

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: P163267

Luminaire Tested: **LDRL-SL2-E05-E-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163267
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-E05-E-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: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8892.7 lumens
Efficiency: N/A
Efficacy: 69.9 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

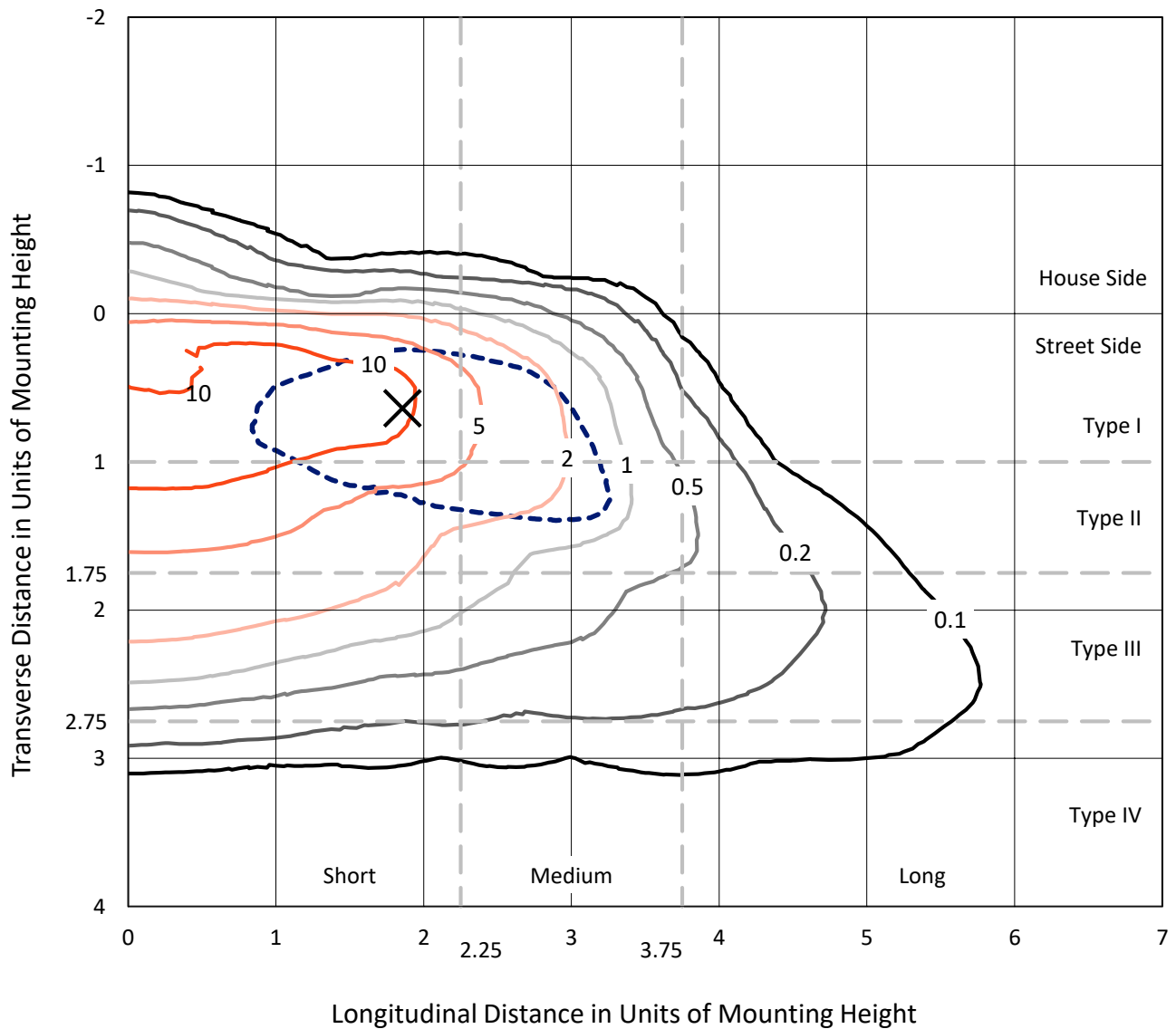
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

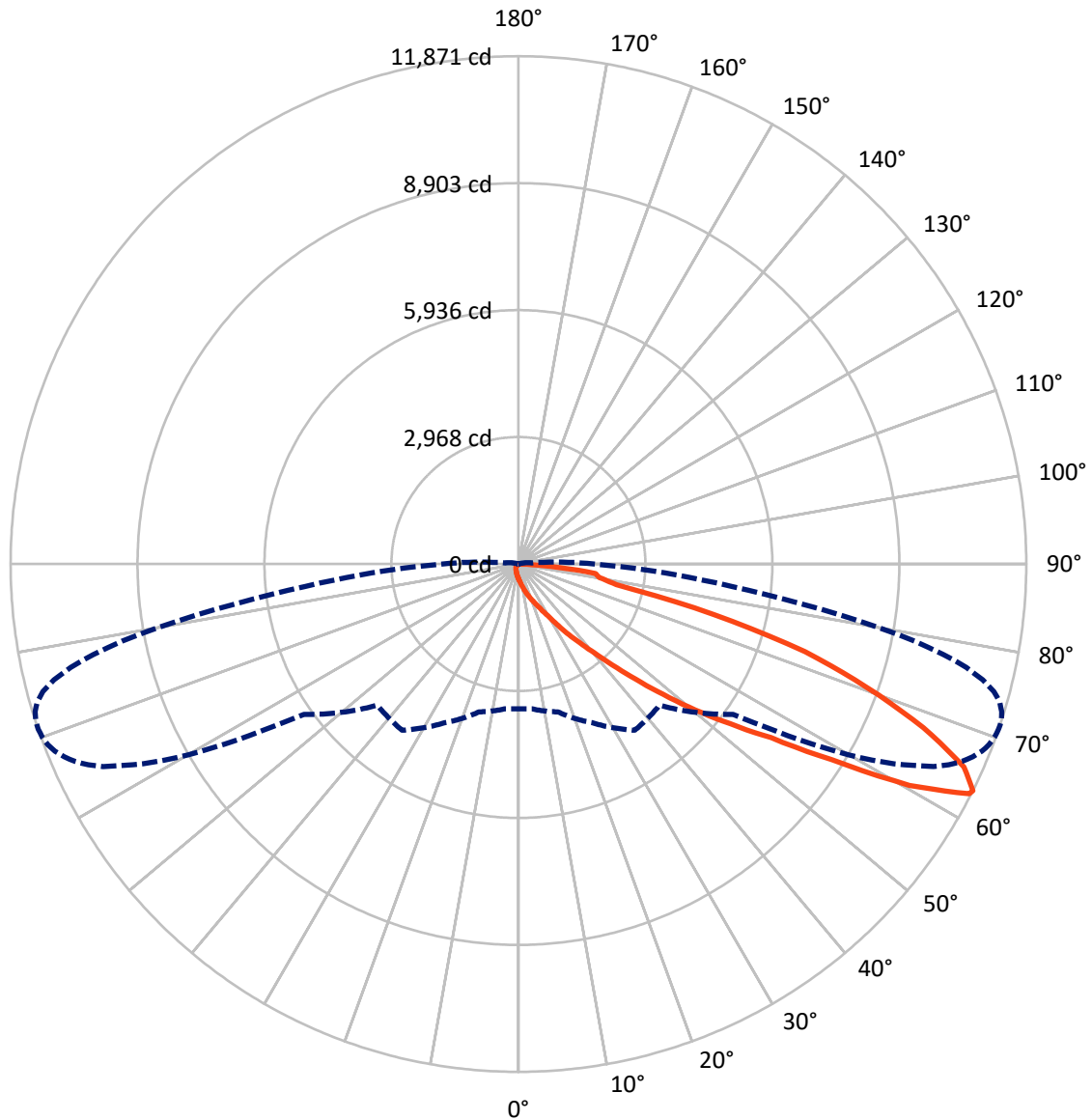
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 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	188.8	0.0	188.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8703.9	0.0	8703.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	8892.7	0.0	8892.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	0.4
10°-20°	146.2	1.6
20°-30°	297.0	3.3
30°-40°	725.6	8.2
40°-50°	1622.8	18.2
50°-60°	2281.8	25.7
60°-70°	2683.2	30.2
70°-80°	968.9	10.9
80°-90°	129.6	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°	8892.7	100.0
0°-180°	8892.7	100.0



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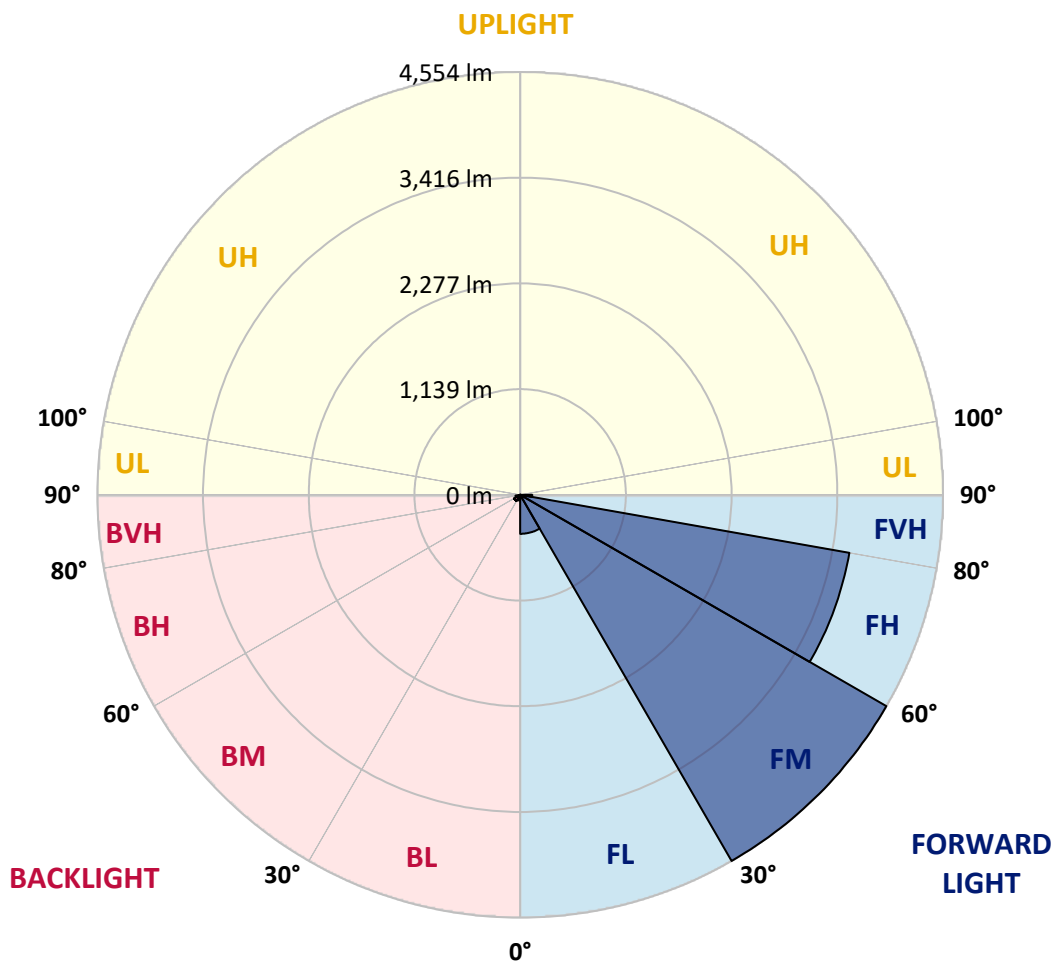
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.2	4.7			
FM	(30°-60°)	4554.1	51.2			
FH	(60°-80°)	3600.3	40.5			G2/5000
FVH	(80°-90°)	129.3	1.5			G2/225
BL	(0°-30°)	60.7	0.7	B0/110		
BM	(30°-60°)	76.1	0.9	B0/220		
BH	(60°-80°)	51.8	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°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	446.2	451.0	447.8	439.7	430.0	417.1	405.8	405.8	404.2	399.3	400.9
5°	585.2	586.8	580.4	561.0	543.2	515.7	485.0	481.8	478.5	473.7	472.1
7.5°	721.0	727.5	721.0	700.0	664.4	622.4	573.9	569.1	559.4	559.4	552.9
