

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: P968842

Luminaire Tested: **NAV-SB5C-750-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-750-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31309.6 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

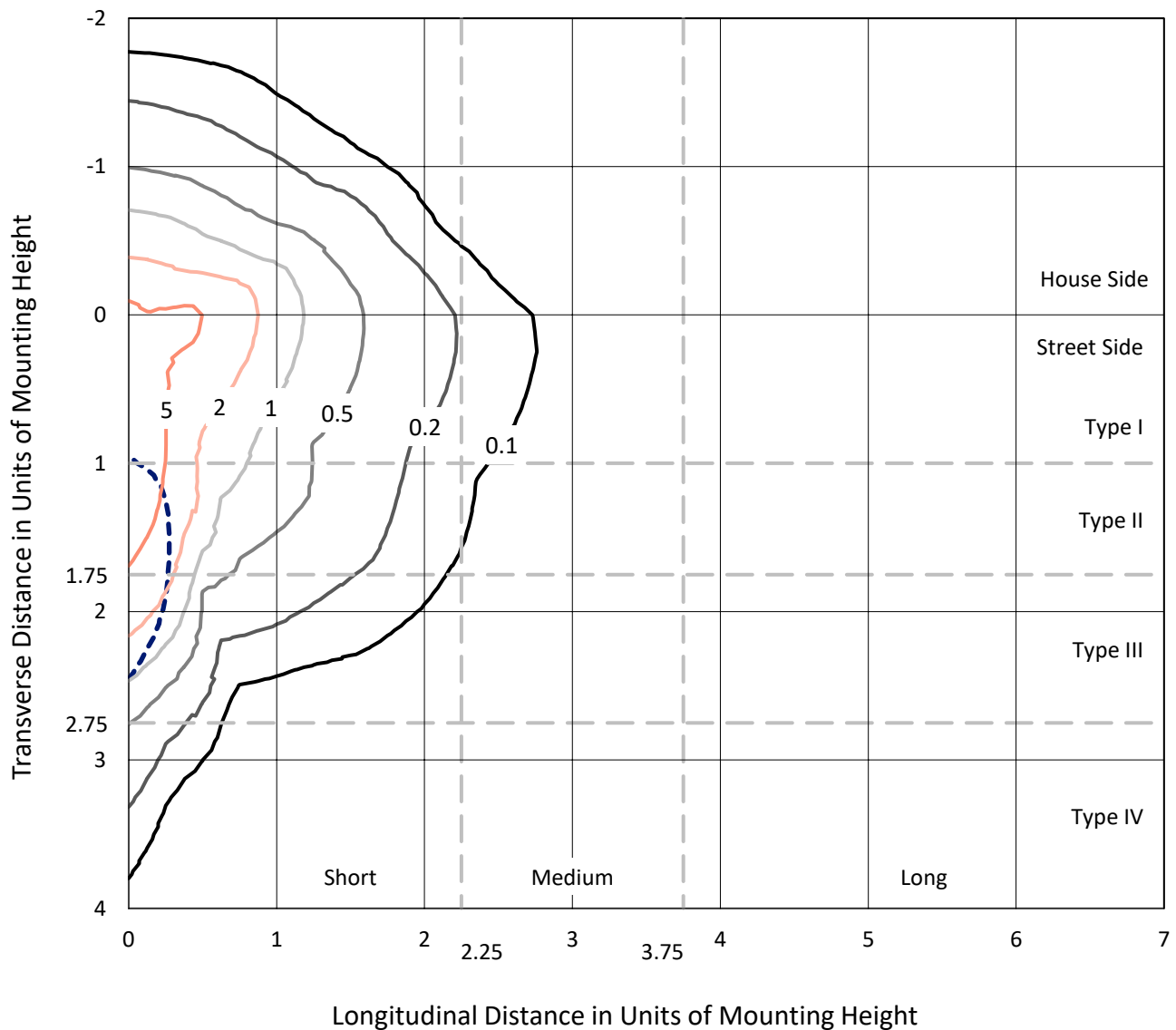
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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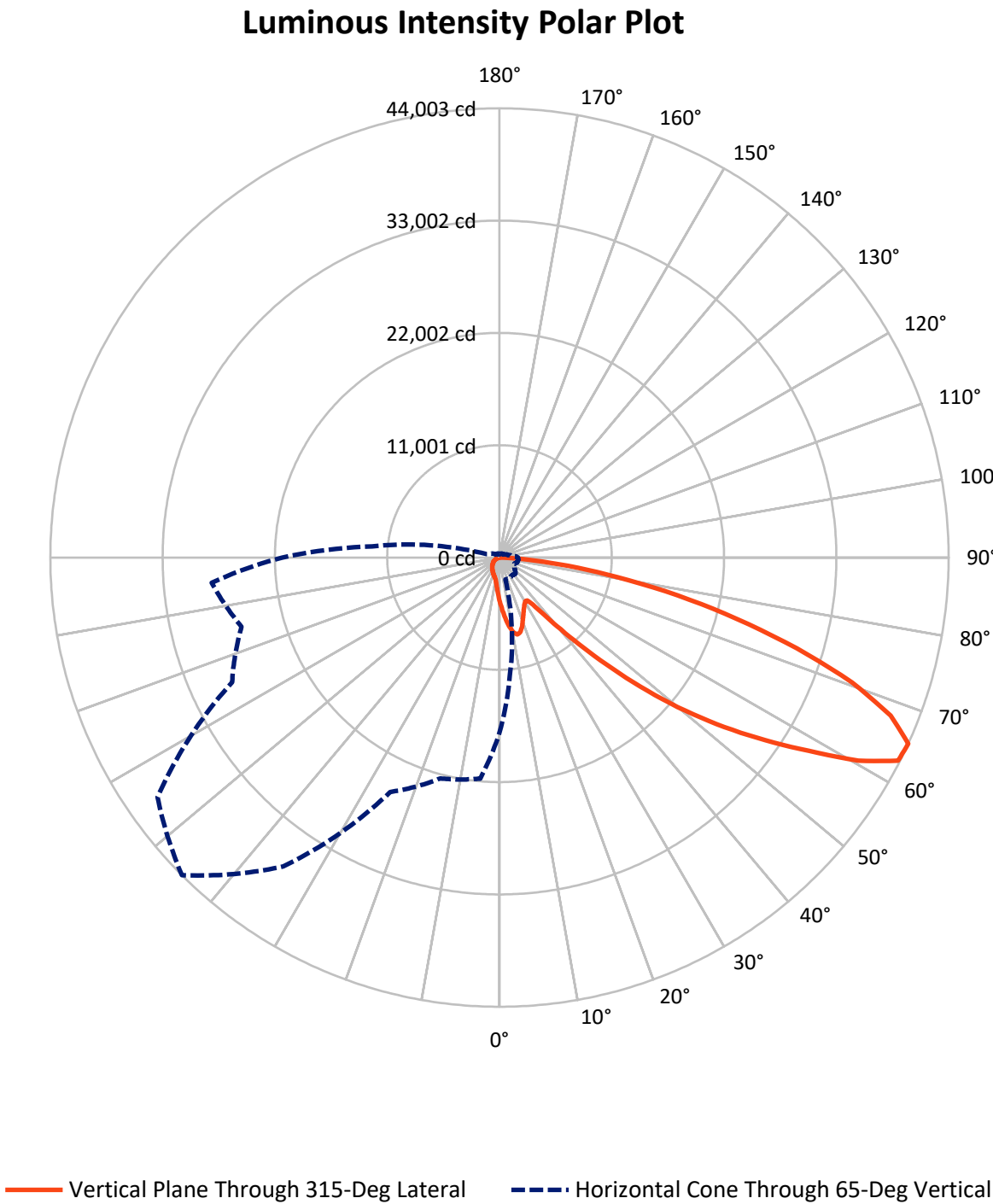
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4384.7	0.0	4384.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26925.0	0.0	26925.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	31309.6	0.0	31309.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	1.4
10°-20°	1279.5	4.1
20°-30°	1885.0	6.0
30°-40°	2421.7	7.7
40°-50°	3916.6	12.5
50°-60°	6868.2	21.9
60°-70°	8593.9	27.4
70°-80°	5021.9	16.0
80°-90°	896.0	2.9
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°	31309.6	100.0
0°-180°	31309.6	100.0

Coefficient of Utilization



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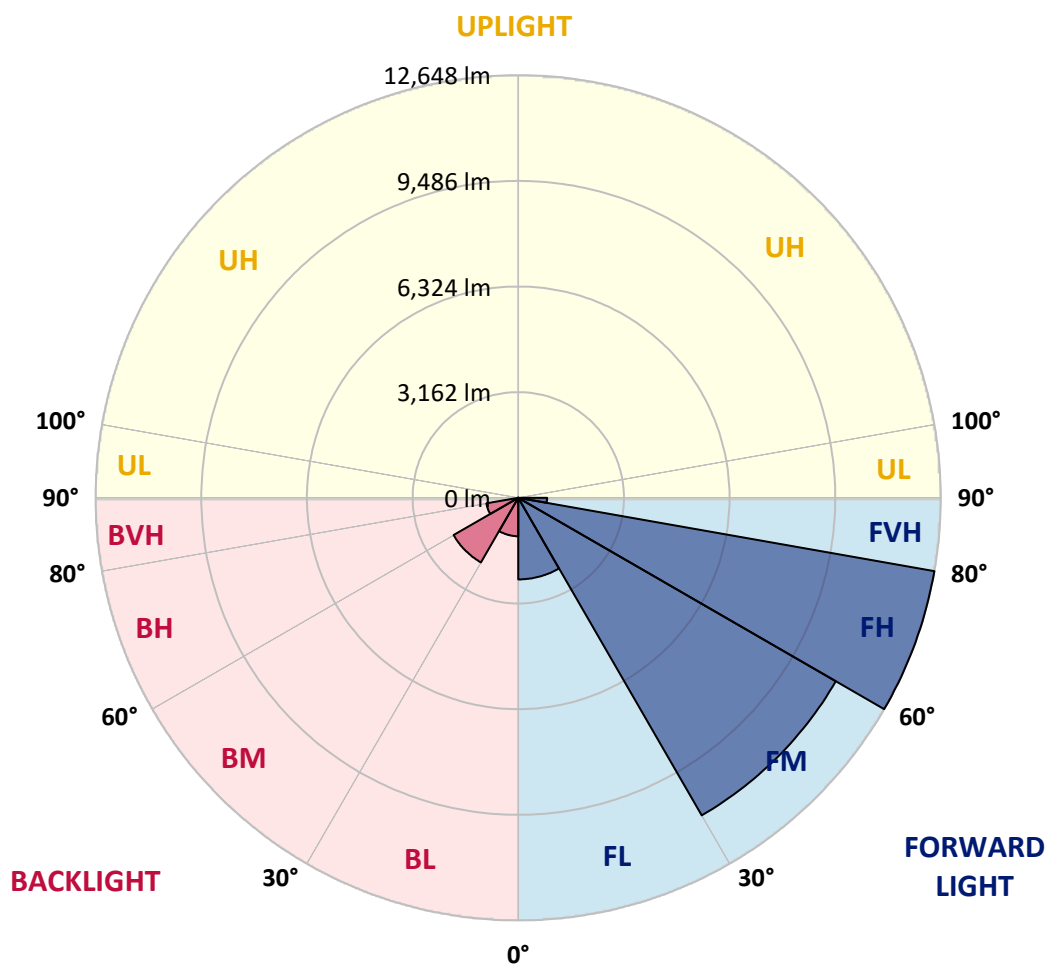
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2442.0	7.8			
