

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: P163284

Luminaire Tested: **LDRL-SL2-F06-E-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163284
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-F06-E-7060-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9039.4 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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

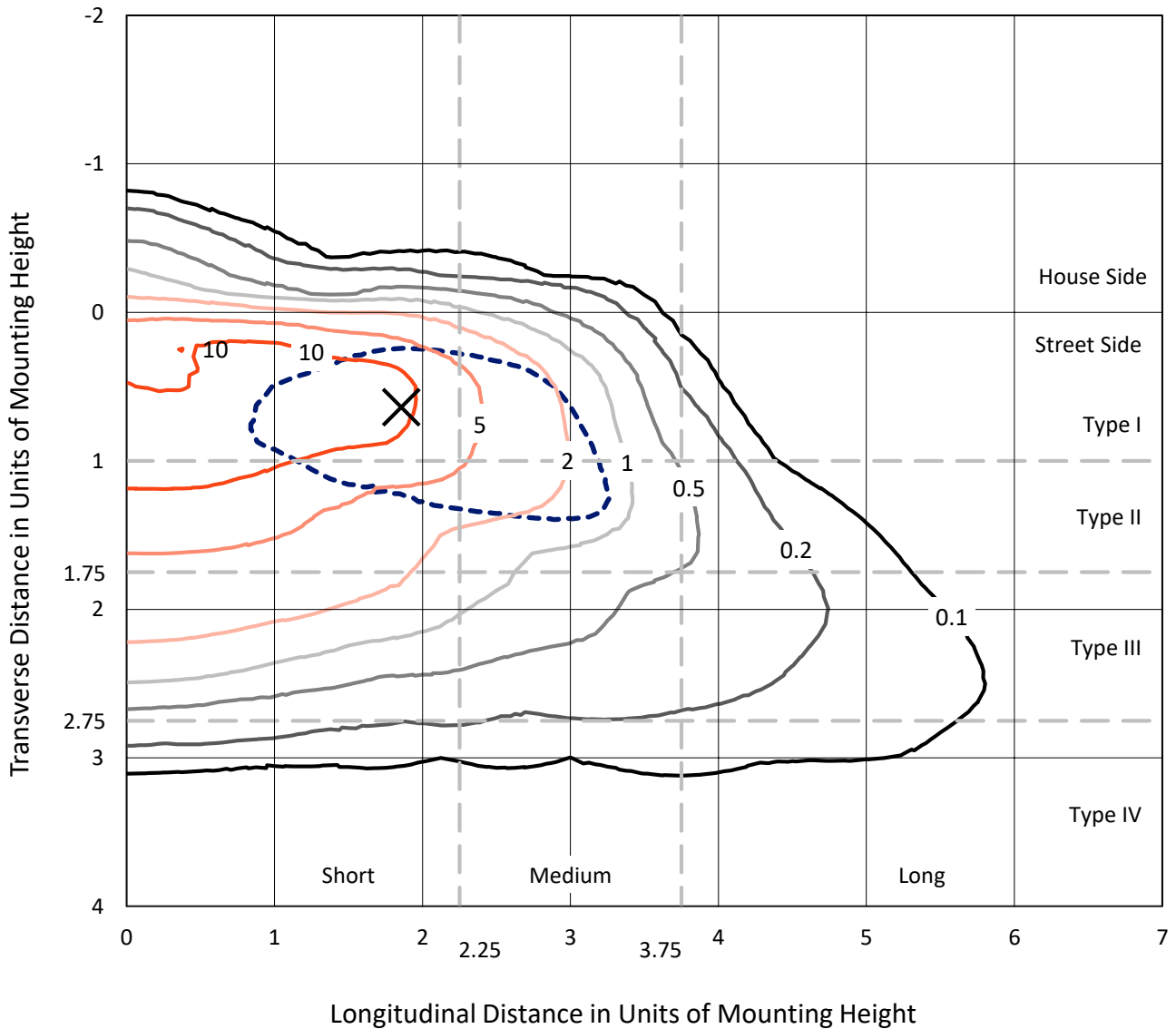


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

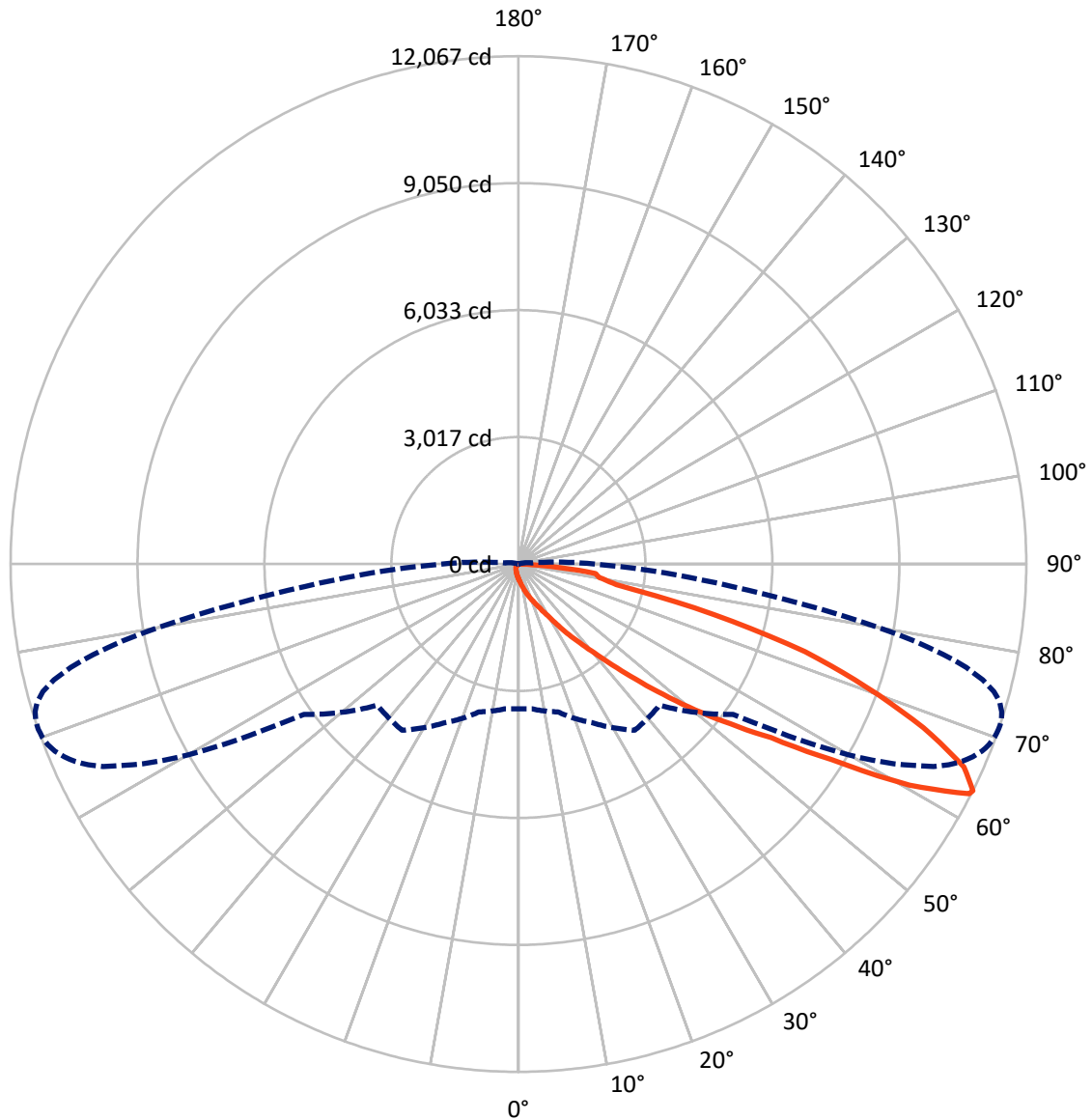


Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - Non-Cutoff

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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	191.9	0.0	191.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8847.5	0.0	8847.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	9039.4	0.0	9039.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	0.4
10°-20°	148.6	1.6
20°-30°	301.9	3.3
30°-40°	737.6	8.2
40°-50°	1649.5	18.2
50°-60°	2319.4	25.7
60°-70°	2727.5	30.2
70°-80°	984.9	10.9
80°-90°	131.7	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°	9039.4	100.0
0°-180°	9039.4	100.0



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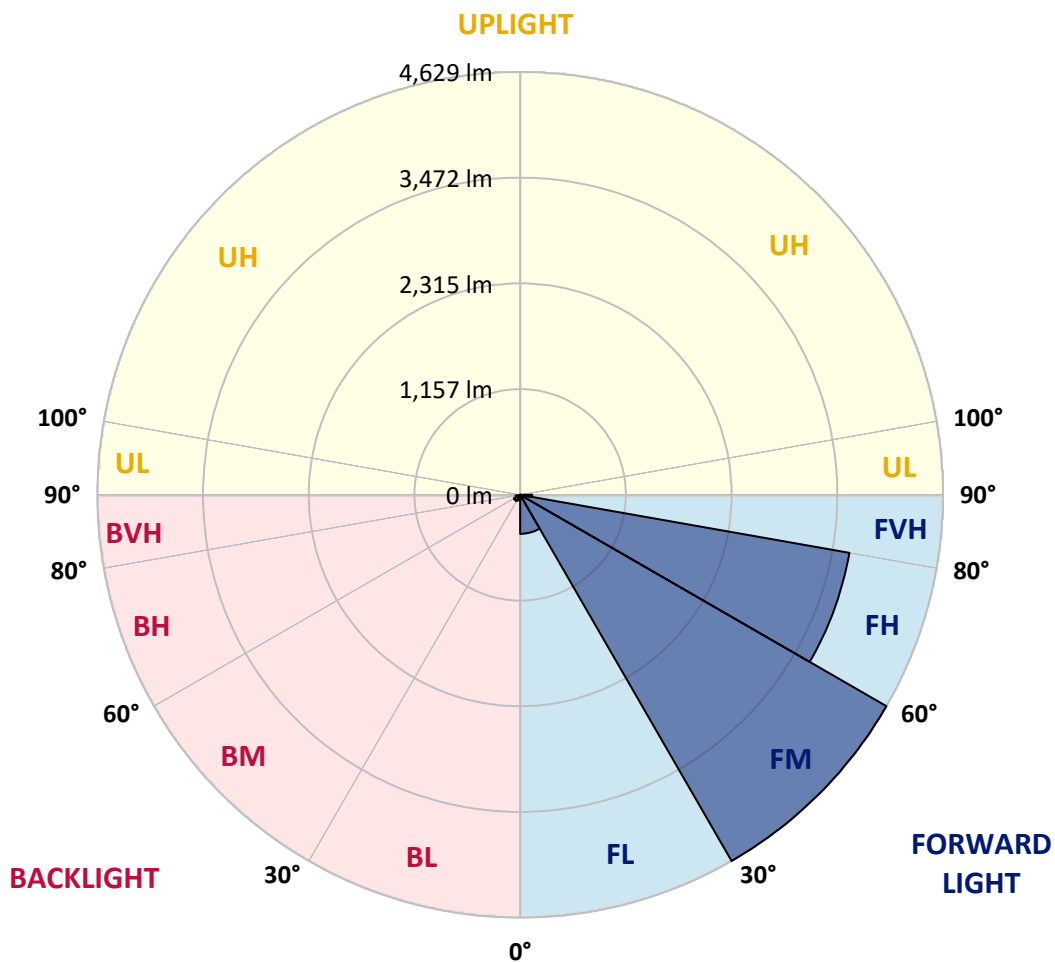
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	427.1	4.7			
FM	(30°-60°)	4629.2	51.2			
FH	(60°-80°)	3659.7	40.5			G2/5000
FVH	(80°-90°)	131.4	1.5			G2/225
BL	(0°-30°)	61.7	0.7	B0/110		
BM	(30°-60°)	77.3	0.9	B0/220		
BH	(60°-80°)	52.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7
2.5°	453.6	458.4	455.2	447.0	437.1	424.0	412.5	412.5	410.9	405.9	407.5
5°	594.9	596.5	590.0	570.3	552.2	524.2	493.0	489.7	486.4	481.5	479.9
7.5°	732.9	739.5	732.9	711.5	675.4	632.7	583.4	578.5	568.6	568.6	562.0
