

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: P163275

Luminaire Tested: **LDRL-SL2-E06-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163275
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-E06-E-8030-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: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9006.5 lumens
Efficiency: N/A
Efficacy: 59.8 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

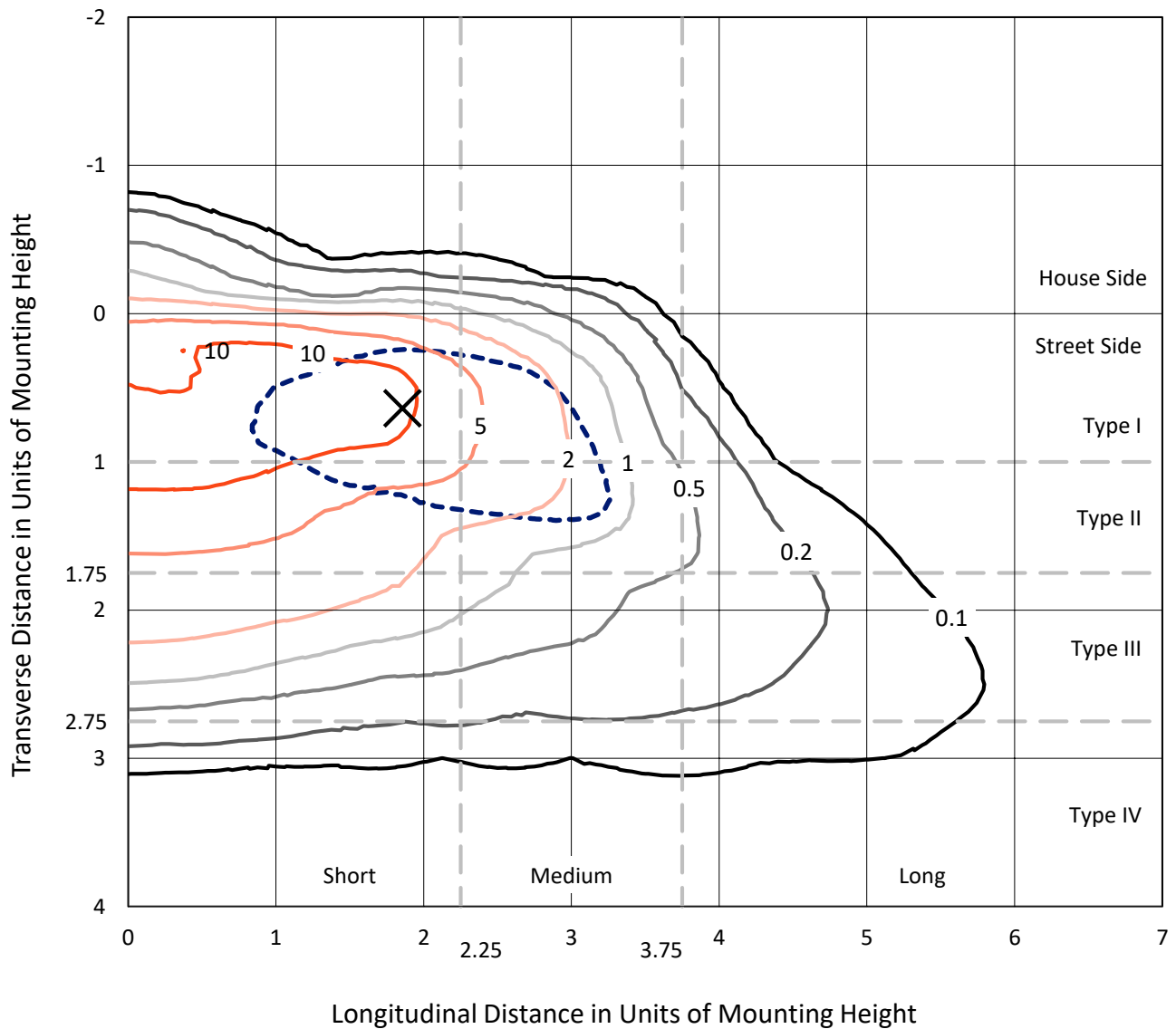
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

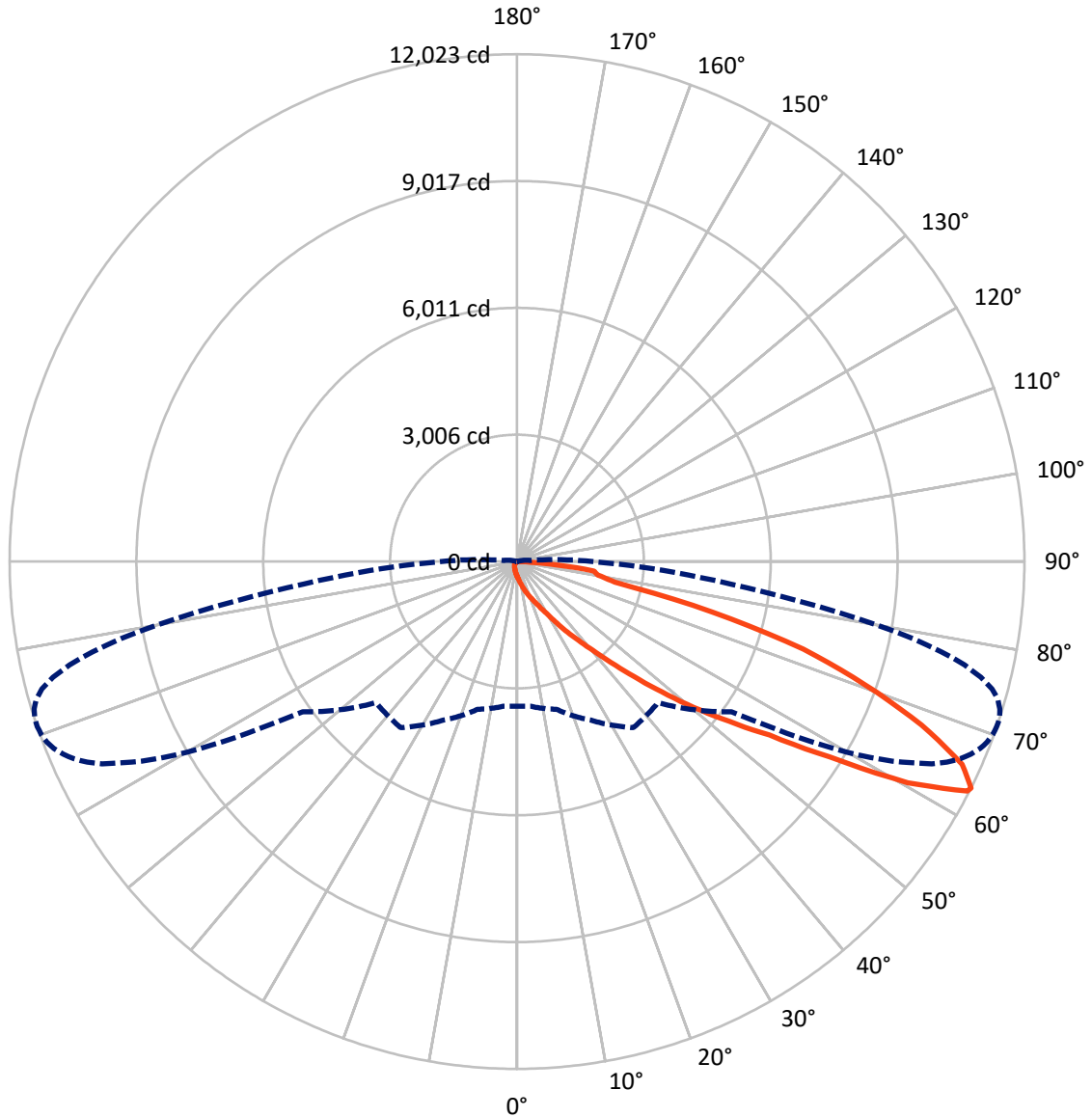
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.9 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	191.2	0.0	191.2
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8815.3	0.0	8815.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	9006.5	0.0	9006.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	0.4
10°-20°	148.1	1.6
20°-30°	300.8	3.3
30°-40°	734.9	8.2
40°-50°	1643.5	18.2
50°-60°	2311.0	25.7
60°-70°	2717.5	30.2
70°-80°	981.3	10.9
80°-90°	131.2	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°	9006.5	100.0
0°-180°	9006.5	100.0



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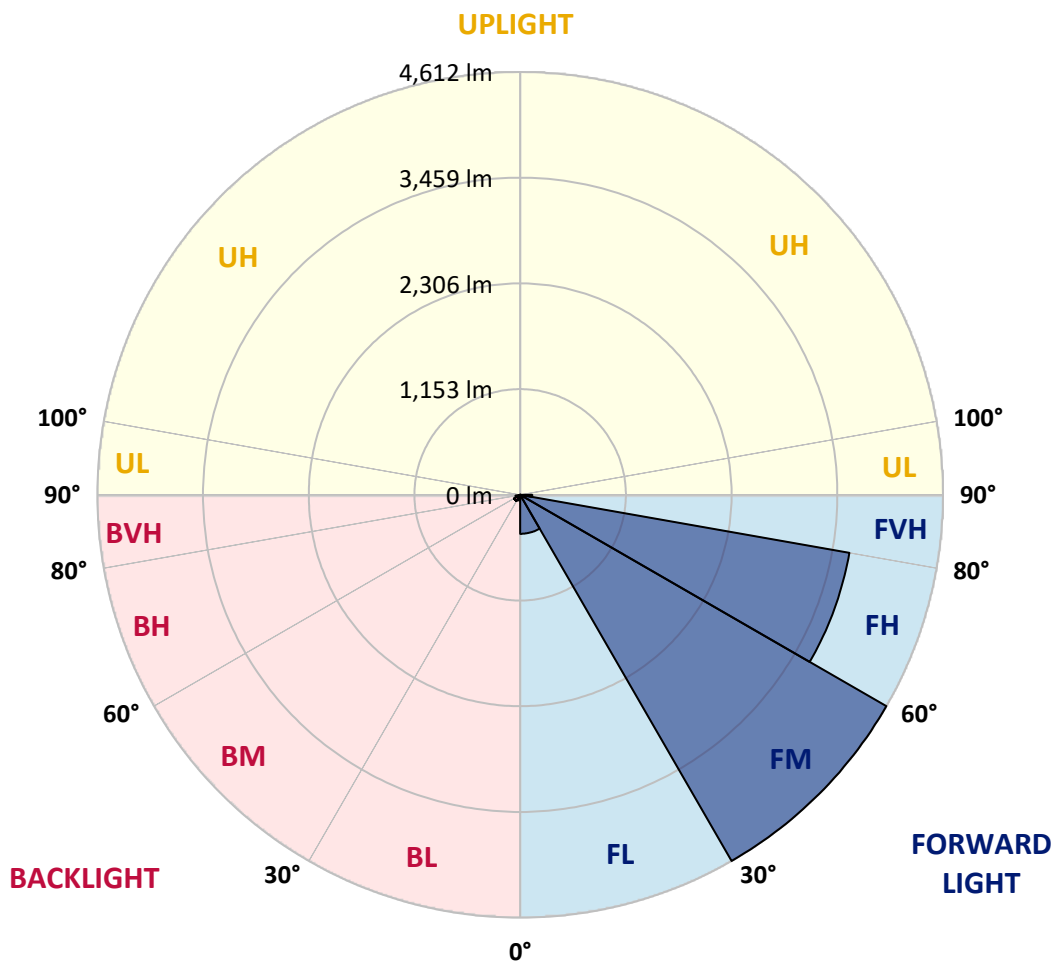
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.6	4.7			
FM	(30°-60°)	4612.4	51.2			
FH	(60°-80°)	3646.4	40.5			G2/5000
FVH	(80°-90°)	130.9	1.5			G2/225
BL	(0°-30°)	61.5	0.7	B0/110		
BM	(30°-60°)	77.0	0.9	B0/220		
BH	(60°-80°)	52.4	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°	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	451.9	456.8	453.5	445.3	435.5	422.4	411.0	411.0	409.4	404.4	406.0
5°	592.7	594.3	587.8	568.2	550.1	522.3	491.2	488.0	484.6	479.8	478.1
