

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: P163307

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163307
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-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5335.7 lumens
Efficiency: N/A
Efficacy: 71.0 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

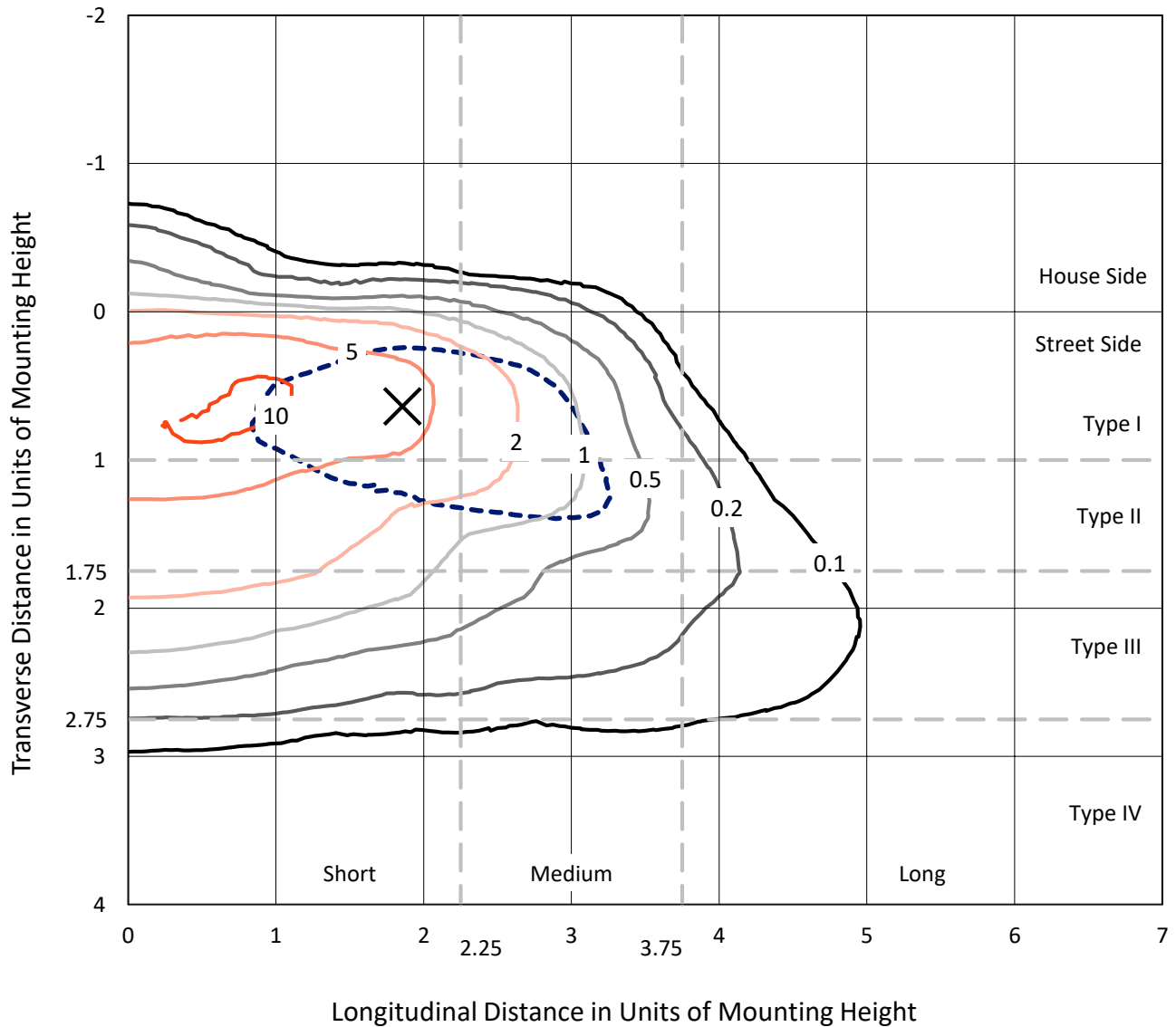
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

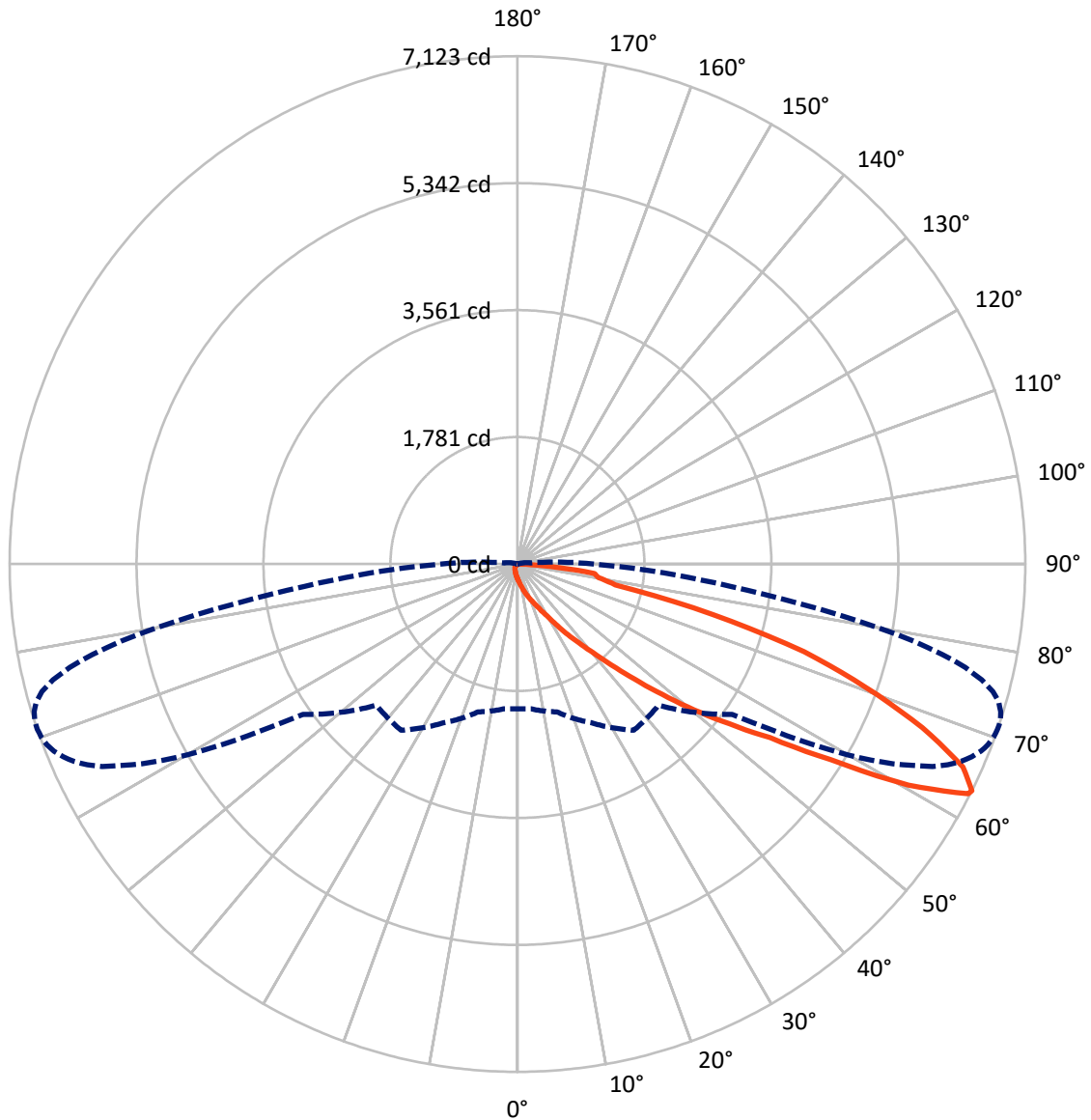
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 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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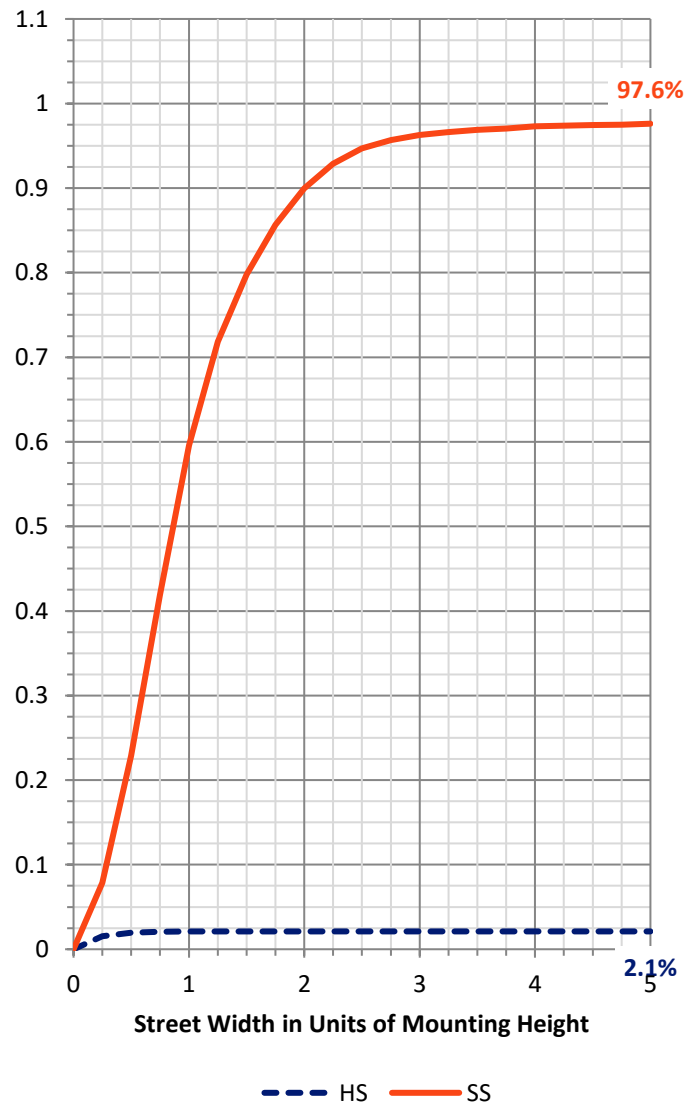
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.3	0.0	113.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5222.4	0.0	5222.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	5335.7	0.0	5335.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	0.4
10°-20°	87.7	1.6
20°-30°	178.2	3.3
30°-40°	435.4	8.2
40°-50°	973.7	18.2
50°-60°	1369.1	25.7
60°-70°	1609.9	30.2
70°-80°	581.3	10.9
80°-90°	77.7	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°	5335.7	100.0
0°-180°	5335.7	100.0

Coefficient of Utilization



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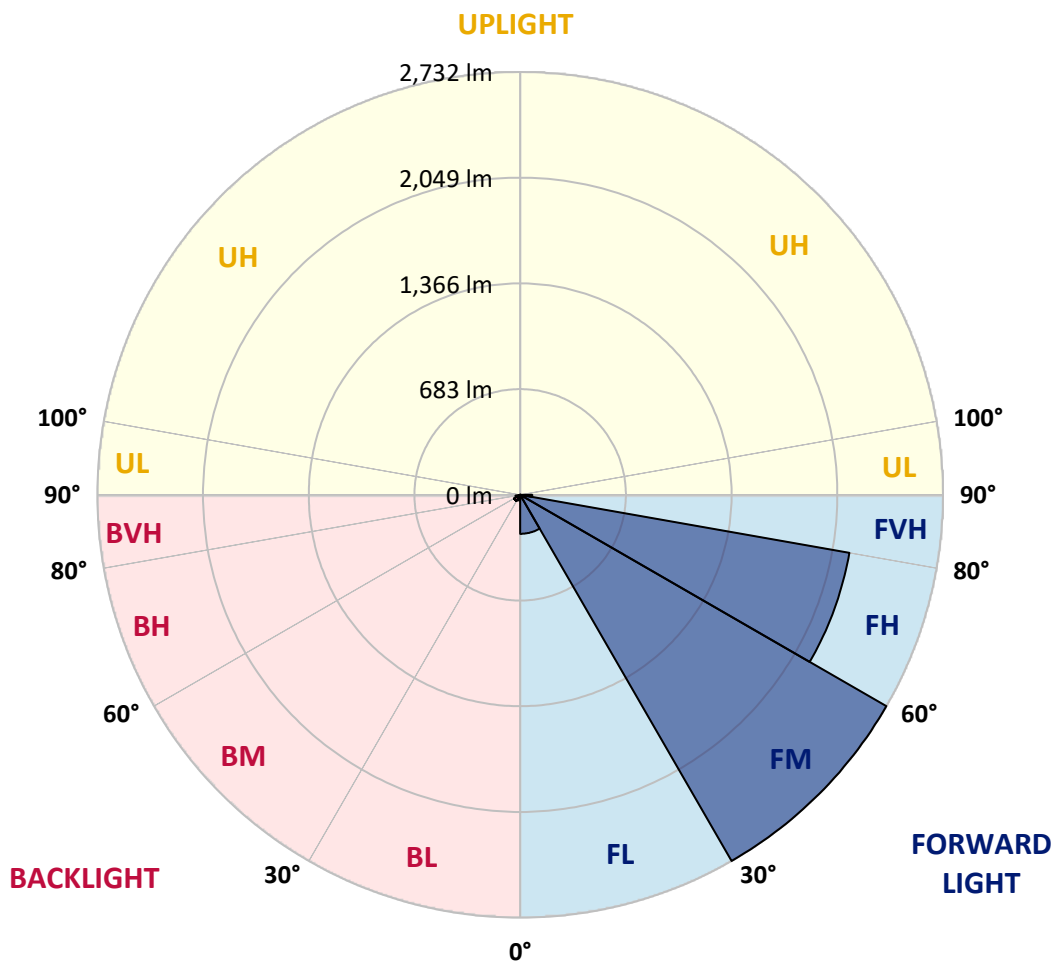
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.1	4.7			
FM	(30°-60°)	2732.5	51.2			
FH	(60°-80°)	2160.2	40.5			G2/5000
FVH	(80°-90°)	77.6	1.5			G1/100
BL	(0°-30°)	36.4	0.7	B0/110		
BM	(30°-60°)	45.6	0.9	B0/220		
BH	(60°-80°)	31.1	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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	267.7	270.6	268.7	263.8	258.0	250.3	243.5	243.5	242.5	239.6	240.5
