

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: P163305

Luminaire Tested: **LDRC-SL2-E03-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163305
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-SL2-E03-E-8030-HSS
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4503.2 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

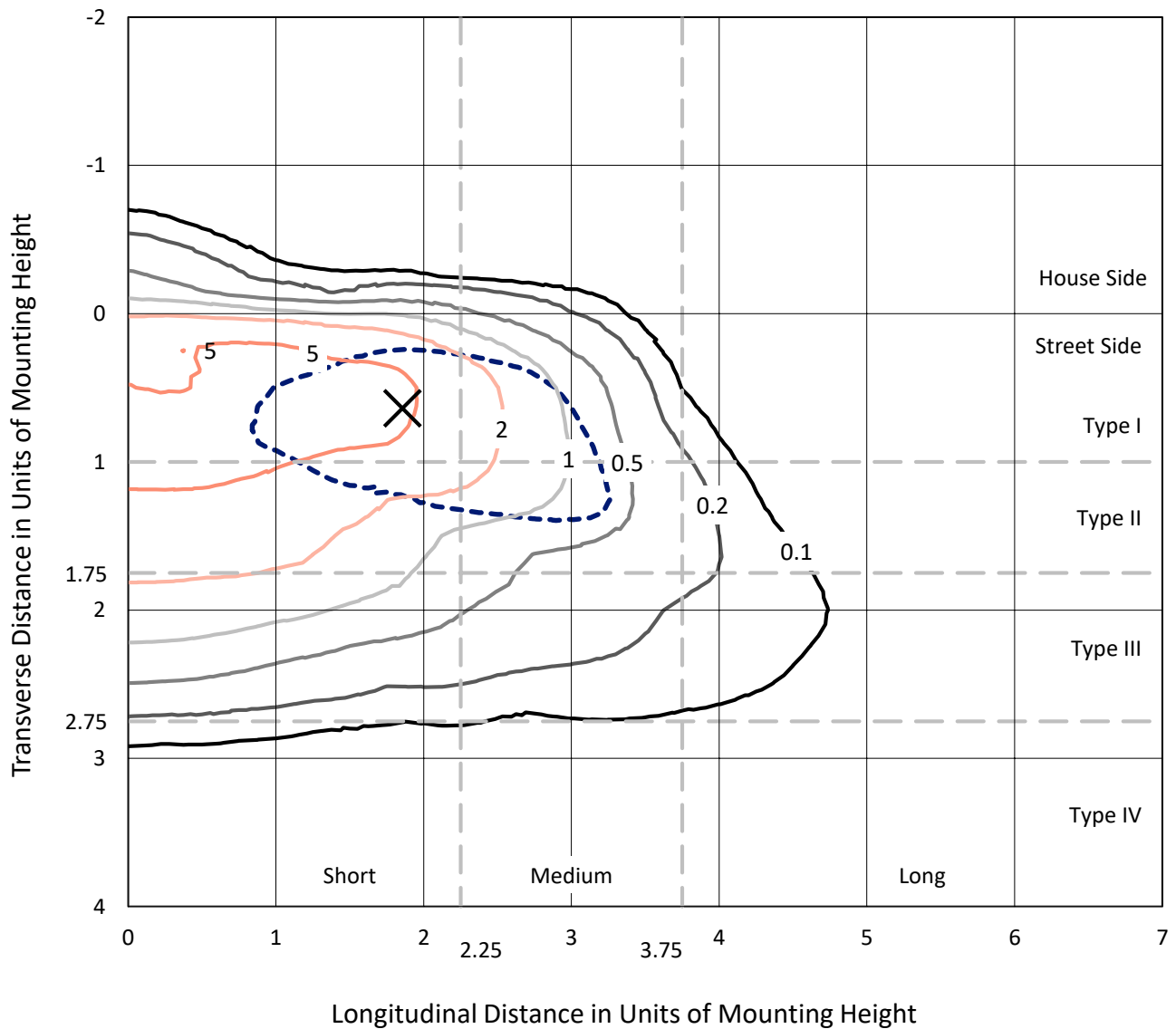
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

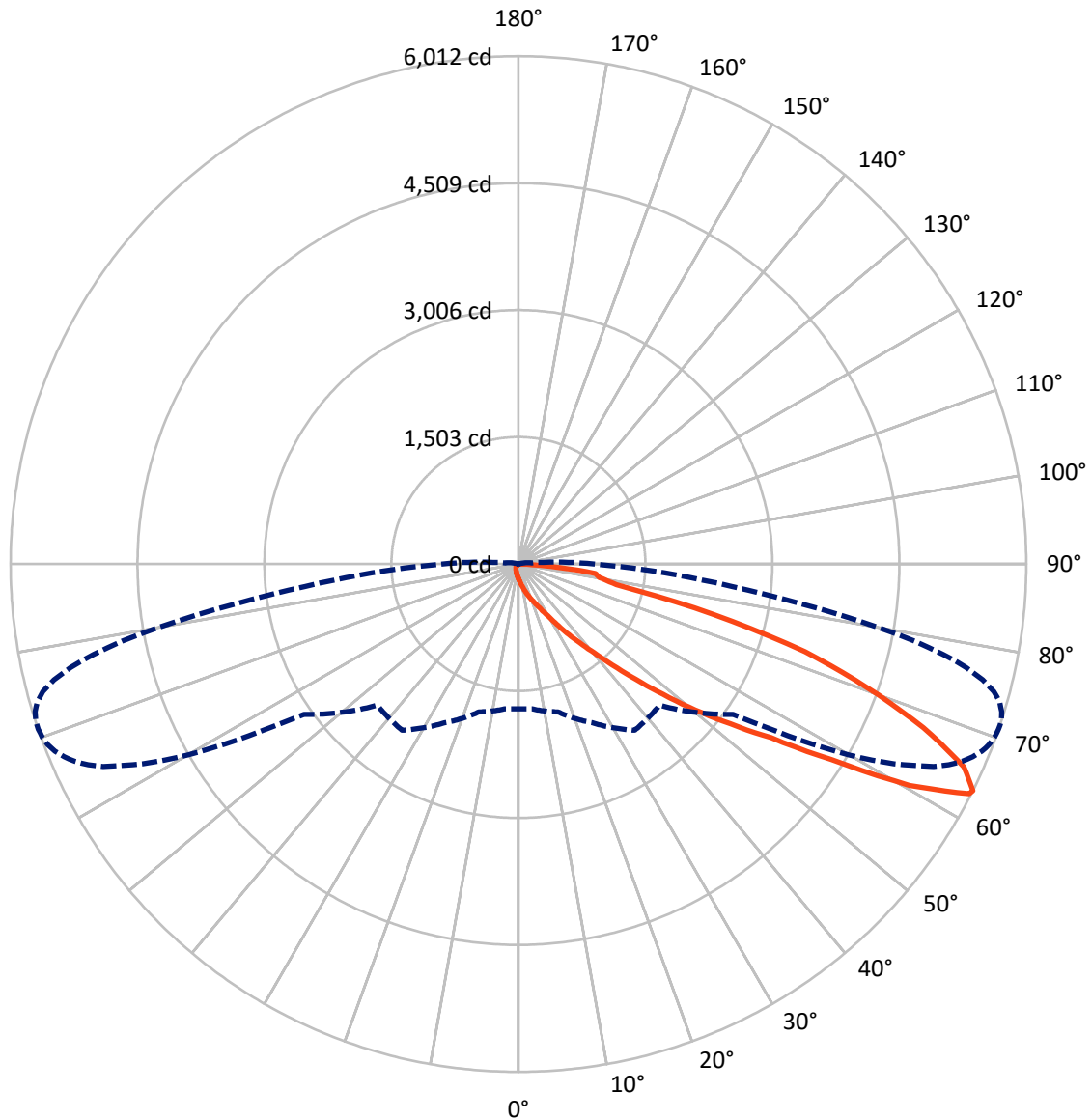
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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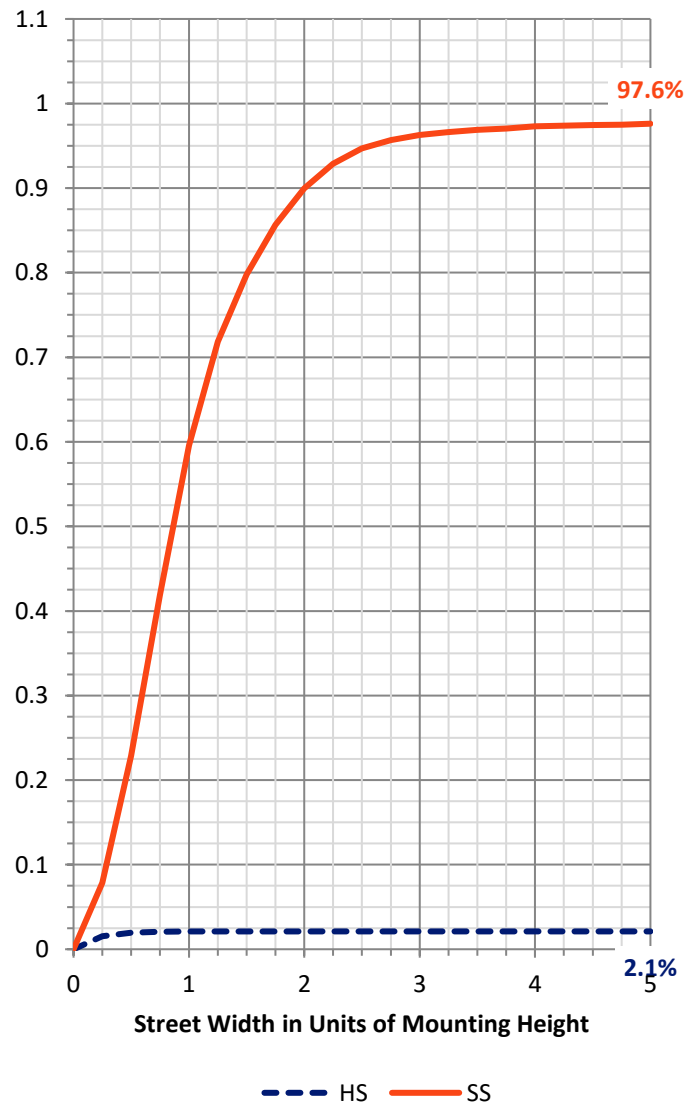
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.6	0.0	95.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4407.6	0.0	4407.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	4503.2	0.0	4503.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.4
10°-20°	74.0	1.6
20°-30°	150.4	3.3
30°-40°	367.4	8.2
40°-50°	821.8	18.2
50°-60°	1155.5	25.7
60°-70°	1358.8	30.2
70°-80°	490.6	10.9
80°-90°	65.6	1.5
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°	4503.2	100.0
0°-180°	4503.2	100.0



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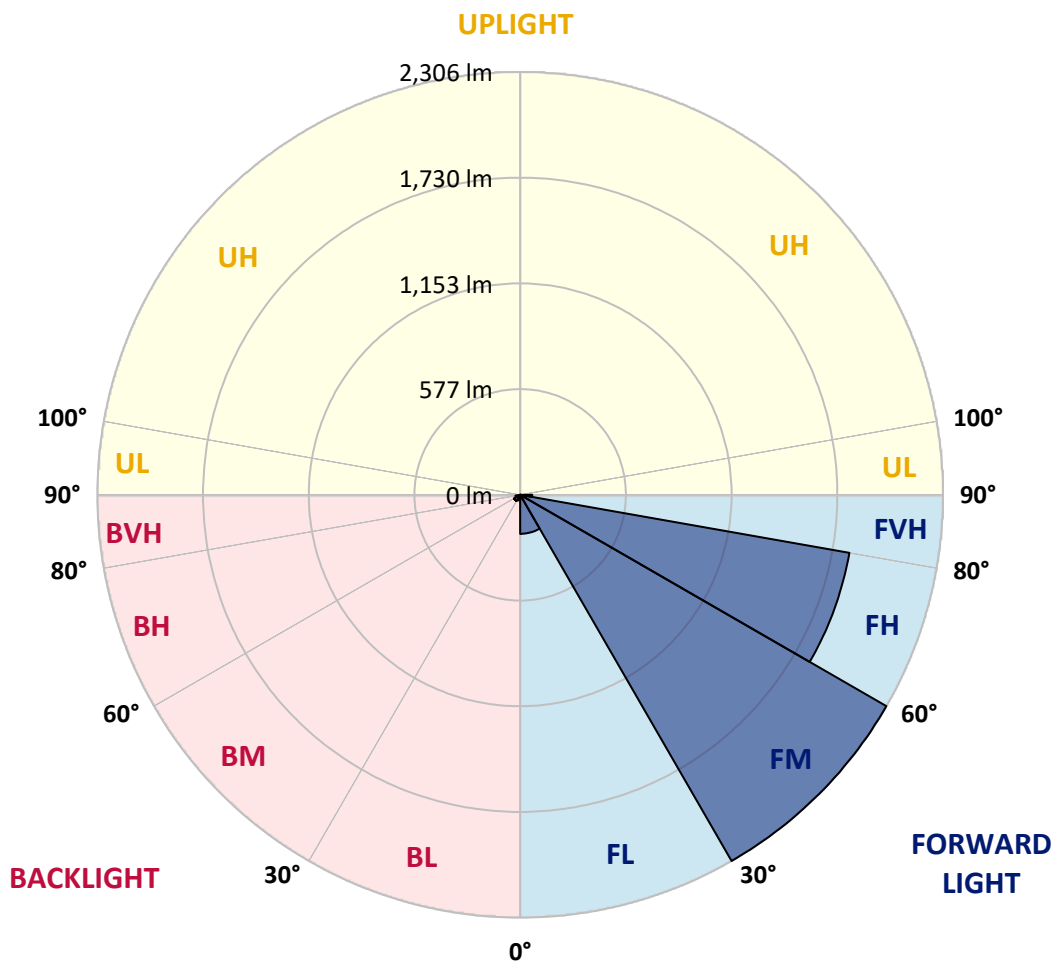
CATALOG NUMBER: LDRC-SL2-E03-E-8030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.8	4.7			
FM (30°-60°)	2306.2	51.2			
FH (60°-80°)	1823.2	40.5			G2/5000
FVH (80°-90°)	65.5	1.5			G1/100
BL (0°-30°)	30.7	0.7	B0/110		
BM (30°-60°)	38.5	0.9	B0/220		
BH (60°-80°)	26.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	226.0	228.4	226.8	222.7	217.7	211.2	205.5	205.5	204.7	202.2	203.0
5°	296.3	297.2	293.9	284.1	275.1	261.1	245.6	244.0	242.3	239.9	239.1