7.5°	730.2	736.8	730.2	709.0	672.9	630.4	581.2	576.4	566.6	566.6	560.0
10°	871.1	871.1	864.5	839.9	807.2	746.6	684.4	676.2	664.8	661.5	651.6
12.5°	971.0	971.0	967.6	954.6	928.3	874.3	799.0	790.8	776.1	771.1	759.7
15°	1010.3	1010.3	1011.9	1023.3	1024.9	1000.4	921.8	915.3	900.6	887.4	882.5
17.5°	1034.8	1033.1	1033.1	1049.6	1079.0	1095.3	1044.6	1038.1	1021.7	1015.1	998.8
20°	1088.8	1085.5	1075.7	1075.7	1103.5	1160.9	1160.9	1159.2	1141.2	1136.3	1128.1
22.5°	1169.1	1165.8	1136.3	1111.7	1124.8	1196.9	1264.1	1260.7	1254.2	1247.7	1242.7
25°	1300.0	1288.6	1237.8	1165.8	1154.3	1231.2	1342.7	1350.8	1355.7	1355.7	1359.0
27.5°	1498.1	1483.4	1393.4	1259.1	1208.4	1287.0	1429.3	1445.8	1460.5	1463.8	1478.5
30°	1773.2	1747.1	1617.7	1421.2	1305.0	1368.8	1557.1	1575.1	1596.4	1602.9	1625.8
32.5°	2225.1	2210.4	2085.9	1791.2	1542.4	1529.3	1735.5	1758.5	1786.4	1797.8	1825.7
35°	2912.8	2916.1	2814.5	2549.3	2205.4	2025.4	2054.8	2074.5	2084.3	2118.7	2133.4
37.5°	3379.5	3387.6	3410.6	3305.7	3060.1	2876.8	2645.9	2667.2	2616.4	2621.4	2623.0
40°	3634.9	3661.0	3795.3	3896.8	3877.2	3770.7	3585.8	3597.2	3502.2	3481.0	3377.8
42.5°	3805.1	3839.5	4054.0	4368.4	4528.9	4625.4	4582.9	4578.0	4504.3	4476.4	4389.6
45°	3911.6	3942.7	4212.8	4676.2	5046.2	5327.9	5444.1	5457.2	5395.0	5367.2	5295.1
47.5°	3906.6	3942.7	4232.4	4790.8	5336.1	5786.3	6113.8	6130.1	6167.8	6143.3	6148.1
50°	3690.5	3724.9	4016.3	4595.9	5250.9	5995.9	6595.2	6647.5	6708.1	6749.0	6768.7
52.5°	3428.6	3453.1	3711.8	4261.9	4887.4	5909.1	6880.1	6970.1	7060.2	7137.1	7191.1
55°	3332.0	3359.8	3562.8	4019.7	4595.9	5545.6	7012.7	7145.3	7273.0	7399.0	7502.2
57.5°	3382.7	3408.9	3554.6	3905.0	4422.4	5162.5	7050.3	7256.6	7466.2	7670.9	7873.9
60°	3569.4	3597.2	3721.6	4011.5	4376.6	4941.4	6903.0	7245.2	7593.9	7950.9	8286.5