10°	874.3	874.3	867.7	843.0	810.1	749.4	686.9	678.7	667.2	663.9	654.0
12.5°	974.5	974.5	971.2	958.0	931.7	877.5	801.9	793.7	778.9	774.0	762.5
15°	1013.9	1013.9	1015.6	1027.1	1028.7	1004.1	925.2	918.6	903.9	890.6	885.8
17.5°	1038.5	1036.9	1036.9	1053.4	1083.0	1099.3	1048.4	1041.9	1025.4	1018.8	1002.5
20°	1092.8	1089.5	1079.6	1079.6	1107.6	1165.1	1165.1	1163.5	1145.4	1140.5	1132.3
22.5°	1173.3	1170.1	1140.5	1115.8	1128.9	1201.3	1268.7	1265.3	1258.8	1252.2	1247.2
25°	1304.8	1293.3	1242.4	1170.1	1158.5	1235.7	1347.6	1355.7	1360.7	1360.7	1363.9
27.5°	1503.6	1488.9	1398.5	1263.7	1212.8	1291.7	1434.6	1451.0	1465.9	1469.1	1483.9
30°	1779.7	1753.4	1623.6	1426.4	1309.7	1373.8	1562.8	1580.8	1602.2	1608.8	1631.8
32.5°	2233.2	2218.5	2093.6	1797.8	1548.0	1534.9	1741.9	1764.9	1792.9	1804.4	1832.3
35°	2923.4	2926.8	2824.8	2558.6	2213.5	2032.8	2062.4	2082.1	2091.9	2126.4	2141.2
37.5°	3391.8	3400.0	3423.0	3317.8	3071.3	2887.3	2655.6	2676.9	2626.0	2631.0	2632.6
40°	3648.2	3674.4	3809.2	3911.0	3891.3	3784.5	3598.9	3610.4	3515.0	3493.7	3390.1
42.5°	3819.1	3853.5	4068.8	4384.3	4545.4	4642.3	4599.6	4594.7	4520.7	4492.8	4405.7
45°	3925.9	3957.1	4228.2	4693.3	5064.7	5347.4	5464.0	5477.2	5414.7	5386.8	5314.4
47.5°	3920.9	3957.1	4247.9	4808.3	5355.6	5807.4	6136.1	6152.5	6190.3	6165.7	6170.6
50°	3704.0	3738.6	4031.0	4612.7	5270.1	6017.8	6619.3	6671.8	6732.6	6773.7	6793.4
52.5°	3441.1	3465.7	3725.3	4277.5	4905.3	5930.7	6905.2	6995.6	7086.0	7163.2	7217.4
55°	3344.2	3372.1	3575.8	4034.4	4612.7	5565.9	7038.3	7171.4	7299.6	7426.1	7529.7
57.5°	3395.1	3421.4	3567.6	3919.3	4438.6	5181.4	7076.1	7283.2	7493.5	7698.9	7902.7
60°	3582.4	3610.4	3735.2	4026.1	4392.6	4959.5	6928.2	7271.7	7621.6	7980.0	8316.8
