

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: P163260

Luminaire Tested: **LDRL-SL2-F04-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163260
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-F04-E-8030-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4956.7 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

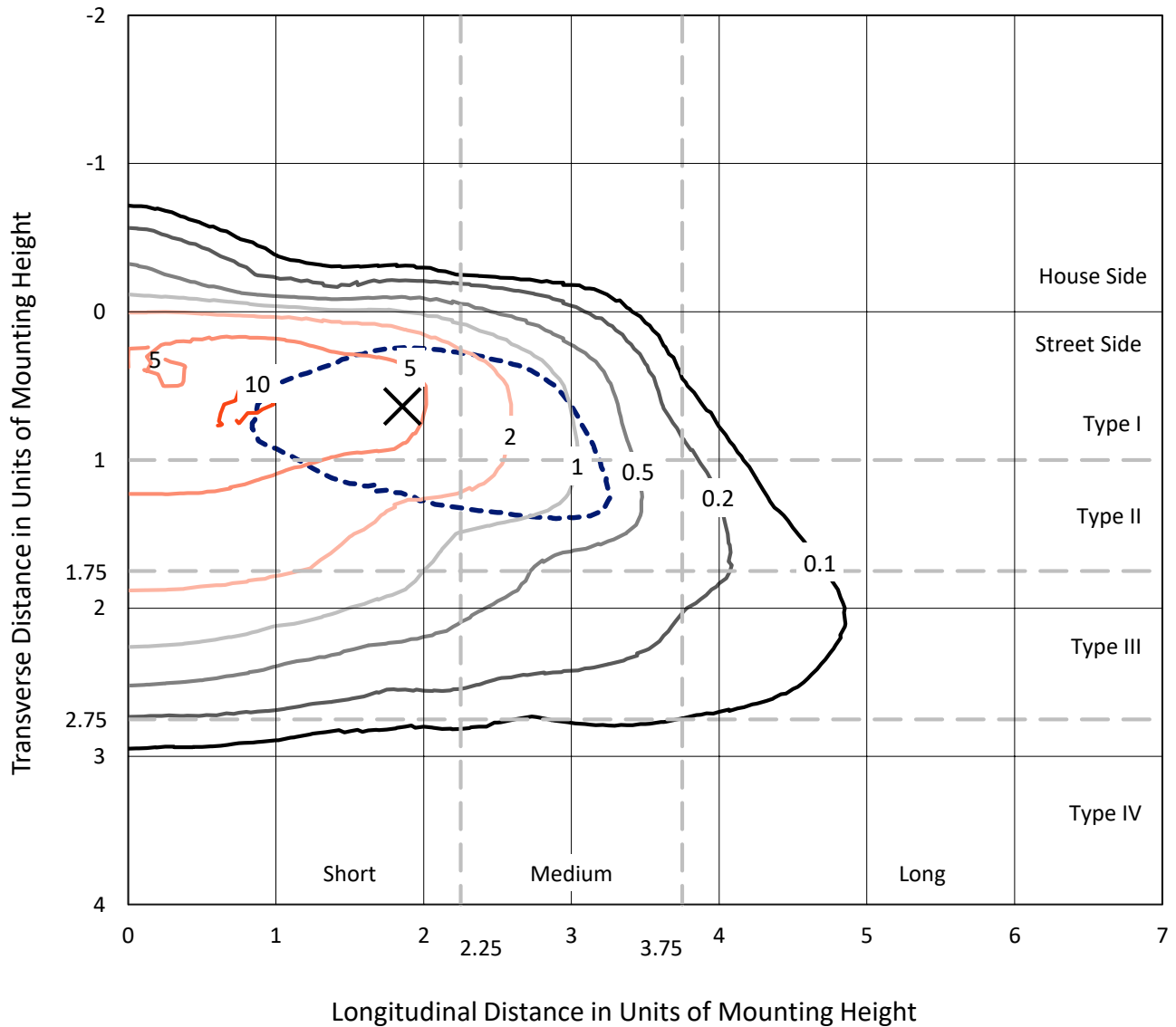
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

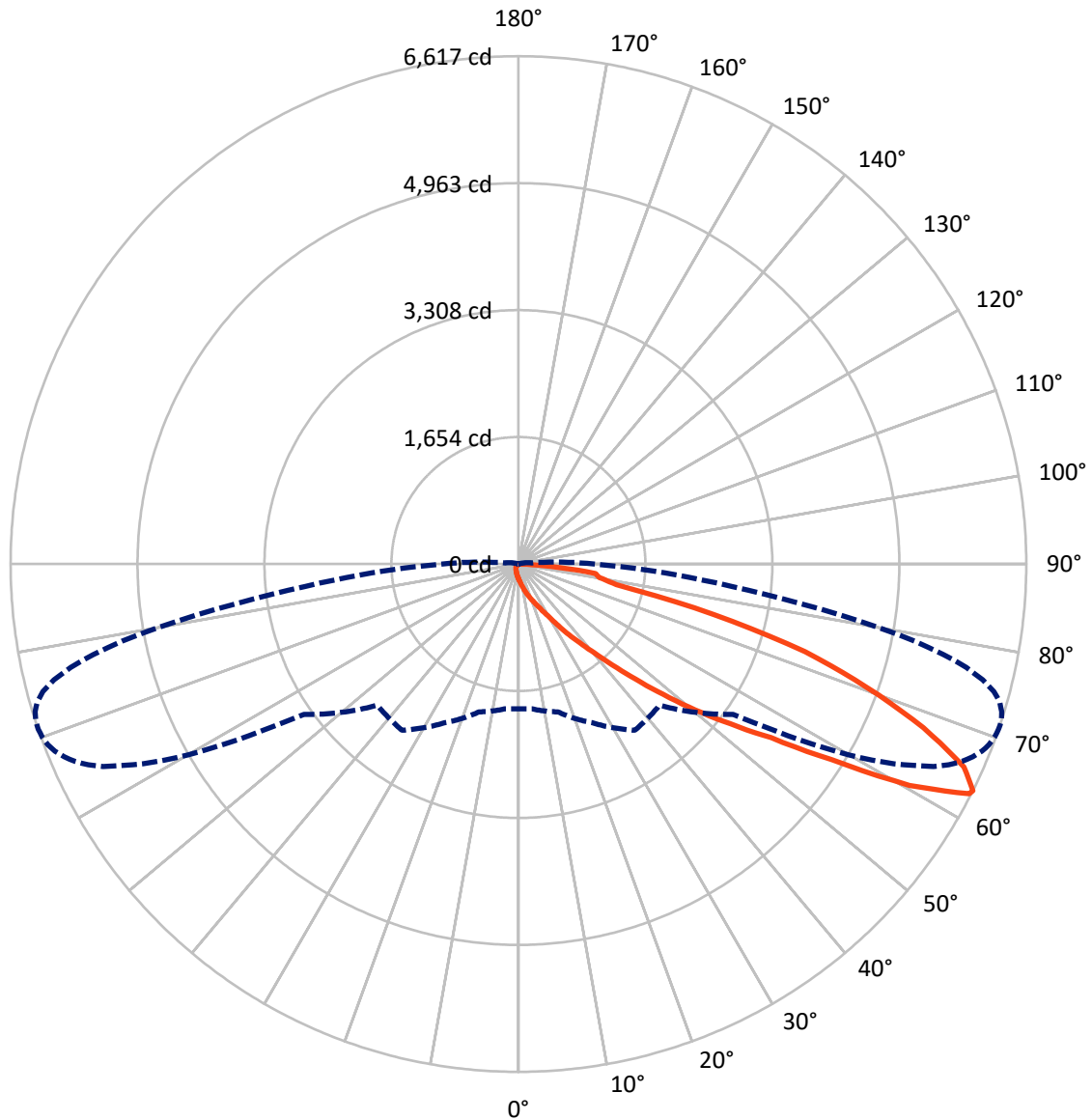
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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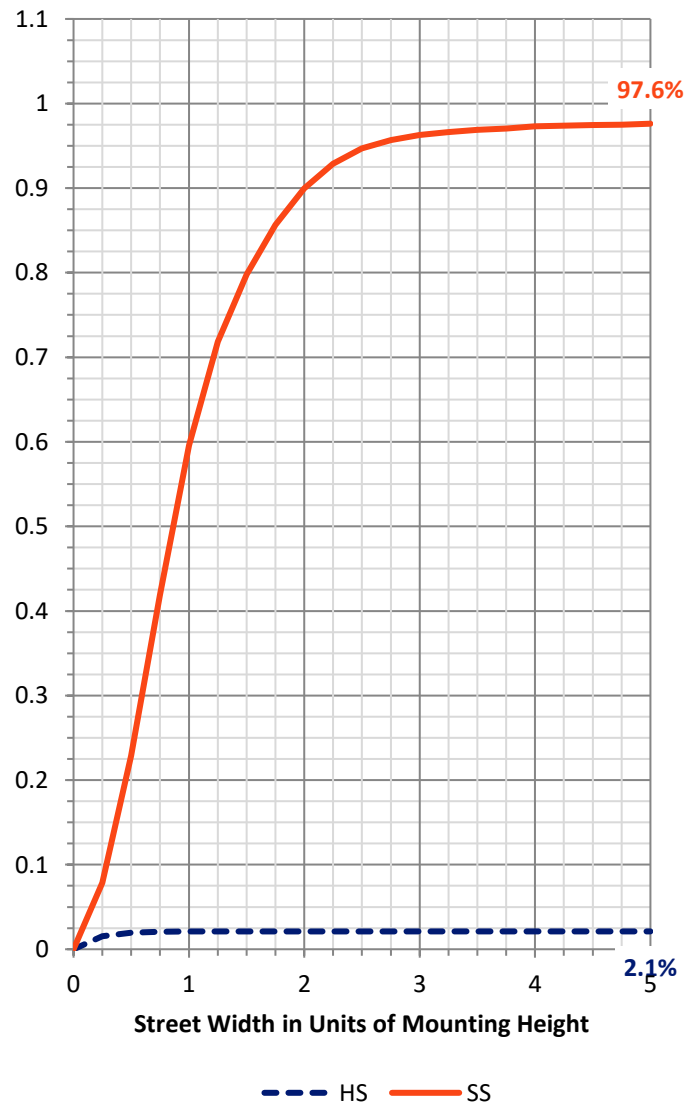
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	105.2	0.0	105.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4851.5	0.0	4851.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	4956.7	0.0	4956.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	0.4
10°-20°	81.5	1.6
20°-30°	165.5	3.3
30°-40°	404.4	8.2
40°-50°	904.5	18.2
50°-60°	1271.8	25.7
60°-70°	1495.6	30.2
70°-80°	540.0	10.9
80°-90°	72.2	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°	4956.7	100.0
0°-180°	4956.7	100.0



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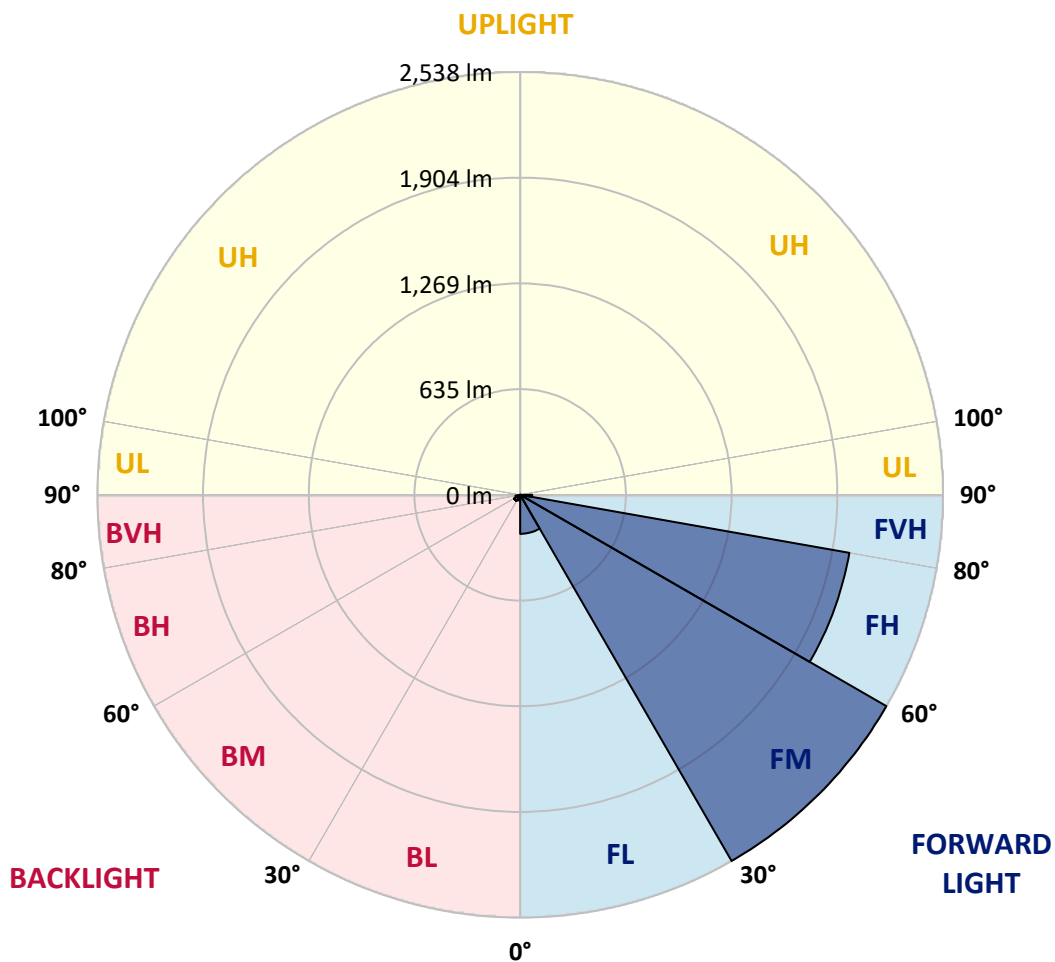
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.2	4.7			
FM (30°-60°)	2538.4	51.2			
FH (60°-80°)	2006.8	40.5			G2/5000
FVH (80°-90°)	72.1	1.5			G1/100
BL (0°-30°)	33.8	0.7	B0/110		
BM (30°-60°)	42.4	0.9	B0/220		
BH (60°-80°)	28.9	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°	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1
2.5°	248.7	251.4	249.6	245.1	239.7	232.5	226.2	226.2	225.3	222.6	223.5
5°	326.2	327.1	323.5	312.7	302.8	287.4	270.3	268.5	266.7	264.0	263.1
