

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: P163281

Luminaire Tested: **LDRL-SL2-F06-E-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163281
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-7030-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) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8046.1 lumens
Efficiency: N/A
Efficacy: 51.4 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

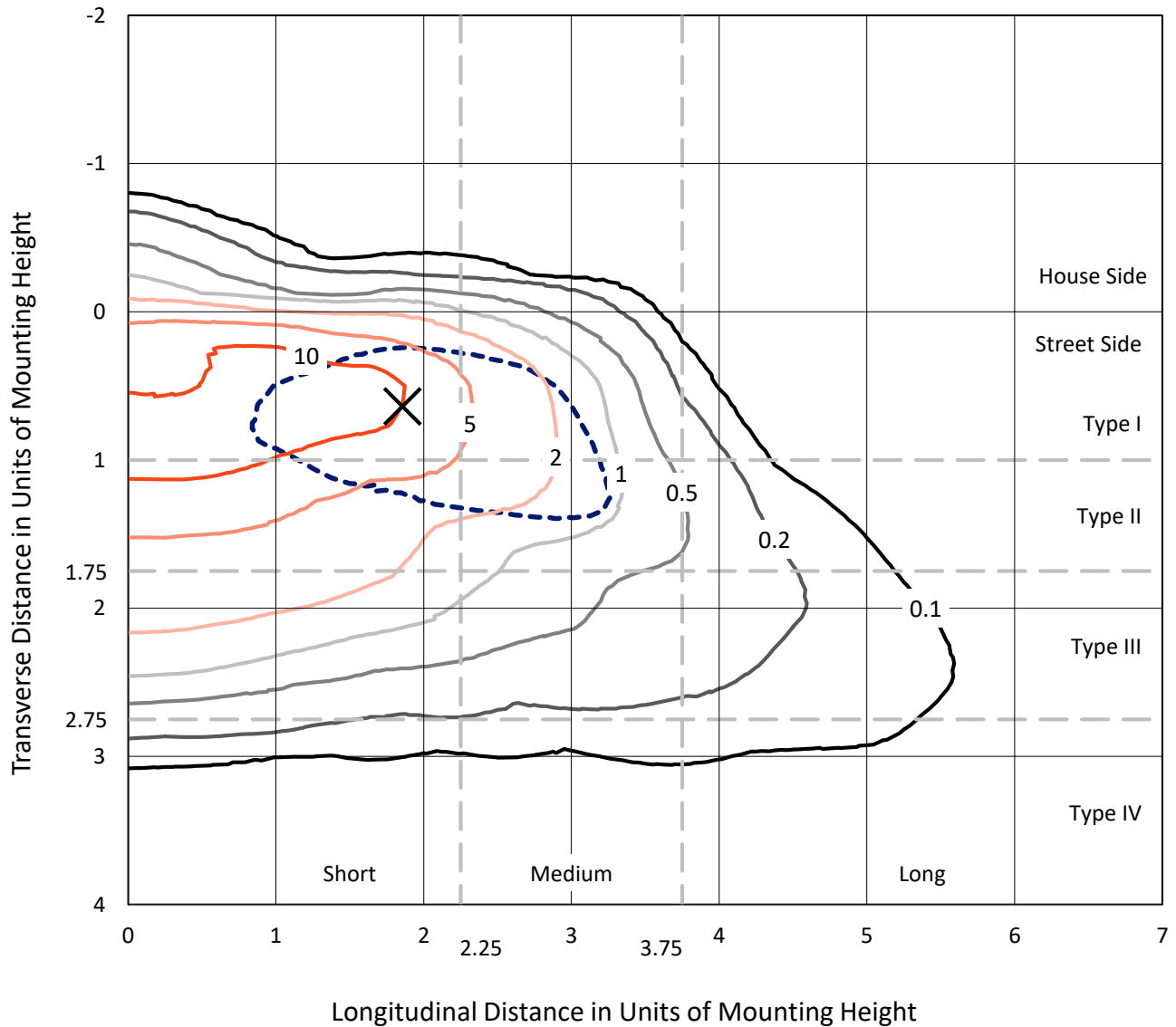


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Iso-Footcandle Lines of Horizontal Illumination

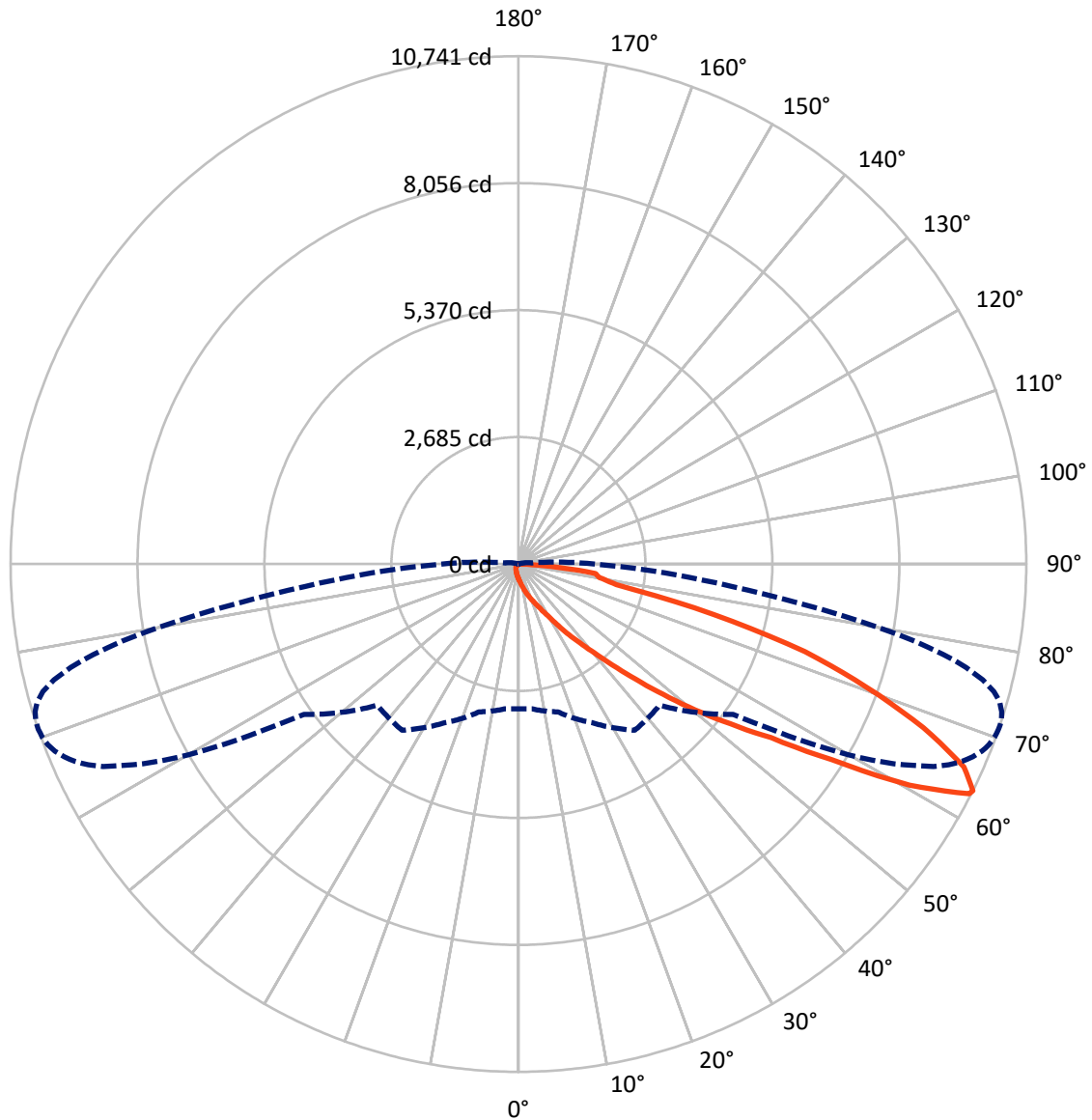
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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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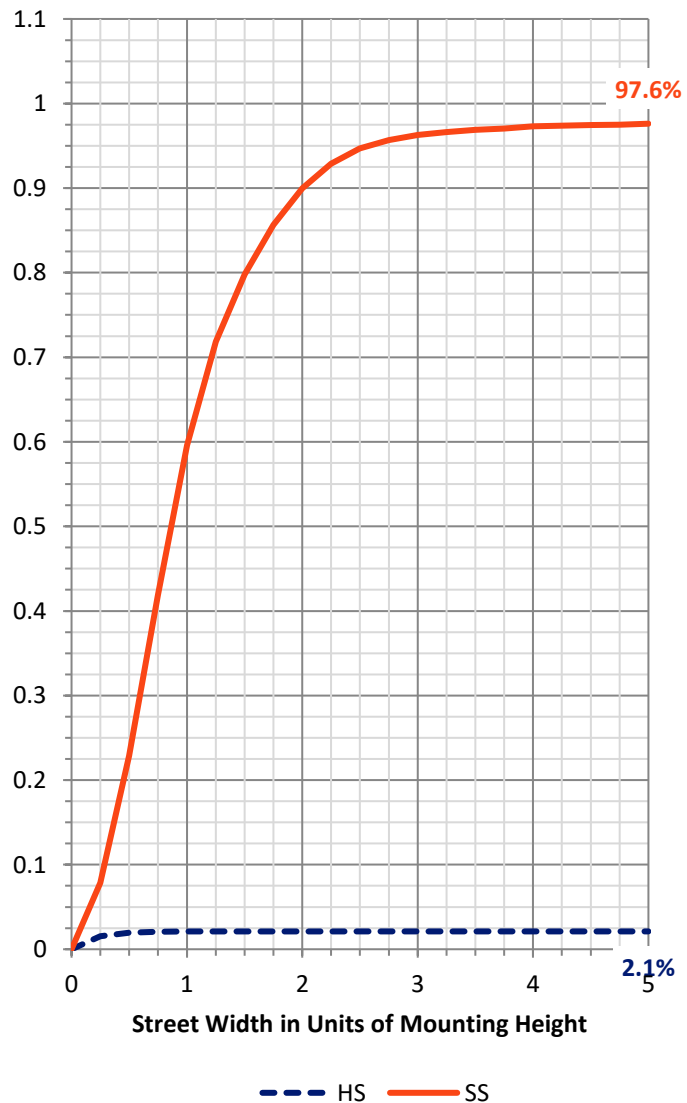
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	170.8	0.0	170.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7875.3	0.0	7875.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	8046.1	0.0	8046.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	0.4
10°-20°	132.3	1.6
20°-30°	268.7	3.3
30°-40°	656.5	8.2
40°-50°	1468.3	18.2
50°-60°	2064.5	25.7
60°-70°	2427.7	30.2
70°-80°	876.6	10.9
80°-90°	117.2	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°	8046.1	100.0
0°-180°	8046.1	100.0



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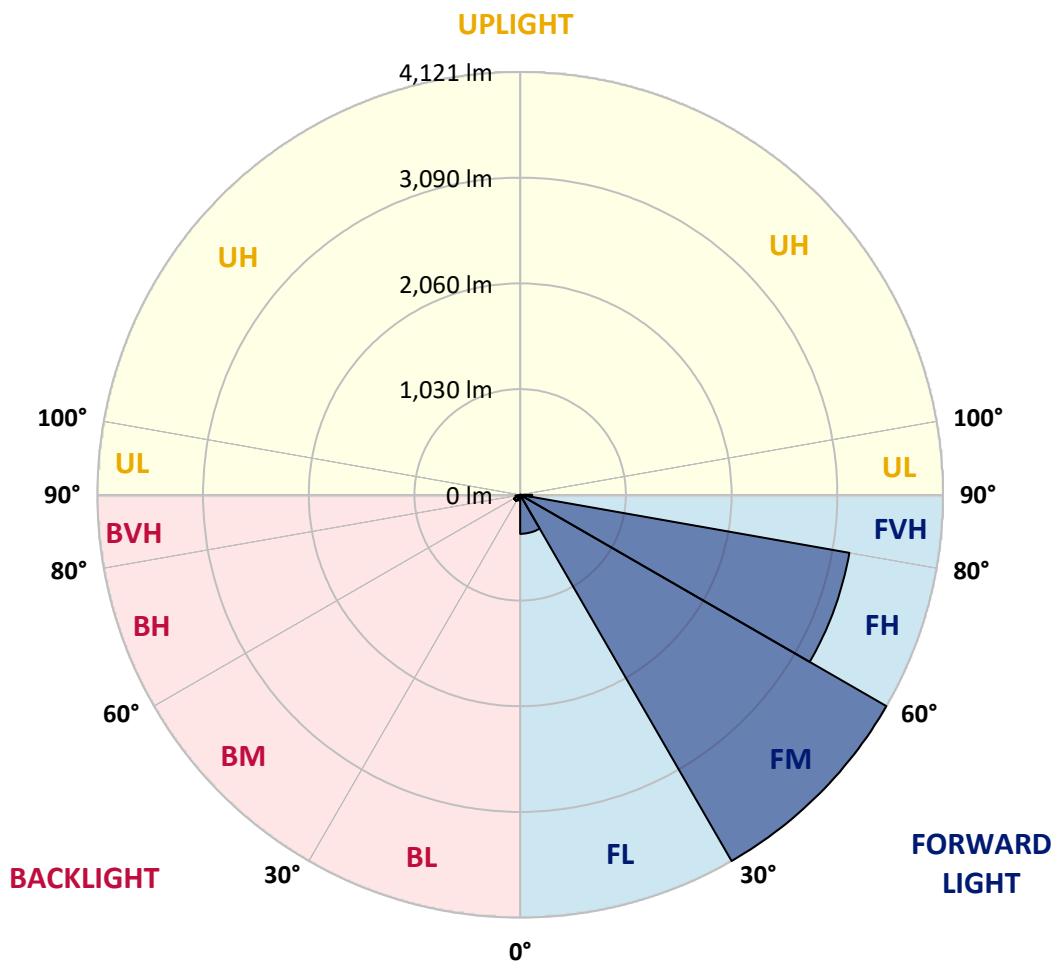
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.2	4.7			
FM (30°-60°)	4120.5	51.2			
FH (60°-80°)	3257.6	40.5			G2/5000
FVH (80°-90°)	117.0	1.5			G2/225
BL (0°-30°)	54.9	0.7	B0/110		
BM (30°-60°)	68.8	0.9	B0/220		
BH (60°-80°)	46.8	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°	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	403.7	408.1	405.2	397.8	389.1	377.4	367.2	367.2	365.7	361.3	362.7