62.5°	3508.4	3520.0	3704.0	4213.5	4721.2	4770.5	6390.9	6870.7	7404.7	7956.9	8500.8
63°	3437.8	3451.0	3638.3	4162.5	4821.5	4742.6	6224.9	6731.0	7294.6	7889.5	8481.1
65°	3117.4	3119.0	3262.0	3676.0	4709.7	4791.9	5485.4	5968.5	6615.9	7329.2	8076.8
67.5°	2327.0	2315.5	2453.5	2769.0	3697.5	4793.6	4708.1	4979.2	5429.5	6062.1	6732.6
70°	825.0	806.9	1030.3	1467.5	2303.9	3920.9	4045.8	4063.9	4188.8	4530.6	4951.3
72.5°	267.8	272.8	328.6	537.3	1061.6	2639.1	3662.9	3607.0	3574.2	3572.6	3628.5
75°	106.8	108.5	131.4	238.3	476.5	1271.9	3207.7	3238.9	3250.4	3266.9	3285.0
77.5°	50.9	55.9	73.9	133.1	236.6	629.4	2295.7	2560.2	2711.5	2828.2	2898.8
80°	18.1	21.3	41.1	82.1	110.1	289.2	1209.5	1459.3	1681.1	1967.0	2213.5
82.5°	0.0	0.0	8.2	57.5	60.8	116.7	496.3	581.7	665.5	862.7	1107.6
85°	0.0	0.0	0.0	16.5	18.1	19.7	167.6	202.1	226.8	264.6	305.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	9.9	24.6	37.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7
2.5°	404.3	402.6	402.6	399.3	397.7	394.4	392.8	387.8	386.2	386.2	386.2
5°	478.2	471.7	468.3	460.2	455.2	453.6	445.3	442.1	437.1	438.7	430.6
7.5°	560.4	548.9	543.9	532.4	529.2	517.6	514.3	506.1	501.2	491.4	488.0
10°	650.8	635.9	627.8	609.7	604.7	596.5	586.6	576.8	568.6	558.8	553.8
12.5°	754.2	741.1	734.5	709.9	698.4	686.9	673.7	660.6	647.5	639.3	627.8
15°	875.9	854.6	848.0	825.0	805.3	790.4	772.3	756.0	746.1	729.6	718.2
17.5°	995.9	974.5	969.5	935.1	913.7	903.9	884.1	862.7	844.7	828.2	810.1
20°	1115.8	1101.1	1087.8	1055.0	1032.0	1015.6	989.2	967.9	953.2	930.1	907.1
22.5°	1235.7	1221.0	1211.1	1176.6	1155.2	1132.3	1109.2	1086.2	1064.9	1036.9	1010.6
25°	1359.0	1349.2	1344.2	1313.0	1293.3	1271.9	1249.0	1222.6	1196.3	1165.1	1137.1
27.5°	1487.2	1490.5	1480.6	1474.0	1452.7	1437.9	1401.7	1383.6	1363.9	1326.1	1291.7