7.5°	365.1	368.4	365.1	354.5	336.4	315.2	290.6	288.2	283.3	283.3	280.0
10°	435.5	435.5	432.3	420.0	403.6	373.3	342.2	338.1	332.4	330.7	325.8
12.5°	485.5	485.5	483.8	477.3	464.2	437.2	399.5	395.4	388.1	385.6	379.8
15°	505.1	505.1	505.9	511.7	512.5	500.2	460.9	457.6	450.3	443.7	441.3
17.5°	517.4	516.6	516.6	524.8	539.5	547.7	522.3	519.1	510.9	507.6	499.4
20°	544.4	542.8	537.8	537.8	551.8	580.4	580.4	579.6	570.6	568.2	564.1
22.5°	584.5	582.9	568.2	555.9	562.4	598.5	632.0	630.4	627.1	623.8	621.3
25°	650.0	644.3	618.9	582.9	577.1	615.6	671.3	675.4	677.9	677.9	679.5
27.5°	749.1	741.7	696.7	629.5	604.2	643.5	714.7	722.9	730.3	731.9	739.2
30°	886.6	873.5	808.9	710.6	652.5	684.4	778.5	787.5	798.2	801.5	812.9
32.5°	1112.5	1105.2	1043.0	895.6	771.2	764.7	867.8	879.3	893.2	898.9	912.8
35°	1456.4	1458.1	1407.3	1274.6	1102.7	1012.7	1027.4	1037.2	1042.2	1059.3	1066.7
37.5°	1689.7	1693.8	1705.3	1652.9	1530.1	1438.4	1323.0	1333.6	1308.2	1310.7	1311.5
40°	1817.5	1830.5	1897.7	1948.4	1938.6	1885.4	1792.9	1798.6	1751.1	1740.5	1688.9
42.5°	1902.6	1919.7	2027.0	2184.2	2264.4	2312.7	2291.4	2289.0	2252.1	2238.2	2194.8
45°	1955.8	1971.3	2106.4	2338.1	2523.1	2663.9	2722.1	2728.6	2697.5	2683.6	2647.5
47.5°	1953.3	1971.3	2116.2	2395.4	2668.0	2893.1	3056.9	3065.1	3083.9	3071.6	3074.1
50°	1845.3	1862.5	2008.2	2298.0	2625.5	2998.0	3297.6	3323.8	3354.1	3374.5	3384.3
52.5°	1714.3	1726.6	1855.9	2131.0	2443.7	2954.6	3440.0	3485.1	3530.1	3568.6	3595.6
55°	1666.0	1679.9	1781.4	2009.8	2298.0	2772.8	3506.3	3572.7	3636.5	3699.5	3751.1
57.5°	1691.4	1704.5	1777.3	1952.5	2211.2	2581.2	3525.2	3628.3	3733.1	3835.4	3937.0