5°	529.5	530.9	525.1	507.6	491.5	466.6	438.8	435.9	432.9	428.6	427.2
7.5°	652.4	658.2	652.4	633.4	601.1	563.1	519.3	514.9	506.1	506.1	500.3
10°	778.2	778.2	772.3	750.3	721.1	667.0	611.5	604.1	593.9	590.9	582.1
12.5°	867.4	867.4	864.4	852.8	829.3	781.1	713.8	706.5	693.3	688.9	678.7
15°	902.5	902.5	904.0	914.2	915.6	893.8	823.5	817.7	804.5	792.8	788.4
17.5°	924.4	923.0	923.0	937.6	964.0	978.5	933.2	927.4	912.8	906.9	892.3
20°	972.7	969.8	961.0	961.0	985.9	1037.1	1037.1	1035.6	1019.5	1015.2	1007.8
22.5°	1044.4	1041.5	1015.2	993.2	1004.9	1069.3	1129.3	1126.3	1120.5	1114.6	1110.2
25°	1161.4	1151.2	1105.8	1041.5	1031.2	1100.0	1199.5	1206.7	1211.2	1211.2	1214.1
27.5°	1338.4	1325.2	1244.8	1124.8	1079.5	1149.7	1276.9	1291.6	1304.8	1307.7	1320.8
30°	1584.1	1560.8	1445.2	1269.7	1165.8	1222.8	1391.0	1407.1	1426.1	1432.0	1452.5
32.5°	1987.8	1974.7	1863.5	1600.2	1377.9	1366.2	1550.5	1571.0	1595.9	1606.1	1631.0
35°	2602.2	2605.2	2514.4	2277.5	1970.3	1809.4	1835.7	1853.3	1862.1	1892.7	1905.9
37.5°	3019.1	3026.3	3046.9	2953.2	2733.8	2570.1	2363.8	2382.8	2337.4	2341.9	2343.3
40°	3247.3	3270.6	3390.6	3481.3	3463.7	3368.6	3203.4	3213.6	3128.8	3109.8	3017.6
42.5°	3399.4	3430.1	3621.7	3902.5	4046.0	4132.2	4094.2	4089.8	4024.0	3999.1	3921.6
45°	3494.5	3522.3	3763.6	4177.6	4508.1	4759.7	4863.6	4875.3	4819.7	4794.9	4730.4
47.5°	3490.1	3522.3	3781.1	4279.9	4767.1	5169.3	5461.9	5476.4	5510.1	5488.2	5492.5
50°	3297.0	3327.7	3588.0	4105.9	4691.0	5356.6	5891.9	5938.7	5992.8	6029.4	6046.9
52.5°	3063.0	3084.9	3316.0	3807.5	4366.3	5279.0	6146.4	6226.9	6307.3	6376.1	6424.3
55°	2976.7	3001.6	3182.9	3591.0	4105.9	4954.3	6264.9	6383.4	6497.5	6610.0	6702.2