62.5°	3495.6	3507.2	3690.5	4198.1	4704.0	4753.1	6367.6	6845.6	7377.8	7927.9	8469.9
63°	3425.3	3438.4	3625.1	4147.4	4804.0	4725.4	6202.2	6706.5	7268.1	7860.8	8450.2
65°	3106.0	3107.6	3250.1	3662.7	4692.6	4774.5	5465.4	5946.8	6591.8	7302.5	8047.4
67.5°	2318.5	2307.0	2444.6	2758.9	3684.0	4776.1	4690.9	4961.0	5409.7	6040.1	6708.1
70°	822.0	804.0	1026.6	1462.2	2295.5	3906.6	4031.1	4049.1	4173.5	4514.1	4933.3
72.5°	266.9	271.8	327.4	535.4	1057.8	2629.5	3649.6	3593.9	3561.2	3559.5	3615.3
75°	106.4	108.1	131.0	237.4	474.8	1267.3	3196.1	3227.2	3238.6	3255.0	3273.0
77.5°	50.7	55.7	73.6	132.6	235.8	627.1	2287.4	2550.9	2701.6	2817.9	2888.3
80°	18.0	21.3	40.9	81.8	109.7	288.1	1205.1	1454.0	1675.0	1959.8	2205.4
82.5°	0.0	0.0	8.2	57.3	60.6	116.3	494.4	579.6	663.1	859.6	1103.5
85°	0.0	0.0	0.0	16.4	18.0	19.6	167.0	201.3	226.0	263.6	304.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	9.8	24.5	37.7
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°	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	402.8	401.2	401.2	397.8	396.2	393.0	391.3	386.4	384.8	384.8	384.8
5°	476.4	469.9	466.6	458.5	453.5	451.9	443.7	440.5	435.5	437.1	429.0
7.5°	558.4	546.9	541.9	530.5	527.3	515.7	512.5	504.3	499.4	489.6	486.2
10°	648.4	633.6	625.5	607.5	602.5	594.3	584.5	574.7	566.6	556.7	551.8
12.5°	751.5	738.4	731.8	707.3	695.9	684.4	671.3	658.2	645.1	636.9	625.5
15°	872.7	851.5	844.9	822.0	802.3	787.5	769.5	753.2	743.4	727.0	715.5
17.5°	992.2	971.0	966.0	931.7	910.4	900.6	880.9	859.6	841.6	825.2	807.2
20°	1111.7	1097.1	1083.9	1051.2	1028.3	1011.9	985.6	964.4	949.7	926.7	903.8
22.5°	1231.2	1216.6	1206.7	1172.3	1151.0	1128.1	1105.2	1082.3	1061.0	1033.1	1006.9
25°	1354.1	1344.3	1339.3	1308.2	1288.6	1267.3	1244.4	1218.2	1192.0	1160.9	1133.0