10°	860.1	860.1	853.6	829.3	797.0	737.2	675.8	667.7	656.4	653.1	643.4
12.5°	958.7	958.7	955.4	942.5	916.6	863.3	788.9	780.8	766.3	761.4	750.1
15°	997.5	997.5	999.1	1010.4	1012.0	987.8	910.2	903.7	889.2	876.2	871.4
17.5°	1021.7	1020.1	1020.1	1036.3	1065.4	1081.5	1031.4	1025.0	1008.8	1002.3	986.2
20°	1075.1	1071.8	1062.1	1062.1	1089.6	1146.2	1146.2	1144.6	1126.8	1122.0	1113.9
22.5°	1154.3	1151.1	1122.0	1097.7	1110.6	1181.8	1248.1	1244.8	1238.4	1231.9	1227.0
25°	1283.6	1272.3	1222.2	1151.1	1139.7	1215.7	1325.7	1333.7	1338.6	1338.6	1341.8
27.5°	1479.2	1464.7	1375.8	1243.2	1193.1	1270.7	1411.3	1427.5	1442.1	1445.3	1459.8
30°	1750.8	1725.0	1597.3	1403.3	1288.5	1351.5	1537.4	1555.2	1576.2	1582.7	1605.3
32.5°	2197.0	2182.5	2059.6	1768.6	1522.9	1510.0	1713.6	1736.3	1763.8	1775.1	1802.6
35°	2876.0	2879.3	2779.0	2517.1	2177.6	1999.8	2028.9	2048.3	2058.0	2091.9	2106.5
37.5°	3336.8	3344.8	3367.5	3264.0	3021.5	2840.5	2612.5	2633.5	2583.4	2588.3	2589.9
40°	3589.0	3614.8	3747.4	3847.6	3828.2	3723.1	3540.5	3551.8	3458.0	3437.0	3335.1
42.5°	3757.1	3791.0	4002.8	4313.2	4471.7	4567.0	4525.0	4520.2	4447.4	4419.9	4334.2
45°	3862.2	3892.9	4159.6	4617.2	4982.5	5260.6	5375.4	5388.3	5326.9	5299.4	5228.2
47.5°	3857.3	3892.9	4179.0	4730.3	5268.7	5713.2	6036.6	6052.7	6089.9	6065.7	6070.5
50°	3643.9	3677.9	3965.6	4537.9	5184.6	5920.2	6511.9	6563.6	6623.4	6663.8	6683.2
52.5°	3385.3	3409.5	3664.9	4208.1	4825.7	5834.5	6793.2	6882.1	6971.0	7047.0	7100.3
55°	3289.9	3317.4	3517.8	3968.9	4537.9	5475.6	6924.1	7055.1	7181.2	7305.6	7407.5
57.5°	3340.0	3365.9	3509.7	3855.7	4366.6	5097.3	6961.3	7165.0	7371.9	7574.0	7774.5
60°	3524.3	3551.8	3674.6	3960.8	4321.3	4879.0	6815.8	7153.7	7498.0	7850.5	8181.9
