

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: P163270

Luminaire Tested: **LDRL-SL2-F05-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163270
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-8030-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, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6195.9 lumens
Efficiency: N/A
Efficacy: 46.5 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

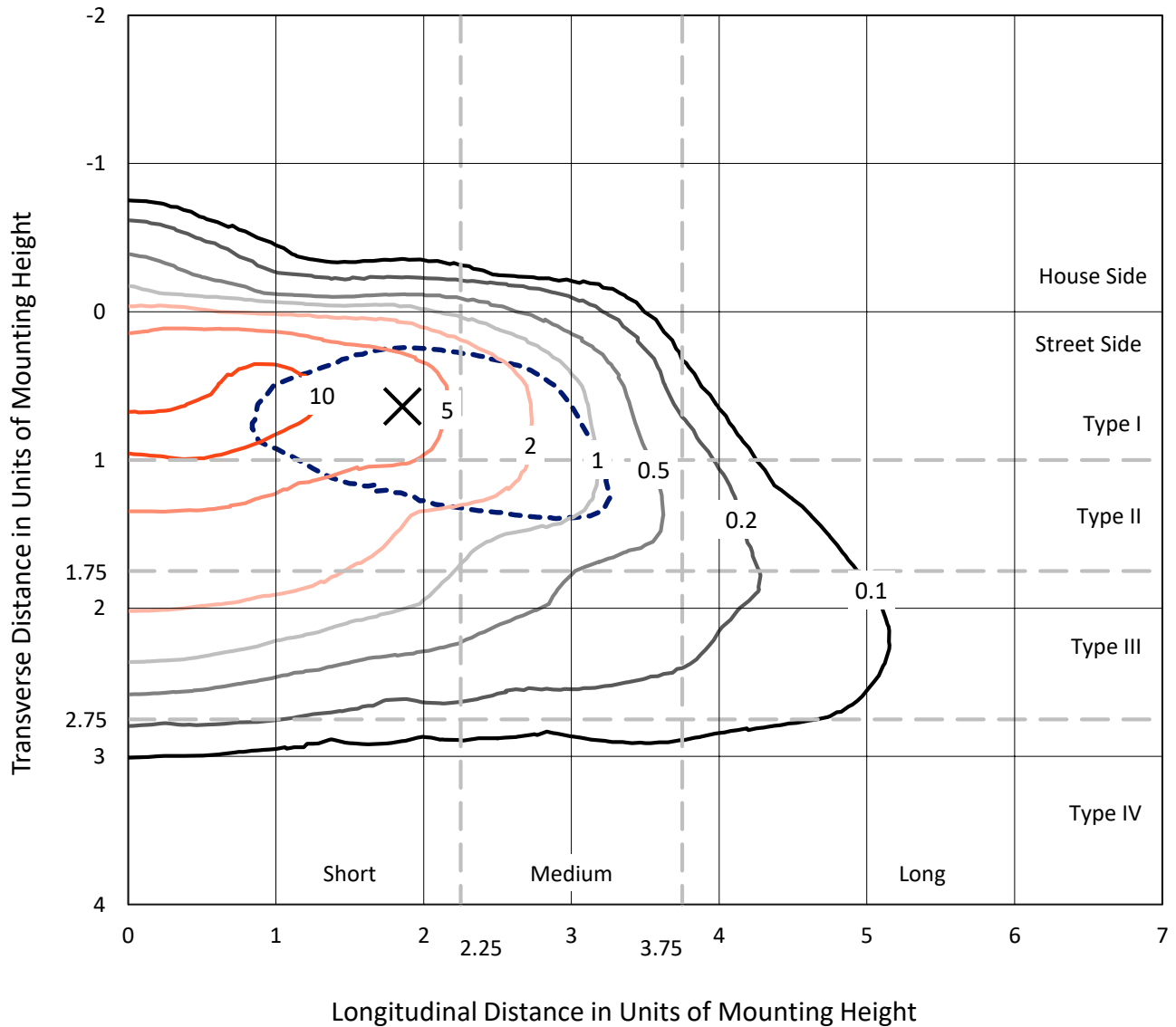


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Iso-Footcandle Lines of Horizontal Illumination

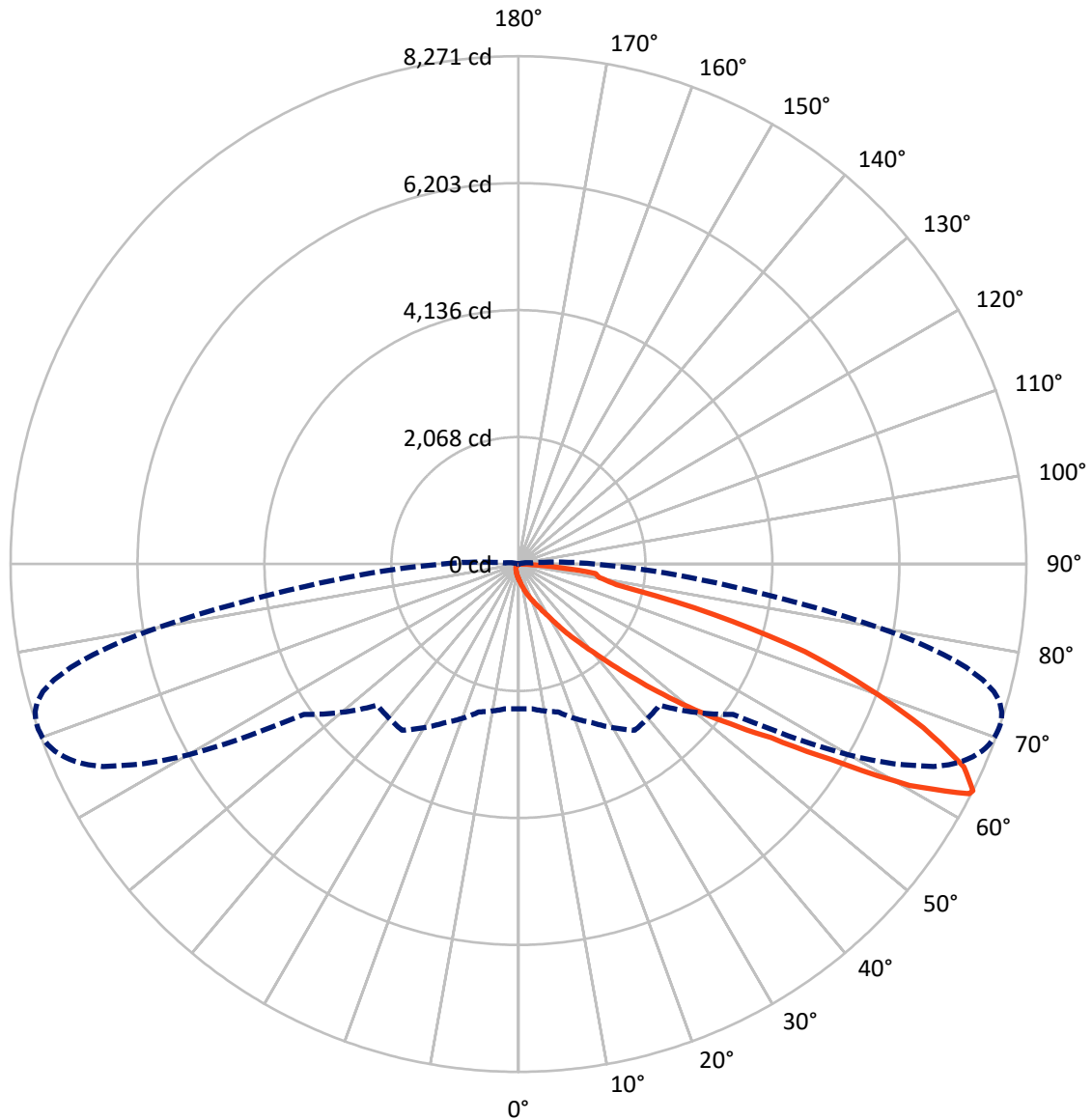
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 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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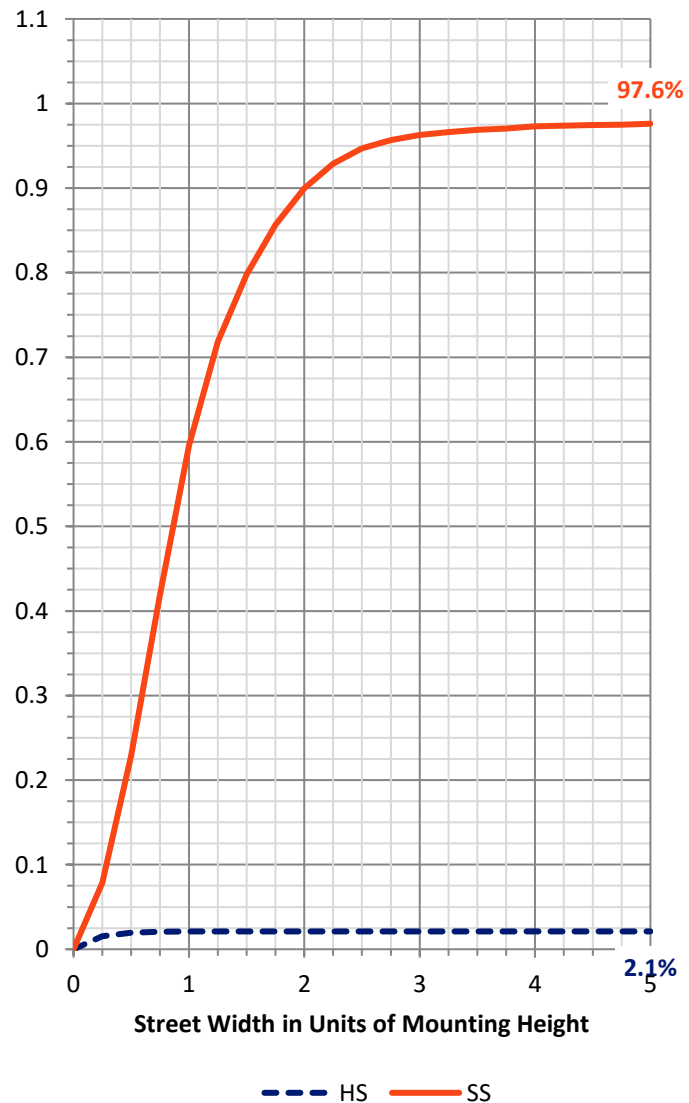
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	131.5	0.0	131.5
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6064.3	0.0	6064.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	6195.9	0.0	6195.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.4
10°-20°	101.9	1.6
20°-30°	206.9	3.3
30°-40°	505.6	8.2
40°-50°	1130.6	18.2
50°-60°	1589.8	25.7
60°-70°	1869.5	30.2
70°-80°	675.1	10.9
80°-90°	90.3	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°	6195.9	100.0
0°-180°	6195.9	100.0



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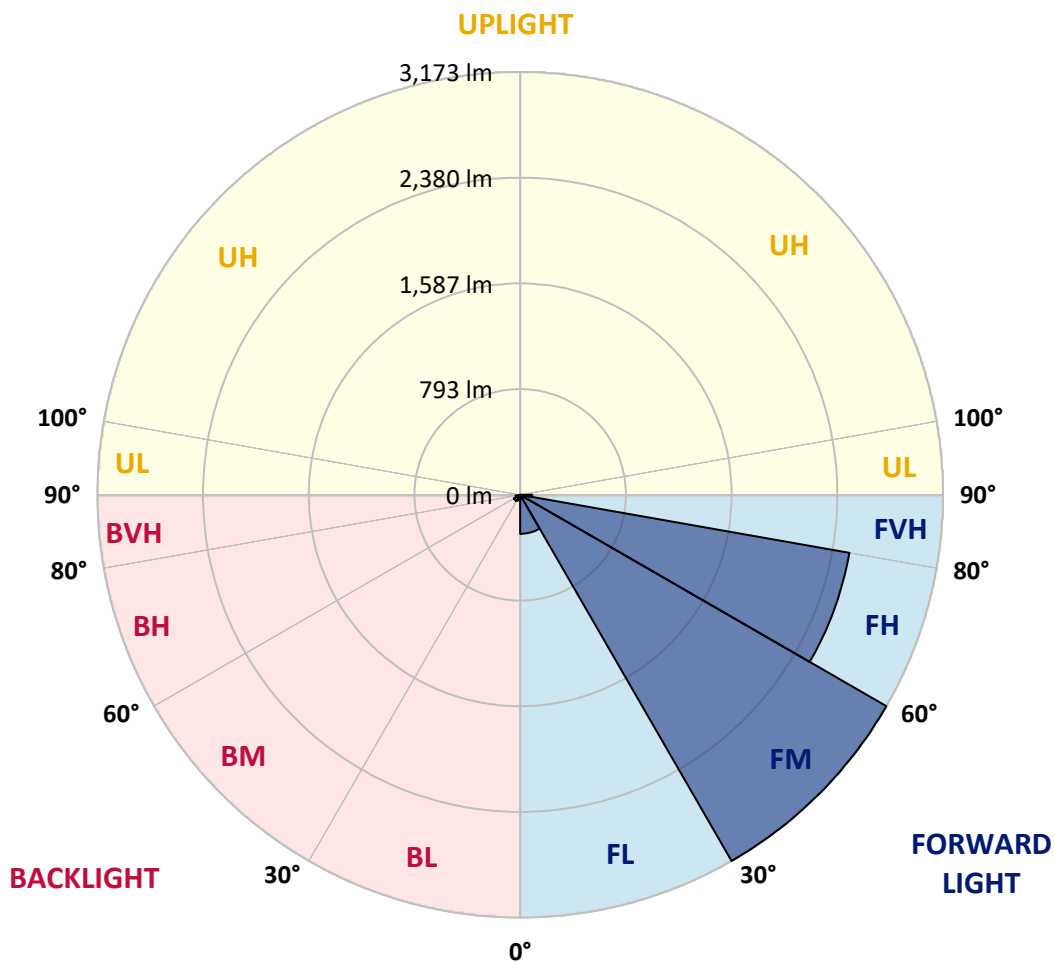
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.8	4.7			
FM	(30°-60°)	3173.0	51.2			
FH	(60°-80°)	2508.5	40.5			G2/5000
FVH	(80°-90°)	90.1	1.5			G1/100
BL	(0°-30°)	42.3	0.7	B0/110		
BM	(30°-60°)	53.0	0.9	B0/220		
BH	(60°-80°)	36.1	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°	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7