30°	1649.9	1659.7	1656.5	1661.4	1648.2	1638.4	1610.4	1587.5	1564.5	1528.3	1488.9
32.5°	1855.3	1868.4	1875.0	1893.1	1886.5	1883.3	1875.0	1842.2	1825.7	1763.3	1746.8
35°	2172.4	2165.8	2193.8	2208.6	2202.0	2198.8	2188.9	2170.8	2151.1	2106.7	2065.6
37.5°	2584.9	2591.5	2601.4	2571.8	2552.1	2550.4	2520.8	2502.8	2474.9	2425.6	2376.3
40°	3340.8	3299.7	3253.8	3128.9	3074.7	3043.4	2956.4	2931.7	2884.0	2816.6	2765.7
42.5°	4323.5	4282.5	4144.4	3935.8	3823.9	3669.5	3598.9	3511.8	3444.4	3334.3	3275.1
45°	5299.7	5181.4	5164.9	4921.7	4783.7	4579.9	4453.3	4307.1	4154.3	4009.6	3904.5
47.5°	6122.9	6096.7	6016.2	5868.3	5740.1	5569.1	5406.5	5181.4	5023.6	4818.2	4629.2
50°	6781.9	6780.3	6750.7	6665.2	6558.5	6420.5	6277.4	6086.8	5907.7	5656.3	5454.2
52.5°	7274.9	7301.2	7311.1	7284.8	7243.7	7122.1	7049.8	6890.4	6739.2	6525.6	6307.0
55°	7636.5	7733.5	7782.8	7838.6	7827.1	7784.4	7781.0	7677.6	7608.5	7439.3	7284.8
57.5°	8083.4	8242.8	8395.7	8666.8	8676.7	8772.0	8821.3	8870.6	8883.7	8816.3	8765.4
60°	8652.1	8977.4	9266.6	9833.5	9981.4	10214.8	10366.0	10530.3	10670.0	10681.5	10678.2
62.5°	9053.0	9554.2	10020.9	10862.3	11149.9	11419.4	11621.4	11780.9	11877.8	11976.4	12022.4
63°	9064.5	9613.4	10109.6	10977.3	11279.7	11536.1	11728.3	11876.2	11978.1	12037.3	12066.9
65°	8786.7	9452.3	10043.9	10908.3	11192.6	11450.6	11550.8	11647.8	11697.1	11720.0	11633.0
67.5°	7447.5	8098.3	8788.4	9754.7	9997.9	10306.8	10389.0	10438.3	10461.3	10456.3	10382.4
70°	5569.1	6114.8	6882.2	7986.5	8308.6	8610.9	8798.2	8878.8	8905.1	8896.8	8786.7
72.5°	3888.1	4208.5	4841.2	6070.4	6509.2	6897.0	7128.6	7248.6	7273.3	7224.0	7122.1
75°	3265.3	3281.7	3424.7	4096.8	4507.6	4921.7	5183.0	5258.6	5209.3	5059.8	4800.1