7.5°	401.9	405.5	401.9	390.2	370.3	346.9	319.9	317.2	311.8	311.8	308.2
10°	479.4	479.4	475.8	462.2	444.2	410.9	376.7	372.2	365.9	364.0	358.6
12.5°	534.4	534.4	532.5	525.3	510.9	481.2	439.7	435.2	427.1	424.4	418.1
15°	556.0	556.0	556.9	563.2	564.1	550.6	507.3	503.7	495.6	488.4	485.7
17.5°	569.5	568.6	568.6	577.6	593.8	602.8	574.9	571.3	562.3	558.7	549.7
20°	599.2	597.4	592.0	592.0	607.3	638.9	638.9	638.0	628.1	625.4	620.9
22.5°	643.4	641.6	625.4	611.8	619.0	658.7	695.7	693.8	690.3	686.6	683.9
25°	715.5	709.2	681.2	641.6	635.3	677.6	738.9	743.4	746.1	746.1	747.9
27.5°	824.5	816.4	766.9	692.9	665.0	708.3	786.6	795.7	803.8	805.6	813.7
30°	975.9	961.5	890.3	782.2	718.2	753.3	856.9	866.9	878.6	882.2	894.8
32.5°	1224.6	1216.5	1148.0	985.8	848.8	841.7	955.1	967.8	983.1	989.4	1004.7
35°	1603.0	1604.9	1549.0	1403.0	1213.8	1114.7	1130.9	1141.7	1147.1	1166.0	1174.1
37.5°	1859.9	1864.4	1877.0	1819.3	1684.1	1583.3	1456.2	1467.9	1440.0	1442.7	1443.6
40°	2000.5	2014.8	2088.8	2144.6	2133.8	2075.2	1973.4	1979.7	1927.4	1915.7	1858.9
42.5°	2094.2	2113.1	2231.1	2404.1	2492.5	2545.6	2522.2	2519.5	2478.9	2463.6	2415.8
45°	2152.7	2169.9	2318.5	2573.6	2777.2	2932.2	2996.2	3003.4	2969.2	2953.8	2914.1
47.5°	2150.0	2169.9	2329.3	2636.6	2936.7	3184.5	3364.7	3373.7	3394.4	3381.0	3383.6
50°	2031.1	2050.0	2210.4	2529.4	2889.8	3299.9	3629.7	3658.5	3691.8	3714.3	3725.1
52.5°	1886.9	1900.4	2042.8	2345.5	2689.8	3252.1	3786.5	3836.0	3885.6	3927.9	3957.6
55°	1833.8	1849.1	1960.8	2212.2	2529.4	3052.0	3859.4	3932.4	4002.7	4072.1	4128.9
57.5°	1861.7	1876.1	1956.3	2149.1	2433.9	2841.2	3880.1	3993.7	4109.0	4221.7	4333.4
60°	1964.4	1979.7	2048.2	2207.7	2408.6	2719.5	3799.0	3987.4	4179.3	4375.8	4560.5