27.5°	1481.8	1485.1	1475.2	1468.6	1447.4	1432.7	1396.6	1378.6	1359.0	1321.3	1287.0
30°	1643.9	1653.7	1650.4	1655.3	1642.2	1632.4	1604.6	1581.7	1558.8	1522.7	1483.4
32.5°	1848.5	1861.6	1868.2	1886.2	1879.6	1876.4	1868.2	1835.5	1819.1	1756.9	1740.5
35°	2164.5	2157.9	2185.8	2200.6	2194.0	2190.8	2180.9	2162.9	2143.3	2099.0	2058.1
37.5°	2575.5	2582.1	2591.9	2562.5	2542.8	2541.1	2511.6	2493.7	2465.8	2416.7	2367.6
40°	3328.6	3287.7	3241.9	3117.5	3063.5	3032.3	2945.6	2921.0	2873.5	2806.3	2755.6
42.5°	4307.8	4266.9	4129.3	3921.4	3810.0	3656.2	3585.8	3499.0	3431.8	3322.2	3263.2
45°	5280.4	5162.5	5146.1	4903.8	4766.3	4563.2	4437.1	4291.4	4139.2	3995.0	3890.3
47.5°	6100.6	6074.5	5994.3	5846.9	5719.2	5548.9	5386.8	5162.5	5005.3	4800.6	4612.3
50°	6757.2	6755.6	6726.1	6641.0	6534.6	6397.1	6254.6	6064.7	5886.2	5635.7	5434.3
52.5°	7248.4	7274.7	7284.5	7258.3	7217.3	7096.2	7024.1	6865.3	6714.7	6501.8	6284.1
55°	7608.7	7705.3	7754.4	7810.0	7798.6	7756.0	7752.7	7649.6	7580.8	7412.2	7258.3
57.5°	8054.0	8212.8	8365.1	8635.2	8645.1	8740.1	8789.2	8838.3	8851.4	8784.2	8733.5
60°	8620.6	8944.8	9232.9	9797.7	9945.1	10177.6	10328.2	10492.0	10631.1	10642.6	10639.3
62.5°	9020.0	9519.4	9984.4	10822.8	11109.3	11377.8	11579.1	11738.0	11834.5	11932.8	11978.7
63°	9031.4	9578.4	10072.8	10937.3	11238.6	11494.0	11685.6	11832.9	11934.5	11993.4	12022.9
65°	8754.8	9417.9	10007.4	10868.5	11151.8	11408.9	11508.7	11605.3	11654.5	11677.4	11590.7
67.5°	7420.4	8068.8	8756.4	9719.1	9961.5	10269.3	10351.2	10400.3	10423.2	10418.3	10344.6
70°	5548.9	6092.5	6857.1	7957.4	8278.3	8579.5	8766.2	8846.5	8872.6	8864.4	8754.8
72.5°	3873.9	4193.1	4823.6	6048.3	6485.5	6871.9	7102.7	7222.2	7246.8	7197.7	7096.2
