

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: P163249

Luminaire Tested: **LDRL-SL2-E03-E-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163249
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: LDRL-SL2-E03-E-7060-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5474.9 lumens
Efficiency: N/A
Efficacy: 72.8 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

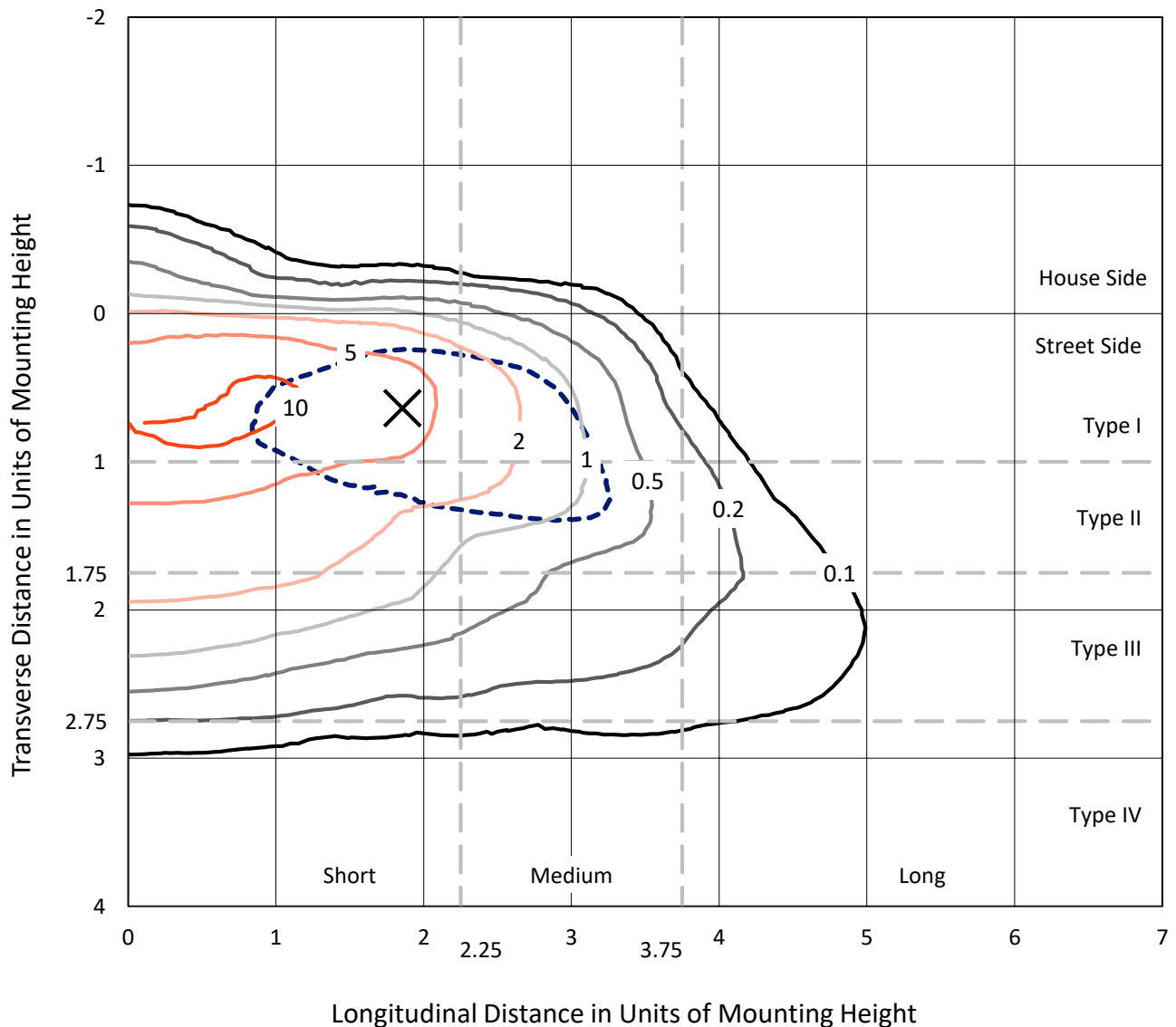


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Iso-Footcandle Lines of Horizontal Illumination

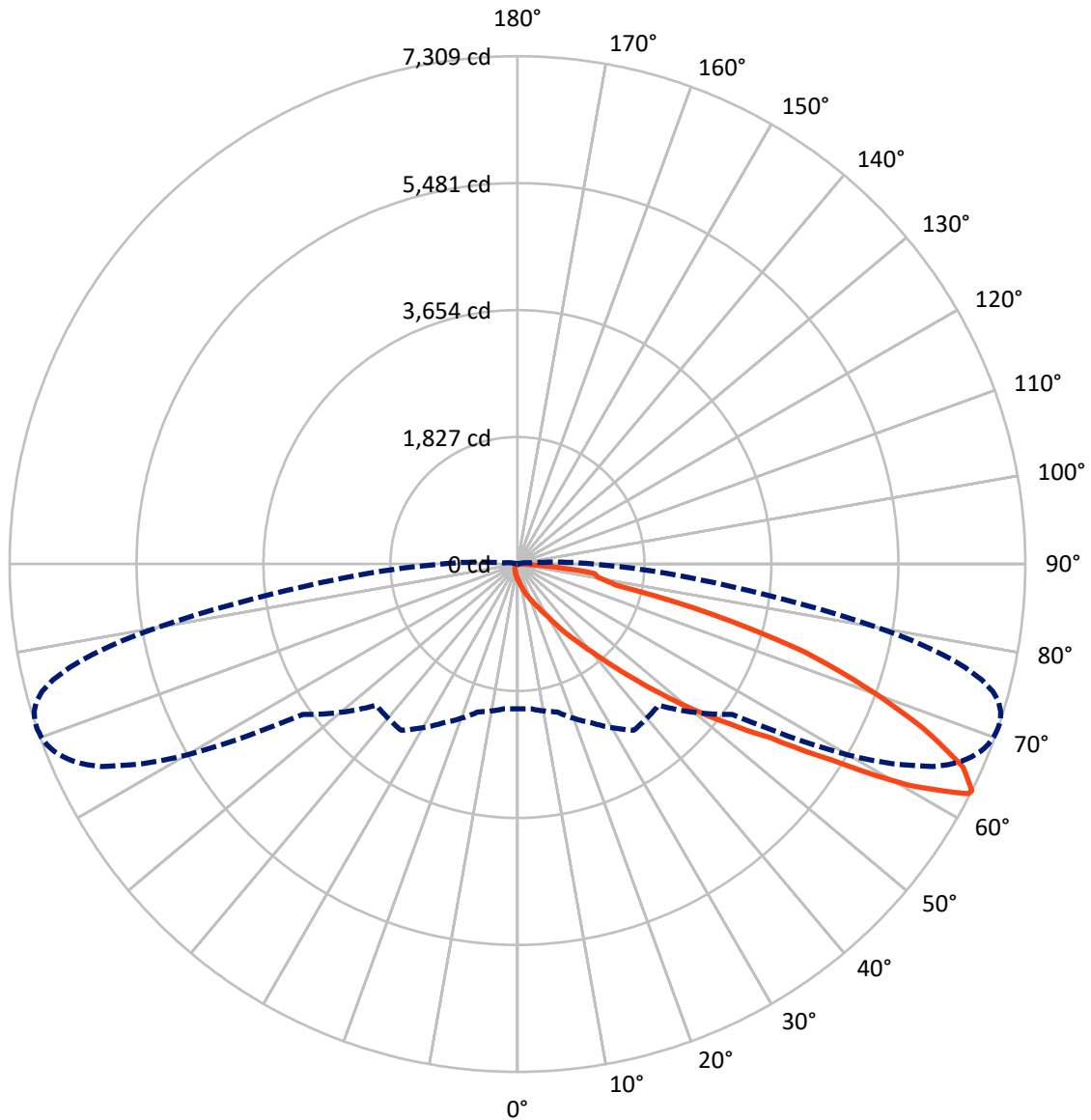
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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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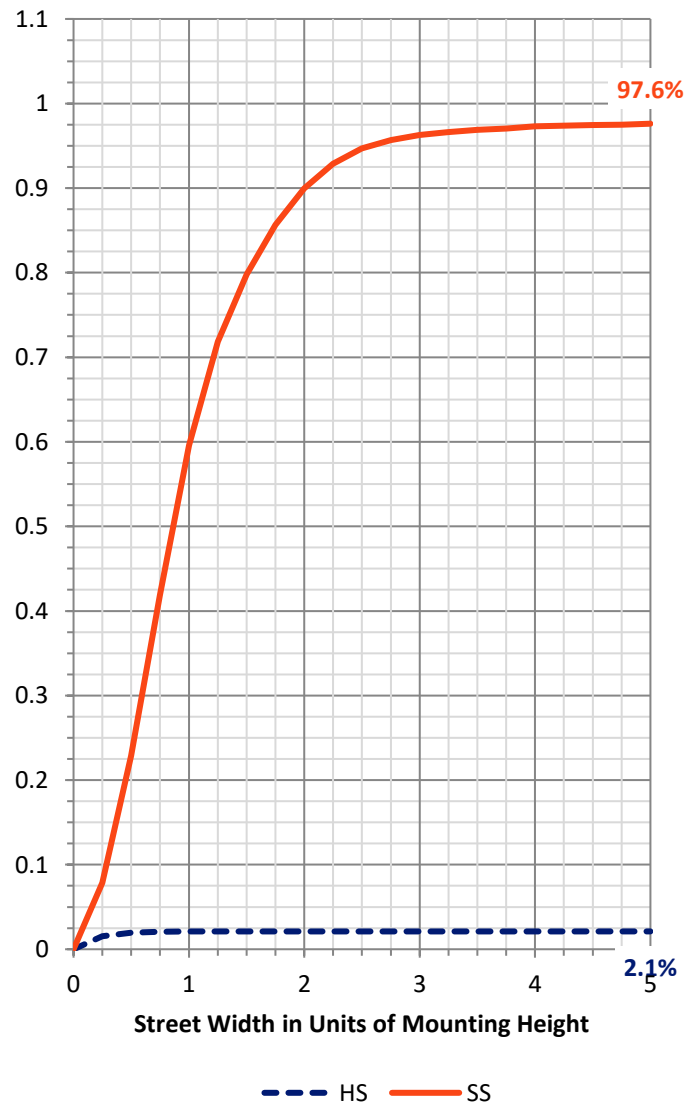
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	116.2	0.0	116.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5358.7	0.0	5358.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	5474.9	0.0	5474.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.4
10°-20°	90.0	1.6
20°-30°	182.8	3.3
30°-40°	446.7	8.2
40°-50°	999.1	18.2
50°-60°	1404.8	25.7
60°-70°	1652.0	30.2
70°-80°	596.5	10.9
80°-90°	79.8	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°	5474.9	100.0
0°-180°	5474.9	100.0



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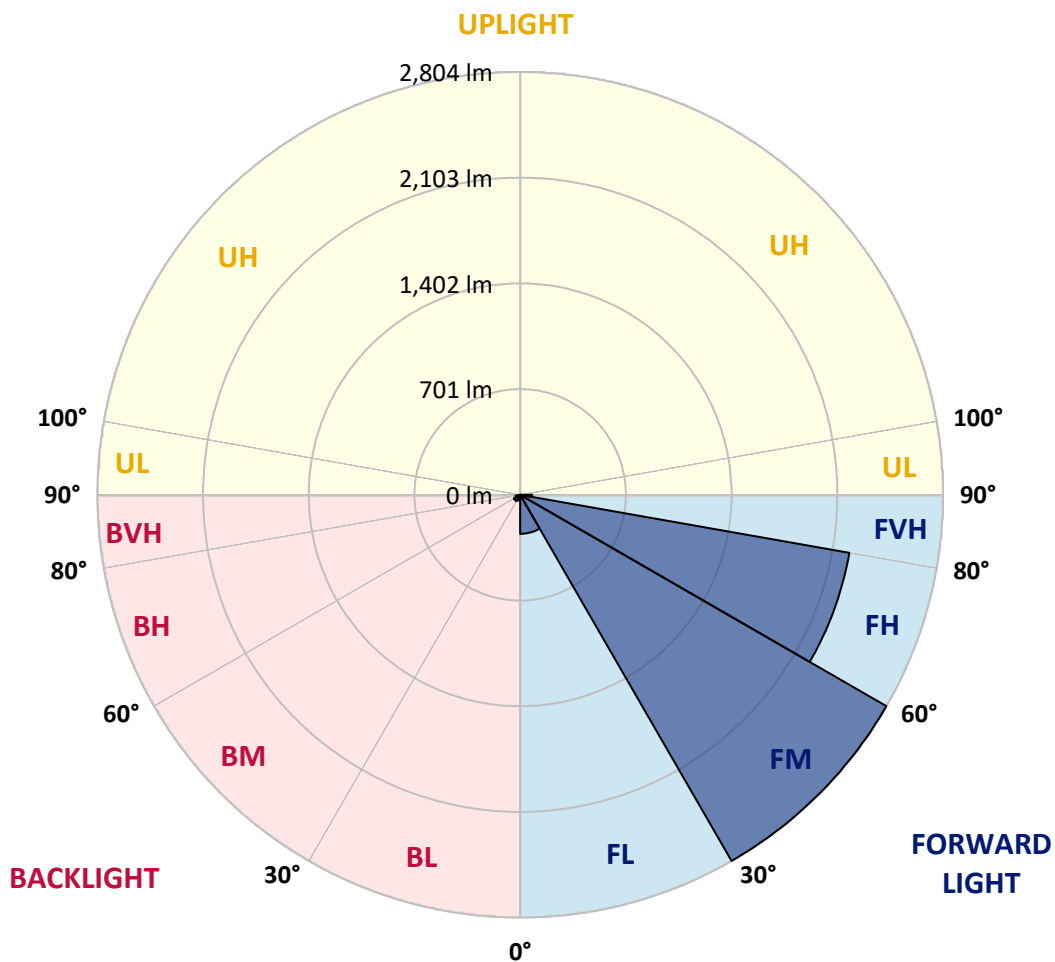
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.7	4.7			
FM	(30°-60°)	2803.8	51.2			
FH	(60°-80°)	2216.6	40.5			G2/5000
FVH	(80°-90°)	79.6	1.5			G1/100
BL	(0°-30°)	37.4	0.7	B0/110		
BM	(30°-60°)	46.8	0.9	B0/220		
BH	(60°-80°)	31.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	274.7	277.7	275.7	270.7	264.7	256.8	249.8	249.8	248.9	245.8	246.8