57.5°	3022.0	3045.4	3175.5	3488.6	3950.9	4612.0	6298.5	6482.8	6670.0	6852.9	7034.3
60°	3188.8	3213.6	3324.7	3583.7	3909.9	4414.5	6166.9	6472.6	6784.1	7103.1	7402.9
62.5°	3122.9	3133.2	3297.0	3750.5	4202.4	4246.3	5688.6	6115.7	6591.0	7082.5	7566.7
63°	3060.0	3071.8	3238.5	3705.1	4291.7	4221.5	5540.9	5991.4	6493.1	7022.5	7549.1
65°	2774.8	2776.3	2903.6	3272.1	4192.2	4265.4	4882.6	5312.7	5888.9	6523.8	7189.3
67.5°	2071.3	2061.0	2183.9	2464.7	3291.2	4266.8	4190.7	4432.0	4832.9	5396.0	5992.8
70°	734.3	718.2	917.1	1306.2	2050.7	3490.1	3601.3	3617.4	3728.5	4032.7	4407.2
72.5°	238.4	242.8	292.5	478.3	945.0	2349.1	3260.4	3210.7	3181.4	3180.0	3229.7
75°	95.1	96.5	117.0	212.1	424.2	1132.2	2855.3	2883.0	2893.3	2907.9	2924.0
77.5°	45.3	49.8	65.8	118.4	210.6	560.2	2043.5	2278.9	2413.5	2517.4	2580.3
80°	16.1	19.0	36.6	73.1	98.0	257.4	1076.6	1298.9	1496.3	1750.9	1970.3
82.5°	0.0	0.0	7.3	51.2	54.1	103.9	441.7	517.8	592.4	767.9	985.9
85°	0.0	0.0	0.0	14.7	16.1	17.6	149.2	179.9	201.9	235.5	272.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	8.8	21.9	33.7
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°	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	359.8	358.4	358.4	355.4	354.0	351.1	349.6	345.2	343.7	343.7	343.7
5°	425.6	419.8	416.8	409.6	405.2	403.7	396.4	393.5	389.1	390.5	383.3
7.5°	498.8	488.6	484.2	473.9	471.0	460.7	457.8	450.5	446.2	437.4	434.4
10°	579.2	566.0	558.8	542.7	538.3	530.9	522.2	513.4	506.1	497.4	492.9
12.5°	671.4	659.7	653.8	631.9	621.7	611.5	599.7	588.0	576.4	569.0	558.8
15°	779.7	760.7	754.8	734.3	716.8	703.6	687.5	672.9	664.1	649.5	639.2
17.5°	886.4	867.4	863.0	832.3	813.3	804.5	787.0	767.9	751.9	737.2	721.1
20°	993.2	980.1	968.3	939.1	918.6	904.0	880.5	861.5	848.4	827.9	807.4