75°	3253.4	3269.8	3412.2	4081.8	4491.2	4903.8	5164.1	5239.5	5190.3	5041.4	4782.6
77.5°	2904.6	2940.6	2940.6	3040.5	3120.7	3235.4	3260.0	3076.5	2863.7	2588.6	2366.0
80°	2436.4	2562.5	2650.9	2724.5	2732.7	2709.8	2649.2	2546.1	2382.3	2172.7	1940.2
82.5°	1480.2	1729.0	1830.5	2210.4	2397.1	2523.2	2513.3	2375.8	2251.3	2033.6	1835.5
85°	373.3	402.8	437.1	568.2	636.9	777.7	866.1	907.1	921.8	846.5	766.3
87.5°	36.1	24.5	40.9	31.1	44.2	32.7	44.2	40.9	50.7	54.0	58.9
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	381.5	379.9	378.2	376.6	374.9	373.3	370.1	370.1	366.7	365.1	363.5
5°	424.1	420.8	419.2	415.9	411.0	407.6	402.8	396.2	391.3	389.7	386.4
7.5°	478.1	469.9	466.6	461.7	455.1	445.3	438.8	433.9	425.7	420.8	411.0
10°	538.7	530.5	520.7	510.9	501.0	489.6	481.4	474.8	461.7	455.1	443.7
12.5°	615.7	600.9	589.4	576.4	563.2	550.1	540.3	520.7	509.2	494.4	484.6
15°	694.3	681.1	668.0	651.6	632.0	610.7	600.9	582.9	568.2	545.2	532.1
17.5°	789.2	764.7	745.0	725.4	707.3	687.7	668.0	640.2	618.9	599.3	573.0
20°	882.5	853.1	831.8	805.6	779.3	748.2	725.4	705.7	676.2	650.0	622.2
22.5°	982.4	952.9	918.5	892.4	856.3	831.8	800.6	767.9	738.4	704.1	669.7
25°	1103.5	1072.4	1033.1	998.8	957.8	923.5	885.8	848.1	812.2	772.9	728.6
27.5°	1252.5	1219.8	1177.3	1136.3	1082.3	1039.7	1003.7	952.9	907.1	857.9	807.2
30°	1440.9	1404.8	1352.5	1293.5	1239.5	1192.0	1141.2	1074.1	1023.3	964.4	898.9
32.5°	1686.4	1643.9	1573.5	1517.8	1450.7	1388.4	1318.0	1250.9	1178.9	1101.9	1026.6
35°	1995.9	1956.6	1874.8	1792.8	1719.2	1645.5	1557.1	1480.2	1378.6	1285.3	1188.7
37.5°	2316.9	2246.4	2171.1	2082.7	1990.9	1902.5	1794.5	1688.1	1571.8	1470.4	1349.1
40°	2683.6	2598.4	2536.2	2441.2	2311.9	2185.8	2085.9	1953.4	1807.6	1671.7	1529.3
42.5°	3186.2	3091.2	2979.9	2835.8	2742.5	2595.2	2465.8	2308.7	2117.0	1964.8	1792.8