FM	(30°-60°)	10973.7	35.0			
FH	(60°-80°)	12647.7	40.4			G5
FVH	(80°-90°)	861.6	2.8			G5
BL	(0°-30°)	1149.3	3.7	B3/2500		
BM	(30°-60°)	2232.8	7.1	B2/2500		
BH	(60°-80°)	968.2	3.1	B2/1000		G2/1000
BVH	(80°-90°)	34.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	4898.4	4814.2	4764.6	4641.7	4518.7	4419.5	4285.7	4197.4	4091.7	3990.3	3899.7
5°	5459.2	5323.2	5159.3	4935.0	4730.1	4520.9	4318.1	4117.5	3906.2	3712.0	3593.4
7.5°	5933.6	5737.3	5448.4	5150.7	4889.7	4637.3	4400.1	4134.7	3878.1	3574.0	3412.2
10°	6296.1	6045.9	5666.2	5275.8	4976.0	4721.5	4490.7	4266.4	4007.5	3640.9	3438.2
12.5°	6516.0	6248.6	5797.8	5340.5	4997.6	4712.8	4533.8	4434.6	4333.2	3968.7	3731.4
15°	6677.8	6388.7	5890.5	5385.8	4948.0	4598.6	4467.0	4566.2	4682.6	4449.7	4175.7
17.5°	6846.0	6541.9	6011.3	5405.2	4814.2	4376.3	4320.3	4576.9	4846.6	4835.7	4564.0
20°	7005.7	6703.7	6117.0	5392.3	4598.6	4106.8	4156.4	4484.2	4797.0	4928.5	4781.8
22.5°	7188.9	6869.8	6218.4	5342.7	4318.1	3854.4	4009.7	4337.5	4611.5	4766.8	4721.5
25°	7413.3	7079.0	6360.7	5269.3	4016.2	3645.2	3860.9	4167.1	4389.4	4497.2	4495.0
27.5°	7654.9	7329.2	6550.6	5230.5	3772.4	3496.4	3692.7	3964.4	4162.8	4238.4	4238.4
