

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: P163282

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163282
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-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8809.4 lumens
Efficiency: N/A
Efficacy: 56.3 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

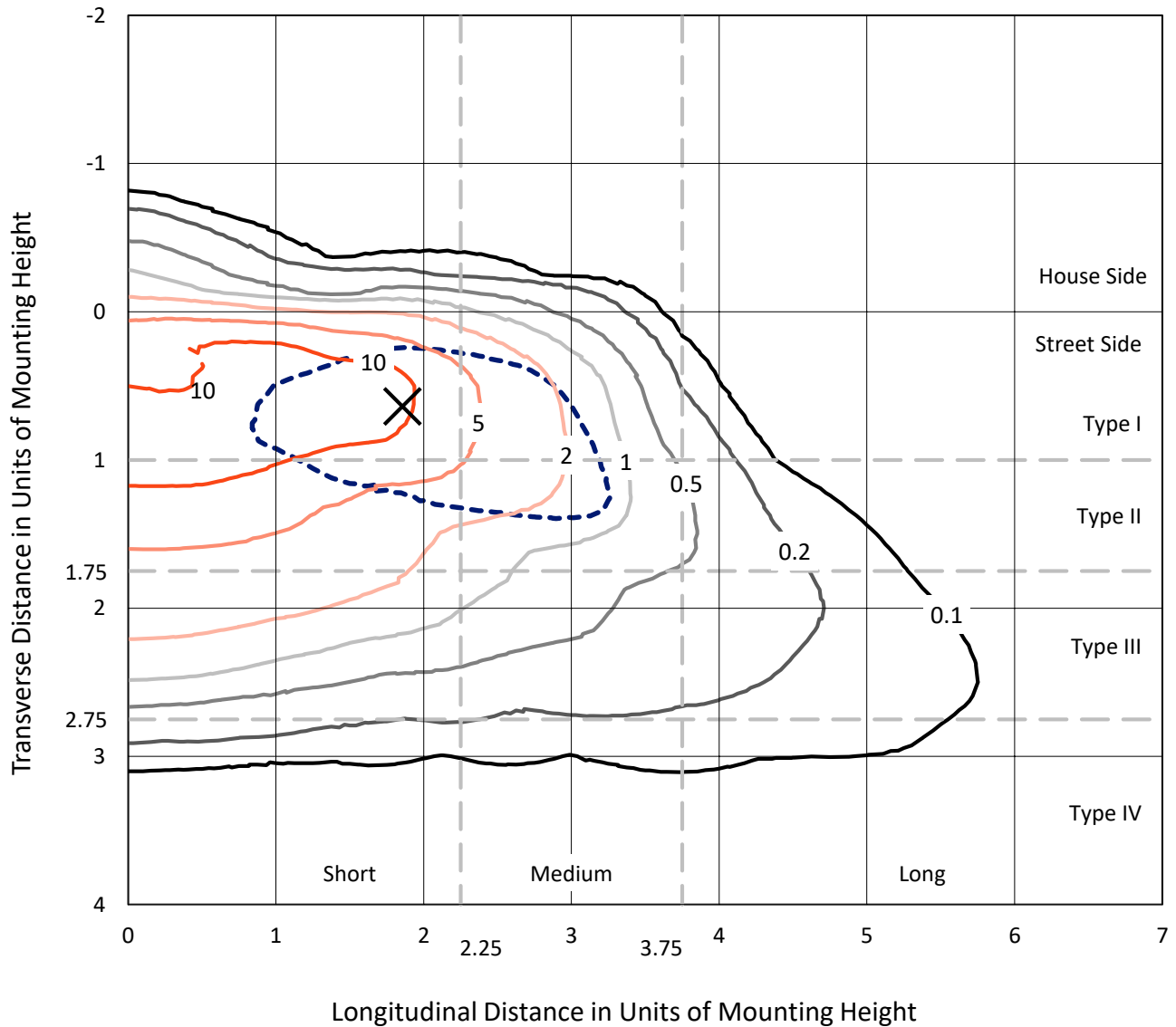
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

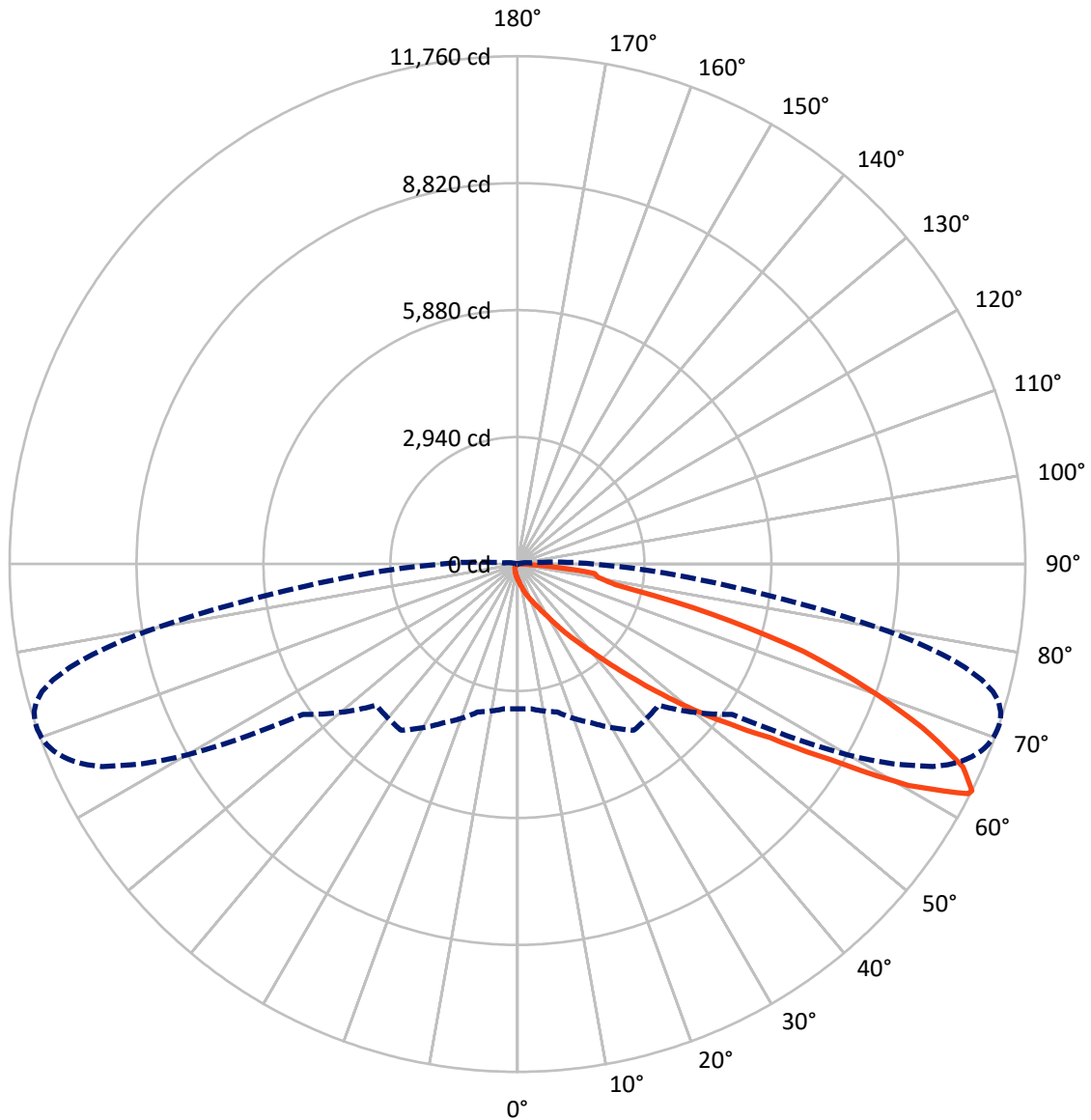
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 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	187.0	0.0	187.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8622.4	0.0	8622.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	8809.4	0.0	8809.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	0.4
10°-20°	144.8	1.6
20°-30°	294.2	3.3
30°-40°	718.8	8.2
40°-50°	1607.6	18.2
50°-60°	2260.4	25.7
60°-70°	2658.1	30.2
70°-80°	959.8	10.9
80°-90°	128.3	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°	8809.4	100.0
0°-180°	8809.4	100.0



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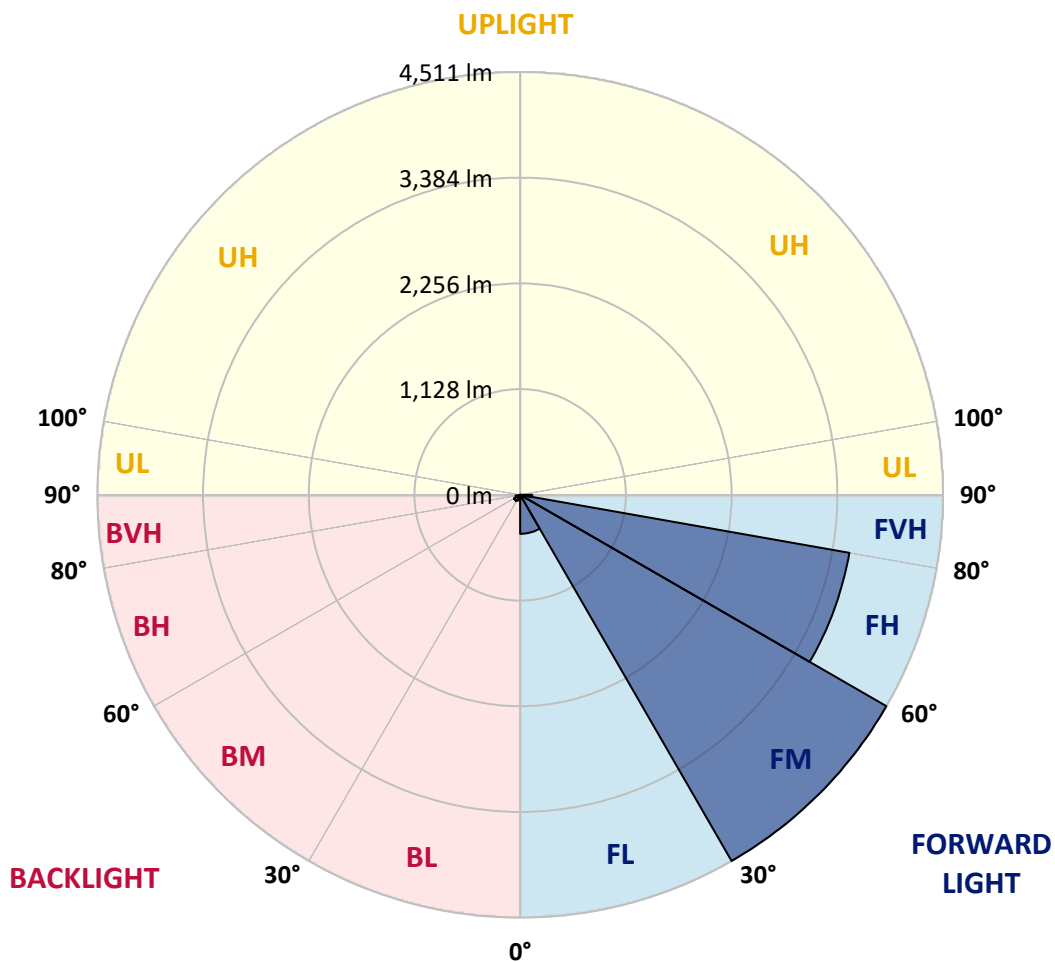
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.3	4.7			
FM (30°-60°)	4511.4	51.2			
FH (60°-80°)	3566.6	40.5			G2/5000
FVH (80°-90°)	128.1	1.5			G2/225
BL (0°-30°)	60.1	0.7	B0/110		
BM (30°-60°)	75.4	0.9	B0/220		
BH (60°-80°)	51.3	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°	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	442.0	446.8	443.6	435.6	426.0	413.2	402.0	402.0	400.4	395.6	397.1
5°	579.7	581.3	575.0	555.7	538.1	510.9	480.5	477.3	474.0	469.3	467.7
7.5°	714.2	720.7	714.2	693.4	658.2	616.6	568.5	563.8	554.2	554.2	547.7
10°	852.0	852.0	845.6	821.5	789.5	730.3	669.5	661.4	650.2	647.0	637.4