2.5°	310.9	314.2	312.0	306.4	299.6	290.6	282.7	282.7	281.6	278.2	279.3
5°	407.7	408.8	404.4	390.9	378.5	359.3	337.9	335.7	333.4	330.0	328.9
7.5°	502.3	506.9	502.3	487.7	462.9	433.6	399.9	396.5	389.8	389.8	385.2
10°	599.3	599.3	594.7	577.8	555.3	513.6	470.9	465.2	457.3	455.0	448.3
12.5°	668.0	668.0	665.7	656.7	638.6	601.5	549.7	544.0	533.9	530.5	522.6
15°	695.0	695.0	696.1	704.0	705.1	688.2	634.2	629.6	619.5	610.5	607.1
17.5°	711.9	710.7	710.7	722.0	742.3	753.5	718.6	714.2	702.9	698.3	687.1
20°	749.1	746.8	740.0	740.0	759.2	798.6	798.6	797.5	785.1	781.7	776.1
22.5°	804.2	802.0	781.7	764.8	773.8	823.4	869.6	867.3	862.8	858.3	854.9
25°	894.3	886.5	851.6	802.0	794.1	847.0	923.7	929.2	932.7	932.7	934.9
27.5°	1030.6	1020.5	958.6	866.2	831.3	885.3	983.3	994.6	1004.8	1007.0	1017.1
30°	1219.8	1201.9	1112.9	977.7	897.7	941.6	1071.2	1083.6	1098.2	1102.7	1118.5
32.5°	1530.7	1520.6	1435.0	1232.2	1061.1	1052.1	1193.9	1209.7	1228.9	1236.8	1255.9
35°	2003.8	2006.1	1936.2	1753.8	1517.2	1393.3	1413.6	1427.1	1433.9	1457.5	1467.7
37.5°	2324.9	2330.4	2346.3	2274.1	2105.2	1979.1	1820.2	1834.9	1799.9	1803.4	1804.5
40°	2500.6	2518.6	2610.9	2680.8	2667.2	2594.0	2466.8	2474.7	2409.3	2394.7	2323.7
42.5°	2617.7	2641.3	2788.9	3005.2	3115.6	3182.0	3152.7	3149.4	3098.7	3079.5	3019.8
45°	2690.9	2712.3	2898.1	3217.0	3471.5	3665.2	3745.2	3754.2	3711.4	3692.3	3642.7
47.5°	2687.5	2712.3	2911.7	3295.8	3670.9	3980.6	4205.9	4217.1	4243.0	4226.2	4229.5
50°	2538.8	2562.5	2763.0	3161.7	3612.3	4124.8	4537.1	4573.1	4614.8	4642.9	4656.4
52.5°	2358.7	2375.5	2553.5	2931.9	3362.2	4065.1	4733.1	4795.0	4856.9	4909.9	4947.0
55°	2292.2	2311.4	2451.0	2765.3	3161.7	3815.0	4824.3	4915.5	5003.4	5090.1	5161.1
