.4	1084.7	1047.6	1009.7	966.0	920.2	873.4	827.4
47.5°	1293.4	1254.7	1215.1	1171.9	1127.3	1079.7	1025.9	968.5	908.3	846.7	789.3
50°	1353.6	1305.1	1255.2	1205.4	1150.7	1088.9	1021.1	946.2	872.0	798.2	732.1
52.5°	1406.8	1352.5	1291.2	1229.3	1161.9	1085.8	1001.1	912.7	822.4	740.8	666.6
55°	1510.0	1441.7	1360.9	1281.2	1195.9	1100.0	994.4	886.2	782.3	693.4	614.5
57.5°	1790.1	1697.8	1572.7	1462.0	1353.9	1214.3	1065.4	932.2	799.9	694.8	607.0
60°	2231.2	2081.0	1937.8	1769.2	1594.1	1402.7	1203.1	1023.6	862.3	730.5	624.8
62.5°	2487.1	2328.5	2144.3	1940.0	1713.1	1479.9	1250.8	1041.2	864.2	720.7	603.7
65°	2418.0	2258.5	2055.9	1846.9	1605.6	1367.0	1139.6	938.4	766.7	634.0	522.0
67.5°	2212.8	2046.2	1855.8	1624.0	1393.2	1172.2	964.8	775.3	623.4	499.7	400.8
70°	1914.4	1766.1	1582.7	1368.9	1145.2	946.4	771.7	600.9	472.4	359.0	280.9
72.5°	1420.8	1289.5	1175.0	996.3	832.5	676.7	534.3	418.0	307.4	232.4	178.9
75°	596.4	552.1	533.4	467.9	406.9	333.6	251.1	200.1	162.2	138.0	109.5
77.5°	144.6	144.6	136.0	127.4	117.1	105.9	93.6	83.6	78.6	74.1	70.5
80°	70.2	69.7	67.4	67.2	65.2	62.7	61.3	59.4	58.5	57.4	56.9
82.5°	49.3	49.1	48.2	49.3	49.1	50.2	50.7	51.0	51.0	51.3	51.6
85°	31.2	32.3	34.6	37.3	39.9	42.9	45.7	47.9	49.6	51.0	52.1
87.5°	19.8	22.6	24.2	28.4	32.6	37.3	42.6	44.9	46.8	47.1	45.4
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4	443.4
2.5°	445.6	445.4	445.9	445.4	445.4	445.1	444.2	443.4	442.6	442.3	441.5
5°	456.5	456.5	457.1	455.9	456.2	455.1	452.6	449.8	447.3	445.1	442.6
7.5°	474.9	474.1	474.3	474.1	473.5	471.3	465.7	458.7	452.0	445.1	439.5
10°	499.4	497.7	497.7	497.2	496.4	493.3	481.6	467.6	453.7	441.2	432.0
12.5°	526.7	527.0	524.8	523.4	522.0	515.6	498.0	475.7	453.7	433.6	418.9
15°	555.2	554.9	552.4	551.5	548.5	539.0	512.5	479.9	448.4	418.9	396.9
17.5°	580.8	579.7	577.2	575.5	572.2	559.6	522.3	478.0	434.5	395.7	368.2
20°	604.2	602.8	600.6	597.5	594.2	576.1	525.9	467.9	412.5	368.2	340.3
22.5°	628.5	625.4	622.9	618.7	615.1	590.8	523.4	450.1	387.4	337.5	307.7
25°	655.5	651.9	646.6	641.6	636.0	602.8	516.4	427.8	357.3	304.3	274.2
27.5°	684.8	679.5	672.5	666.1	657.2	611.7	504.4	403.0	324.4	271.4	240.2
30°	715.7	705.9	697.3	687.5	676.1	615.9	487.2	372.3	288.2	238.0	206.8
