

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: P163271

Luminaire Tested: **LDRL-SL2-F05-E-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163271
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-F05-E-7030-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6705.1 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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

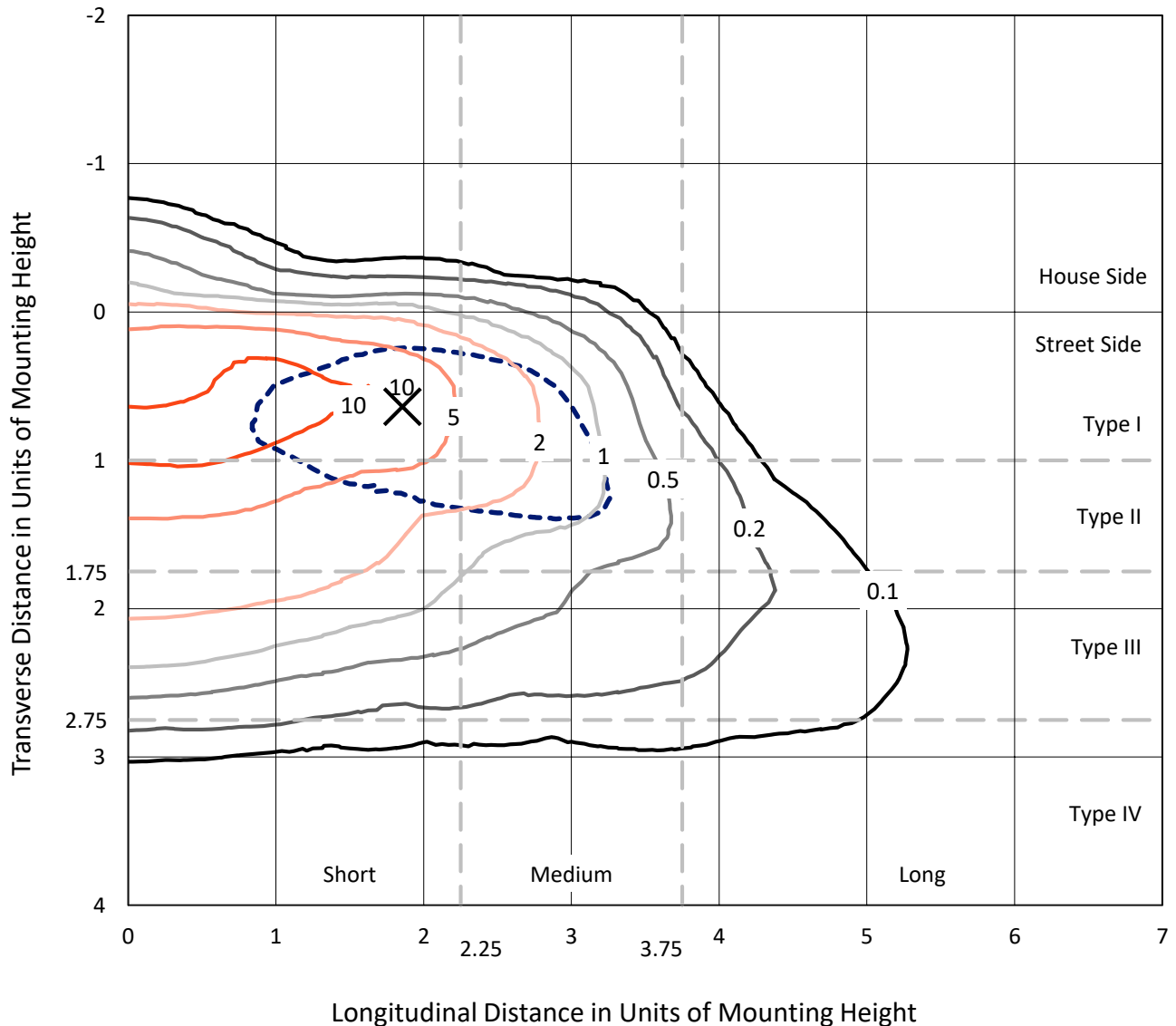


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Iso-Footcandle Lines of Horizontal Illumination

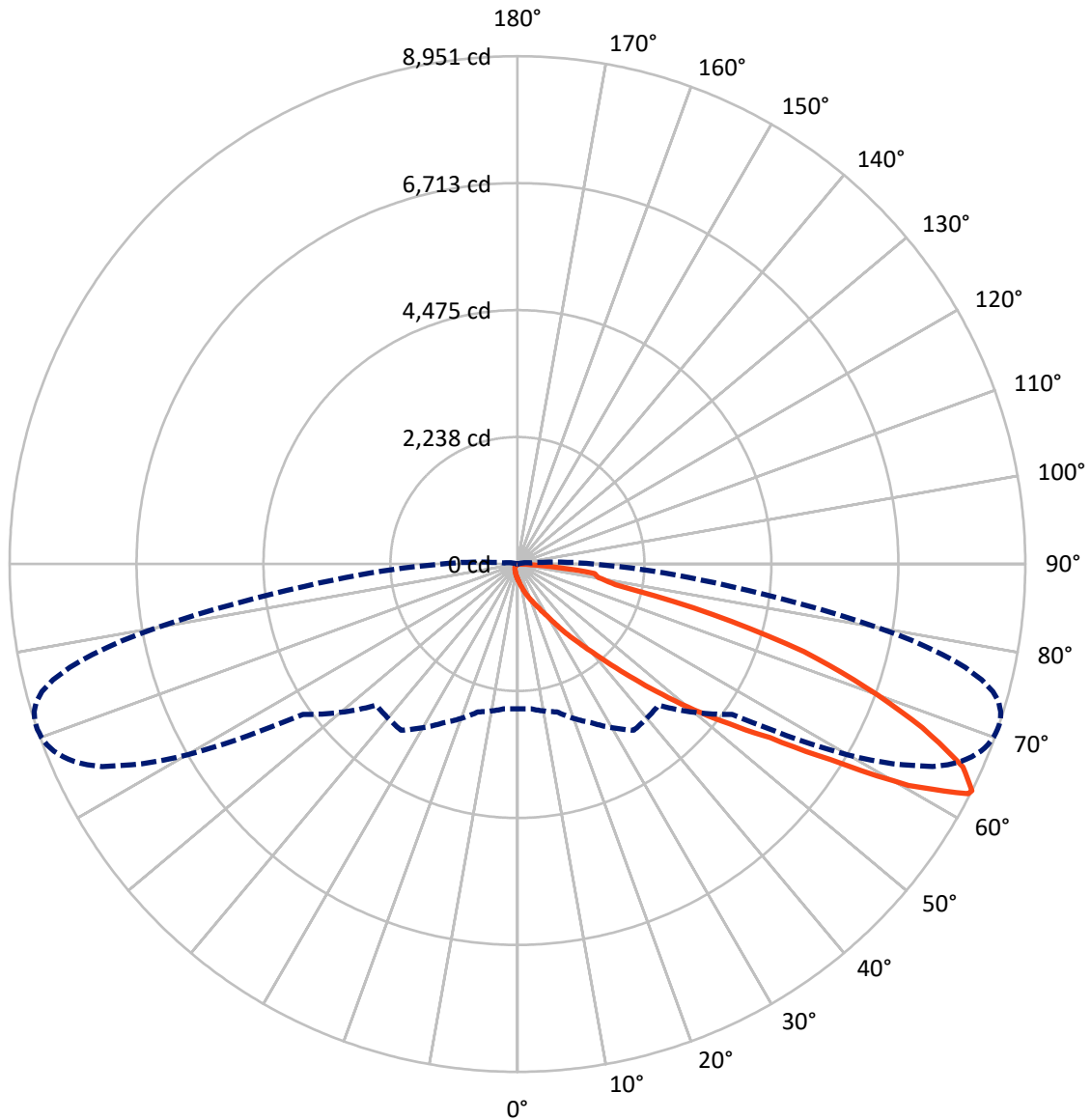
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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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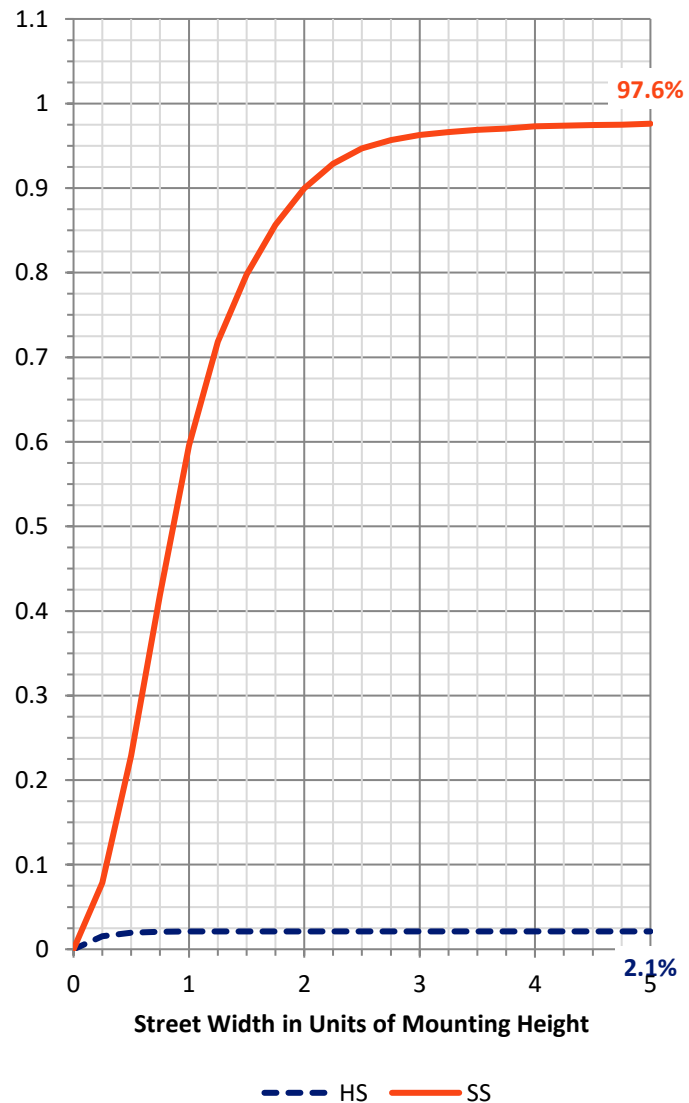
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	142.3	0.0	142.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6562.7	0.0	6562.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	6705.1	0.0	6705.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	0.4
10°-20°	110.2	1.6
20°-30°	223.9	3.3
30°-40°	547.1	8.2
40°-50°	1223.5	18.2
50°-60°	1720.5	25.7
60°-70°	2023.1	30.2
70°-80°	730.5	10.9
80°-90°	97.7	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°	6705.1	100.0
0°-180°	6705.1	100.0



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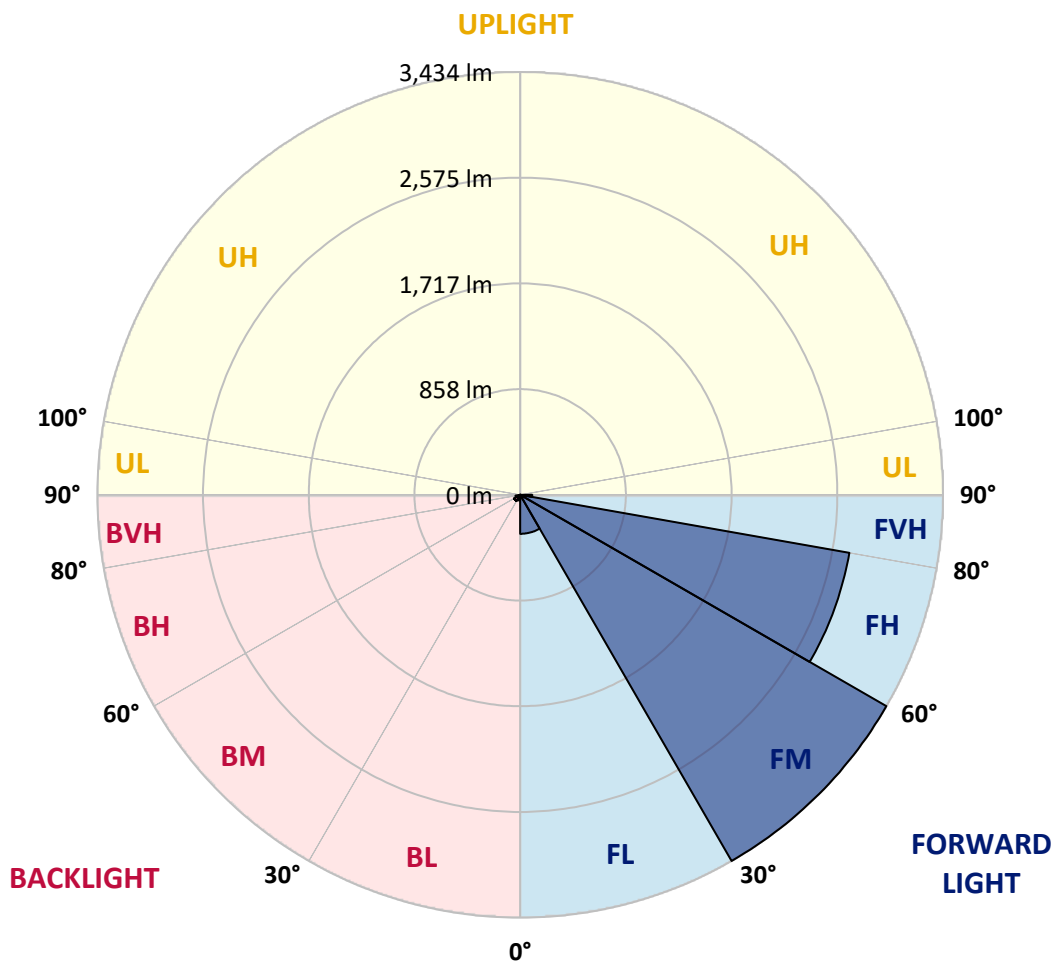
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.8	4.7			
FM (30°-60°)	3433.8	51.2			
FH (60°-80°)	2714.6	40.5			G2/5000
FVH (80°-90°)	97.5	1.5			G1/100
BL (0°-30°)	45.8	0.7	B0/110		
BM (30°-60°)	57.3	0.9	B0/220		
BH (60°-80°)	39.0	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°	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2