62.5°	3451.5	3462.9	3643.9	4145.1	4644.6	4693.1	6287.2	6759.2	7284.6	7827.8	8362.9
63°	3382.0	3395.0	3579.3	4095.0	4743.3	4665.7	6123.9	6621.8	7176.3	7761.5	8343.5
65°	3066.8	3068.4	3209.1	3616.4	4633.3	4714.2	5396.4	5871.7	6508.6	7210.3	7945.8
67.5°	2289.2	2277.9	2413.7	2724.1	3637.5	4715.8	4631.7	4898.4	5341.4	5963.8	6623.4
70°	811.6	793.8	1013.6	1443.7	2266.5	3857.3	3980.2	3998.0	4120.8	4457.1	4871.0
72.5°	263.5	268.4	323.3	528.6	1044.4	2596.3	3603.5	3548.5	3516.2	3514.6	3569.6
75°	105.1	106.7	129.3	234.4	468.8	1251.3	3155.7	3186.4	3197.7	3213.9	3231.7
77.5°	50.1	55.0	72.7	130.9	232.8	619.2	2258.5	2518.7	2667.5	2782.3	2851.8
80°	17.8	21.0	40.4	80.8	108.3	284.5	1189.9	1435.6	1653.8	1935.1	2177.6
82.5°	0.0	0.0	8.1	56.6	59.8	114.8	488.2	572.3	654.7	848.7	1089.6
85°	0.0	0.0	0.0	16.2	17.8	19.4	164.9	198.8	223.1	260.3	300.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	9.7	24.2	37.2
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	397.7	396.1	396.1	392.8	391.2	388.0	386.4	381.5	379.9	379.9	379.9
5°	470.4	464.0	460.7	452.7	447.8	446.2	438.1	434.9	430.0	431.6	423.6
7.5°	551.3	540.0	535.1	523.8	520.6	509.2	506.0	497.9	493.1	483.4	480.1
10°	640.2	625.6	617.6	599.8	594.9	586.8	577.1	567.4	559.4	549.7	544.8
12.5°	742.0	729.1	722.6	698.4	687.1	675.8	662.8	649.9	637.0	628.9	617.6
15°	861.7	840.7	834.2	811.6	792.2	777.6	759.8	743.7	734.0	717.8	706.5
17.5°	979.7	958.7	953.8	919.9	898.9	889.2	869.8	848.7	831.0	814.8	797.0
20°	1097.7	1083.2	1070.2	1037.9	1015.3	999.1	973.2	952.2	937.7	915.0	892.4
22.5°	1215.7	1201.2	1191.5	1157.5	1136.5	1113.9	1091.2	1068.6	1047.6	1020.1	994.2
25°	1337.0	1327.3	1322.4	1291.7	1272.3	1251.3	1228.7	1202.8	1176.9	1146.2	1118.7
27.5°	1463.1	1466.3	1456.6	1450.1	1429.1	1414.6	1379.0	1361.2	1341.8	1304.6	1270.7