5°	351.1	352.1	348.2	336.6	325.9	309.4	291.0	289.1	287.1	284.2	283.3
7.5°	432.6	436.5	432.6	420.0	398.6	373.4	344.3	341.5	335.6	335.6	331.7
10°	516.1	516.1	512.2	497.6	478.2	442.3	405.5	400.6	393.8	391.9	386.0
12.5°	575.2	575.2	573.2	565.5	550.0	518.0	473.3	468.5	459.8	456.8	450.1
15°	598.5	598.5	599.5	606.2	607.2	592.7	546.1	542.2	533.5	525.7	522.8
17.5°	613.0	612.1	612.1	621.8	639.2	648.9	618.8	615.0	605.3	601.4	591.7
20°	645.1	643.1	637.3	637.3	653.8	687.7	687.7	686.8	676.1	673.2	668.3
22.5°	692.6	690.7	673.2	658.6	666.4	709.1	748.9	746.9	743.0	739.1	736.2
25°	770.2	763.4	733.3	690.7	683.8	729.4	795.4	800.2	803.2	803.2	805.1
27.5°	887.5	878.8	825.5	745.9	715.9	762.4	846.8	856.5	865.3	867.2	875.9
30°	1050.5	1035.0	958.4	842.0	773.1	810.9	922.4	933.1	945.7	949.6	963.2
32.5°	1318.2	1309.5	1235.8	1061.2	913.7	906.0	1028.2	1041.8	1058.3	1065.1	1081.6
35°	1725.6	1727.6	1667.4	1510.3	1306.6	1199.9	1217.3	1229.0	1234.8	1255.1	1263.9
37.5°	2002.1	2006.9	2020.5	1958.4	1812.9	1704.3	1567.5	1580.1	1550.0	1553.0	1553.9
40°	2153.4	2168.9	2248.4	2308.6	2296.9	2233.9	2124.3	2131.1	2074.8	2062.2	2001.1
42.5°	2254.3	2274.6	2401.7	2587.9	2683.0	2740.2	2715.0	2712.1	2668.4	2651.9	2600.5
45°	2317.3	2335.7	2495.8	2770.3	2989.5	3156.4	3225.2	3233.0	3196.1	3179.6	3136.9
47.5°	2314.4	2335.7	2507.4	2838.2	3161.2	3427.9	3622.0	3631.6	3653.9	3639.4	3642.3
50°	2186.3	2206.7	2379.4	2722.7	3110.8	3552.1	3907.1	3938.2	3974.0	3998.3	4009.9
52.5°	2031.2	2045.7	2198.9	2524.9	2895.4	3500.7	4075.9	4129.3	4182.6	4228.2	4260.2
55°	1973.9	1990.4	2110.7	2381.3	2722.7	3285.4	4154.5	4233.1	4308.7	4383.4	4444.5
57.5°	2004.0	2019.5	2105.8	2313.4	2620.0	3058.4	4176.8	4299.0	4423.1	4544.4	4664.7