60°	1784.7	1798.6	1860.8	2005.7	2188.3	2470.7	3451.5	3622.6	3796.9	3975.5	4143.3
62.5°	1747.8	1753.6	1845.3	2099.1	2352.0	2376.6	3183.8	3422.8	3688.9	3964.0	4234.9
63°	1712.6	1719.2	1812.5	2073.7	2402.0	2362.7	3101.1	3353.2	3634.0	3930.4	4225.1
65°	1553.0	1553.8	1625.1	1831.3	2346.3	2387.2	2732.7	2973.4	3295.9	3651.3	4023.7
67.5°	1159.2	1153.5	1222.3	1379.5	1842.0	2388.1	2345.5	2480.5	2704.9	3020.0	3354.1
70°	411.0	402.0	513.3	731.1	1147.7	1953.3	2015.6	2024.6	2086.8	2257.1	2466.6
72.5°	133.4	135.9	163.7	267.7	528.9	1314.8	1824.8	1796.9	1780.6	1779.8	1807.6
75°	53.2	54.0	65.5	118.7	237.4	633.7	1598.0	1613.6	1619.3	1627.5	1636.5
77.5°	25.4	27.9	36.8	66.3	117.9	313.6	1143.7	1275.5	1350.8	1408.9	1444.1
80°	9.0	10.6	20.5	40.9	54.8	144.1	602.6	727.0	837.5	979.9	1102.7
82.5°	0.0	0.0	4.1	28.7	30.3	58.1	247.2	289.8	331.5	429.8	551.8
85°	0.0	0.0	0.0	8.2	9.0	9.8	83.5	100.7	113.0	131.8	152.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.9	12.3	18.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	201.4	200.6	200.6	198.9	198.1	196.5	195.7	193.2	192.4	192.4	192.4
5°	238.2	235.0	233.3	229.2	226.8	226.0	221.9	220.2	217.7	218.6	214.5
7.5°	279.2	273.5	271.0	265.2	263.6	257.9	256.2	252.1	249.7	244.8	243.1
10°	324.2	316.8	312.7	303.7	301.3	297.2	292.2	287.3	283.3	278.4	275.9
12.5°	375.7	369.2	365.9	353.7	347.9	342.2	335.6	329.1	322.6	318.5	312.7
15°	436.4	425.7	422.4	411.0	401.2	393.8	384.8	376.6	371.7	363.5	357.8
17.5°	496.1	485.5	483.0	465.8	455.2	450.3	440.5	429.8	420.8	412.6	403.6
20°	555.9	548.5	541.9	525.6	514.1	505.9	492.8	482.2	474.8	463.4	451.9
22.5°	615.6	608.3	603.4	586.2	575.5	564.1	552.6	541.1	530.5	516.6	503.5
25°	677.0	672.1	669.7	654.1	644.3	633.7	622.2	609.1	596.0	580.4	566.5