30°	1623.1	1632.8	1629.6	1634.4	1621.5	1611.8	1584.3	1561.7	1539.1	1503.5	1464.7
32.5°	1825.2	1838.1	1844.6	1862.4	1855.9	1852.7	1844.6	1812.3	1796.1	1734.7	1718.5
35°	2137.2	2130.7	2158.2	2172.8	2166.3	2163.1	2153.4	2135.6	2116.2	2072.5	2032.1
37.5°	2543.0	2549.5	2559.2	2530.1	2510.7	2509.0	2479.9	2462.2	2434.7	2386.2	2337.7
40°	3286.6	3246.2	3201.0	3078.1	3024.8	2994.0	2908.4	2884.1	2837.2	2770.9	2720.8
42.5°	4253.4	4213.0	4077.2	3871.9	3761.9	3610.0	3540.5	3454.8	3388.5	3280.2	3222.0
45°	5213.7	5097.3	5081.1	4841.9	4706.1	4505.6	4381.1	4237.2	4086.9	3944.6	3841.2
47.5°	6023.6	5997.8	5918.6	5773.1	5647.0	5478.8	5318.8	5097.3	4942.1	4740.0	4554.1
50°	6671.9	6670.3	6641.2	6557.1	6452.1	6316.3	6175.6	5988.1	5811.9	5564.5	5365.7
52.5°	7156.9	7182.8	7192.5	7166.6	7126.2	7006.6	6935.4	6778.6	6629.9	6419.7	6204.7
55°	7512.6	7608.0	7656.5	7711.4	7700.1	7658.1	7654.8	7553.0	7485.1	7318.6	7166.6
57.5°	7952.3	8109.1	8259.5	8526.2	8535.9	8629.7	8678.2	8726.7	8739.6	8673.3	8623.2
60°	8511.7	8831.8	9116.3	9674.0	9819.5	10049.1	10197.8	10359.5	10496.9	10508.2	10505.0
62.5°	8906.1	9399.2	9858.3	10686.1	10969.0	11234.1	11432.9	11589.8	11685.1	11782.1	11827.4
63°	8917.4	9457.4	9945.6	10799.2	11096.7	11348.9	11538.0	11683.5	11783.8	11842.0	11871.1
65°	8644.2	9299.0	9881.0	10731.3	11011.0	11264.8	11363.4	11458.8	11507.3	11529.9	11444.3
67.5°	7326.7	7966.9	8645.8	9596.4	9835.7	10139.6	10220.5	10269.0	10291.6	10286.7	10214.0
70°	5478.8	6015.6	6770.5	7856.9	8173.8	8471.2	8655.5	8734.8	8760.6	8752.5	8644.2
72.5°	3825.0	4140.2	4762.7	5971.9	6403.6	6785.1	7013.0	7131.0	7155.3	7106.8	7006.6
75°	3212.3	3228.5	3369.1	4030.3	4434.5	4841.9	5098.9	5173.3	5124.8	4977.7	4722.2
77.5°	2867.9	2903.5	2903.5	3002.1	3081.3	3194.5	3218.8	3037.7	2827.5	2555.9	2336.1