60°	2114.6	2131.1	2204.8	2376.5	2592.8	2927.4	4089.5	4292.2	4498.8	4710.3	4909.1
62.5°	2070.9	2077.7	2186.3	2487.1	2786.8	2815.9	3772.3	4055.5	4370.8	4696.7	5017.7
63°	2029.2	2037.0	2147.6	2457.0	2846.0	2799.4	3674.3	3973.1	4305.8	4656.9	5006.1
65°	1840.1	1841.0	1925.5	2169.8	2780.0	2828.5	3237.8	3523.0	3905.2	4326.2	4767.5
67.5°	1373.5	1366.7	1448.2	1634.5	2182.5	2829.5	2779.0	2939.0	3204.8	3578.3	3974.0
70°	487.0	476.3	608.2	866.2	1359.9	2314.4	2388.1	2398.8	2472.5	2674.3	2922.6
72.5°	158.1	161.0	194.0	317.2	626.6	1557.8	2162.1	2129.1	2109.7	2108.8	2141.8
75°	63.1	64.0	77.6	140.6	281.3	750.8	1893.4	1911.8	1918.6	1928.3	1939.0
77.5°	30.1	33.0	43.6	78.5	139.7	371.5	1355.1	1511.2	1600.5	1669.4	1711.1
80°	10.7	12.6	24.2	48.5	65.0	170.7	713.9	861.4	992.3	1161.1	1306.6
82.5°	0.0	0.0	4.9	34.0	35.9	68.9	292.9	343.4	392.8	509.2	653.8
85°	0.0	0.0	0.0	9.7	10.7	11.6	98.9	119.3	133.9	156.2	180.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9	5.8	14.5	22.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	238.6	237.7	237.7	235.7	234.7	232.8	231.8	228.9	227.9	227.9	227.9
5°	282.2	278.4	276.4	271.6	268.7	267.7	262.9	260.9	258.0	259.0	254.2
7.5°	330.8	324.0	321.1	314.3	312.4	305.5	303.6	298.7	295.9	290.0	288.1
10°	384.1	375.4	370.6	359.9	356.9	352.1	346.3	340.4	335.6	329.8	326.9
12.5°	445.2	437.5	433.6	419.0	412.3	405.5	397.7	389.9	382.2	377.3	370.6
15°	517.0	504.4	500.5	487.0	475.3	466.6	455.9	446.2	440.4	430.7	423.9
17.5°	587.8	575.2	572.3	551.9	539.3	533.5	521.9	509.2	498.6	488.9	478.2
20°	658.6	649.9	642.1	622.7	609.2	599.5	583.9	571.3	562.6	549.0	535.4
22.5°	729.4	720.7	714.9	694.5	681.9	668.3	654.7	641.2	628.6	612.1	596.5
25°	802.2	796.4	793.4	775.0	763.4	750.8	737.2	721.7	706.1	687.7	671.2