30°	7954.7	7620.4	6774.8	5187.3	3612.8	3410.1	3517.9	3729.3	3923.4	3998.9	3998.9
32.5°	8282.5	7943.9	6990.5	5083.8	3515.7	3345.4	3347.5	3481.2	3658.1	3748.7	3761.6
35°	8692.3	8332.1	7221.3	4857.4	3438.2	3269.9	3181.4	3246.2	3392.9	3500.7	3528.7
37.5°	9276.9	8841.1	7503.9	4533.8	3323.8	3153.4	3006.7	3021.8	3133.9	3252.6	3295.8
40°	10083.5	9524.9	7836.0	4197.4	3159.9	2989.5	2814.8	2808.3	2890.3	3006.7	3054.2
42.5°	11175.0	10428.7	8235.1	3875.9	3002.4	2791.1	2612.0	2601.2	2665.9	2767.3	2816.9
45°	12615.8	11584.8	8724.7	3599.9	2879.4	2596.9	2420.0	2415.7	2469.6	2558.1	2609.9
47.5°	14459.9	13191.6	9214.3	3412.2	2814.8	2443.8	2262.6	2271.2	2318.7	2398.5	2435.2
50°	16847.6	15286.0	9363.2	3317.3	2814.8	2361.8	2122.4	2165.5	2204.4	2264.7	2286.4
52.5°	19709.8	17296.3	8871.4	3231.0	2832.0	2372.6	2003.8	2096.5	2124.5	2176.3	2185.0
55°	22362.8	18281.9	7626.8								

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	3882.4	3776.7	3699.1	3660.3	3627.9	3658.1	3675.3	3675.3	3748.7	3791.9	3809.1
5°	3517.9	3328.1	3183.5	3086.6	3028.3	3047.7	3069.3	3093.0	3185.8	3248.3	3289.3
7.5°	3265.5	2974.3	2754.4	2618.5	2547.3	2558.1	2573.2	2592.6	2683.1	2745.8	2799.7