62.5°	1923.8	1930.2	2031.1	2310.4	2588.8	2615.9	3504.4	3767.5	4060.4	4363.1	4661.4
63°	1885.1	1892.3	1995.1	2282.5	2643.9	2600.6	3413.4	3690.9	4000.0	4326.2	4650.6
65°	1709.4	1710.3	1788.7	2015.7	2582.5	2627.6	3007.9	3272.8	3627.8	4018.9	4428.9
67.5°	1276.0	1269.7	1345.4	1518.4	2027.5	2628.5	2581.7	2730.3	2977.2	3324.2	3691.8
70°	452.4	442.5	565.0	804.7	1263.3	2150.0	2218.5	2228.4	2296.9	2484.3	2715.0
72.5°	146.9	149.6	180.2	294.6	582.1	1447.1	2008.5	1977.9	1959.9	1959.0	1989.7
75°	58.6	59.5	72.1	130.7	261.3	697.5	1759.0	1776.1	1782.4	1791.4	1801.3
77.5°	27.9	30.7	40.5	73.0	129.8	345.1	1258.9	1403.9	1486.8	1550.8	1589.6
80°	9.9	11.7	22.5	45.0	60.4	158.6	663.2	800.2	921.8	1078.6	1213.8
82.5°	0.0	0.0	4.5	31.5	33.3	64.0	272.1	319.0	364.9	473.1	607.3
85°	0.0	0.0	0.0	9.0	9.9	10.8	91.9	110.8	124.4	145.1	167.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	5.4	13.5	20.7
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1
2.5°	221.7	220.8	220.8	218.9	218.1	216.3	215.4	212.6	211.8	211.8	211.8
5°	262.2	258.6	256.8	252.3	249.6	248.7	244.2	242.4	239.7	240.6	236.1
7.5°	307.3	301.0	298.3	292.0	290.2	283.8	282.0	277.5	274.8	269.4	267.6
10°	356.8	348.7	344.2	334.3	331.6	327.1	321.7	316.3	311.8	306.4	303.7
12.5°	413.6	406.4	402.8	389.3	383.0	376.7	369.4	362.2	355.1	350.5	344.2
15°	480.3	468.6	465.0	452.4	441.6	433.4	423.5	414.5	409.1	400.1	393.8
17.5°	546.1	534.4	531.6	512.7	501.0	495.6	484.8	473.1	463.2	454.2	444.2
20°	611.8	603.8	596.5	578.5	565.9	556.9	542.5	530.7	522.7	510.0	497.4
22.5°	677.6	669.5	664.1	645.2	633.5	620.9	608.2	595.6	583.9	568.6	554.2
25°	745.2	739.8	737.1	720.0	709.2	697.5	684.9	670.4	656.0	638.9	623.6