27.5°	740.9	742.5	737.6	734.3	723.7	716.3	698.3	689.3	679.5	660.6	643.5
30°	821.9	826.8	825.2	827.7	821.1	816.2	802.3	790.8	779.4	761.4	741.7
32.5°	924.3	930.8	934.1	943.1	939.8	938.2	934.1	917.7	909.5	878.4	870.2
35°	1082.3	1079.0	1092.9	1100.3	1097.0	1095.4	1090.5	1081.5	1071.6	1049.5	1029.0
37.5°	1287.8	1291.1	1296.0	1281.2	1271.4	1270.5	1255.8	1246.8	1232.9	1208.4	1183.8
40°	1664.3	1643.9	1621.0	1558.7	1531.7	1516.1	1472.8	1460.5	1436.7	1403.2	1377.8
42.5°	2153.9	2133.4	2064.7	1960.7	1905.0	1828.1	1792.9	1749.5	1715.9	1661.1	1631.6
45°	2640.2	2581.2	2573.0	2451.9	2383.1	2281.6	2218.6	2145.7	2069.6	1997.5	1945.2
47.5°	3050.3	3037.3	2997.1	2923.5	2859.6	2774.4	2693.4	2581.2	2502.7	2400.3	2306.2
50°	3378.6	3377.8	3363.1	3320.5	3267.3	3198.5	3127.3	3032.3	2943.1	2817.8	2717.2
52.5°	3624.2	3637.3	3642.2	3629.1	3608.7	3548.1	3512.0	3432.6	3357.3	3250.9	3142.0
55°	3804.3	3852.6	3877.2	3905.0	3899.3	3878.0	3876.3	3824.8	3790.4	3706.1	3629.1
57.5°	4027.0	4106.4	4182.6	4317.6	4322.5	4370.0	4394.6	4419.2	4425.7	4392.1	4366.7
60°	4310.3	4472.4	4616.4	4898.9	4972.5	5088.8	5164.1	5246.0	5315.6	5321.3	5319.7
62.5°	4510.0	4759.7	4992.2	5411.4	5554.6	5688.9	5789.6	5869.0	5917.3	5966.4	5989.3
63°	4515.7	4789.2	5036.4	5468.7	5619.3	5747.0	5842.8	5916.5	5967.3	5996.7	6011.5
65°	4377.4	4709.0	5003.7	5434.3	5575.9	5704.4	5754.4	5802.7	5827.2	5838.7	5795.3
67.5°	3710.2	4034.4	4378.2	4859.6	4980.7	5134.6	5175.6	5200.2	5211.6	5209.1	5172.3
70°	2774.4	3046.3	3428.5	3978.7	4139.2	4289.8	4383.1	4423.3	4436.3	4432.2	4377.4
72.5°	1937.0	2096.6	2411.8	3024.1	3242.7	3435.9	3551.3	3611.1	3623.4	3598.8	3548.1