5°	360.3	361.3	357.3	345.4	334.4	317.5	298.6	296.6	294.6	291.6	290.7
7.5°	443.9	447.9	443.9	431.0	409.0	383.2	353.3	350.4	344.4	344.4	340.4
10°	529.5	529.5	525.5	510.6	490.7	453.9	416.1	411.1	404.1	402.1	396.1
12.5°	590.2	590.2	588.2	580.3	564.3	531.5	485.7	480.7	471.8	468.8	461.8
15°	614.1	614.1	615.1	622.1	623.1	608.2	560.4	556.4	547.4	539.4	536.5
17.5°	629.0	628.0	628.0	638.0	655.9	665.8	635.0	631.1	621.1	617.1	607.2
20°	661.9	659.9	653.9	653.9	670.8	705.7	705.7	704.7	693.7	690.8	685.8
22.5°	710.7	708.7	690.8	675.8	683.8	727.6	768.4	766.4	762.4	758.4	755.4
25°	790.3	783.3	752.5	708.7	701.7	748.5	816.2	821.1	824.1	824.1	826.1
27.5°	910.7	901.8	847.0	765.4	734.5	782.3	868.9	878.9	887.8	889.8	898.7
30°	1077.9	1062.0	983.4	864.0	793.3	832.1	946.5	957.5	970.4	974.4	988.3
32.5°	1352.6	1343.7	1268.0	1088.9	937.6	929.7	1055.0	1069.0	1085.9	1092.9	1109.8
35°	1770.6	1772.7	1710.9	1549.7	1340.7	1231.2	1249.1	1261.1	1267.0	1287.9	1296.9
37.5°	2054.3	2059.3	2073.2	2009.5	1860.2	1748.8	1608.4	1621.3	1590.5	1593.5	1594.5
40°	2209.6	2225.5	2307.1	2368.8	2356.9	2292.2	2179.8	2186.7	2129.0	2116.0	2053.3
42.5°	2313.1	2334.0	2464.4	2655.5	2753.1	2811.7	2785.9	2782.9	2738.1	2721.2	2668.4
45°	2377.8	2396.7	2560.9	2842.6	3067.5	3238.8	3309.4	3317.4	3279.6	3262.6	3218.8
47.5°	2374.8	2396.7	2572.9	2912.3	3243.7	3517.4	3716.5	3726.4	3749.3	3734.4	3737.4
50°	2243.4	2264.3	2441.5	2793.8	3192.0	3644.8	4009.1	4041.0	4077.8	4102.7	4114.6
52.5°	2084.2	2099.1	2256.3	2590.8	2971.0	3592.1	4182.3	4237.1	4291.8	4338.6	4371.4
55°	2025.5	2042.4	2165.8	2443.5	2793.8	3371.1	4262.9	4343.6	4421.2	4497.8	4560.5
57.5°	2056.3	2072.3	2160.8	2373.8	2688.4	3138.2	4285.8	4411.2	4538.6	4663.0	4786.5