57.5°	2327.1	2345.1	2445.3	2686.4	3042.4	3551.5	4850.2	4992.1	5136.3	5277.1	5416.8
60°	2455.5	2474.7	2560.2	2759.6	3010.8	3399.4	4748.8	4984.2	5224.1	5469.7	5700.6
62.5°	2404.8	2412.7	2538.8	2888.0	3236.1	3269.8	4380.5	4709.4	5075.4	5453.9	5826.7
63°	2356.4	2365.4	2493.8	2853.1	3304.8	3250.8	4266.7	4613.6	5000.0	5407.7	5813.2
65°	2136.7	2137.9	2235.9	2519.7	3228.2	3284.6	3759.9	4091.0	4534.8	5023.7	5536.1
67.5°	1595.0	1587.1	1681.7	1898.0	2534.4	3285.7	3227.1	3412.9	3721.5	4155.2	4614.8
70°	565.5	553.1	706.2	1005.9	1579.2	2687.5	2773.1	2785.5	2871.1	3105.4	3393.8
72.5°	183.6	187.0	225.3	368.3	727.7	1808.9	2510.7	2472.4	2449.9	2448.7	2487.1
75°	73.2	74.3	90.1	163.3	326.6	871.8	2198.7	2220.1	2228.0	2239.2	2251.6
77.5°	34.9	38.3	50.7	91.2	162.2	431.4	1573.6	1754.9	1858.5	1938.5	1987.0
80°	12.4	14.6	28.1	56.3	75.5	198.2	829.0	1000.2	1152.3	1348.3	1517.2
82.5°	0.0	0.0	5.6	39.4	41.7	80.0	340.1	398.7	456.2	591.3	759.2
85°	0.0	0.0	0.0	11.3	12.4	13.5	114.9	138.5	155.4	181.4	209.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	6.8	16.9	25.9
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°	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7
2.5°	277.1	276.0	276.0	273.7	272.6	270.3	269.2	265.8	264.7	264.7	264.7
5°	327.7	323.3	321.0	315.4	312.0	310.9	305.2	303.0	299.6	300.7	295.1
7.5°	384.1	376.2	372.8	365.0	362.7	354.8	352.5	346.9	343.6	336.8	334.5
10°	446.1	435.9	430.3	417.9	414.5	408.8	402.1	395.3	389.8	383.0	379.6
12.5°	517.0	508.0	503.5	486.6	478.7	470.9	461.8	452.8	443.8	438.2	430.3
15°	600.4	585.7	581.2	565.5	552.0	541.8	529.4	518.2	511.4	500.1	492.2
17.5°	682.6	668.0	664.5	640.9	626.3	619.5	606.0	591.3	579.0	567.7	555.3
20°	764.8	754.7	745.6	723.1	707.4	696.1	678.1	663.4	653.3	637.5	621.8