27.5°	815.5	817.3	811.9	808.3	796.6	788.5	768.6	758.7	747.9	727.2	708.3
30°	904.7	910.1	908.3	911.0	903.8	898.4	883.1	870.5	857.9	838.0	816.4
32.5°	1017.3	1024.5	1028.2	1038.1	1034.5	1032.7	1028.2	1010.2	1001.1	966.9	957.9
35°	1191.3	1187.6	1203.0	1211.1	1207.5	1205.7	1200.3	1190.4	1179.5	1155.2	1132.7
37.5°	1417.4	1421.1	1426.5	1410.2	1399.4	1398.5	1382.3	1372.4	1357.1	1330.0	1303.0
40°	1831.9	1809.4	1784.2	1715.7	1686.0	1668.8	1621.1	1607.6	1581.4	1544.5	1516.5
42.5°	2370.8	2348.3	2272.6	2158.2	2096.8	2012.2	1973.4	1925.7	1888.7	1828.3	1795.9
45°	2906.1	2841.2	2832.1	2698.8	2623.1	2511.4	2442.0	2361.8	2278.0	2198.7	2141.0
47.5°	3357.5	3343.1	3299.0	3217.9	3147.6	3053.8	2964.6	2841.2	2754.7	2642.0	2538.4
50°	3718.8	3717.9	3701.7	3654.9	3596.3	3520.6	3442.2	3337.7	3239.5	3101.6	2990.8
52.5°	3989.2	4003.6	4009.0	3994.6	3972.1	3905.4	3865.7	3778.3	3695.4	3578.3	3458.4
55°	4187.4	4240.6	4267.6	4298.2	4291.9	4268.5	4266.7	4210.0	4172.1	4079.3	3994.6
57.5°	4432.5	4519.9	4603.7	4752.4	4757.8	4810.1	4837.1	4864.2	4871.4	4834.4	4806.5
60°	4744.3	4922.7	5081.3	5392.2	5473.3	5601.3	5684.1	5774.3	5850.9	5857.1	5855.4
62.5°	4964.2	5239.0	5494.9	5956.3	6114.0	6261.8	6372.6	6460.0	6513.1	6567.2	6592.5
63°	4970.5	5271.4	5543.6	6019.3	6185.2	6325.7	6431.1	6512.2	6568.2	6600.6	6616.8
65°	4818.2	5183.2	5507.6	5981.5	6137.4	6278.9	6333.8	6387.0	6414.0	6426.6	6378.9
67.5°	4083.8	4440.7	4819.1	5348.9	5482.3	5651.7	5696.8	5723.8	5736.4	5733.7	5693.2
70°	3053.8	3353.0	3773.8	4379.3	4556.0	4721.7	4824.5	4868.7	4883.1	4878.5	4818.2
72.5°	2132.0	2307.7	2654.7	3328.7	3569.3	3781.9	3909.0	3974.7	3988.3	3961.2	3905.4
75°	1790.5	1799.5	1877.9	2246.4	2471.7	2698.8	2842.1	2883.5	2856.5	2774.5	2632.1