60°	2169.8	2186.7	2262.3	2438.5	2660.5	3003.8	4196.2	4404.3	4616.2	4833.3	5037.3
62.5°	2125.0	2132.0	2243.4	2552.0	2859.5	2889.4	3870.8	4161.4	4484.9	4819.3	5148.7
63°	2082.2	2090.2	2203.6	2521.1	2920.3	2872.5	3770.3	4076.8	4418.2	4778.5	5136.8
65°	1888.1	1889.1	1975.7	2226.5	2852.6	2902.4	3322.4	3615.0	4007.1	4439.1	4891.9
67.5°	1409.4	1402.4	1486.0	1677.1	2239.5	2903.3	2851.6	3015.8	3288.5	3671.7	4077.8
70°	499.7	488.7	624.0	888.8	1395.4	2374.8	2450.5	2461.4	2537.0	2744.1	2998.9
72.5°	162.2	165.2	199.0	325.4	643.0	1598.4	2218.5	2184.7	2164.8	2163.8	2197.7
75°	64.7	65.7	79.6	144.3	288.6	770.4	1942.8	1961.7	1968.7	1978.7	1989.6
77.5°	30.8	33.9	44.8	80.6	143.3	381.2	1390.5	1550.7	1642.3	1713.0	1755.7
80°	11.0	12.9	24.9	49.7	66.7	175.2	732.6	883.8	1018.2	1191.4	1340.7
82.5°	0.0	0.0	5.0	34.8	36.8	70.7	300.6	352.3	403.1	522.5	670.8
85°	0.0	0.0	0.0	10.0	11.0	11.9	101.5	122.4	137.4	160.3	185.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	6.0	14.9	22.9
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	244.8	243.9	243.9	241.8	240.8	238.9	237.9	234.9	233.9	233.9	233.9
5°	289.6	285.7	283.6	278.7	275.7	274.7	269.7	267.8	264.7	265.7	260.8
7.5°	339.4	332.5	329.4	322.5	320.5	313.5	311.5	306.5	303.6	297.6	295.6
10°	394.1	385.2	380.2	369.3	366.3	361.3	355.3	349.3	344.4	338.4	335.4
12.5°	456.8	448.9	444.9	430.0	423.0	416.1	408.1	400.1	392.2	387.2	380.2
15°	530.5	517.6	513.6	499.7	487.7	478.7	467.8	457.9	451.9	441.9	435.0
17.5°	603.2	590.2	587.2	566.3	553.4	547.4	535.5	522.5	511.6	501.6	490.7
20°	675.8	666.9	658.9	639.0	625.1	615.1	599.2	586.2	577.3	563.3	549.4
22.5°	748.5	739.5	733.6	712.6	699.7	685.8	671.8	657.9	645.0	628.0	612.1
25°	823.1	817.2	814.2	795.3	783.3	770.4	756.5	740.5	724.6	705.7	688.7