22.5°	847.0	836.9	830.2	806.5	791.8	776.1	760.3	744.5	729.9	710.7	692.7
25°	931.5	924.8	921.4	900.0	886.5	871.8	856.1	838.0	820.0	798.6	779.4
27.5°	1019.4	1021.6	1014.9	1010.3	995.7	985.6	960.8	948.4	934.9	909.0	885.3
30°	1130.9	1137.6	1135.4	1138.7	1129.8	1123.0	1103.8	1088.1	1072.3	1047.5	1020.5
32.5°	1271.7	1280.7	1285.2	1297.6	1293.1	1290.8	1285.2	1262.7	1251.4	1208.6	1197.3
35°	1489.1	1484.5	1503.7	1513.9	1509.3	1507.1	1500.4	1487.9	1474.4	1444.0	1415.8
37.5°	1771.8	1776.3	1783.1	1762.8	1749.3	1748.1	1727.8	1715.5	1696.3	1662.6	1628.8
40°	2289.9	2261.7	2230.3	2144.6	2107.5	2086.0	2026.4	2009.5	1976.8	1930.6	1895.7
42.5°	2963.5	2935.3	2840.7	2697.7	2621.0	2515.2	2466.8	2407.1	2360.9	2285.4	2244.9
45°	3632.6	3551.5	3540.2	3373.5	3278.9	3139.2	3052.5	2952.2	2847.5	2748.3	2676.3
47.5°	4196.9	4178.9	4123.7	4022.3	3934.5	3817.3	3705.8	3551.5	3443.3	3302.5	3173.0
50°	4648.5	4647.4	4627.2	4568.6	4495.4	4400.8	4302.8	4172.1	4049.4	3877.0	3738.5
52.5°	4986.5	5004.5	5011.3	4993.2	4965.1	4881.7	4832.1	4722.9	4619.3	4472.8	4323.0
55°	5234.3	5300.8	5334.6	5372.8	5364.9	5335.7	5333.4	5262.4	5215.1	5099.1	4993.2
57.5°	5540.7	5649.9	5754.7	5940.5	5947.3	6012.6	6046.4	6080.2	6089.2	6043.0	6008.1
60°	5930.4	6153.4	6351.7	6740.2	6841.6	7001.6	7105.2	7217.8	7313.6	7321.4	7319.2
62.5°	6205.2	6548.8	6868.6	7445.4	7642.5	7827.2	7965.7	8075.0	8141.4	8209.0	8240.6
63°	6213.1	6589.3	6929.5	7524.2	7731.5	7907.2	8038.9	8140.3	8210.2	8250.7	8271.0
65°	6022.7	6478.9	6884.4	7476.9	7671.8	7848.6	7917.3	7983.8	8017.5	8033.3	7973.7
67.5°	5104.8	5550.8	6023.8	6686.2	6852.9	7064.6	7121.0	7154.8	7170.5	7167.1	7116.5
70°	3817.3	4191.3	4717.2	5474.2	5695.0	5902.2	6030.6	6085.8	6103.8	6098.2	6022.7
72.5°	2665.0	2884.6	3318.3	4160.8	4461.6	4727.4	4886.2	4968.4	4985.4	4951.6	4881.7