12.5°	949.7	949.7	946.4	933.7	908.0	855.2	781.5	773.5	759.1	754.3	743.1
15°	988.2	988.2	989.7	1000.9	1002.5	978.5	901.7	895.2	880.9	868.0	863.2
17.5°	1012.1	1010.5	1010.5	1026.6	1055.4	1071.4	1021.7	1015.4	999.3	992.9	977.0
20°	1065.0	1061.8	1052.1	1052.1	1079.4	1135.5	1135.5	1133.9	1116.2	1111.5	1103.5
22.5°	1143.5	1140.3	1111.5	1087.4	1100.2	1170.7	1236.4	1233.1	1226.8	1220.4	1215.5
25°	1271.6	1260.4	1210.7	1140.3	1129.0	1204.3	1313.3	1321.2	1326.1	1326.1	1329.2
27.5°	1465.3	1451.0	1362.9	1231.6	1181.9	1258.8	1398.1	1414.1	1428.6	1431.8	1446.1
30°	1734.4	1708.8	1582.3	1390.2	1276.4	1338.8	1523.0	1540.6	1561.4	1567.9	1590.3
32.5°	2176.4	2162.0	2040.3	1752.0	1508.6	1495.9	1697.5	1720.0	1747.3	1758.5	1785.7
35°	2849.1	2852.3	2753.0	2493.5	2157.2	1981.1	2009.9	2029.1	2038.7	2072.3	2086.8
37.5°	3305.5	3313.5	3335.9	3233.4	2993.2	2813.9	2588.0	2608.8	2559.2	2564.0	2565.6
40°	3555.4	3580.9	3712.3	3811.5	3792.3	3688.2	3507.3	3518.5	3425.6	3404.8	3303.8
42.5°	3721.9	3755.5	3965.3	4272.8	4429.8	4524.2	4482.6	4477.8	4405.7	4378.5	4293.6
45°	3826.0	3856.4	4120.6	4573.9	4935.8	5211.3	5325.0	5337.8	5277.0	5249.7	5179.2
47.5°	3821.2	3856.4	4139.8	4686.0	5219.3	5659.7	5980.0	5996.0	6032.8	6008.9	6013.6
50°	3609.8	3643.4	3928.4	4495.4	5136.0	5864.7	6450.9	6502.1	6561.3	6601.4	6620.6
52.5°	3353.6	3377.6	3630.6	4168.7	4780.5	5779.8	6729.5	6817.6	6905.7	6981.0	7033.8
55°	3259.1	3286.3	3484.8	3931.7	4495.4	5424.3	6859.2	6989.0	7113.9	7237.1	7338.1
57.5°	3308.7	3334.4	3476.8	3819.6	4325.7	5049.5	6896.1	7097.9	7302.8	7503.0	7701.7
60°	3491.3	3518.5	3640.2	3923.7	4280.8	4833.3	6751.9	7086.7	7427.7	7776.9	8105.2
62.5°	3419.2	3430.5	3609.8	4106.3	4601.1	4649.1	6228.3	6695.9	7216.3	7754.5	8284.5