80°	2405.6	2530.1	2617.4	2690.1	2698.2	2675.6	2615.7	2513.9	2352.2	2145.3	1915.7
82.5°	1461.5	1707.2	1807.4	2182.5	2366.8	2491.3	2481.6	2345.8	2222.9	2007.9	1812.3
85°	368.6	397.7	431.6	561.0	628.9	767.9	855.2	895.6	910.2	835.8	756.6
87.5°	35.6	24.2	40.4	30.7	43.6	32.3	43.6	40.4	50.1	53.3	58.2
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°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	376.7	375.1	373.4	371.8	370.2	368.6	365.4	365.4	362.1	360.5	358.9
5°	418.7	415.5	413.9	410.6	405.8	402.5	397.7	391.2	386.4	384.8	381.5
7.5°	472.1	464.0	460.7	455.9	449.4	439.7	433.3	428.4	420.3	415.5	405.8
10°	531.9	523.8	514.1	504.4	494.7	483.4	475.3	468.8	455.9	449.4	438.1
12.5°	607.9	593.3	582.0	569.1	556.1	543.2	533.5	514.1	502.8	488.2	478.5
15°	685.5	672.5	659.6	643.4	624.0	603.0	593.3	575.5	561.0	538.3	525.4
17.5°	779.2	755.0	735.6	716.2	698.4	679.0	659.6	632.1	611.1	591.7	565.8
20°	871.4	842.3	821.3	795.4	769.5	738.8	716.2	696.8	667.7	641.8	614.3
22.5°	970.0	940.9	906.9	881.1	845.5	821.3	790.5	758.2	729.1	695.2	661.2
25°	1089.6	1058.9	1020.1	986.2	945.7	911.8	874.6	837.4	801.9	763.1	719.4
27.5°	1236.7	1204.4	1162.4	1122.0	1068.6	1026.6	991.0	940.9	895.6	847.1	797.0
30°	1422.7	1387.1	1335.4	1277.2	1223.8	1176.9	1126.8	1060.5	1010.4	952.2	887.5
32.5°	1665.1	1623.1	1553.6	1498.6	1432.4	1370.9	1301.4	1235.1	1164.0	1088.0	1013.6
35°	1970.7	1931.9	1851.1	1770.2	1697.5	1624.7	1537.4	1461.5	1361.2	1269.1	1173.7
37.5°	2287.6	2218.0	2143.7	2056.4	1965.8	1878.5	1771.8	1666.8	1552.0	1451.8	1332.1
40°	2649.7	2565.6	2504.2	2410.4	2282.7	2158.2	2059.6	1928.7	1784.8	1650.6	1510.0
42.5°	3146.0	3052.2	2942.3	2800.0	2707.9	2562.4	2434.7	2279.5	2090.3	1940.0	1770.2