27.5°	877.9	879.8	874.0	870.1	857.5	848.8	827.4	816.7	805.1	782.8	762.4
30°	973.9	979.7	977.8	980.6	972.9	967.1	950.6	937.0	923.5	902.1	878.8
32.5°	1095.1	1102.9	1106.8	1117.4	1113.5	1111.6	1106.8	1087.4	1077.7	1040.8	1031.1
35°	1282.3	1278.4	1294.9	1303.7	1299.8	1297.9	1292.0	1281.4	1269.7	1243.5	1219.3
37.5°	1525.8	1529.7	1535.5	1518.1	1506.4	1505.4	1487.9	1477.3	1460.8	1431.7	1402.6
40°	1972.0	1947.7	1920.6	1846.9	1814.9	1796.4	1745.0	1730.5	1702.3	1662.5	1632.5
42.5°	2552.0	2527.8	2446.3	2323.1	2257.1	2166.0	2124.3	2072.9	2033.1	1968.1	1933.2
45°	3128.2	3058.4	3048.7	2905.1	2823.7	2703.4	2628.7	2542.3	2452.1	2366.8	2304.7
47.5°	3614.2	3598.7	3551.2	3463.9	3388.2	3287.3	3191.3	3058.4	2965.3	2844.0	2732.5
50°	4003.1	4002.2	3984.7	3934.3	3871.3	3789.8	3705.4	3592.9	3487.1	3338.7	3219.4
52.5°	4294.1	4309.7	4315.5	4300.0	4275.7	4204.0	4161.2	4067.2	3977.9	3851.8	3722.8
55°	4507.6	4564.8	4593.9	4626.8	4620.1	4594.9	4592.9	4531.8	4491.1	4391.2	4300.0
57.5°	4771.4	4865.5	4955.7	5115.7	5121.5	5177.8	5206.9	5236.0	5243.8	5204.0	5173.9
60°	5107.0	5299.1	5469.8	5804.4	5891.7	6029.5	6118.7	6215.7	6298.1	6304.9	6303.0
62.5°	5343.7	5639.5	5915.0	6411.7	6581.4	6740.5	6859.7	6953.9	7011.1	7069.3	7096.4
63°	5350.4	5674.4	5967.4	6479.5	6658.0	6809.3	6922.8	7010.1	7070.3	7105.2	7122.7
65°	5186.5	5579.4	5928.6	6438.8	6606.6	6758.9	6818.0	6875.3	6904.4	6917.9	6866.6
67.5°	4396.0	4780.1	5187.5	5757.8	5901.4	6083.8	6132.3	6161.4	6175.0	6172.0	6128.4
70°	3287.3	3609.4	4062.3	4714.1	4904.3	5082.7	5193.3	5240.9	5256.4	5251.5	5186.5
72.5°	2295.0	2484.1	2857.6	3583.1	3842.2	4071.1	4207.8	4278.6	4293.2	4264.1	4204.0
75°	1927.4	1937.1	2021.5	2418.2	2660.7	2905.1	3059.3	3104.0	3074.9	2986.6	2833.3