75°	2238.1	2249.4	2347.4	2808.1	3089.7	3373.5	3552.6	3604.4	3570.6	3468.1	3290.1
77.5°	1998.2	2023.0	2023.0	2091.7	2146.9	2225.7	2242.7	2116.5	1970.0	1780.8	1627.6
80°	1676.1	1762.8	1823.6	1874.3	1879.9	1864.2	1822.5	1751.5	1638.9	1494.7	1334.7
82.5°	1018.3	1189.5	1259.3	1520.6	1649.0	1735.8	1729.0	1634.4	1548.8	1399.0	1262.7
85°	256.8	277.1	300.7	390.9	438.2	535.0	595.8	624.0	634.2	582.3	527.2
87.5°	24.8	16.9	28.1	21.4	30.4	22.5	30.4	28.1	34.9	37.1	40.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7
2.5°	262.5	261.3	260.2	259.0	257.9	256.8	254.6	254.6	252.3	251.2	250.1
5°	291.7	289.5	288.4	286.1	282.7	280.4	277.1	272.6	269.2	268.1	265.8
7.5°	328.9	323.3	321.0	317.6	313.1	306.4	301.9	298.5	292.8	289.5	282.7
10°	370.6	365.0	358.2	351.4	344.7	336.8	331.2	326.6	317.6	313.1	305.2
12.5°	423.5	413.4	405.5	396.5	387.5	378.5	371.7	358.2	350.3	340.1	333.4
15°	477.6	468.6	459.6	448.3	434.8	420.1	413.4	401.0	390.9	375.1	366.1
17.5°	542.9	526.0	512.5	499.0	486.6	473.1	459.6	440.4	425.8	412.3	394.2
20°	607.1	586.9	572.2	554.2	536.1	514.7	499.0	485.5	465.2	447.2	428.0
22.5°	675.8	655.6	631.9	613.9	589.1	572.2	550.8	528.3	508.0	484.4	460.7
25°	759.2	737.8	710.7	687.1	658.9	635.3	609.4	583.4	558.7	531.7	501.2
27.5°	861.7	839.1	809.9	781.7	744.5	715.3	690.5	655.6	624.0	590.2	555.3
30°	991.2	966.4	930.4	889.9	852.7	820.0	785.1	738.9	704.0	663.4	618.4
32.5°	1160.1	1130.9	1082.4	1044.1	998.0	955.2	906.7	860.5	811.0	758.0	706.2
35°	1373.1	1346.0	1289.7	1233.4	1182.7	1132.0	1071.2	1018.3	948.4	884.2	817.8
37.5°	1593.9	1545.4	1493.6	1432.8	1369.6	1308.8	1234.5	1161.3	1081.3	1011.5	928.1
40°	1846.1	1787.5	1744.8	1679.4	1590.4	1503.7	1435.0	1343.8	1243.5	1150.0	1052.1