45°	3719.9	3592.2	3485.5	3348.1	3236.5	3055.5	2906.7	2699.8	2510.7	2313.4	2106.5
47.5°	4374.7	4216.2	4061.0	3925.2	3747.4	3569.6	3380.4	3160.6	2918.1	2701.4	2455.7
50°	5126.4	4901.7	4686.7	4512.1	4268.0	4062.6	3857.3	3610.0	3341.6	3092.7	2813.0
52.5°	5962.2	5701.9	5417.4	5149.0	4866.1	4602.6	4355.3	4070.7	3771.6	3467.7	3155.7
55°	6971.0	6775.4	6440.7	6099.6	5721.3	5368.9	5050.4	4698.0	4334.2	3934.9	3606.7
57.5°	8550.5	8455.1	8175.4	7834.3	7341.2	6912.8	6372.8	5941.2	5414.2	4864.5	4440.9
60°	10690.9	10572.9	10416.1	10139.6	9748.4	9166.4	8571.5	7900.6	7098.7	6337.3	5614.6
62.5°	11832.3	11790.2	11662.5	11471.7	11106.4	10647.3	10047.5	9310.3	8405.0	7480.2	6558.7
63°	11866.2	11812.9	11702.9	11508.9	11187.2	10742.6	10154.2	9438.0	8552.1	7609.6	6668.7
65°	11407.1	11386.1	11274.5	11062.7	10842.9	10503.4	10047.5	9431.5	8687.9	7797.1	6861.1
67.5°	10117.0	10053.9	9882.6	9817.9	9664.3	9428.3	9080.7	8657.2	8125.3	7425.3	6616.9
70°	8556.9	8463.2	8248.1	8133.4	7945.8	7797.1	7585.3	7283.0	6954.8	6466.6	5863.6
72.5°	6903.1	6709.1	6511.9	6212.8	5950.9	5685.8	5451.3	5237.9	4877.4	4680.2	4222.7
75°	4483.0	4130.5	3792.7	3340.0	2932.6	2572.1	2221.3	2043.4	1673.2	1522.9	1307.9
77.5°	2127.5	1930.3	1665.1	1459.8	1197.9	978.1	798.6	599.8	470.4	368.6	281.3
80°	1716.9	1550.4	1390.3	1204.4	1007.2	803.5	615.9	460.7	326.6	226.3	160.0
82.5°	1531.0	1349.9	1152.7	1025.0	890.8	729.1	598.2	488.2	360.5	263.5	179.4
85°	594.9	501.2	386.4	315.2	245.7	202.1	182.7	126.1	98.6	77.6	59.8
87.5°	51.7	42.0	33.9	22.6	24.2	12.9	14.5	9.7	8.1	8.1	6.5
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°	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	357.3	355.7	354.0	350.8	350.8	347.6	346.0	344.3	336.3	318.5	303.9
5°	375.1	371.8	368.6	363.7	360.5	355.7	352.4	347.6	329.8	295.8	266.7