77.5°	2915.2	2951.4	2951.4	3051.6	3132.1	3247.2	3271.9	3087.8	2874.1	2598.0	2374.6
80°	2445.3	2571.8	2660.6	2734.5	2742.7	2719.7	2658.8	2555.4	2391.0	2180.7	1947.3
82.5°	1485.6	1735.4	1837.2	2218.5	2405.8	2532.4	2522.5	2384.5	2259.6	2041.0	1842.2
85°	374.7	404.3	438.7	570.3	639.3	780.6	869.3	910.4	925.2	849.6	769.1
87.5°	36.2	24.6	41.1	31.2	44.3	32.8	44.3	41.1	50.9	54.2	59.2
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°	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7
2.5°	382.9	381.3	379.6	377.9	376.3	374.7	371.4	371.4	368.1	366.4	364.8
5°	425.6	422.4	420.7	417.4	412.5	409.1	404.3	397.7	392.8	391.1	387.8
7.5°	479.9	471.7	468.3	463.4	456.8	447.0	440.4	435.5	427.2	422.4	412.5
10°	540.7	532.4	522.6	512.7	502.9	491.4	483.1	476.5	463.4	456.8	445.3
12.5°	617.9	603.1	591.6	578.5	565.3	552.2	542.3	522.6	511.1	496.3	486.4
15°	696.8	683.6	670.5	654.0	634.3	612.9	603.1	585.0	570.3	547.2	534.1
17.5°	792.0	767.5	747.7	728.0	709.9	690.2	670.5	642.5	621.2	601.5	575.1
20°	885.8	856.2	834.8	808.5	782.2	751.0	728.0	708.3	678.7	652.4	624.4
22.5°	986.0	956.4	921.9	895.6	859.4	834.8	803.5	770.7	741.1	706.7	672.1
25°	1107.6	1076.4	1036.9	1002.5	961.3	926.8	889.0	851.2	815.1	775.7	731.3
27.5°	1257.1	1224.3	1181.6	1140.5	1086.2	1043.5	1007.3	956.4	910.4	861.1	810.1
30°	1446.2	1410.0	1357.4	1298.3	1244.0	1196.3	1145.4	1078.0	1027.1	967.9	902.1
32.5°	1692.6	1649.9	1579.2	1523.3	1456.0	1393.5	1322.9	1255.5	1183.2	1105.9	1030.3
35°	2003.2	1963.8	1881.6	1799.4	1725.5	1651.5	1562.8	1485.6	1383.6	1290.0	1193.1
37.5°	2325.3	2254.6	2179.1	2090.3	1998.2	1909.5	1801.0	1694.3	1577.6	1475.7	1354.1
40°	2693.4	2607.9	2545.5	2450.1	2320.3	2193.8	2093.6	1960.5	1814.2	1677.8	1534.9
42.5°	3197.9	3102.5	2990.8	2846.2	2752.6	2604.7	2474.9	2317.1	2124.8	1972.0	1799.4