27.5°	900.8	902.7	896.8	892.8	879.8	870.9	849.0	838.0	826.1	803.2	782.3
30°	999.3	1005.3	1003.3	1006.2	998.3	992.3	975.4	961.5	947.6	925.6	901.8
32.5°	1123.7	1131.7	1135.7	1146.6	1142.6	1140.6	1135.7	1115.8	1105.8	1068.0	1058.0
35°	1315.8	1311.8	1328.7	1337.7	1333.7	1331.7	1325.8	1314.8	1302.9	1276.0	1251.1
37.5°	1565.6	1569.6	1575.6	1557.7	1545.7	1544.7	1526.8	1515.9	1499.0	1469.1	1439.2
40°	2023.4	1998.6	1970.7	1895.1	1862.3	1843.3	1790.6	1775.6	1746.8	1705.9	1675.1
42.5°	2618.7	2593.8	2510.2	2383.8	2316.1	2222.5	2179.8	2127.0	2086.2	2019.5	1983.7
45°	3209.9	3138.2	3128.2	2981.0	2897.4	2773.9	2697.3	2608.7	2516.2	2428.5	2364.9
47.5°	3708.5	3692.6	3643.9	3554.3	3476.7	3373.1	3274.6	3138.2	3042.7	2918.2	2803.8
50°	4107.6	4106.7	4088.7	4037.0	3972.3	3888.7	3802.1	3686.7	3578.2	3425.9	3303.5
52.5°	4406.2	4422.2	4428.2	4412.2	4387.3	4313.7	4269.9	4173.3	4081.8	3952.4	3820.0
55°	4625.2	4684.0	4713.8	4747.6	4740.7	4714.8	4712.8	4650.1	4608.3	4505.8	4412.2
57.5°	4895.9	4992.5	5085.1	5249.3	5255.2	5313.0	5342.8	5372.7	5380.7	5339.8	5309.0
60°	5240.3	5437.4	5612.6	5955.9	6045.5	6186.9	6278.4	6378.0	6462.6	6469.5	6467.5
62.5°	5483.2	5786.7	6069.4	6579.0	6753.2	6916.4	7038.8	7135.4	7194.1	7253.8	7281.7
63°	5490.1	5822.6	6123.1	6648.7	6831.8	6987.1	7103.5	7193.1	7254.9	7290.7	7308.6
65°	5321.9	5725.1	6083.4	6606.9	6779.1	6935.3	6996.0	7054.8	7084.6	7098.5	7045.8
67.5°	4510.8	4904.9	5322.9	5908.2	6055.5	6242.6	6292.4	6322.2	6336.2	6333.1	6288.4
70°	3373.1	3703.6	4168.3	4837.2	5032.3	5215.4	5328.9	5377.7	5393.6	5388.6	5321.9
72.5°	2354.9	2549.0	2932.2	3676.7	3942.5	4177.3	4317.6	4390.3	4405.3	4375.4	4313.7
75°	1977.7	1987.7	2074.2	2481.3	2730.2	2981.0	3139.2	3185.0	3155.2	3064.6	2907.3