2.5°	336.4	340.1	337.6	331.5	324.2	314.5	306.0	306.0	304.8	301.1	302.3
5°	441.2	442.4	437.6	423.0	409.6	388.8	365.7	363.3	360.8	357.2	356.0
7.5°	543.6	548.5	543.6	527.8	501.0	469.3	432.7	429.1	421.8	421.8	416.9
10°	648.5	648.5	643.6	625.3	600.9	555.8	509.5	503.4	494.9	492.4	485.1
12.5°	722.9	722.9	720.4	710.6	691.1	650.9	594.8	588.7	577.8	574.1	565.6
15°	752.1	752.1	753.3	761.8	763.0	744.8	686.3	681.4	670.5	660.6	657.0
17.5°	770.4	769.1	769.1	781.4	803.3	815.4	777.7	772.8	760.6	755.7	743.6
20°	810.6	808.1	800.8	800.8	821.6	864.2	864.2	863.0	849.6	846.0	839.9
22.5°	870.3	867.9	846.0	827.7	837.4	891.1	941.1	938.6	933.7	928.8	925.1
25°	967.8	959.3	921.5	867.9	859.3	916.6	999.6	1005.6	1009.3	1009.3	1011.7
27.5°	1115.3	1104.4	1037.3	937.4	899.6	958.1	1064.1	1076.3	1087.3	1089.7	1100.7
30°	1320.1	1300.6	1204.4	1058.1	971.5	1019.0	1159.2	1172.6	1188.4	1193.3	1210.4
32.5°	1656.5	1645.6	1552.9	1333.5	1148.3	1138.5	1292.0	1309.2	1329.9	1338.4	1359.1
35°	2168.5	2171.0	2095.3	1897.9	1641.9	1507.8	1529.8	1544.4	1551.7	1577.3	1588.3
37.5°	2515.9	2522.0	2539.1	2461.0	2278.2	2141.7	1969.8	1985.6	1947.9	1951.6	1952.8
40°	2706.1	2725.5	2825.5	2901.1	2886.4	2807.2	2669.5	2678.0	2607.3	2591.5	2514.6
42.5°	2832.8	2858.4	3018.1	3252.1	3371.6	3443.5	3411.8	3408.2	3353.3	3332.6	3268.0
45°	2912.1	2935.2	3136.3	3481.3	3756.8	3966.5	4053.0	4062.7	4016.4	3995.7	3942.0
47.5°	2908.4	2935.2	3150.9	3566.6	3972.6	4307.7	4551.6	4563.7	4591.7	4573.5	4577.1
50°	2747.5	2773.1	2990.0	3421.5	3909.2	4463.8	4909.9	4948.9	4994.0	5024.5	5039.1
52.5°	2552.5	2570.7	2763.3	3172.9	3638.5	4399.2	5122.0	5189.1	5256.1	5313.4	5353.6
55°	2480.6	2501.3	2652.4	2992.5	3421.5	4128.6	5220.7	5319.5	5414.6	5508.4	5585.2