77.5°	1720.7	1742.1	1742.1	1801.3	1848.8	1916.7	1931.3	1822.6	1696.5	1533.5	1401.7
80°	1443.4	1518.1	1570.4	1614.1	1618.9	1605.4	1569.4	1508.3	1411.3	1287.2	1149.4
82.5°	876.9	1024.3	1084.4	1309.5	1420.1	1494.8	1489.0	1407.5	1333.7	1204.7	1087.4
85°	221.2	238.6	259.0	336.6	377.3	460.7	513.1	537.4	546.1	501.5	454.0
87.5°	21.4	14.5	24.2	18.4	26.2	19.4	26.2	24.2	30.1	32.0	34.9
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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	226.0	225.1	224.0	223.1	222.1	221.2	219.2	219.2	217.3	216.3	215.3
5°	251.2	249.3	248.3	246.4	243.5	241.5	238.6	234.7	231.8	230.9	228.9
7.5°	283.3	278.4	276.4	273.5	269.6	263.8	260.0	257.0	252.2	249.3	243.5
10°	319.1	314.3	308.5	302.6	296.8	290.0	285.2	281.3	273.5	269.6	262.9
12.5°	364.7	356.0	349.2	341.5	333.7	325.9	320.1	308.5	301.7	292.9	287.1
15°	411.3	403.5	395.8	386.0	374.4	361.8	356.0	345.3	336.6	323.0	315.2
17.5°	467.5	453.0	441.4	429.7	419.0	407.4	395.8	379.3	366.7	355.0	339.5
20°	522.8	505.4	492.8	477.2	461.7	443.3	429.7	418.1	400.6	385.1	368.6
22.5°	582.0	564.5	544.1	528.7	507.3	492.8	474.3	454.9	437.5	417.1	396.7
25°	653.8	635.3	612.1	591.7	567.4	547.1	524.8	502.4	481.1	457.9	431.6
27.5°	742.0	722.6	697.4	673.2	641.2	616.0	594.6	564.5	537.4	508.3	478.2
30°	853.6	832.3	801.2	766.3	734.3	706.1	676.1	636.3	606.2	571.3	532.5
32.5°	999.1	973.9	932.2	899.2	859.4	822.5	780.8	741.1	698.4	652.8	608.2
35°	1182.4	1159.1	1110.7	1062.1	1018.5	974.8	922.4	876.9	816.7	761.5	704.2
37.5°	1372.6	1330.8	1286.2	1233.8	1179.5	1127.1	1063.1	1000.1	931.2	871.1	799.3
40°	1589.8	1539.4	1502.5	1446.2	1369.6	1294.9	1235.8	1157.2	1070.9	990.4	906.0
42.5°	1887.6	1831.3	1765.4	1680.0	1624.7	1537.4	1460.8	1367.7	1254.2	1164.0	1062.1