77.5°	1765.7	1787.6	1787.6	1848.3	1897.0	1966.7	1981.7	1870.2	1740.8	1573.6	1438.3
80°	1481.0	1557.7	1611.4	1656.2	1661.2	1647.3	1610.4	1547.7	1448.2	1320.8	1179.4
82.5°	899.8	1051.1	1112.7	1343.7	1457.2	1533.8	1527.8	1444.2	1368.6	1236.2	1115.8
85°	226.9	244.8	265.7	345.4	387.2	472.8	526.5	551.4	560.4	514.6	465.8
87.5°	21.9	14.9	24.9	18.9	26.8	19.9	26.8	24.9	30.8	32.8	35.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	231.9	230.9	229.9	228.9	227.9	226.9	225.0	225.0	222.9	221.9	221.0
5°	257.8	255.8	254.8	252.8	249.8	247.8	244.8	240.8	237.9	236.9	234.9
7.5°	290.7	285.7	283.6	280.7	276.7	270.7	266.8	263.8	258.8	255.8	249.8
10°	327.5	322.5	316.5	310.5	304.6	297.6	292.6	288.6	280.7	276.7	269.7
12.5°	374.3	365.3	358.3	350.4	342.4	334.4	328.5	316.5	309.6	300.6	294.6
15°	422.0	414.0	406.1	396.1	384.2	371.2	365.3	354.3	345.4	331.4	323.5
17.5°	479.7	464.8	452.9	440.9	430.0	418.0	406.1	389.2	376.2	364.3	348.3
20°	536.5	518.6	505.6	489.7	473.8	454.9	440.9	429.0	411.1	395.1	378.2
22.5°	597.2	579.3	558.3	542.5	520.5	505.6	486.7	466.8	448.9	428.0	407.1
25°	670.8	651.9	628.0	607.2	582.2	561.4	538.5	515.6	493.7	469.8	442.9
27.5°	761.4	741.5	715.6	690.8	657.9	632.0	610.1	579.3	551.4	521.5	490.7
30°	875.9	854.0	822.2	786.3	753.4	724.6	693.7	652.9	622.1	586.2	546.4
32.5°	1025.1	999.3	956.5	922.6	881.9	844.0	801.2	760.4	716.6	669.8	624.0
35°	1213.3	1189.4	1139.7	1089.8	1045.1	1000.3	946.5	899.8	838.0	781.3	722.6
37.5°	1408.4	1365.5	1319.8	1266.0	1210.3	1156.5	1090.8	1026.2	955.5	893.8	820.1
40°	1631.3	1579.5	1541.7	1484.0	1405.4	1328.7	1268.0	1187.4	1098.8	1016.2	929.7
42.5°	1936.9	1879.1	1811.5	1723.9	1667.2	1577.6	1499.0	1403.4	1286.9	1194.4	1089.8