63°	3350.3	3363.2	3545.8	4056.6	4698.9	4622.0	6066.5	6559.8	7109.1	7688.8	8265.3
65°	3038.1	3039.6	3179.0	3582.5	4589.9	4670.0	5345.8	5816.7	6447.6	7142.7	7871.3
67.5°	2267.7	2256.6	2391.1	2698.6	3603.4	4671.6	4588.3	4852.5	5291.4	5907.9	6561.3
70°	804.0	786.4	1004.1	1430.2	2245.3	3821.2	3942.9	3960.5	4082.2	4415.3	4825.4
72.5°	261.0	265.9	320.3	523.6	1034.6	2572.0	3569.7	3515.3	3483.3	3481.7	3536.2
75°	104.1	105.7	128.1	232.2	464.4	1239.6	3126.1	3156.5	3167.7	3183.8	3201.4
77.5°	49.6	54.5	72.0	129.7	230.6	613.4	2237.3	2495.1	2642.5	2756.2	2825.1
80°	17.6	20.8	40.0	80.0	107.3	281.8	1178.8	1422.1	1638.3	1917.0	2157.2
82.5°	0.0	0.0	8.0	56.1	59.2	113.7	483.6	566.9	648.6	840.7	1079.4
85°	0.0	0.0	0.0	16.0	17.6	19.2	163.4	196.9	221.0	257.9	297.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	9.6	24.0	36.9
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°	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	394.0	392.4	392.4	389.1	387.5	384.4	382.8	377.9	376.3	376.3	376.3
5°	466.0	459.7	456.4	448.5	443.6	442.0	434.0	430.8	426.0	427.6	419.6
7.5°	546.1	534.9	530.1	518.9	515.7	504.4	501.3	493.2	488.5	478.9	475.6
10°	634.2	619.7	611.8	594.2	589.3	581.3	571.7	562.1	554.2	544.5	539.7
12.5°	735.0	722.3	715.8	691.9	680.7	669.5	656.6	643.8	631.0	623.0	611.8
15°	853.6	832.8	826.4	804.0	784.8	770.3	752.7	736.7	727.1	711.1	699.9
17.5°	970.5	949.7	944.9	911.3	890.5	880.9	861.6	840.7	823.2	807.2	789.5
20°	1087.4	1073.1	1060.2	1028.2	1005.8	989.7	964.1	943.3	928.9	906.4	884.0
22.5°	1204.3	1189.9	1180.3	1146.7	1125.9	1103.5	1081.0	1058.6	1037.8	1010.5	984.9
25°	1324.5	1314.9	1310.0	1279.6	1260.4	1239.6	1217.2	1191.5	1165.9	1135.5	1108.2
27.5°	1449.4	1452.6	1443.0	1436.5	1415.7	1401.3	1366.1	1348.4	1329.2	1292.4	1258.8