42.5°	2191.9	2126.6	2050.0	1950.9	1886.7	1785.3	1696.3	1588.2	1456.4	1351.7	1233.4
45°	2591.8	2502.8	2428.5	2332.7	2255.0	2128.9	2025.2	1881.0	1749.3	1611.8	1467.7
47.5°	3048.0	2937.6	2829.4	2734.8	2610.9	2487.1	2355.2	2202.1	2033.1	1882.2	1711.0
50°	3571.7	3415.2	3265.4	3143.7	2973.7	2830.6	2687.5	2515.2	2328.2	2154.8	1959.9
52.5°	4154.1	3972.7	3774.5	3587.5	3390.4	3206.8	3034.5	2836.2	2627.8	2416.1	2198.7
55°	4856.9	4720.7	4487.5	4249.8	3986.2	3740.7	3518.8	3273.3	3019.8	2741.6	2512.9
57.5°	5957.4	5891.0	5696.1	5458.4	5114.9	4816.4	4440.2	4139.4	3772.3	3389.3	3094.1
60°	7448.7	7366.5	7257.3	7064.6	6792.1	6386.6	5972.1	5504.6	4945.9	4415.4	3911.9
62.5°	8244.0	8214.7	8125.7	7992.7	7738.2	7418.4	7000.5	6486.8	5856.1	5211.7	4569.7
63°	8267.6	8230.5	8153.8	8018.7	7794.5	7484.8	7074.8	6575.8	5958.6	5301.9	4646.3
65°	7947.7	7933.1	7855.3	7707.8	7554.6	7318.1	7000.5	6571.3	6053.2	5432.5	4780.4
67.5°	7048.9	7004.9	6885.6	6840.5	6733.5	6569.0	6326.8	6031.8	5661.2	5173.5	4610.2
70°	5961.9	5896.6	5746.7	5666.8	5536.1	5432.5	5284.9	5074.3	4845.7	4505.5	4085.4
72.5°	4809.6	4674.5	4537.1	4328.7	4146.2	3961.5	3798.1	3649.4	3398.3	3260.9	2942.1
75°	3123.5	2877.9	2642.5	2327.1	2043.2	1792.1	1547.7	1423.7	1165.8	1061.1	911.3
77.5°	1482.3	1344.9	1160.1	1017.1	834.6	681.5	556.4	417.9	327.7	256.8	196.0
80°	1196.2	1080.2	968.7	839.1	701.8	559.8	429.1	321.0	227.6	157.7	111.5
82.5°	1066.7	940.5	803.1	714.2	620.7	508.0	416.8	340.1	251.2	183.6	125.0
85°	414.5	349.2	269.2	219.6	171.2	140.8	127.3	87.9	68.7	54.1	41.7
87.5°	36.0	29.3	23.6	15.7	16.9	9.0	10.1	6.8	5.6	5.6	4.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7	237.7
2.5°	248.9	247.8	246.6	244.4	244.4	242.2	241.1	239.9	234.3	221.9	211.7
5°	261.3	259.0	256.8	253.4	251.2	247.8	245.5	242.2	229.8	206.1	185.8