57.5°	2518.3	2537.9	2646.3	2907.2	3292.4	3843.3	5248.8	5402.4	5558.4	5710.7	5861.9
60°	2657.3	2678.0	2770.6	2986.4	3258.2	3678.7	5139.1	5393.8	5653.4	5919.2	6169.1
62.5°	2602.4	2611.0	2747.5	3125.4	3502.0	3538.6	4740.5	5096.4	5492.5	5902.1	6305.6
63°	2550.0	2559.8	2698.8	3087.6	3576.4	3517.9	4617.4	4992.8	5410.9	5852.1	6290.9
65°	2312.3	2313.6	2419.6	2726.7	3493.5	3554.5	4068.9	4427.2	4907.4	5436.5	5991.1
67.5°	1726.0	1717.5	1819.9	2054.0	2742.7	3555.7	3492.3	3693.4	4027.4	4496.7	4994.0
70°	611.9	598.5	764.2	1088.5	1708.9	2908.4	3001.0	3014.5	3107.1	3360.6	3672.7
72.5°	198.7	202.4	243.8	398.6	787.5	1957.6	2717.0	2675.5	2651.2	2650.0	2691.5
75°	79.2	80.5	97.5	176.7	353.5	943.5	2379.4	2402.5	2411.0	2423.3	2436.7
77.5°	37.8	41.5	54.8	98.7	175.5	466.9	1702.9	1899.1	2011.3	2097.8	2150.2
80°	13.4	15.8	30.5	60.9	81.7	214.5	897.2	1082.4	1247.0	1459.1	1641.9
82.5°	0.0	0.0	6.1	42.7	45.1	86.6	368.1	431.5	493.6	639.9	821.6
85°	0.0	0.0	0.0	12.2	13.4	14.6	124.3	149.9	168.2	196.3	226.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	7.3	18.2	28.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2
2.5°	299.9	298.7	298.7	296.2	295.0	292.5	291.3	287.6	286.4	286.4	286.4
5°	354.7	349.9	347.4	341.3	337.6	336.4	330.3	327.9	324.2	325.4	319.4
7.5°	415.7	407.2	403.5	394.9	392.5	383.9	381.5	375.4	371.8	364.5	362.0
10°	482.7	471.7	465.7	452.2	448.6	442.4	435.1	427.8	421.8	414.5	410.8
12.5°	559.5	549.7	544.8	526.6	518.1	509.5	499.7	490.0	480.3	474.2	465.7
15°	649.7	633.9	629.0	611.9	597.3	586.3	572.9	560.7	553.4	541.2	532.7
17.5°	738.7	722.9	719.2	693.6	677.8	670.5	655.8	639.9	626.6	614.4	600.9
20°	827.7	816.7	806.9	782.6	765.5	753.3	733.8	718.0	707.0	689.9	672.9
22.5°	916.6	905.7	898.4	872.7	856.9	839.9	822.8	805.7	789.9	769.1	749.6