30°	1607.9	1617.5	1614.3	1619.1	1606.3	1596.7	1569.5	1547.1	1524.7	1489.4	1451.0
32.5°	1808.1	1820.9	1827.3	1844.9	1838.5	1835.3	1827.3	1795.3	1779.3	1718.4	1702.4
35°	2117.2	2110.7	2138.0	2152.4	2146.0	2142.8	2133.2	2115.6	2096.4	2053.1	2013.1
37.5°	2519.2	2525.6	2535.2	2506.4	2487.2	2485.5	2456.7	2439.1	2411.9	2363.8	2315.8
40°	3255.8	3215.8	3171.0	3049.3	2996.5	2965.9	2881.1	2857.1	2810.6	2744.9	2695.3
42.5°	4213.5	4173.5	4039.0	3835.6	3726.7	3576.2	3507.3	3422.4	3356.7	3249.5	3191.8
45°	5164.8	5049.5	5033.5	4796.5	4662.0	4463.4	4340.0	4197.5	4048.6	3907.6	3805.2
47.5°	5967.2	5941.6	5863.1	5719.0	5594.1	5427.5	5269.0	5049.5	4895.8	4695.6	4511.4
50°	6609.4	6607.8	6579.0	6495.7	6391.6	6257.1	6117.7	5932.0	5757.4	5512.4	5315.4
52.5°	7089.8	7115.5	7125.1	7099.4	7059.4	6940.9	6870.4	6715.1	6567.8	6359.5	6146.6
55°	7442.2	7536.7	7584.8	7639.1	7627.9	7586.3	7583.1	7482.2	7415.0	7250.0	7099.4
57.5°	7877.8	8033.1	8182.1	8446.3	8455.9	8548.8	8596.9	8644.9	8657.7	8592.0	8542.4
60°	8431.9	8749.0	9030.9	9583.4	9727.5	9954.9	10102.2	10262.4	10398.5	10409.7	10406.6
62.5°	8822.6	9311.1	9765.9	10586.0	10866.2	11128.8	11325.8	11481.2	11575.6	11671.7	11716.6
63°	8833.8	9368.8	9852.4	10698.0	10992.7	11242.6	11429.9	11574.0	11673.4	11731.0	11759.9
65°	8563.2	9211.9	9788.4	10630.7	10907.8	11159.2	11256.9	11351.4	11399.5	11421.9	11337.1
67.5°	7258.0	7892.2	8564.8	9506.5	9743.5	10044.6	10124.7	10172.8	10195.2	10190.3	10118.3
70°	5427.5	5959.2	6707.1	7783.3	8097.2	8391.8	8574.4	8653.0	8678.5	8670.5	8563.2
72.5°	3789.2	4101.4	4718.1	5915.9	6343.6	6721.5	6947.3	7064.2	7088.3	7040.2	6940.9
75°	3182.2	3198.2	3337.5	3992.5	4392.9	4796.5	5051.1	5124.8	5076.8	4931.1	4678.0