7.5°	279.3	274.9	271.4	264.7	261.3	256.8	253.4	247.8	227.6	191.5	163.3
10°	300.7	292.8	287.2	279.3	272.6	266.9	261.3	253.4	225.3	175.7	143.0
12.5°	326.6	317.6	306.4	297.4	288.4	280.4	272.6	262.5	221.9	162.2	127.3
15°	352.5	339.0	331.2	318.8	306.4	295.1	283.9	274.9	223.0	147.6	113.8
17.5°	381.8	368.3	351.4	337.9	324.4	309.8	296.3	278.2	217.4	136.3	103.6
20°	410.0	390.9	375.1	358.2	339.0	321.0	304.1	288.4	212.9	125.0	94.6
22.5°	440.4	417.9	397.6	376.2	352.5	332.3	312.0	291.7	205.0	114.9	86.7
25°	477.6	451.7	422.4	396.5	371.7	346.9	321.0	296.3	197.1	105.9	81.1
27.5°	522.6	488.8	459.6	426.9	392.0	360.4	332.3	305.2	189.2	99.1	75.5
30°	580.1	540.7	499.0	457.3	420.1	384.1	344.7	310.9	181.4	92.4	69.8
32.5°	656.7	607.1	556.4	508.0	458.5	412.3	370.6	326.6	176.8	86.7	64.2
35°	758.0	693.9	631.9	571.0	511.4	455.0	401.0	351.4	176.8	80.0	57.4
37.5°	853.8	779.4	700.6	625.1	554.2	488.8	424.7	365.0	167.8	74.3	51.8
40°	957.5	868.4	776.1	687.1	601.5	520.4	447.2	378.5	160.0	67.6	46.2
42.5°	1116.2	1003.6	883.1	779.4	676.9	576.7	485.5	404.4	149.8	60.8	40.6
45°	1324.6	1181.6	1039.7	913.5	782.9	660.1	552.0	451.7	147.6	55.2	34.9
47.5°	1547.7	1378.7	1212.0	1050.9	897.7	754.7	625.1	504.6	147.6	49.5	30.4
50°	1769.6	1557.8	1379.8	1192.8	1020.5	851.6	697.2	559.8	148.7	45.1	24.8
52.5°	1970.0	1743.7	1544.2	1328.0	1137.6	941.6	773.8	613.9	146.5	39.4	20.3
55°	2248.2	1982.4	1751.5	1512.8	1289.7	1068.9	878.6	695.0	147.6	34.9	16.9
57.5°	2760.7	2448.7	2170.5	1857.4	1600.6	1315.6	1084.7	861.7	161.1	29.3	12.4
60°	3496.3	3090.8	2699.9	2318.1	1991.4	1652.4	1352.8	1090.3	189.2	23.6	9.0
62.5°	3990.8	3460.2	2993.9	2572.6	2193.0	1838.3	1511.6	1213.1	208.4	19.2	5.6
63°	4041.4	3492.9	3024.3	2589.6	2202.1	1847.3	1518.3	1222.1	209.5	18.0	5.6