25°	1008.1	1000.8	997.1	973.9	959.3	943.5	926.4	906.9	887.4	864.2	843.5
27.5°	1103.2	1105.6	1098.3	1093.4	1077.5	1066.6	1039.8	1026.3	1011.7	983.7	958.1
30°	1223.8	1231.1	1228.7	1232.3	1222.6	1215.3	1194.6	1177.5	1160.5	1133.6	1104.4
32.5°	1376.2	1385.9	1390.8	1404.2	1399.3	1396.9	1390.8	1366.5	1354.2	1308.0	1295.7
35°	1611.4	1606.5	1627.3	1638.3	1633.4	1631.0	1623.6	1610.2	1595.6	1562.7	1532.2
37.5°	1917.4	1922.3	1929.6	1907.7	1893.1	1891.8	1869.8	1856.5	1835.7	1799.2	1762.6
40°	2478.1	2447.6	2413.5	2320.9	2280.7	2257.5	2192.9	2174.6	2139.2	2089.2	2051.5
42.5°	3207.0	3176.6	3074.2	2919.4	2836.4	2721.9	2669.5	2604.9	2554.9	2473.2	2429.4
45°	3931.1	3843.3	3831.1	3650.8	3548.4	3397.2	3303.3	3194.8	3081.5	2974.2	2896.2
47.5°	4541.8	4522.3	4462.6	4352.9	4257.8	4131.0	4010.3	3843.3	3726.3	3573.9	3433.8
50°	5030.6	5029.4	5007.4	4944.0	4864.8	4762.4	4656.4	4515.0	4382.1	4195.6	4045.7
52.5°	5396.3	5415.8	5423.1	5403.6	5373.1	5282.9	5229.2	5111.0	4998.9	4840.4	4678.3
55°	5664.5	5736.4	5773.0	5814.3	5805.8	5774.2	5771.7	5694.9	5643.7	5518.2	5403.6
57.5°	5996.0	6114.2	6227.6	6428.7	6436.0	6506.7	6543.3	6579.9	6589.6	6539.6	6501.8
60°	6417.8	6659.1	6873.6	7294.1	7403.8	7577.0	7689.1	7811.0	7914.6	7923.1	7920.7
62.5°	6715.1	7086.9	7433.1	8057.2	8270.6	8470.4	8620.3	8738.6	8810.5	8883.6	8917.8
63°	6723.7	7130.8	7498.9	8142.5	8366.8	8557.0	8699.6	8809.3	8884.9	8928.8	8950.7
65°	6517.7	7011.4	7450.2	8091.3	8302.2	8493.6	8567.9	8639.9	8676.4	8693.5	8628.9
67.5°	5524.3	6007.0	6518.9	7235.6	7416.1	7645.2	7706.2	7742.8	7759.8	7756.1	7701.3
70°	4131.0	4535.7	5104.9	5924.1	6163.0	6387.2	6526.2	6586.0	6605.4	6599.3	6517.7
72.5°	2884.0	3121.7	3591.0	4502.8	4828.3	5115.9	5287.8	5376.7	5395.0	5358.5	5282.9