10°	3218.1	2799.7	2489.1	2310.0	2223.7	2208.7	2200.1	2193.6	2247.5	2295.0	2338.1
12.5°	3412.2	2808.3	2374.7	2156.9	2051.2	2005.9	1954.2	1913.2	1921.8	1952.0	2005.9
15°	3759.5	2918.3	2338.1	2077.1	1945.6	1870.0	1809.6	1760.0	1749.3	1760.0	1768.6
17.5°	4156.4	3067.1	2333.8	2008.1	1844.2	1766.5	1716.9	1671.6	1656.5	1658.7	1669.4
20°	4419.5	3185.8	2320.8	1930.4	1747.1	1678.0	1635.0	1589.7	1574.5	1578.8	1581.1
22.5°	4445.4	3248.3	2301.4	1844.2	1650.0	1591.8	1548.7	1507.7	1505.5	1505.5	1518.4
25°	4305.2	3248.3	2260.4	1766.5	1557.3	1505.5	1466.7	1417.1	1425.7	1430.1	1447.3
27.5°	4087.3	3170.6	2182.8	1704.0	1477.4	1423.5	1384.8	1339.5	1350.2	1356.7	1376.1
30°	3871.6	3071.4	2090.1	1632.8	1402.0	1339.5	1311.4	1272.5	1276.8	1285.6	1307.1
32.5°	3671.0	2965.7	1980.0	1574.5	1326.5	1263.9	1242.4	1199.2	1205.7	1214.3	1238.1
35°	3472.6	2849.3	1850.6	1505.5	1257.5	1194.9	1177.6	1128.0	1132.4	1145.3	1171.2
37.5°	3259.1	2726.3	1745.0	1436.5	1190.6	1125.9	1108.6	1056.9	1061.2	1076.2	1106.5
40°	3034.8	2605.5	1641.4	1363.1	1119.4	1054.7	1039.7	983.6	987.9	1005.1	1037.5
42.5°	2808.3	2473.9	1561.6	1268.2	1046.1	977.0	962.0	910.2	916.7	936.1	968.4