32.5°	745.8	732.7	719.9	705.7	690.0	614.2	462.6	336.1	251.9	206.8	180.6
35°	776.4	757.5	739.7	720.4	701.5	605.9	428.9	296.0	217.7	180.9	161.9
37.5°	797.3	773.7	750.0	726.8	704.0	587.8	384.0	251.1	186.7	162.2	148.5
40°	807.9	779.0	750.0	721.3	693.1	557.7	331.6	210.1	164.7	148.3	138.5
42.5°	804.9	768.9	733.0	699.0	664.4	509.7	274.8	176.4	149.4	137.4	128.8
45°	779.5	736.6	695.6	659.7	616.5	448.1	225.7	155.5	137.7	128.5	120.4
47.5°	731.9	683.9	633.8	593.1	552.7	376.8	187.8	142.4	127.4	119.8	111.8
50°	671.1	615.6	565.5	521.4	481.9	310.2	161.9	131.3	119.0	112.6	104.0
52.5°	604.2	544.6	498.9	452.6	413.9	258.9	143.8	119.0	110.9	104.2	97.3
55°	548.7	493.6	447.0	400.5	361.5	226.6	128.8	109.5	103.4	96.4	90.9
57.5°	534.0	471.0	420.3	376.2	336.1	206.8	117.9	100.9	96.7	91.4	85.3
60°	540.1	470.7	413.9	365.6	323.6	190.9	109.8	95.0	91.7	87.0	80.5
62.5°	518.1	444.8	387.4	336.1	296.3	170.8	104.0	92.2	90.0	83.6	76.4
65°	441.5	374.3	319.1	274.8	240.5	143.8	99.2	94.8	92.5	81.4	73.6
67.5°	336.1	280.1	235.8	202.6	177.8	119.0	98.1	103.1	98.7	82.5	72.7
70°	232.4	190.1	161.6	141.6	126.0	100.3	101.7	112.3	105.9	86.1	77.5
72.5°	147.4	123.2	109.2	101.7	94.2	84.7	100.9	111.2	102.6	86.7	77.5
75°	94.5	84.4	79.7	76.9	74.7	73.9	88.9	91.4	82.5	75.2	72.2
77.5°	66.9	65.2	64.4	64.1	64.4	66.3	73.6	68.8	59.9	60.2	61.9
80°	56.6	56.6	56.0	56.3	56.9	57.7	58.8	50.7	46.0	49.6	55.2
82.5°	51.8	52.7	53.2	53.8	54.6	53.5	49.9	38.5	37.1	48.2	54.1
85°	52.7	52.7	53.0	53.5	53.8	48.2	41.5	29.0	28.4	54.1	51.0
87.5°	45.1	44.6	42.6	41.2	39.3	33.2	27.6	16.2	16.7	33.4	35.7
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):

	175°	180°
0°	443.4	443.4
2.5°	441.2	441.2
5°	441.2	441.2
7.5°	437.5	436.4
10°	427.0	425.6
12.5°	410.8	409.4
15°	386.0	384.3
17.5°	355.1	352.3
20°	322.7	318.8
22.5°	290.4	287.3
25°	257.2	254.4
27.5°	224.6	221.8
30°	194.5	193.4
32.5°	172.2	171.1
35°	155.8	155.2
37.5°	144.6	144.1
40°	134.9	134.3
42.5°	126.0	125.1
45°	117.1	117.3
47.5°	108.1	107.9
50°	100.3	100.3
52.5°	93.9	93.6
55°	88.1	87.8
57.5°	82.2	81.9
60°	77.2	76.4
62.5°	72.5	71.9
65°	69.4	69.1
67.5°	67.2	66.3
70°	66.6	64.4
72.5°	64.9	62.1
75°	61.0	59.6
77.5°	53.8	52.1
80°	41.5	38.5
82.5°	34.8	30.1
85°	25.6	23.7
87.5°	18.7	14.8
90°	0.0	0.0

(END OF REPORT)