75°	2422.1	2434.3	2540.3	3038.8	3343.6	3650.8	3844.5	3900.6	3864.1	3753.2	3560.5
77.5°	2162.4	2189.2	2189.2	2263.6	2323.3	2408.6	2427.0	2290.4	2131.9	1927.1	1761.4
80°	1813.8	1907.7	1973.5	2028.3	2034.4	2017.4	1972.2	1895.5	1773.5	1617.5	1444.4
82.5°	1102.0	1287.2	1362.8	1645.6	1784.6	1878.4	1871.1	1768.7	1676.1	1513.9	1366.5
85°	277.9	299.9	325.4	423.0	474.2	579.0	644.8	675.3	686.3	630.2	570.5
87.5°	26.8	18.2	30.5	23.1	32.9	24.4	32.9	30.5	37.8	40.2	43.9
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2
2.5°	284.0	282.8	281.5	280.3	279.1	277.9	275.5	275.5	273.0	271.8	270.6
5°	315.7	313.3	312.1	309.6	306.0	303.5	299.9	295.0	291.3	290.1	287.6
7.5°	356.0	349.9	347.4	343.7	338.8	331.5	326.7	323.0	316.9	313.3	306.0
10°	401.0	394.9	387.6	380.3	373.0	364.5	358.4	353.5	343.7	338.8	330.3
12.5°	458.4	447.3	438.8	429.1	419.3	409.6	402.3	387.6	379.1	368.1	360.8
15°	516.9	507.1	497.3	485.1	470.5	454.7	447.3	433.9	423.0	405.9	396.1
17.5°	587.5	569.3	554.6	540.0	526.6	512.0	497.3	476.6	460.8	446.1	426.6
20°	657.0	635.1	619.3	599.7	580.2	557.1	540.0	525.4	503.4	483.9	463.2
22.5°	731.4	709.4	683.8	664.3	637.5	619.3	596.0	571.7	549.7	524.2	498.5
25°	821.6	798.4	769.1	743.6	713.1	687.5	659.4	631.4	604.6	575.4	542.4
27.5°	932.5	908.1	876.4	846.0	805.7	774.0	747.2	709.4	675.3	638.7	600.9
30°	1072.7	1045.9	1006.9	963.0	922.7	887.4	849.6	799.6	761.8	718.0	669.2
32.5°	1255.5	1223.8	1171.4	1129.9	1080.0	1033.6	981.2	931.3	877.6	820.3	764.2
35°	1485.9	1456.6	1395.7	1334.7	1279.9	1225.0	1159.2	1102.0	1026.3	956.9	885.0
37.5°	1724.8	1672.4	1616.3	1550.5	1482.2	1416.4	1335.9	1256.8	1170.2	1094.6	1004.4
40°	1997.9	1934.4	1888.2	1817.4	1721.1	1627.3	1552.9	1454.2	1345.7	1244.5	1138.5
42.5°	2372.1	2301.3	2218.5	2111.2	2041.7	1932.0	1835.7	1718.7	1576.1	1462.7	1334.7