77.5°	2841.0	2876.3	2876.3	2974.0	3052.4	3164.6	3188.6	3009.2	2801.0	2532.0	2314.2
80°	2383.1	2506.4	2592.9	2664.9	2672.9	2650.5	2591.2	2490.3	2330.2	2125.2	1897.7
82.5°	1447.8	1691.2	1790.5	2162.0	2344.6	2468.0	2458.3	2323.8	2202.1	1989.1	1795.3
85°	365.1	394.0	427.6	555.7	623.0	760.7	847.2	887.2	901.7	828.0	749.5
87.5°	35.3	24.0	40.0	30.4	43.2	32.0	43.2	40.0	49.6	52.8	57.7
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°	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	373.2	371.6	369.9	368.3	366.7	365.1	362.0	362.0	358.7	357.1	355.5
5°	414.8	411.6	410.0	406.8	402.0	398.7	394.0	387.5	382.8	381.2	377.9
7.5°	467.7	459.7	456.4	451.6	445.2	435.6	429.2	424.4	416.4	411.6	402.0
10°	526.9	518.9	509.3	499.7	490.1	478.9	470.8	464.4	451.6	445.2	434.0
12.5°	602.2	587.7	576.5	563.8	550.9	538.1	528.5	509.3	498.1	483.6	474.0
15°	679.1	666.2	653.4	637.4	618.2	597.3	587.7	570.1	555.7	533.3	520.5
17.5°	771.9	747.9	728.7	709.5	691.9	672.6	653.4	626.2	605.4	586.2	560.5
20°	863.2	834.4	813.6	787.9	762.3	731.9	709.5	690.3	661.4	635.8	608.5
22.5°	960.9	932.1	898.4	872.8	837.6	813.6	783.1	751.1	722.3	688.7	655.0
25°	1079.4	1049.0	1010.5	977.0	936.8	903.3	866.4	829.6	794.4	755.9	712.7
27.5°	1225.1	1193.1	1151.5	1111.5	1058.6	1017.0	981.7	932.1	887.2	839.2	789.5
30°	1409.4	1374.1	1322.9	1265.2	1212.3	1165.9	1116.2	1050.6	1000.9	943.3	879.2
32.5°	1649.5	1607.9	1539.0	1484.6	1419.0	1358.1	1289.2	1223.5	1153.1	1077.8	1004.1
35°	1952.2	1913.8	1833.8	1753.6	1681.6	1609.5	1523.0	1447.8	1348.4	1257.2	1162.7
37.5°	2266.2	2197.2	2123.6	2037.1	1947.4	1860.9	1755.2	1651.2	1537.5	1438.2	1319.6
40°	2624.9	2541.6	2480.7	2387.8	2261.3	2138.0	2040.3	1910.6	1768.1	1635.1	1495.9