22.5°	1100.0	1086.8	1078.1	1047.3	1028.3	1007.8	987.3	966.9	947.9	923.0	899.5
25°	1209.7	1200.9	1196.5	1168.7	1151.2	1132.2	1111.7	1088.3	1064.8	1037.1	1012.2
27.5°	1323.8	1326.7	1317.9	1312.0	1293.0	1279.9	1247.7	1231.6	1214.1	1180.4	1149.7
30°	1468.6	1477.3	1474.4	1478.8	1467.1	1458.3	1433.5	1413.0	1392.6	1360.4	1325.2
32.5°	1651.4	1663.1	1669.0	1685.1	1679.2	1676.3	1669.0	1639.8	1625.1	1569.5	1554.9
35°	1933.7	1927.8	1952.7	1965.9	1960.1	1957.2	1948.4	1932.3	1914.7	1875.2	1838.6
37.5°	2300.9	2306.8	2315.5	2289.2	2271.7	2270.1	2243.8	2227.8	2202.9	2159.0	2115.1
40°	2973.7	2937.1	2896.2	2785.0	2736.8	2708.9	2631.5	2609.5	2567.1	2507.1	2461.8
42.5°	3848.4	3811.9	3689.0	3503.3	3403.7	3266.3	3203.4	3125.9	3065.9	2967.9	2915.2
45°	4717.3	4612.0	4597.3	4380.9	4258.0	4076.6	3964.0	3833.8	3697.8	3569.0	3475.5
47.5°	5450.1	5426.8	5355.1	5223.5	5109.4	4957.2	4812.4	4612.0	4471.6	4288.7	4120.5
50°	6036.7	6035.2	6008.9	5932.8	5837.8	5714.9	5587.6	5418.0	5258.6	5034.7	4854.8
52.5°	6475.5	6498.9	6507.7	6484.3	6447.7	6339.5	6275.1	6133.2	5998.7	5808.5	5614.0
55°	6797.3	6883.7	6927.5	6977.2	6967.0	6929.0	6926.0	6833.9	6772.5	6621.8	6484.3
57.5°	7195.2	7337.1	7473.1	7714.4	7723.2	7808.1	7852.0	7895.8	7907.5	7847.5	7802.2
60°	7701.3	7990.9	8248.4	8753.0	8884.6	9092.3	9226.9	9373.2	9497.5	9507.7	9504.8
62.5°	8058.2	8504.3	8919.7	9668.7	9924.7	10164.5	10344.4	10486.4	10572.6	10660.4	10701.3
63°	8068.4	8557.0	8998.7	9771.0	10040.2	10268.4	10439.5	10571.1	10661.9	10714.5	10740.9
65°	7821.2	8413.7	8940.3	9709.6	9962.7	10192.3	10281.5	10367.8	10411.7	10432.2	10354.7
67.5°	6629.1	7208.4	7822.7	8682.7	8899.3	9174.2	9247.4	9291.3	9311.8	9307.3	9241.5
70°	4957.2	5442.9	6125.9	7108.9	7395.6	7664.7	7831.4	7903.2	7926.5	7919.2	7821.2
72.5°	3460.8	3746.0	4309.3	5403.3	5793.9	6139.1	6345.3	6452.1	6474.1	6430.2	6339.5