45°	2290.2	2211.6	2145.9	2061.3	1992.6	1881.2	1789.5	1662.2	1545.7	1424.3	1296.9
47.5°	2693.3	2595.8	2500.2	2416.6	2307.1	2197.7	2081.2	1945.9	1796.6	1663.2	1511.9
50°	3156.1	3017.8	2885.4	2777.9	2627.7	2501.2	2374.8	2222.5	2057.3	1904.1	1731.9
52.5°	3670.7	3510.5	3335.3	3170.1	2995.9	2833.7	2681.4	2506.2	2322.0	2134.9	1942.8
55°	4291.8	4171.4	3965.3	3755.3	3522.4	3305.4	3109.3	2892.4	2668.4	2422.6	2220.5
57.5°	5264.2	5205.5	5033.3	4823.3	4519.7	4256.0	3923.5	3657.8	3333.3	2994.9	2734.1
60°	6582.0	6509.3	6412.8	6242.6	6001.7	5643.4	5277.2	4864.1	4370.4	3901.6	3456.7
62.5°	7284.7	7258.8	7180.2	7062.7	6837.8	6555.2	6185.9	5732.0	5174.6	4605.3	4038.0
63°	7305.6	7272.8	7205.0	7085.6	6887.5	6613.8	6251.6	5810.6	5265.2	4685.0	4105.7
65°	7022.9	7010.0	6941.3	6810.9	6675.6	6466.6	6185.9	5806.6	5348.8	4800.4	4224.1
67.5°	6228.7	6189.8	6084.4	6044.5	5950.0	5804.7	5590.7	5329.9	5002.4	4571.5	4073.8
70°	5268.2	5210.5	5078.1	5007.4	4891.9	4800.4	4670.0	4483.9	4281.8	3981.2	3610.0
72.5°	4250.0	4130.5	4009.1	3825.0	3663.8	3500.5	3356.2	3224.8	3002.8	2881.4	2599.8
75°	2760.0	2543.0	2335.0	2056.3	1805.5	1583.5	1367.6	1258.0	1030.1	937.6	805.2
77.5°	1309.8	1188.4	1025.1	898.7	737.5	602.2	491.7	369.3	289.6	226.9	173.2
80°	1057.0	954.5	856.0	741.5	620.1	494.7	379.2	283.6	201.1	139.3	98.5
82.5°	942.6	831.1	709.7	631.1	548.4	448.9	368.3	300.6	221.9	162.2	110.4
85°	366.3	308.6	237.9	194.1	151.3	124.4	112.5	77.6	60.7	47.8	36.8
87.5°	31.8	25.9	20.9	13.9	14.9	7.9	8.9	6.0	5.0	5.0	4.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	220.0	219.0	217.9	216.0	216.0	214.0	213.0	212.0	207.0	196.1	187.1
5°	230.9	228.9	226.9	223.9	221.9	219.0	217.0	214.0	203.0	182.1	164.2