42.5°	3116.5	3023.6	2914.7	2773.8	2682.5	2538.4	2411.9	2258.1	2070.7	1921.8	1753.6
45°	3685.0	3558.5	3452.8	3316.7	3206.2	3026.9	2879.5	2674.5	2487.2	2291.7	2086.8
47.5°	4333.7	4176.7	4022.9	3888.4	3712.3	3536.2	3348.7	3131.0	2890.8	2676.1	2432.7
50°	5078.4	4855.8	4642.8	4469.8	4228.0	4024.5	3821.2	3576.2	3310.3	3063.7	2786.6
52.5°	5906.3	5648.5	5366.6	5100.8	4820.5	4559.5	4314.5	4032.6	3736.3	3435.2	3126.1
55°	6905.7	6711.9	6380.4	6042.4	5667.7	5318.6	5003.1	4654.0	4293.6	3898.0	3572.9
57.5°	8470.4	8375.9	8098.8	7760.9	7272.4	6848.0	6313.1	5885.5	5363.5	4818.9	4399.3
60°	10590.7	10473.8	10318.5	10044.6	9657.1	9080.5	8491.2	7826.6	7032.2	6277.9	5562.0
62.5°	11721.4	11679.7	11553.2	11364.2	11002.3	10547.5	9953.4	9223.1	8326.2	7410.1	6497.2
63°	11755.0	11702.2	11593.2	11401.1	11082.4	10641.9	10059.1	9349.6	8472.0	7538.3	6606.2
65°	11300.2	11279.4	11168.9	10959.0	10741.3	10405.0	9953.4	9343.1	8606.5	7724.0	6796.8
67.5°	10022.2	9959.7	9790.0	9725.9	9573.7	9340.0	8995.6	8576.1	8049.2	7355.7	6554.9
70°	8476.7	8383.9	8170.8	8057.2	7871.3	7724.0	7514.2	7214.8	6889.6	6406.0	5808.7
72.5°	6838.4	6646.2	6450.9	6154.6	5895.1	5632.5	5400.2	5188.8	4831.7	4636.3	4183.1
75°	4441.0	4091.8	3757.2	3308.7	2905.1	2548.0	2200.5	2024.3	1657.5	1508.6	1295.6
77.5°	2107.6	1912.2	1649.5	1446.1	1186.7	968.9	791.1	594.2	466.0	365.1	278.7
80°	1700.8	1535.9	1377.3	1193.1	997.8	796.0	610.1	456.4	323.5	224.2	158.5
82.5°	1516.7	1337.3	1141.9	1015.4	882.5	722.3	592.6	483.6	357.1	261.0	177.7
85°	589.3	496.5	382.8	312.2	243.4	200.2	181.0	124.9	97.7	76.9	59.2
87.5°	51.2	41.6	33.6	22.4	24.0	12.8	14.4	9.6	8.0	8.0	6.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	354.0	352.4	350.7	347.5	347.5	344.3	342.8	341.1	333.1	315.5	301.1