45°	2231.9	2155.3	2091.3	2008.9	1941.9	1833.3	1744.0	1619.9	1506.4	1388.0	1263.9
47.5°	2624.8	2529.7	2436.6	2355.1	2248.4	2141.8	2028.2	1896.4	1750.9	1620.8	1473.4
50°	3075.8	2941.0	2812.0	2707.3	2560.8	2437.6	2314.4	2166.0	2005.0	1855.6	1687.8
52.5°	3577.3	3421.1	3250.4	3089.4	2919.7	2761.6	2613.2	2442.4	2263.0	2080.6	1893.4
55°	4182.6	4065.2	3864.4	3659.8	3432.8	3221.3	3030.2	2818.8	2600.5	2360.9	2164.0
57.5°	5130.3	5073.1	4905.2	4700.6	4404.7	4147.7	3823.7	3564.7	3248.5	2918.7	2664.5
60°	6414.5	6343.7	6249.7	6083.8	5849.0	5499.8	5142.9	4740.4	4259.2	3802.4	3368.8
62.5°	7099.4	7074.1	6997.5	6883.0	6663.8	6388.4	6028.5	5586.2	5043.0	4488.1	3935.2
63°	7119.7	7087.7	7021.7	6905.3	6712.3	6445.6	6092.5	5662.8	5131.3	4565.8	4001.2
65°	6844.3	6831.7	6764.7	6637.6	6505.7	6302.0	6028.5	5658.9	5212.7	4678.3	4116.7
67.5°	6070.2	6032.3	5929.6	5890.7	5798.6	5657.0	5448.4	5194.3	4875.2	4455.2	3970.1
70°	5134.1	5077.9	4948.9	4880.0	4767.5	4678.3	4551.2	4369.8	4172.9	3880.0	3518.2
72.5°	4141.9	4025.5	3907.1	3727.7	3570.5	3411.5	3270.8	3142.7	2926.4	2808.1	2533.6
75°	2689.8	2478.3	2275.6	2004.0	1759.6	1543.3	1332.8	1226.0	1003.9	913.7	784.7
77.5°	1276.5	1158.2	999.1	875.9	718.7	586.9	479.2	359.9	282.2	221.2	168.8
80°	1030.1	930.2	834.2	722.6	604.3	482.1	369.5	276.4	196.0	135.8	96.0
82.5°	918.6	809.9	691.6	615.0	534.5	437.5	358.9	292.9	216.3	158.1	107.6
85°	356.9	300.7	231.8	189.1	147.4	121.3	109.6	75.7	59.2	46.6	35.9
87.5°	31.0	25.2	20.3	13.6	14.5	7.7	8.7	5.8	4.9	4.9	3.9
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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	214.4	213.4	212.4	210.5	210.5	208.6	207.6	206.6	201.8	191.1	182.3
5°	225.1	223.1	221.2	218.2	216.3	213.4	211.4	208.6	197.9	177.5	160.0