45°	3781.2	3651.4	3543.0	3403.3	3289.9	3105.9	2954.6	2744.3	2552.1	2351.5	2141.2
47.5°	4446.8	4285.7	4128.0	3989.9	3809.2	3628.5	3436.1	3212.7	2966.2	2745.9	2496.2
50°	5210.9	4982.5	4764.0	4586.5	4338.4	4129.6	3920.9	3669.5	3396.7	3143.7	2859.4
52.5°	6060.5	5795.9	5506.7	5233.9	4946.3	4678.5	4427.1	4137.8	3833.8	3524.9	3207.7
55°	7086.0	6887.1	6546.9	6200.2	5815.6	5457.4	5133.7	4775.5	4405.7	3999.8	3666.2
57.5°	8691.5	8594.5	8310.2	7963.5	7462.3	7026.8	6477.9	6039.2	5503.5	4944.7	4514.1
60°	10867.2	10747.3	10587.9	10306.8	9909.2	9317.6	8712.9	8030.9	7215.8	6441.8	5707.2
62.5°	12027.4	11984.6	11854.8	11660.9	11289.6	10822.9	10213.2	9463.8	8543.6	7603.6	6666.9
63°	12061.9	12007.7	11895.9	11698.7	11371.7	10919.8	10321.7	9593.6	8693.1	7735.1	6778.7
65°	11595.2	11573.9	11460.4	11245.1	11021.7	10676.6	10213.2	9587.0	8831.2	7925.7	6974.2
67.5°	10283.8	10219.7	10045.6	9979.8	9823.7	9583.8	9230.4	8800.0	8259.3	7547.7	6726.0
70°	8698.0	8602.8	8384.1	8267.5	8076.8	7925.7	7710.4	7403.1	7069.5	6573.2	5960.3
72.5°	7016.9	6819.7	6619.3	6315.3	6049.0	5779.6	5541.2	5324.3	4957.8	4757.4	4292.3
75°	4556.9	4198.6	3855.2	3395.1	2981.0	2614.5	2257.9	2077.1	1700.8	1548.0	1329.5
77.5°	2162.6	1962.1	1692.6	1483.9	1217.7	994.2	811.8	609.7	478.2	374.7	285.9
80°	1745.2	1576.0	1413.2	1224.3	1023.8	816.8	626.1	468.3	332.0	230.0	162.6
82.5°	1556.2	1372.2	1171.7	1041.9	905.5	741.1	608.1	496.3	366.4	267.8	182.4
85°	604.7	509.5	392.8	320.4	249.8	205.4	185.7	128.2	100.2	78.9	60.8
87.5°	52.6	42.7	34.5	23.0	24.6	13.1	14.7	9.9	8.2	8.2	6.6
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°	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7	346.7
2.5°	363.2	361.6	359.8	356.6	356.6	353.3	351.7	350.0	341.8	323.8	308.9