45°	2804.8	2708.5	2628.0	2524.4	2440.3	2303.8	2191.6	2035.6	1893.1	1744.3	1588.3
47.5°	3298.5	3179.0	3062.0	2959.6	2825.5	2691.5	2548.8	2383.1	2200.2	2036.8	1851.6
50°	3865.3	3695.8	3533.7	3402.1	3218.0	3063.2	2908.4	2721.9	2519.5	2331.9	2121.0
52.5°	4495.5	4299.2	4084.7	3882.3	3669.0	3470.3	3283.9	3069.3	2843.8	2614.6	2379.4
55°	5256.1	5108.6	4856.2	4599.1	4313.8	4048.1	3808.0	3542.3	3268.0	2966.9	2719.4
57.5°	6447.0	6375.1	6164.2	5907.0	5535.2	5212.2	4805.0	4479.6	4082.3	3667.8	3348.4
60°	8060.9	7971.9	7853.7	7645.2	7350.2	6911.4	6462.9	5957.0	5352.4	4778.3	4233.4
62.5°	8921.5	8889.7	8793.4	8649.6	8374.2	8028.0	7575.7	7019.9	6337.3	5640.0	4945.2
63°	8947.0	8906.8	8823.9	8677.6	8435.1	8099.9	7656.2	7116.2	6448.2	5737.6	5028.2
65°	8600.9	8585.0	8500.9	8341.2	8175.5	7919.5	7575.7	7111.3	6550.6	5879.0	5173.2
67.5°	7628.2	7580.6	7451.4	7402.6	7286.8	7108.9	6846.8	6527.5	6126.4	5598.6	4989.1
70°	6451.8	6381.2	6219.0	6132.5	5991.1	5879.0	5719.3	5491.3	5243.9	4875.8	4421.1
72.5°	5204.9	5058.6	4909.9	4684.4	4486.9	4287.1	4110.2	3949.3	3677.5	3528.8	3183.9
75°	3380.2	3114.4	2859.7	2518.3	2211.2	1939.3	1674.8	1540.7	1261.6	1148.3	986.1
77.5°	1604.1	1455.4	1255.5	1100.7	903.2	737.5	602.1	452.2	354.7	277.9	212.1
80°	1294.5	1169.0	1048.3	908.1	759.4	605.8	464.4	347.4	246.3	170.6	120.6
82.5°	1154.4	1017.8	869.1	772.8	671.7	549.7	451.0	368.1	271.8	198.7	135.3
85°	448.6	377.9	291.3	237.7	185.3	152.4	137.8	95.1	74.3	58.5	45.1
87.5°	39.0	31.7	25.6	17.0	18.2	9.7	10.9	7.3	6.1	6.1	4.9
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2
2.5°	269.4	268.2	266.9	264.5	264.5	262.1	260.9	259.6	253.6	240.1	229.1
5°	282.8	280.3	277.9	274.2	271.8	268.2	265.7	262.1	248.7	223.0	201.1