7.5°	240.5	236.7	233.8	227.9	225.1	221.2	218.2	213.4	196.0	164.9	140.6
10°	259.0	252.2	247.3	240.5	234.7	229.9	225.1	218.2	194.0	151.3	123.2
12.5°	281.3	273.5	263.8	256.1	248.3	241.5	234.7	226.0	191.1	139.7	109.6
15°	303.6	292.0	285.2	274.5	263.8	254.2	244.4	236.7	192.1	127.1	98.0
17.5°	328.8	317.2	302.6	291.0	279.4	266.8	255.1	239.6	187.2	117.4	89.2
20°	353.1	336.6	323.0	308.5	292.0	276.4	261.9	248.3	183.3	107.6	81.5
22.5°	379.3	359.9	342.4	324.0	303.6	286.1	268.7	251.2	176.5	98.9	74.7
25°	411.3	389.0	363.7	341.5	320.1	298.7	276.4	255.1	169.7	91.2	69.8
27.5°	450.1	421.0	395.8	367.6	337.6	310.4	286.1	262.9	163.0	85.4	65.0
30°	499.6	465.6	429.7	393.8	361.8	330.8	296.8	267.7	156.2	79.6	60.1
32.5°	565.5	522.8	479.2	437.5	394.8	355.0	319.1	281.3	152.3	74.7	55.3
35°	652.8	597.5	544.1	491.8	440.4	391.9	345.3	302.6	152.3	68.9	49.4
37.5°	735.2	671.2	603.4	538.3	477.2	421.0	365.7	314.3	144.5	64.0	44.6
40°	824.5	747.8	668.3	591.7	518.0	448.1	385.1	325.9	137.8	58.2	39.8
42.5°	961.3	864.2	760.5	671.2	583.0	496.6	418.1	348.2	129.0	52.4	34.9
45°	1140.7	1017.5	895.3	786.7	674.2	568.4	475.3	389.0	127.1	47.5	30.1
47.5°	1332.8	1187.3	1043.7	905.0	773.1	649.9	538.3	434.6	127.1	42.7	26.2
50°	1523.9	1341.5	1188.2	1027.2	878.8	733.3	600.4	482.1	128.0	38.8	21.4
52.5°	1696.5	1501.6	1329.8	1143.6	979.7	810.9	666.4	528.7	126.1	34.0	17.5
55°	1936.1	1707.2	1508.3	1302.7	1110.7	920.5	756.6	598.5	127.1	30.1	14.5
57.5°	2377.4	2108.8	1869.2	1599.5	1378.4	1132.9	934.1	742.0	138.7	25.2	10.7
60°	3010.9	2661.7	2325.1	1996.3	1714.9	1423.0	1165.0	938.9	163.0	20.3	7.7
62.5°	3436.7	2979.8	2578.3	2215.4	1888.6	1583.0	1301.7	1044.7	179.5	16.5	4.9
63°	3480.3	3007.9	2604.4	2230.0	1896.4	1590.8	1307.5	1052.5	180.4	15.5	4.9