7.5°	400.9	394.5	389.6	379.9	375.1	368.6	363.7	355.7	326.6	274.8	234.4
10°	431.6	420.3	412.2	400.9	391.2	383.1	375.1	363.7	323.3	252.2	205.3
12.5°	468.8	455.9	439.7	426.8	413.9	402.5	391.2	376.7	318.5	232.8	182.7
15°	506.0	486.6	475.3	457.5	439.7	423.6	407.4	394.5	320.1	211.8	163.3
17.5°	548.0	528.6	504.4	485.0	465.6	444.6	425.2	399.3	312.0	195.6	148.7
20°	588.5	561.0	538.3	514.1	486.6	460.7	436.5	413.9	305.5	179.4	135.8
22.5°	632.1	599.8	570.7	540.0	506.0	476.9	447.8	418.7	294.2	164.9	124.5
25°	685.5	648.3	606.2	569.1	533.5	497.9	460.7	425.2	282.9	152.0	116.4
27.5°	750.1	701.6	659.6	612.7	562.6	517.3	476.9	438.1	271.6	142.3	108.3
30°	832.6	776.0	716.2	656.4	603.0	551.3	494.7	446.2	260.3	132.6	100.2
32.5°	942.5	871.4	798.6	729.1	658.0	591.7	531.9	468.8	253.8	124.5	92.1
35°	1088.0	995.9	906.9	819.6	734.0	653.1	575.5	504.4	253.8	114.8	82.4
37.5°	1225.4	1118.7	1005.6	897.2	795.4	701.6	609.5	523.8	240.9	106.7	74.4
40°	1374.2	1246.4	1113.9	986.2	863.3	746.9	641.8	543.2	229.6	97.0	66.3
42.5°	1602.1	1440.4	1267.5	1118.7	971.6	827.7	696.8	580.4	215.0	87.3	58.2
45°	1901.2	1695.9	1492.2	1311.1	1123.6	947.4	792.2	648.3	211.8	79.2	50.1
47.5°	2221.3	1978.8	1739.5	1508.3	1288.5	1083.2	897.2	724.3	211.8	71.1	43.6
50°	2539.8	2235.8	1980.4	1712.0	1464.7	1222.2	1000.7	803.5	213.4	64.7	35.6
52.5°	2827.5	2502.6	2216.4	1906.0	1632.8	1351.5	1110.6	881.1	210.2	56.6	29.1
55°	3226.8	2845.3	2513.9	2171.2	1851.1	1534.2	1261.0	997.5	211.8	50.1	24.2
57.5°	3962.4	3514.6	3115.3	2665.9	2297.3	1888.2	1556.8	1236.7	231.2	42.0	17.8
60°	5018.1	4436.1	3875.1	3327.1	2858.2	2371.6	1941.6	1564.9	271.6	33.9	12.9
62.5°	5727.8	4966.3	4297.1	3692.4	3147.6	2638.4	2169.5	1741.1	299.1	27.5	8.1
63°	5800.5	5013.2	4340.7	3716.7	3160.6	2651.3	2179.2	1754.1	300.7	25.9	8.1