77.5°	1598.5	1618.4	1618.4	1673.3	1717.5	1780.6	1794.1	1693.2	1576.0	1424.6	1302.1
80°	1340.9	1410.2	1458.9	1499.4	1503.9	1491.3	1458.0	1401.2	1311.1	1195.8	1067.8
82.5°	814.6	951.6	1007.4	1216.5	1319.2	1388.6	1383.2	1307.5	1239.0	1119.2	1010.2
85°	205.5	221.7	240.6	312.7	350.5	428.0	476.7	499.2	507.3	465.9	421.7
87.5°	19.8	13.5	22.5	17.1	24.3	18.0	24.3	22.5	27.9	29.7	32.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1
2.5°	210.0	209.1	208.1	207.2	206.3	205.5	203.7	203.7	201.8	200.9	200.0
5°	233.4	231.6	230.7	228.9	226.2	224.3	221.7	218.1	215.4	214.5	212.6
7.5°	263.1	258.6	256.8	254.1	250.5	245.1	241.5	238.8	234.3	231.6	226.2
10°	296.5	292.0	286.6	281.1	275.7	269.4	264.9	261.3	254.1	250.5	244.2
12.5°	338.8	330.7	324.4	317.2	310.0	302.8	297.4	286.6	280.3	272.1	266.7
15°	382.1	374.8	367.7	358.6	347.8	336.1	330.7	320.8	312.7	300.0	292.9
17.5°	434.3	420.8	410.0	399.2	389.3	378.5	367.7	352.3	340.6	329.8	315.4
20°	485.7	469.5	457.8	443.3	428.9	411.8	399.2	388.4	372.2	357.7	342.4
22.5°	540.7	524.4	505.5	491.1	471.3	457.8	440.6	422.6	406.4	387.5	368.5
25°	607.3	590.2	568.6	549.7	527.1	508.2	487.5	466.8	447.0	425.3	401.0
27.5°	689.3	671.3	647.9	625.4	595.6	572.2	552.4	524.4	499.2	472.2	444.2
30°	793.0	773.2	744.3	711.9	682.1	656.0	628.1	591.1	563.2	530.7	494.7
32.5°	928.1	904.7	866.0	835.3	798.4	764.1	725.4	688.4	648.8	606.4	565.0
35°	1098.4	1076.8	1031.8	986.7	946.2	905.6	856.9	814.6	758.7	707.4	654.2
37.5°	1275.1	1236.3	1194.9	1146.2	1095.7	1047.1	987.6	929.1	865.1	809.2	742.5
40°	1476.9	1430.0	1395.8	1343.5	1272.4	1203.0	1148.0	1075.0	994.8	920.0	841.7
42.5°	1753.5	1701.3	1640.0	1560.7	1509.4	1428.3	1357.1	1270.6	1165.1	1081.3	986.7
45°	2073.4	2002.3	1942.8	1866.2	1804.0	1703.1	1620.2	1504.8	1399.4	1289.5	1174.1