7.5°	302.3	297.5	293.8	286.4	282.8	277.9	274.2	268.2	246.3	207.2	176.7
10°	325.4	316.9	310.8	302.3	295.0	288.9	282.8	274.2	243.8	190.2	154.8
12.5°	353.5	343.7	331.5	321.8	312.1	303.5	295.0	284.0	240.1	175.5	137.8
15°	381.5	366.9	358.4	345.0	331.5	319.4	307.2	297.5	241.4	159.7	123.1
17.5°	413.2	398.6	380.3	365.7	351.1	335.2	320.6	301.1	235.2	147.5	112.1
20°	443.7	423.0	405.9	387.6	366.9	347.4	329.1	312.1	230.3	135.3	102.4
22.5°	476.6	452.2	430.3	407.2	381.5	359.6	337.6	315.7	221.8	124.3	93.9
25°	516.9	488.8	457.1	429.1	402.3	375.4	347.4	320.6	213.3	114.6	87.8
27.5°	565.6	529.0	497.3	462.0	424.2	390.0	359.6	330.3	204.8	107.3	81.7
30°	627.8	585.1	540.0	494.9	454.7	415.7	373.0	336.4	196.3	100.0	75.6
32.5°	710.6	657.0	602.1	549.7	496.1	446.1	401.0	353.5	191.4	93.9	69.4
35°	820.3	750.9	683.8	618.0	553.4	492.4	433.9	380.3	191.4	86.6	62.1
37.5°	923.9	843.5	758.2	676.5	599.7	529.0	459.6	394.9	181.6	80.5	56.1
40°	1036.1	939.8	839.9	743.6	650.9	563.2	483.9	409.6	173.1	73.1	50.0
42.5°	1208.0	1086.1	955.7	843.5	732.6	624.1	525.4	437.6	162.1	65.8	43.9
45°	1433.5	1278.7	1125.1	988.6	847.2	714.3	597.3	488.8	159.7	59.7	37.8
47.5°	1674.8	1492.0	1311.6	1137.2	971.5	816.7	676.5	546.1	159.7	53.6	32.9
50°	1915.0	1685.8	1493.2	1290.8	1104.4	921.5	754.5	605.8	160.9	48.8	26.8
52.5°	2131.9	1886.9	1671.2	1437.1	1231.1	1019.0	837.4	664.3	158.5	42.7	21.9
55°	2433.0	2145.3	1895.5	1637.1	1395.7	1156.8	950.8	752.1	159.7	37.8	18.2
57.5°	2987.6	2650.0	2348.9	2010.1	1732.1	1423.7	1173.8	932.5	174.3	31.7	13.4
60°	3783.6	3344.8	2921.8	2508.6	2155.1	1788.2	1464.0	1179.9	204.8	25.6	9.7
62.5°	4318.7	3744.6	3240.0	2784.0	2373.3	1989.3	1635.8	1312.8	225.5	20.7	6.1
63°	4373.5	3779.9	3272.9	2802.4	2383.1	1999.1	1643.1	1322.6	226.7	19.5	6.1