65°	5938.0	5094.1	4365.0	3721.5	3147.6	2633.5	2172.8	1752.4	303.9	21.0	6.5
67.5°	5781.1	4969.6	4224.3	3582.5	3034.5	2528.4	2091.9	1687.8	302.3	14.5	4.8
70°	5170.0	4497.5	3842.8	3244.6	2746.7	2289.2	1904.4	1539.1	278.1	9.7	3.2
72.5°	3795.9	3338.4	2830.8	2399.1	2069.3	1718.5	1466.3	1155.9	215.0	6.5	1.6
75°	1125.2	1025.0	861.7	759.8	670.9	554.5	493.1	384.8	109.9	3.2	0.0
77.5°	224.7	203.7	182.7	166.5	156.8	134.2	127.7	105.1	45.3	1.6	0.0
80°	118.0	97.0	82.4	72.7	63.0	51.7	43.6	35.6	8.1	0.0	0.0
82.5°	113.2	76.0	55.0	45.3	38.8	30.7	24.2	17.8	4.8	0.0	0.0
85°	42.0	32.3	24.2	19.4	16.2	14.5	11.3	9.7	0.0	0.0	0.0
87.5°	6.5	4.8	4.8	3.2	3.2	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°	341.1	341.1	341.1	341.1	341.1	341.1	341.1
2.5°	289.4	276.4	270.0	261.9	261.9	260.3	263.5
5°	240.9	223.1	210.2	200.5	202.1	197.2	198.8
7.5°	203.7	185.9	174.6	168.1	166.5	164.9	164.9
10°	176.2	160.0	150.3	145.5	143.9	143.9	143.9
12.5°	156.8	140.6	132.6	129.3	129.3	127.7	127.7
15°	140.6	127.7	119.6	116.4	116.4	114.8	116.4
17.5°	127.7	114.8	108.3	105.1	105.1	103.5	103.5
20°	116.4	105.1	98.6	93.8	93.8	92.1	93.8
22.5°	106.7	95.4	87.3	84.1	82.4	80.8	82.4
25°	97.0	85.7	77.6	72.7	71.1	71.1	69.5
27.5°	88.9	77.6	67.9	63.0	61.4	61.4	59.8
30°	80.8	67.9	58.2	53.3	51.7	51.7	51.7
32.5°	72.7	58.2	50.1	45.3	43.6	43.6	43.6
35°	64.7	50.1	42.0	37.2	35.6	35.6	35.6
37.5°	55.0	42.0	32.3	29.1	27.5	25.9	25.9
40°	46.9	32.3	24.2	21.0	17.8	17.8	17.8
42.5°	38.8	25.9	17.8	12.9	11.3	9.7	11.3
45°	32.3	19.4	11.3	6.5	4.8	4.8	4.8
47.5°	25.9	12.9	4.8	1.6	1.6	1.6	1.6
50°	19.4	8.1	1.6	0.0	0.0	1.6	1.6
52.5°	14.5	4.8	0.0	0.0	0.0	0.0	0.0
55°	8.1	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.2	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)