47.5°	2438.4	2350.1	2263.6	2187.9	2088.8	1989.7	1884.2	1761.7	1626.5	1505.7	1368.8
50°	2857.4	2732.2	2612.3	2515.0	2378.9	2264.4	2150.0	2012.2	1862.6	1723.8	1567.9
52.5°	3323.3	3178.2	3019.6	2870.0	2712.3	2565.4	2427.6	2269.0	2102.2	1932.9	1759.0
55°	3885.6	3776.5	3590.0	3399.8	3189.0	2992.6	2815.0	2618.6	2415.8	2193.3	2010.3
57.5°	4765.9	4712.8	4556.9	4366.7	4091.9	3853.1	3552.1	3311.6	3017.8	2711.4	2475.3
60°	5959.0	5893.2	5805.8	5651.7	5433.6	5109.2	4777.7	4403.7	3956.7	3532.3	3129.5
62.5°	6595.2	6571.7	6500.5	6394.2	6190.6	5934.7	5600.4	5189.5	4684.8	4169.4	3655.7
63°	6614.1	6584.4	6523.1	6414.9	6235.6	5987.8	5659.8	5260.6	4766.8	4241.5	3717.1
65°	6358.2	6346.5	6284.3	6166.2	6043.7	5854.5	5600.4	5257.0	4842.5	4346.0	3824.3
67.5°	5639.1	5603.9	5508.4	5472.4	5386.8	5255.2	5061.5	4825.4	4528.9	4138.8	3688.2
70°	4769.5	4717.3	4597.4	4533.5	4428.9	4346.0	4228.0	4059.5	3876.5	3604.4	3268.3
72.5°	3847.7	3739.6	3629.7	3462.9	3317.0	3169.2	3038.5	2919.5	2718.6	2608.7	2353.7
75°	2498.8	2302.3	2114.0	1861.7	1634.6	1433.7	1238.1	1139.0	932.6	848.8	729.0
77.5°	1185.8	1075.9	928.1	813.7	667.7	545.2	445.1	334.3	262.2	205.5	156.8
80°	957.0	864.2	774.9	671.3	561.4	447.9	343.3	256.8	182.0	126.1	89.2
82.5°	853.4	752.4	642.5	571.3	496.5	406.4	333.4	272.1	200.9	146.9	100.0
85°	331.6	279.4	215.4	175.7	137.0	112.6	101.8	70.3	55.0	43.3	33.3
87.5°	28.8	23.4	18.9	12.6	13.5	7.2	8.1	5.4	4.5	4.5	3.6
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°	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1	190.1
2.5°	199.2	198.3	197.3	195.5	195.5	193.7	192.9	191.9	187.4	177.5	169.4
5°	209.1	207.2	205.5	202.7	200.9	198.3	196.4	193.7	183.8	164.9	148.7