65°	3562.8	3056.5	2619.0	2232.9	1888.6	1580.1	1303.7	1051.4	182.3	12.6	3.9
67.5°	3468.7	2981.8	2534.6	2149.5	1820.7	1517.0	1255.1	1012.7	181.4	8.7	2.9
70°	3102.0	2698.5	2305.7	1946.8	1648.0	1373.5	1142.6	923.5	166.9	5.8	1.9
72.5°	2277.5	2003.0	1698.5	1439.5	1241.6	1031.1	879.8	693.5	129.0	3.9	1.0
75°	675.1	615.0	517.0	455.9	402.5	332.7	295.9	230.9	65.9	1.9	0.0
77.5°	134.8	122.2	109.6	99.9	94.1	80.5	76.6	63.1	27.2	1.0	0.0
80°	70.8	58.2	49.4	43.6	37.8	31.0	26.2	21.4	4.9	0.0	0.0
82.5°	67.9	45.6	33.0	27.2	23.3	18.4	14.5	10.7	2.9	0.0	0.0
85°	25.2	19.4	14.5	11.6	9.7	8.7	6.8	5.8	0.0	0.0	0.0
87.5°	3.9	2.9	2.9	1.9	1.9	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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	173.6	165.8	162.0	157.1	157.1	156.2	158.1
5°	144.5	133.9	126.1	120.3	121.3	118.3	119.3
7.5°	122.2	111.5	104.8	100.9	99.9	98.9	98.9
10°	105.7	96.0	90.2	87.3	86.3	86.3	86.3
12.5°	94.1	84.4	79.6	77.6	77.6	76.6	76.6
15°	84.4	76.6	71.8	69.8	69.8	68.9	69.8
17.5°	76.6	68.9	65.0	63.1	63.1	62.1	62.1
20°	69.8	63.1	59.2	56.3	56.3	55.3	56.3
22.5°	64.0	57.2	52.4	50.5	49.4	48.5	49.4
25°	58.2	51.4	46.6	43.6	42.7	42.7	41.7
27.5°	53.3	46.6	40.7	37.8	36.8	36.8	35.9
30°	48.5	40.7	34.9	32.0	31.0	31.0	31.0
32.5°	43.6	34.9	30.1	27.2	26.2	26.2	26.2
35°	38.8	30.1	25.2	22.3	21.4	21.4	21.4
37.5°	33.0	25.2	19.4	17.5	16.5	15.5	15.5
40°	28.1	19.4	14.5	12.6	10.7	10.7	10.7
42.5°	23.3	15.5	10.7	7.7	6.8	5.8	6.8
45°	19.4	11.6	6.8	3.9	2.9	2.9	2.9
47.5°	15.5	7.7	2.9	1.0	1.0	1.0	1.0
50°	11.6	4.9	1.0	0.0	0.0	1.0	1.0
52.5°	8.7	2.9	0.0	0.0	0.0	0.0	0.0
55°	4.9	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	2.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.9	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)