75°	2906.5	2921.1	3048.3	3646.6	4012.3	4380.9	4613.4	4680.8	4636.9	4503.8	4272.6
77.5°	2594.9	2627.1	2627.1	2716.3	2787.9	2890.4	2912.3	2748.5	2558.3	2312.6	2113.7
80°	2176.6	2289.2	2368.2	2434.0	2441.3	2420.9	2366.7	2274.6	2128.3	1941.1	1733.3
82.5°	1322.4	1544.7	1635.3	1974.7	2141.5	2254.1	2245.3	2122.5	2011.3	1816.7	1639.8
85°	333.5	359.8	390.5	507.6	569.0	694.8	773.8	810.3	823.5	756.2	684.6
87.5°	32.2	21.9	36.6	27.8	39.4	29.2	39.4	36.6	45.3	48.2	52.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	340.8	339.4	337.8	336.4	335.0	333.5	330.6	330.6	327.6	326.2	324.7
5°	378.8	375.9	374.5	371.5	367.2	364.2	359.8	354.0	349.6	348.2	345.2
7.5°	427.2	419.8	416.8	412.5	406.6	397.8	392.0	387.6	380.3	375.9	367.2
10°	481.3	473.9	465.2	456.4	447.6	437.4	430.0	424.2	412.5	406.6	396.4
12.5°	550.0	536.8	526.6	514.9	503.2	491.5	482.7	465.2	454.9	441.7	432.9
15°	620.2	608.5	596.8	582.1	564.6	545.6	536.8	520.7	507.6	487.0	475.4
17.5°	705.0	683.1	665.6	648.0	631.9	614.4	596.8	571.9	552.9	535.4	511.9
20°	788.4	762.1	743.1	719.7	696.2	668.5	648.0	630.5	604.1	580.7	555.8
22.5°	877.6	851.3	820.6	797.2	765.0	743.1	715.2	686.0	659.7	629.0	598.2
25°	985.9	958.1	923.0	892.3	855.7	825.0	791.3	757.7	725.6	690.4	650.9
27.5°	1119.0	1089.7	1051.7	1015.2	966.9	928.9	896.6	851.3	810.3	766.4	721.1
30°	1287.2	1255.0	1208.3	1155.6	1107.3	1064.8	1019.5	959.5	914.2	861.5	803.0
32.5°	1506.6	1468.6	1405.7	1355.9	1296.0	1240.4	1177.5	1117.5	1053.2	984.4	917.1
35°	1783.1	1748.0	1674.9	1601.7	1535.9	1470.0	1391.0	1322.4	1231.6	1148.3	1062.0
37.5°	2069.8	2006.8	1939.6	1860.6	1778.6	1699.7	1603.1	1508.1	1404.2	1313.6	1205.3
40°	2397.4	2321.3	2265.8	2180.9	2065.4	1952.7	1863.5	1745.1	1614.9	1493.4	1366.2