45°	3767.5	3638.1	3530.1	3390.9	3277.9	3094.6	2943.9	2734.3	2542.8	2343.0	2133.4
47.5°	4430.6	4270.1	4112.9	3975.4	3795.3	3615.3	3423.6	3201.0	2955.4	2735.9	2487.1
50°	5192.0	4964.4	4746.6	4569.8	4322.6	4114.6	3906.6	3656.2	3384.3	3132.3	2849.0
52.5°	6038.5	5774.8	5486.7	5214.9	4928.3	4661.5	4411.0	4122.8	3819.8	3512.0	3196.1
55°	7060.2	6862.1	6523.1	6177.6	5794.5	5437.6	5115.0	4758.1	4389.6	3985.2	3652.8
57.5°	8659.9	8563.2	8280.0	7934.5	7435.1	7001.2	6454.3	6017.2	5483.4	4926.7	4497.7
60°	10827.6	10708.1	10549.3	10269.3	9873.1	9283.6	8681.1	8001.6	7189.5	6418.3	5686.4
62.5°	11983.6	11941.0	11811.7	11618.4	11248.4	10783.5	10176.0	9429.4	8512.5	7575.9	6642.6
63°	12018.0	11964.0	11852.6	11656.1	11330.3	10880.0	10284.1	9558.7	8661.5	7706.9	6754.0
65°	11553.0	11531.7	11418.7	11204.2	10981.6	10637.7	10176.0	9552.1	8799.0	7896.8	6948.8
67.5°	10246.4	10182.5	10009.0	9943.5	9787.9	9548.9	9196.8	8767.9	8229.2	7520.3	6701.5
70°	8666.3	8571.4	8353.6	8237.4	8047.4	7896.8	7682.3	7376.1	7043.7	6549.3	5938.6
72.5°	6991.4	6794.9	6595.2	6292.3	6027.0	5758.5	5521.0	5304.9	4939.8	4740.1	4276.7
75°	4540.3	4183.3	3841.2	3382.7	2970.1	2605.0	2249.7	2069.5	1694.6	1542.4	1324.6
77.5°	2154.7	1955.0	1686.4	1478.5	1213.2	990.6	808.8	607.5	476.4	373.3	284.9
80°	1738.9	1570.2	1408.1	1219.8	1020.1	813.8	623.8	466.6	330.8	229.2	162.0
82.5°	1550.6	1367.2	1167.4	1038.1	902.2	738.4	605.9	494.4	365.1	266.9	181.7
85°	602.5	507.6	391.3	319.2	248.8	204.7	185.0	127.7	99.9	78.6	60.6
87.5°	52.4	42.5	34.3	22.9	24.5	13.1	14.7	9.8	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°	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	361.9	360.2	358.5	355.3	355.3	352.0	350.4	348.7	340.6	322.6	307.8