5°	371.6	368.3	365.1	360.3	357.1	352.4	349.1	344.3	326.7	293.0	264.2
7.5°	397.1	390.8	385.9	376.3	371.6	365.1	360.3	352.4	323.5	272.2	232.2
10°	427.6	416.4	408.3	397.1	387.5	379.5	371.6	360.3	320.3	249.8	203.4
12.5°	464.4	451.6	435.6	422.8	410.0	398.7	387.5	373.2	315.5	230.6	181.0
15°	501.3	482.0	470.8	453.2	435.6	419.6	403.6	390.8	317.1	209.8	161.8
17.5°	542.9	523.6	499.7	480.5	461.2	440.4	421.2	395.6	309.1	193.8	147.3
20°	583.0	555.7	533.3	509.3	482.0	456.4	432.4	410.0	302.6	177.7	134.5
22.5°	626.2	594.2	565.4	534.9	501.3	472.4	443.6	414.8	291.4	163.4	123.3
25°	679.1	642.2	600.5	563.8	528.5	493.2	456.4	421.2	280.2	150.6	115.3
27.5°	743.1	695.0	653.4	607.0	557.3	512.5	472.4	434.0	269.1	141.0	107.3
30°	824.8	768.7	709.5	650.2	597.3	546.1	490.1	442.0	257.9	131.4	99.3
32.5°	933.7	863.2	791.1	722.3	651.8	586.2	526.9	464.4	251.4	123.3	91.2
35°	1077.8	986.6	898.4	811.9	727.1	647.0	570.1	499.7	251.4	113.7	81.6
37.5°	1213.9	1108.2	996.2	888.8	787.9	695.0	603.8	518.9	238.6	105.7	73.7
40°	1361.3	1234.7	1103.5	977.0	855.2	739.9	635.8	538.1	227.4	96.1	65.7
42.5°	1587.1	1426.9	1255.6	1108.2	962.5	819.9	690.3	575.0	213.0	86.5	57.7
45°	1883.4	1680.0	1478.2	1298.8	1113.1	938.5	784.8	642.2	209.8	78.5	49.6
47.5°	2200.5	1960.3	1723.2	1494.2	1276.4	1073.1	888.8	717.5	209.8	70.4	43.2
50°	2516.0	2214.9	1961.8	1696.0	1451.0	1210.7	991.3	796.0	211.4	64.1	35.3
52.5°	2801.0	2479.2	2195.6	1888.1	1617.5	1338.8	1100.2	872.8	208.2	56.1	28.8
55°	3196.6	2818.6	2490.3	2150.9	1833.8	1519.8	1249.2	988.2	209.8	49.6	24.0
57.5°	3925.3	3481.7	3086.1	2640.9	2275.8	1870.5	1542.2	1225.1	229.0	41.6	17.6
60°	4971.1	4394.5	3838.8	3295.9	2831.4	2349.4	1923.4	1550.2	269.1	33.6	12.8
62.5°	5674.1	4919.8	4256.8	3657.8	3118.1	2613.7	2149.2	1724.8	296.3	27.2	8.0