5°	381.3	377.9	374.7	369.7	366.4	361.6	358.2	353.3	335.2	300.7	271.1
7.5°	407.5	401.0	396.0	386.2	381.3	374.7	369.7	361.6	332.0	279.3	238.3
10°	438.7	427.2	419.0	407.5	397.7	389.4	381.3	369.7	328.6	256.4	208.7
12.5°	476.5	463.4	447.0	433.8	420.7	409.1	397.7	382.9	323.8	236.6	185.7
15°	514.3	494.6	483.1	465.0	447.0	430.6	414.1	401.0	325.4	215.3	166.0
17.5°	557.0	537.3	512.7	493.0	473.3	451.9	432.2	405.9	317.1	198.8	151.2
20°	598.2	570.3	547.2	522.6	494.6	468.3	443.7	420.7	310.5	182.4	138.0
22.5°	642.5	609.7	580.1	548.9	514.3	484.8	455.2	425.6	299.1	167.6	126.6
25°	696.8	659.0	616.2	578.5	542.3	506.1	468.3	432.2	287.6	154.5	118.3
27.5°	762.5	713.2	670.5	622.8	571.9	525.8	484.8	445.3	276.1	144.6	110.1
30°	846.3	788.8	728.0	667.2	612.9	560.4	502.9	453.6	264.6	134.8	101.9
32.5°	958.0	885.8	811.8	741.1	668.9	601.5	540.7	476.5	258.0	126.6	93.6
35°	1105.9	1012.3	921.9	833.1	746.1	663.9	585.0	512.7	258.0	116.7	83.8
37.5°	1245.6	1137.1	1022.2	912.0	808.5	713.2	619.6	532.4	244.9	108.5	75.6
40°	1396.9	1267.0	1132.3	1002.5	877.5	759.2	652.4	552.2	233.4	98.6	67.4
42.5°	1628.5	1464.2	1288.4	1137.1	987.6	841.3	708.3	590.0	218.5	88.7	59.2
45°	1932.6	1723.9	1516.8	1332.7	1142.1	963.0	805.3	659.0	215.3	80.5	50.9
47.5°	2257.9	2011.4	1768.2	1533.2	1309.7	1101.1	912.0	736.2	215.3	72.3	44.3
50°	2581.7	2272.7	2013.1	1740.2	1488.9	1242.4	1017.2	816.8	216.9	65.8	36.2
52.5°	2874.1	2543.9	2253.0	1937.4	1659.7	1373.8	1128.9	895.6	213.7	57.5	29.6
55°	3280.0	2892.2	2555.4	2207.0	1881.6	1559.5	1281.8	1013.9	215.3	50.9	24.6
57.5°	4027.7	3572.6	3166.7	2709.9	2335.2	1919.3	1582.5	1257.1	235.0	42.7	18.1
60°	5100.9	4509.3	3939.0	3382.0	2905.3	2410.7	1973.6	1590.7	276.1	34.5	13.1
62.5°	5822.3	5048.2	4368.0	3753.3	3199.5	2681.9	2205.3	1769.8	304.0	28.0	8.2