65°	4477.2	3840.9	3291.2	2806.0	2373.3	1985.6	1638.3	1321.3	229.1	15.8	4.9
67.5°	4358.9	3747.0	3185.1	2701.2	2288.0	1906.4	1577.3	1272.6	227.9	10.9	3.6
70°	3898.1	3391.1	2897.4	2446.4	2071.0	1726.0	1435.9	1160.5	209.7	7.3	2.4
72.5°	2862.1	2517.1	2134.4	1808.9	1560.2	1295.7	1105.6	871.5	162.1	4.9	1.2
75°	848.4	772.8	649.7	572.9	505.9	418.1	371.8	290.1	82.9	2.4	0.0
77.5°	169.4	153.6	137.8	125.5	118.2	101.2	96.3	79.2	34.2	1.2	0.0
80°	89.0	73.1	62.1	54.8	47.5	39.0	32.9	26.8	6.1	0.0	0.0
82.5°	85.4	57.3	41.5	34.2	29.3	23.1	18.2	13.4	3.6	0.0	0.0
85°	31.7	24.4	18.2	14.6	12.2	10.9	8.5	7.3	0.0	0.0	0.0
87.5°	4.9	3.6	3.6	2.4	2.4	1.2	1.2	1.2	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°	257.2	257.2	257.2	257.2	257.2	257.2	257.2
2.5°	218.2	208.4	203.6	197.5	197.5	196.3	198.7
5°	181.6	168.2	158.5	151.2	152.4	148.7	149.9
7.5°	153.6	140.2	131.6	126.7	125.5	124.3	124.3
10°	132.9	120.6	113.3	109.7	108.5	108.5	108.5
12.5°	118.2	106.0	100.0	97.5	97.5	96.3	96.3
15°	106.0	96.3	90.2	87.8	87.8	86.6	87.8
17.5°	96.3	86.6	81.7	79.2	79.2	78.0	78.0
20°	87.8	79.2	74.3	70.7	70.7	69.4	70.7
22.5°	80.5	71.9	65.8	63.4	62.1	60.9	62.1
25°	73.1	64.6	58.5	54.8	53.6	53.6	52.4
27.5°	67.0	58.5	51.2	47.5	46.3	46.3	45.1
30°	60.9	51.2	43.9	40.2	39.0	39.0	39.0
32.5°	54.8	43.9	37.8	34.2	32.9	32.9	32.9
35°	48.8	37.8	31.7	28.0	26.8	26.8	26.8
37.5°	41.5	31.7	24.4	21.9	20.7	19.5	19.5
40°	35.4	24.4	18.2	15.8	13.4	13.4	13.4
42.5°	29.3	19.5	13.4	9.7	8.5	7.3	8.5
45°	24.4	14.6	8.5	4.9	3.6	3.6	3.6
47.5°	19.5	9.7	3.6	1.2	1.2	1.2	1.2
50°	14.6	6.1	1.2	0.0	0.0	1.2	1.2
52.5°	10.9	3.6	0.0	0.0	0.0	0.0	0.0
55°	6.1	1.2	0.0	0.0	0.0	0.0	0.0
57.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.2	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)