75°	1626.7	1634.9	1706.1	2040.9	2245.6	2451.9	2582.1	2619.7	2595.2	2520.7	2391.3
77.5°	1452.3	1470.3	1470.3	1520.2	1560.4	1617.7	1630.0	1538.3	1431.8	1294.3	1183.0
80°	1218.2	1281.2	1325.4	1362.3	1366.4	1354.9	1324.6	1273.0	1191.1	1086.4	970.1
82.5°	740.1	864.5	915.3	1105.2	1198.5	1261.6	1256.7	1187.9	1125.7	1016.8	917.7
85°	186.7	201.4	218.6	284.1	318.5	388.9	433.1	453.5	460.9	423.2	383.1
87.5°	18.0	12.3	20.5	15.5	22.1	16.4	22.1	20.5	25.4	27.0	29.5
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	190.8	189.9	189.1	188.3	187.5	186.7	185.0	185.0	183.4	182.6	181.7
5°	212.0	210.4	209.6	207.9	205.5	203.8	201.4	198.1	195.7	194.9	193.2
7.5°	239.1	235.0	233.3	230.9	227.6	222.7	219.4	216.9	212.8	210.4	205.5
10°	269.4	265.2	260.3	255.4	250.5	244.8	240.7	237.4	230.9	227.6	221.9
12.5°	307.8	300.4	294.7	288.2	281.6	275.1	270.2	260.3	254.6	247.2	242.3
15°	347.1	340.6	334.0	325.8	316.0	305.4	300.4	291.4	284.1	272.6	266.1
17.5°	394.6	382.3	372.5	362.7	353.7	343.8	334.0	320.1	309.5	299.6	286.5
20°	441.3	426.5	415.9	402.8	389.7	374.1	362.7	352.9	338.1	325.0	311.1
22.5°	491.2	476.5	459.2	446.2	428.2	415.9	400.3	383.9	369.2	352.0	334.8
25°	551.8	536.2	516.6	499.4	478.9	461.7	442.9	424.1	406.1	386.4	364.3
27.5°	626.3	609.9	588.6	568.2	541.1	519.9	501.8	476.5	453.5	429.0	403.6
30°	720.4	702.4	676.2	646.8	619.7	596.0	570.6	537.0	511.7	482.2	449.4
32.5°	843.2	821.9	786.7	758.9	725.4	694.2	659.0	625.4	589.4	551.0	513.3
35°	998.0	978.3	937.4	896.4	859.6	822.7	778.5	740.1	689.3	642.7	594.4
37.5°	1158.4	1123.2	1085.6	1041.3	995.5	951.3	897.2	844.1	785.9	735.2	674.6
40°	1341.8	1299.2	1268.1	1220.6	1155.9	1092.9	1043.0	976.7	903.8	835.9	764.7