7.5°	223.5	219.9	217.2	211.8	209.1	205.5	202.7	198.3	182.0	153.2	130.7
10°	240.6	234.3	229.8	223.5	218.1	213.5	209.1	202.7	180.2	140.6	114.4
12.5°	261.3	254.1	245.1	237.9	230.7	224.3	218.1	210.0	177.5	129.8	101.8
15°	282.0	271.2	264.9	255.0	245.1	236.1	227.1	219.9	178.4	118.1	91.0
17.5°	305.4	294.6	281.1	270.3	259.5	247.8	237.0	222.6	173.9	109.0	82.9
20°	328.0	312.7	300.0	286.6	271.2	256.8	243.3	230.7	170.3	100.0	75.7
22.5°	352.3	334.3	318.1	301.0	282.0	265.8	249.6	233.4	164.0	91.9	69.4
25°	382.1	361.4	337.9	317.2	297.4	277.5	256.8	237.0	157.7	84.7	64.9
27.5°	418.1	391.1	367.7	341.5	313.6	288.3	265.8	244.2	151.4	79.3	60.4
30°	464.1	432.5	399.2	365.9	336.1	307.3	275.7	248.7	145.1	73.9	55.9
32.5°	525.3	485.7	445.1	406.4	366.8	329.8	296.5	261.3	141.5	69.4	51.3
35°	606.4	555.1	505.5	456.8	409.1	364.0	320.8	281.1	141.5	64.0	45.9
37.5°	683.0	623.6	560.5	500.1	443.3	391.1	339.7	292.0	134.3	59.5	41.5
40°	766.0	694.7	620.9	549.7	481.2	416.3	357.7	302.8	128.0	54.1	37.0
42.5°	893.0	802.9	706.5	623.6	541.6	461.4	388.4	323.5	119.8	48.7	32.4
45°	1059.7	945.3	831.7	730.8	626.3	528.1	441.6	361.4	118.1	44.1	27.9
47.5°	1238.1	1103.0	969.6	840.7	718.2	603.8	500.1	403.7	118.1	39.6	24.3
50°	1415.7	1246.2	1103.9	954.2	816.4	681.2	557.8	447.9	118.9	36.1	19.8
52.5°	1576.0	1394.9	1235.4	1062.4	910.1	753.3	619.0	491.1	117.2	31.5	16.2
55°	1798.6	1585.9	1401.2	1210.2	1031.8	855.1	702.9	556.0	118.1	27.9	13.5
57.5°	2208.6	1959.0	1736.4	1485.9	1280.5	1052.5	867.7	689.3	128.9	23.4	9.9
60°	2797.0	2472.6	2159.9	1854.5	1593.1	1321.9	1082.2	872.3	151.4	18.9	7.2
62.5°	3192.6	2768.2	2395.2	2058.1	1754.4	1470.6	1209.3	970.5	166.7	15.3	4.5
63°	3233.1	2794.3	2419.5	2071.6	1761.7	1477.8	1214.7	977.7	167.6	14.4	4.5