65°	4137.2	3549.2	3041.3	2592.9	2193.0	1834.9	1513.9	1221.0	211.7	14.6	4.5
67.5°	4027.9	3462.5	2943.2	2496.1	2114.2	1761.6	1457.5	1176.0	210.6	10.1	3.3
70°	3602.1	3133.6	2677.4	2260.6	1913.7	1595.0	1326.9	1072.3	193.8	6.8	2.2
72.5°	2644.7	2326.0	1972.3	1671.5	1441.8	1197.3	1021.6	805.4	149.8	4.5	1.1
75°	784.0	714.2	600.4	529.4	467.4	386.3	343.6	268.1	76.6	2.2	0.0
77.5°	156.6	141.9	127.3	116.0	109.2	93.5	89.0	73.2	31.6	1.1	0.0
80°	82.2	67.6	57.4	50.7	43.9	36.0	30.4	24.8	5.6	0.0	0.0
82.5°	78.9	53.0	38.3	31.6	27.0	21.4	16.9	12.4	3.3	0.0	0.0
85°	29.3	22.5	16.9	13.5	11.3	10.1	7.9	6.8	0.0	0.0	0.0
87.5°	4.5	3.3	3.3	2.2	2.2	1.1	1.1	1.1	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°	237.7	237.7	237.7	237.7	237.7	237.7	237.7
2.5°	201.6	192.6	188.1	182.5	182.5	181.4	183.6
5°	167.8	155.4	146.5	139.7	140.8	137.4	138.5
7.5°	141.9	129.5	121.7	117.1	116.0	114.9	114.9
10°	122.8	111.5	104.7	101.4	100.3	100.3	100.3
12.5°	109.2	98.0	92.4	90.1	90.1	89.0	89.0
15°	98.0	89.0	83.3	81.1	81.1	80.0	81.1
17.5°	89.0	80.0	75.5	73.2	73.2	72.1	72.1
20°	81.1	73.2	68.7	65.4	65.4	64.2	65.4
22.5°	74.3	66.5	60.8	58.6	57.4	56.3	57.4
25°	67.6	59.7	54.1	50.7	49.5	49.5	48.4
27.5°	61.9	54.1	47.3	43.9	42.8	42.8	41.7
30°	56.3	47.3	40.6	37.1	36.0	36.0	36.0
32.5°	50.7	40.6	34.9	31.6	30.4	30.4	30.4
35°	45.1	34.9	29.3	25.9	24.8	24.8	24.8
37.5°	38.3	29.3	22.5	20.3	19.2	18.0	18.0
40°	32.7	22.5	16.9	14.6	12.4	12.4	12.4
42.5°	27.0	18.0	12.4	9.0	7.9	6.8	7.9
45°	22.5	13.5	7.9	4.5	3.3	3.3	3.3
47.5°	18.0	9.0	3.3	1.1	1.1	1.1	1.1
50°	13.5	5.6	1.1	0.0	0.0	1.1	1.1
52.5°	10.1	3.3	0.0	0.0	0.0	0.0	0.0
55°	5.6	1.1	0.0	0.0	0.0	0.0	0.0
57.5°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.1	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)