42.5°	1593.1	1545.6	1490.0	1417.9	1371.3	1297.6	1232.9	1154.3	1058.5	982.4	896.4
45°	1883.7	1819.1	1765.0	1695.5	1638.9	1547.3	1471.9	1367.2	1271.4	1171.5	1066.7
47.5°	2215.3	2135.1	2056.5	1987.7	1897.7	1807.6	1711.8	1600.5	1477.7	1368.0	1243.6
50°	2596.0	2482.2	2373.3	2284.9	2161.3	2057.3	1953.3	1828.1	1692.2	1566.1	1424.5
52.5°	3019.2	2887.4	2743.3	2607.4	2464.2	2330.7	2205.5	2061.4	1909.9	1756.0	1598.0
55°	3530.1	3431.0	3261.5	3088.8	2897.2	2718.8	2557.5	2379.0	2194.8	1992.6	1826.4
57.5°	4329.9	4281.6	4140.0	3967.2	3717.5	3500.6	3227.2	3008.6	2741.7	2463.4	2248.8
60°	5413.8	5354.1	5274.7	5134.6	4936.5	4641.8	4340.6	4000.8	3594.7	3209.2	2843.2
62.5°	5991.8	5970.5	5905.8	5809.2	5624.2	5391.7	5088.0	4714.7	4256.2	3787.9	3321.3
63°	6009.0	5982.0	5926.3	5828.0	5665.1	5440.0	5142.0	4779.4	4330.7	3853.5	3377.0
65°	5776.5	5765.9	5709.3	5602.1	5490.8	5318.9	5088.0	4776.1	4399.5	3948.4	3474.4
67.5°	5123.2	5091.2	5004.5	4971.7	4893.9	4774.4	4598.4	4384.0	4114.6	3760.1	3350.8
70°	4333.2	4285.7	4176.8	4118.7	4023.7	3948.4	3841.2	3688.1	3521.9	3274.7	2969.3
72.5°	3495.7	3397.5	3297.6	3146.1	3013.5	2879.3	2760.5	2652.4	2469.9	2370.0	2138.4
75°	2270.2	2091.7	1920.6	1691.4	1485.1	1302.5	1124.9	1034.8	847.3	771.2	662.3
77.5°	1077.4	977.5	843.2	739.2	606.6	495.3	404.4	303.7	238.2	186.7	142.4
80°	869.4	785.1	704.0	609.9	510.0	406.9	311.9	233.3	165.4	114.6	81.0
82.5°	775.3	683.6	583.7	519.1	451.1	369.2	302.9	247.2	182.6	133.4	90.8
85°	301.3	253.8	195.7	159.6	124.4	102.3	92.5	63.9	49.9	39.3	30.3
87.5°	26.2	21.3	17.2	11.4	12.3	6.5	7.3	4.9	4.1	4.1	3.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	180.9	180.1	179.3	177.6	177.6	176.0	175.2	174.4	170.3	161.3	153.9