65°	3309.8	2839.4	2433.0	2074.3	1754.4	1467.9	1211.1	976.8	169.4	11.7	3.6
67.5°	3222.3	2770.0	2354.6	1996.8	1691.4	1409.3	1166.0	940.8	168.5	8.1	2.7
70°	2881.7	2506.9	2141.9	1808.5	1531.0	1276.0	1061.5	857.9	155.0	5.4	1.8
72.5°	2115.8	1860.8	1577.9	1337.2	1153.4	957.9	817.3	644.3	119.8	3.6	0.9
75°	627.2	571.3	480.3	423.5	374.0	309.1	274.8	214.5	61.3	1.8	0.0
77.5°	125.2	113.5	101.8	92.8	87.4	74.8	71.2	58.6	25.2	0.9	0.0
80°	65.8	54.1	45.9	40.5	35.1	28.8	24.3	19.8	4.5	0.0	0.0
82.5°	63.1	42.4	30.7	25.2	21.6	17.1	13.5	9.9	2.7	0.0	0.0
85°	23.4	18.0	13.5	10.8	9.0	8.1	6.3	5.4	0.0	0.0	0.0
87.5°	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9	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°	190.1	190.1	190.1	190.1	190.1	190.1	190.1
2.5°	161.3	154.1	150.5	146.0	146.0	145.1	146.9
5°	134.3	124.4	117.2	111.8	112.6	109.9	110.8
7.5°	113.5	103.6	97.3	93.7	92.8	91.9	91.9
10°	98.2	89.2	83.8	81.1	80.2	80.2	80.2
12.5°	87.4	78.4	73.9	72.1	72.1	71.2	71.2
15°	78.4	71.2	66.7	64.9	64.9	64.0	64.9
17.5°	71.2	64.0	60.4	58.6	58.6	57.7	57.7
20°	64.9	58.6	55.0	52.3	52.3	51.3	52.3
22.5°	59.5	53.2	48.7	46.9	45.9	45.0	45.9
25°	54.1	47.8	43.3	40.5	39.6	39.6	38.7
27.5°	49.6	43.3	37.8	35.1	34.2	34.2	33.3
30°	45.0	37.8	32.4	29.7	28.8	28.8	28.8
32.5°	40.5	32.4	27.9	25.2	24.3	24.3	24.3
35°	36.1	27.9	23.4	20.7	19.8	19.8	19.8
37.5°	30.7	23.4	18.0	16.2	15.3	14.4	14.4
40°	26.1	18.0	13.5	11.7	9.9	9.9	9.9
42.5°	21.6	14.4	9.9	7.2	6.3	5.4	6.3
45°	18.0	10.8	6.3	3.6	2.7	2.7	2.7
47.5°	14.4	7.2	2.7	0.9	0.9	0.9	0.9
50°	10.8	4.5	0.9	0.0	0.0	0.9	0.9
52.5°	8.1	2.7	0.0	0.0	0.0	0.0	0.0
55°	4.5	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	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)