42.5°	2846.5	2761.6	2662.2	2533.4	2450.1	2318.4	2202.9	2062.5	1891.3	1755.3	1601.7
45°	3365.7	3250.2	3153.7	3029.3	2928.4	2764.6	2630.0	2442.8	2271.7	2093.1	1905.9
47.5°	3958.2	3814.8	3674.4	3551.5	3390.6	3229.7	3058.6	2859.7	2640.3	2444.2	2221.9
50°	4638.3	4435.0	4240.5	4082.5	3861.7	3675.8	3490.1	3266.3	3023.5	2798.3	2545.2
52.5°	5394.6	5159.0	4901.6	4658.8	4402.8	4164.4	3940.6	3683.1	3412.5	3137.5	2855.3
55°	6307.3	6130.3	5827.5	5518.9	5176.6	4857.7	4569.6	4250.7	3921.6	3560.3	3263.3
57.5°	7736.4	7650.1	7397.0	7088.4	6642.3	6254.6	5766.1	5375.6	4898.7	4401.4	4018.1
60°	9673.0	9566.3	9424.4	9174.2	8820.3	8293.7	7755.4	7148.4	6422.8	5733.9	5080.0
62.5°	10705.8	10667.7	10552.1	10379.5	10049.0	9633.6	9090.9	8423.9	7604.8	6768.0	5934.3
63°	10736.4	10688.2	10588.7	10413.2	10122.1	9719.8	9187.4	8539.4	7737.9	6885.1	6033.8
65°	10321.1	10302.1	10201.1	10009.4	9810.6	9503.4	9090.9	8533.5	7860.7	7054.8	6207.9
67.5°	9153.8	9096.7	8941.7	8883.2	8744.2	8530.7	8216.1	7833.0	7351.7	6718.4	5986.9
70°	7742.2	7657.4	7462.8	7359.0	7189.3	7054.8	6863.1	6589.6	6292.6	5850.9	5305.3
72.5°	6245.9	6070.3	5891.9	5621.3	5384.3	5144.5	4932.3	4739.2	4413.0	4234.6	3820.7
75°	4056.2	3737.2	3431.6	3022.0	2653.4	2327.2	2009.8	1848.9	1513.9	1377.9	1183.4
77.5°	1924.9	1746.5	1506.6	1320.8	1083.9	885.0	722.6	542.7	425.6	333.5	254.5
80°	1553.4	1402.8	1257.9	1089.7	911.3	727.0	557.3	416.8	295.5	204.8	144.8
82.5°	1385.2	1221.4	1043.0	927.4	806.0	659.7	541.2	441.7	326.2	238.4	162.3
85°	538.3	453.5	349.6	285.2	222.3	182.9	165.3	114.1	89.2	70.2	54.1
87.5°	46.8	38.0	30.7	20.4	21.9	11.7	13.1	8.8	7.3	7.3	5.9
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°	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	323.3	321.8	320.3	317.4	317.4	314.5	313.1	311.5	304.3	288.2	275.0