5°	189.9	188.3	186.7	184.2	182.6	180.1	178.5	176.0	167.0	149.8	135.1
7.5°	203.0	199.8	197.3	192.4	189.9	186.7	184.2	180.1	165.4	139.2	118.7
10°	218.6	212.8	208.7	203.0	198.1	194.0	189.9	184.2	163.7	127.7	104.0
12.5°	237.4	230.9	222.7	216.1	209.6	203.8	198.1	190.8	161.3	117.9	92.5
15°	256.2	246.4	240.7	231.7	222.7	214.5	206.3	199.8	162.1	107.3	82.7
17.5°	277.5	267.7	255.4	245.6	235.8	225.1	215.3	202.2	158.0	99.1	75.3
20°	298.0	284.1	272.6	260.3	246.4	233.3	221.0	209.6	154.7	90.8	68.8
22.5°	320.1	303.7	289.0	273.5	256.2	241.5	226.8	212.0	149.0	83.5	63.0
25°	347.1	328.3	307.0	288.2	270.2	252.1	233.3	215.3	143.3	77.0	58.9
27.5°	379.8	355.3	334.0	310.3	284.9	262.0	241.5	221.9	137.5	72.1	54.8
30°	421.6	393.0	362.7	332.4	305.4	279.2	250.5	226.0	131.8	67.1	50.7
32.5°	477.3	441.3	404.4	369.2	333.2	299.6	269.4	237.4	128.5	63.0	46.6
35°	551.0	504.3	459.2	415.0	371.7	330.7	291.4	255.4	128.5	58.1	41.7
37.5°	620.5	566.5	509.2	454.3	402.8	355.3	308.6	265.2	122.0	54.0	37.7
40°	695.9	631.2	564.1	499.4	437.2	378.2	325.0	275.1	116.3	49.1	33.6
42.5°	811.3	729.4	641.9	566.5	492.0	419.1	352.9	293.9	108.9	44.2	29.5
45°	962.8	858.8	755.6	663.9	569.0	479.8	401.2	328.3	107.3	40.1	25.4
47.5°	1124.9	1002.1	880.9	763.8	652.5	548.5	454.3	366.8	107.3	36.0	22.1
50°	1286.1	1132.2	1002.9	866.9	741.7	618.9	506.7	406.9	108.1	32.8	18.0
52.5°	1431.8	1267.3	1122.4	965.2	826.8	684.4	562.4	446.2	106.4	28.7	14.7
55°	1634.0	1440.8	1273.0	1099.5	937.4	776.9	638.6	505.1	107.3	25.4	12.3
57.5°	2006.5	1779.8	1577.6	1350.0	1163.3	956.2	788.4	626.3	117.1	21.3	9.0
60°	2541.1	2246.4	1962.3	1684.8	1447.4	1201.0	983.2	792.5	137.5	17.2	6.5
62.5°	2900.5	2514.9	2176.0	1869.8	1593.9	1336.1	1098.6	881.7	151.5	13.9	4.1