63°	5746.1	4966.2	4300.0	3681.9	3131.0	2626.5	2158.8	1737.7	297.9	25.7	8.0
65°	5882.4	5046.4	4324.1	3686.6	3118.1	2608.8	2152.4	1736.0	301.1	20.8	6.4
67.5°	5726.9	4923.0	4184.7	3548.9	3006.1	2504.7	2072.3	1672.0	299.5	14.4	4.8
70°	5121.6	4455.4	3806.8	3214.2	2721.0	2267.7	1886.6	1524.7	275.5	9.6	3.2
72.5°	3760.3	3307.1	2804.3	2376.6	2049.9	1702.4	1452.6	1145.1	213.0	6.4	1.6
75°	1114.7	1015.4	853.6	752.7	664.6	549.3	488.5	381.2	108.9	3.2	0.0
77.5°	222.6	201.8	181.0	164.9	155.3	132.9	126.5	104.1	44.9	1.6	0.0
80°	116.9	96.1	81.6	72.0	62.4	51.2	43.2	35.3	8.0	0.0	0.0
82.5°	112.1	75.3	54.5	44.9	38.4	30.4	24.0	17.6	4.8	0.0	0.0
85°	41.6	32.0	24.0	19.2	16.0	14.4	11.2	9.6	0.0	0.0	0.0
87.5°	6.4	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°	337.9	337.9	337.9	337.9	337.9	337.9	337.9
2.5°	286.7	273.8	267.5	259.4	259.4	257.9	261.0
5°	238.6	221.0	208.2	198.6	200.2	195.4	196.9
7.5°	201.8	184.2	173.0	166.5	164.9	163.4	163.4
10°	174.5	158.5	148.9	144.1	142.6	142.6	142.6
12.5°	155.3	139.3	131.4	128.1	128.1	126.5	126.5
15°	139.3	126.5	118.5	115.3	115.3	113.7	115.3
17.5°	126.5	113.7	107.3	104.1	104.1	102.5	102.5
20°	115.3	104.1	97.7	92.9	92.9	91.2	92.9
22.5°	105.7	94.5	86.5	83.3	81.6	80.0	81.6
25°	96.1	84.9	76.9	72.0	70.4	70.4	68.8
27.5°	88.1	76.9	67.3	62.4	60.8	60.8	59.2
30°	80.0	67.3	57.7	52.8	51.2	51.2	51.2
32.5°	72.0	57.7	49.6	44.9	43.2	43.2	43.2
35°	64.1	49.6	41.6	36.9	35.3	35.3	35.3
37.5°	54.5	41.6	32.0	28.8	27.2	25.7	25.7
40°	46.5	32.0	24.0	20.8	17.6	17.6	17.6
42.5°	38.4	25.7	17.6	12.8	11.2	9.6	11.2
45°	32.0	19.2	11.2	6.4	4.8	4.8	4.8
47.5°	25.7	12.8	4.8	1.6	1.6	1.6	1.6
50°	19.2	8.0	1.6	0.0	0.0	1.6	1.6
52.5°	14.4	4.8	0.0	0.0	0.0	0.0	0.0
55°	8.0	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)