5°	379.9	376.6	373.3	368.4	365.1	360.2	356.9	352.0	334.0	299.6	270.1
7.5°	406.0	399.5	394.6	384.8	379.9	373.3	368.4	360.2	330.8	278.3	237.4
10°	437.1	425.7	417.5	406.0	396.2	388.0	379.9	368.4	327.4	255.4	207.9
12.5°	474.8	461.7	445.3	432.3	419.2	407.6	396.2	381.5	322.6	235.8	185.0
15°	512.5	492.8	481.4	463.4	445.3	429.0	412.6	399.5	324.2	214.5	165.4
17.5°	555.0	535.4	510.9	491.2	471.6	450.3	430.6	404.4	316.0	198.1	150.6
20°	596.0	568.2	545.2	520.7	492.8	466.6	442.1	419.2	309.4	181.7	137.5
22.5°	640.2	607.5	578.0	546.9	512.5	483.0	453.5	424.1	298.0	167.0	126.1
25°	694.3	656.6	614.0	576.4	540.3	504.3	466.6	430.6	286.5	153.9	117.9
27.5°	759.7	710.6	668.0	620.5	569.8	523.9	483.0	443.7	275.1	144.1	109.7
30°	843.2	785.9	725.4	664.8	610.7	558.4	501.0	451.9	263.6	134.3	101.5
32.5°	954.6	882.5	808.8	738.4	666.4	599.3	538.7	474.8	257.0	126.1	93.3
35°	1101.9	1008.6	918.5	830.1	743.4	661.5	582.9	510.9	257.0	116.3	83.5
37.5°	1241.1	1133.0	1018.5	908.7	805.6	710.6	617.3	530.5	244.0	108.1	75.4
40°	1391.8	1262.3	1128.1	998.8	874.3	756.5	650.0	550.1	232.5	98.2	67.1
42.5°	1622.6	1458.8	1283.7	1133.0	984.0	838.3	705.7	587.8	217.7	88.4	58.9
45°	1925.5	1717.6	1511.3	1327.9	1138.0	959.5	802.3	656.6	214.5	80.2	50.7
47.5°	2249.7	2004.1	1761.7	1527.6	1305.0	1097.1	908.7	733.6	214.5	72.0	44.2
50°	2572.3	2264.4	2005.7	1733.9	1483.4	1237.8	1013.5	813.8	216.1	65.5	36.1
52.5°	2863.7	2534.6	2244.7	1930.4	1653.7	1368.8	1124.8	892.4	212.9	57.3	29.5
55°	3268.1	2881.7	2546.1	2199.0	1874.8	1553.8	1277.1	1010.3	214.5	50.7	24.5
57.5°	4013.1	3559.5	3155.1	2700.0	2326.7	1912.3	1576.7	1252.5	234.2	42.5	18.0
60°	5082.3	4492.8	3924.7	3369.7	2894.8	2401.9	1966.4	1584.9	275.1	34.3	13.1
62.5°	5801.1	5029.8	4352.1	3739.6	3187.9	2672.1	2197.2	1763.4	302.9	27.9	8.2