63°	2937.3	2538.7	2198.1	1882.1	1600.5	1342.6	1103.5	888.3	152.3	13.1	4.1
65°	3007.0	2579.6	2210.4	1884.5	1593.9	1333.6	1100.3	887.4	153.9	10.6	3.3
67.5°	2927.5	2516.6	2139.2	1814.2	1536.7	1280.4	1059.3	854.7	153.1	7.3	2.4
70°	2618.1	2277.5	1946.0	1643.0	1390.9	1159.2	964.4	779.4	140.8	4.9	1.6
72.5°	1922.2	1690.5	1433.5	1214.9	1047.9	870.2	742.5	585.3	108.9	3.3	0.8
75°	569.8	519.1	436.4	384.8	339.7	280.8	249.7	194.9	55.7	1.6	0.0
77.5°	113.8	103.2	92.5	84.3	79.4	68.0	64.7	53.2	22.9	0.8	0.0
80°	59.8	49.1	41.7	36.8	31.9	26.2	22.1	18.0	4.1	0.0	0.0
82.5°	57.3	38.5	27.9	22.9	19.6	15.5	12.3	9.0	2.4	0.0	0.0
85°	21.3	16.4	12.3	9.8	8.2	7.3	5.7	4.9	0.0	0.0	0.0
87.5°	3.3	2.4	2.4	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	172.7	172.7	172.7	172.7	172.7	172.7	172.7
2.5°	146.6	140.0	136.7	132.6	132.6	131.8	133.4
5°	122.0	113.0	106.4	101.5	102.3	99.9	100.7
7.5°	103.2	94.1	88.4	85.1	84.3	83.5	83.5
10°	89.2	81.0	76.1	73.7	72.9	72.9	72.9
12.5°	79.4	71.2	67.1	65.5	65.5	64.7	64.7
15°	71.2	64.7	60.6	58.9	58.9	58.1	58.9
17.5°	64.7	58.1	54.8	53.2	53.2	52.4	52.4
20°	58.9	53.2	49.9	47.5	47.5	46.6	47.5
22.5°	54.0	48.3	44.2	42.6	41.7	40.9	41.7
25°	49.1	43.4	39.3	36.8	36.0	36.0	35.2
27.5°	45.0	39.3	34.4	31.9	31.1	31.1	30.3
30°	40.9	34.4	29.5	27.0	26.2	26.2	26.2
32.5°	36.8	29.5	25.4	22.9	22.1	22.1	22.1
35°	32.8	25.4	21.3	18.8	18.0	18.0	18.0
37.5°	27.9	21.3	16.4	14.7	13.9	13.1	13.1
40°	23.7	16.4	12.3	10.6	9.0	9.0	9.0
42.5°	19.6	13.1	9.0	6.5	5.7	4.9	5.7
45°	16.4	9.8	5.7	3.3	2.4	2.4	2.4
47.5°	13.1	6.5	2.4	0.8	0.8	0.8	0.8
50°	9.8	4.1	0.8	0.0	0.0	0.8	0.8
52.5°	7.3	2.4	0.0	0.0	0.0	0.0	0.0
55°	4.1	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)