5°	339.4	336.4	333.5	329.1	326.2	321.8	318.8	314.5	298.4	267.6	241.3
7.5°	362.7	356.9	352.5	343.7	339.4	333.5	329.1	321.8	295.5	248.6	212.1
10°	390.5	380.3	373.0	362.7	354.0	346.6	339.4	329.1	292.5	228.2	185.8
12.5°	424.2	412.5	397.8	386.2	374.5	364.2	354.0	340.8	288.2	210.6	165.3
15°	457.8	440.3	430.0	413.9	397.8	383.3	368.6	356.9	289.6	191.6	147.8
17.5°	495.8	478.3	456.4	438.8	421.3	402.3	384.7	361.3	282.3	177.0	134.5
20°	532.5	507.6	487.0	465.2	440.3	416.8	394.9	374.5	276.4	162.3	122.9
22.5°	571.9	542.7	516.4	488.6	457.8	431.5	405.2	378.8	266.2	149.2	112.6
25°	620.2	586.6	548.5	514.9	482.7	450.5	416.8	384.7	256.0	137.5	105.3
27.5°	678.7	634.8	596.8	554.4	509.0	468.0	431.5	396.4	245.7	128.8	98.0
30°	753.3	702.1	648.0	593.9	545.6	498.8	447.6	403.7	235.5	120.0	90.7
32.5°	852.8	788.4	722.6	659.7	595.4	535.4	481.3	424.2	229.6	112.6	83.3
35°	984.4	901.1	820.6	741.6	664.1	590.9	520.7	456.4	229.6	103.9	74.6
37.5°	1108.7	1012.2	909.9	811.8	719.7	634.8	551.5	473.9	218.0	96.5	67.3
40°	1243.4	1127.7	1007.8	892.3	781.1	675.8	580.7	491.5	207.7	87.8	60.0
42.5°	1449.6	1303.3	1146.8	1012.2	879.1	748.9	630.5	525.1	194.5	79.0	52.7
45°	1720.2	1534.4	1350.1	1186.3	1016.6	857.2	716.8	586.6	191.6	71.7	45.3
47.5°	2009.8	1790.4	1573.9	1364.7	1165.8	980.1	811.8	655.3	191.6	64.3	39.4
50°	2298.0	2022.9	1791.9	1549.0	1325.2	1105.8	905.4	727.0	193.1	58.5	32.2
52.5°	2558.3	2264.3	2005.4	1724.5	1477.3	1222.8	1004.9	797.2	190.2	51.2	26.3
55°	2919.6	2574.4	2274.6	1964.5	1674.9	1388.1	1140.9	902.5	191.6	45.3	21.9
57.5°	3585.1	3180.0	2818.7	2412.1	2078.6	1708.4	1408.6	1119.0	209.2	38.0	16.1
60°	4540.3	4013.7	3506.2	3010.3	2586.1	2145.8	1756.7	1415.9	245.7	30.7	11.7
62.5°	5182.5	4493.5	3888.0	3340.9	2847.9	2387.2	1962.9	1575.3	270.6	24.9	7.3