63°	5874.7	5077.3	4396.2	3764.2	3201.0	2685.2	2207.1	1776.5	304.5	26.2	8.2
65°	6013.9	5159.2	4420.8	3769.1	3187.9	2667.2	2200.6	1774.8	307.8	21.3	6.6
67.5°	5855.0	5033.2	4278.3	3628.3	3073.3	2560.7	2118.7	1709.4	306.2	14.7	4.9
70°	5236.1	4555.0	3891.9	3286.1	2781.8	2318.5	1928.8	1558.8	281.7	9.8	3.2
72.5°	3844.4	3381.1	2867.0	2429.8	2095.8	1740.5	1485.1	1170.7	217.7	6.6	1.6
75°	1139.6	1038.1	872.7	769.5	679.5	561.6	499.4	389.7	111.3	3.2	0.0
77.5°	227.6	206.3	185.0	168.6	158.8	135.9	129.3	106.4	45.9	1.6	0.0
80°	119.5	98.2	83.5	73.6	63.8	52.4	44.2	36.1	8.2	0.0	0.0
82.5°	114.6	77.0	55.7	45.9	39.3	31.1	24.5	18.0	4.9	0.0	0.0
85°	42.5	32.7	24.5	19.6	16.4	14.7	11.4	9.8	0.0	0.0	0.0
87.5°	6.6	4.9	4.9	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°	345.5	345.5	345.5	345.5	345.5	345.5	345.5
2.5°	293.1	279.9	273.5	265.2	265.2	263.6	266.9
5°	244.0	226.0	212.9	203.1	204.7	199.7	201.3
7.5°	206.3	188.3	176.8	170.2	168.6	167.0	167.0
10°	178.5	162.0	152.2	147.4	145.7	145.7	145.7
12.5°	158.8	142.4	134.3	131.0	131.0	129.3	129.3
15°	142.4	129.3	121.1	117.9	117.9	116.3	117.9
17.5°	129.3	116.3	109.7	106.4	106.4	104.8	104.8
20°	117.9	106.4	99.9	95.0	95.0	93.3	95.0
22.5°	108.1	96.6	88.4	85.2	83.5	81.8	83.5
25°	98.2	86.8	78.6	73.6	72.0	72.0	70.4
27.5°	90.0	78.6	68.8	63.8	62.2	62.2	60.6
30°	81.8	68.8	58.9	54.0	52.4	52.4	52.4
32.5°	73.6	58.9	50.7	45.9	44.2	44.2	44.2
35°	65.5	50.7	42.5	37.7	36.1	36.1	36.1
37.5°	55.7	42.5	32.7	29.5	27.9	26.2	26.2
40°	47.5	32.7	24.5	21.3	18.0	18.0	18.0
42.5°	39.3	26.2	18.0	13.1	11.4	9.8	11.4
45°	32.7	19.6	11.4	6.6	4.9	4.9	4.9
47.5°	26.2	13.1	4.9	1.6	1.6	1.6	1.6
50°	19.6	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°	3.2	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)