7.5°	246.8	242.9	239.9	233.9	230.9	226.9	223.9	219.0	201.1	169.2	144.3
10°	265.7	258.8	253.8	246.8	240.8	235.9	230.9	223.9	199.0	155.3	126.4
12.5°	288.6	280.7	270.7	262.8	254.8	247.8	240.8	231.9	196.1	143.3	112.5
15°	311.5	299.6	292.6	281.7	270.7	260.8	250.8	242.9	197.1	130.4	100.5
17.5°	337.4	325.4	310.5	298.6	286.7	273.7	261.8	245.8	192.1	120.4	91.5
20°	362.3	345.4	331.4	316.5	299.6	283.6	268.7	254.8	188.1	110.4	83.6
22.5°	389.2	369.3	351.4	332.5	311.5	293.6	275.7	257.8	181.1	101.5	76.7
25°	422.0	399.1	373.2	350.4	328.5	306.5	283.6	261.8	174.2	93.6	71.7
27.5°	461.8	431.9	406.1	377.2	346.4	318.5	293.6	269.7	167.2	87.6	66.7
30°	512.6	477.8	440.9	404.1	371.2	339.4	304.6	274.7	160.3	81.6	61.7
32.5°	580.3	536.5	491.7	448.9	405.1	364.3	327.5	288.6	156.3	76.7	56.7
35°	669.8	613.1	558.3	504.6	451.9	402.1	354.3	310.5	156.3	70.7	50.7
37.5°	754.4	688.7	619.1	552.4	489.7	431.9	375.2	322.5	148.3	65.7	45.8
40°	846.0	767.4	685.8	607.2	531.5	459.8	395.1	334.4	141.4	59.7	40.8
42.5°	986.4	886.8	780.4	688.7	598.2	509.6	429.0	357.3	132.4	53.7	35.8
45°	1170.5	1044.1	918.7	807.2	691.8	583.3	487.7	399.1	130.4	48.8	30.8
47.5°	1367.6	1218.3	1070.9	928.6	793.3	666.9	552.4	445.9	130.4	43.8	26.8
50°	1563.7	1376.5	1219.3	1054.0	901.8	752.5	616.1	494.7	131.4	39.8	21.9
52.5°	1740.8	1540.8	1364.6	1173.5	1005.3	832.1	683.8	542.5	129.4	34.8	17.9
55°	1986.6	1751.7	1547.7	1336.7	1139.7	944.6	776.4	614.1	130.4	30.8	14.9
57.5°	2439.5	2163.8	1918.0	1641.3	1414.4	1162.5	958.5	761.4	142.3	25.9	11.0
60°	3089.5	2731.1	2385.8	2048.4	1759.7	1460.1	1195.4	963.5	167.2	20.9	7.9
62.5°	3526.4	3057.6	2645.6	2273.3	1937.9	1624.4	1335.7	1071.9	184.1	16.9	5.0
63°	3571.2	3086.4	2672.4	2288.2	1945.9	1632.3	1341.7	1079.9	185.1	15.9	5.0