63°	5248.2	4535.9	3927.4	3362.8	2859.7	2398.9	1971.7	1587.1	272.1	23.4	7.3
65°	5372.7	4609.1	3949.4	3367.2	2847.9	2382.8	1965.9	1585.6	275.0	19.0	5.9
67.5°	5230.7	4496.5	3822.1	3241.4	2745.6	2287.7	1892.7	1527.1	273.5	13.1	4.3
70°	4677.8	4069.3	3476.9	2935.7	2485.2	2071.3	1723.1	1392.6	251.6	8.8	2.9
72.5°	3434.5	3020.6	2561.3	2170.7	1872.3	1554.9	1326.7	1045.8	194.5	5.9	1.4
75°	1018.1	927.4	779.7	687.5	607.0	501.7	446.2	348.2	99.4	2.9	0.0
77.5°	203.3	184.3	165.3	150.6	141.9	121.4	115.5	95.1	41.0	1.4	0.0
80°	106.8	87.8	74.6	65.8	57.0	46.8	39.4	32.2	7.3	0.0	0.0
82.5°	102.4	68.8	49.8	41.0	35.1	27.8	21.9	16.1	4.3	0.0	0.0
85°	38.0	29.2	21.9	17.6	14.7	13.1	10.2	8.8	0.0	0.0	0.0
87.5°	5.9	4.3	4.3	2.9	2.9	1.4	1.4	1.4	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°	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	261.8	250.1	244.3	237.0	237.0	235.5	238.4
5°	218.0	201.9	190.2	181.4	182.9	178.4	179.9
7.5°	184.3	168.2	158.0	152.1	150.6	149.2	149.2
10°	159.4	144.8	136.0	131.6	130.2	130.2	130.2
12.5°	141.9	127.2	120.0	117.0	117.0	115.5	115.5
15°	127.2	115.5	108.2	105.3	105.3	103.9	105.3
17.5°	115.5	103.9	98.0	95.1	95.1	93.6	93.6
20°	105.3	95.1	89.2	84.9	84.9	83.3	84.9
22.5°	96.5	86.3	79.0	76.1	74.6	73.1	74.6
25°	87.8	77.5	70.2	65.8	64.3	64.3	62.9
27.5°	80.4	70.2	61.4	57.0	55.6	55.6	54.1
30°	73.1	61.4	52.7	48.2	46.8	46.8	46.8
32.5°	65.8	52.7	45.3	41.0	39.4	39.4	39.4
35°	58.5	45.3	38.0	33.7	32.2	32.2	32.2
37.5°	49.8	38.0	29.2	26.3	24.9	23.4	23.4
40°	42.4	29.2	21.9	19.0	16.1	16.1	16.1
42.5°	35.1	23.4	16.1	11.7	10.2	8.8	10.2
45°	29.2	17.6	10.2	5.9	4.3	4.3	4.3
47.5°	23.4	11.7	4.3	1.4	1.4	1.4	1.4
50°	17.6	7.3	1.4	0.0	0.0	1.4	1.4
52.5°	13.1	4.3	0.0	0.0	0.0	0.0	0.0
55°	7.3	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)