63°	5896.2	5095.9	4412.3	3778.0	3212.7	2695.0	2215.1	1783.0	305.7	26.3	8.2
65°	6035.9	5178.1	4437.0	3782.9	3199.5	2676.9	2208.6	1781.3	308.9	21.3	6.6
67.5°	5876.4	5051.6	4294.0	3641.6	3084.5	2570.1	2126.4	1715.6	307.3	14.7	4.9
70°	5255.3	4571.7	3906.2	3298.1	2792.0	2327.0	1935.8	1564.5	282.7	9.9	3.3
72.5°	3858.5	3393.5	2877.5	2438.7	2103.4	1746.8	1490.5	1175.0	218.5	6.6	1.6
75°	1143.8	1041.9	875.9	772.3	682.0	563.6	501.2	391.1	111.7	3.3	0.0
77.5°	228.4	207.1	185.7	169.2	159.4	136.4	129.8	106.8	46.0	1.6	0.0
80°	119.9	98.6	83.8	73.9	64.0	52.6	44.3	36.2	8.2	0.0	0.0
82.5°	115.1	77.3	55.9	46.0	39.4	31.2	24.6	18.1	4.9	0.0	0.0
85°	42.7	32.8	24.6	19.7	16.5	14.7	11.5	9.9	0.0	0.0	0.0
87.5°	6.6	4.9	4.9	3.3	3.3	1.6	1.6	1.6	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°	346.7	346.7	346.7	346.7	346.7	346.7	346.7
2.5°	294.2	281.0	274.5	266.2	266.2	264.6	267.8
5°	244.9	226.8	213.7	203.8	205.4	200.5	202.1
7.5°	207.1	189.0	177.5	170.9	169.2	167.6	167.6
10°	179.1	162.6	152.8	147.9	146.3	146.3	146.3
12.5°	159.4	142.9	134.8	131.4	131.4	129.8	129.8
15°	142.9	129.8	121.6	118.3	118.3	116.7	118.3
17.5°	129.8	116.7	110.1	106.8	106.8	105.2	105.2
20°	118.3	106.8	100.2	95.3	95.3	93.6	95.3
22.5°	108.5	97.0	88.7	85.5	83.8	82.1	83.8
25°	98.6	87.1	78.9	73.9	72.3	72.3	70.6
27.5°	90.4	78.9	69.0	64.0	62.4	62.4	60.8
30°	82.1	69.0	59.2	54.2	52.6	52.6	52.6
32.5°	73.9	59.2	50.9	46.0	44.3	44.3	44.3
35°	65.8	50.9	42.7	37.8	36.2	36.2	36.2
37.5°	55.9	42.7	32.8	29.6	28.0	26.3	26.3
40°	47.7	32.8	24.6	21.3	18.1	18.1	18.1
42.5°	39.4	26.3	18.1	13.1	11.5	9.9	11.5
45°	32.8	19.7	11.5	6.6	4.9	4.9	4.9
47.5°	26.3	13.1	4.9	1.6	1.6	1.6	1.6
50°	19.7	8.2	1.6	0.0	0.0	1.6	1.6
52.5°	14.7	4.9	0.0	0.0	0.0	0.0	0.0
55°	8.2	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)