65°	3655.8	3136.3	2687.4	2291.2	1937.9	1621.3	1337.7	1078.9	187.1	12.9	4.0
67.5°	3559.2	3059.6	2600.7	2205.6	1868.2	1556.6	1287.9	1039.1	186.1	8.9	3.0
70°	3183.0	2768.9	2365.9	1997.6	1691.0	1409.4	1172.5	947.6	171.2	6.0	2.0
72.5°	2337.0	2055.3	1742.8	1477.0	1274.0	1058.0	902.7	711.6	132.4	4.0	1.0
75°	692.7	631.1	530.5	467.8	413.0	341.4	303.6	236.9	67.7	2.0	0.0
77.5°	138.3	125.4	112.5	102.5	96.5	82.6	78.6	64.7	27.9	1.0	0.0
80°	72.6	59.7	50.7	44.8	38.8	31.8	26.8	21.9	5.0	0.0	0.0
82.5°	69.7	46.8	33.9	27.9	23.9	18.9	14.9	11.0	3.0	0.0	0.0
85°	25.9	19.9	14.9	11.9	10.0	8.9	7.0	6.0	0.0	0.0	0.0
87.5°	4.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0	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°	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	178.2	170.2	166.2	161.2	161.2	160.3	162.2
5°	148.3	137.4	129.4	123.4	124.4	121.4	122.4
7.5°	125.4	114.5	107.5	103.5	102.5	101.5	101.5
10°	108.5	98.5	92.5	89.6	88.6	88.6	88.6
12.5°	96.5	86.6	81.6	79.6	79.6	78.6	78.6
15°	86.6	78.6	73.6	71.7	71.7	70.7	71.7
17.5°	78.6	70.7	66.7	64.7	64.7	63.7	63.7
20°	71.7	64.7	60.7	57.7	57.7	56.7	57.7
22.5°	65.7	58.7	53.7	51.8	50.7	49.7	50.7
25°	59.7	52.8	47.8	44.8	43.8	43.8	42.8
27.5°	54.7	47.8	41.8	38.8	37.8	37.8	36.8
30°	49.7	41.8	35.8	32.8	31.8	31.8	31.8
32.5°	44.8	35.8	30.8	27.9	26.8	26.8	26.8
35°	39.8	30.8	25.9	22.9	21.9	21.9	21.9
37.5°	33.9	25.9	19.9	17.9	16.9	15.9	15.9
40°	28.9	19.9	14.9	12.9	11.0	11.0	11.0
42.5°	23.9	15.9	11.0	7.9	7.0	6.0	7.0
45°	19.9	11.9	7.0	4.0	3.0	3.0	3.0
47.5°	15.9	7.9	3.0	1.0	1.0	1.0	1.0
50°	11.9	5.0	1.0	0.0	0.0	1.0	1.0
52.5°	8.9	3.0	0.0	0.0	0.0	0.0	0.0
55°	5.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	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)