45°	2599.1	2316.5	1509.8	1162.6	977.0	899.4	884.4	836.9	849.8	871.4	903.7
47.5°	2420.0	2154.8	1488.3	1074.1	903.7	819.6	806.7	767.8	789.5	813.1	839.1
50°	2266.9	1999.5	1460.2	983.6	834.8	750.6	737.7	711.8	739.8	763.5	787.3
52.5°	2156.9	1822.6	1399.8	901.6	774.3	692.4	688.1	675.1	701.0	722.5	744.2
55°	2062.0	1639.3	1302.8	830.5							

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	3929.8	4020.5	4106.8	4244.8	4387.1	4527.3	4669.7	4807.8	4857.4	4894.1	4976.0
5°	3476.9	3647.4	3845.8	4119.7	4413.0	4715.0	5021.3	5301.7	5428.9	5515.2	5709.4
7.5°	3008.9	3231.0	3515.7	3927.7	4387.1	4868.1	5349.2	5791.2	5996.2	6162.3	6457.8
10°	2545.2	2786.8	3147.0	3617.1	4238.4	4928.5	5592.9	6201.1	6466.4	6675.6	7076.8
12.5°	2137.5	2364.0	2741.5	3261.2	4005.4	4881.0	5733.0	6464.3	6777.0	7012.1	7452.2
15°	1850.6	2010.2	2344.6	2905.4	3729.3	4727.9	5741.6	6589.3	6932.3	7178.2	7560.0
17.5°	1691.0	1745.0	1962.8	2543.0	3423.0	4527.3	5661.9	6632.5	6999.2	7227.8	7493.1
20°	1604.7	1613.4	1673.7	2072.8	3030.4	4339.7	5586.4	6675.6	7061.7	7253.7	7333.5
22.5°	1535.8	1535.8	1550.8	1695.4	2523.5	4115.4	5562.7	6751.2	7148.0	7266.6	7102.7
25°	1473.1	1473.1	1477.4	1516.3	1999.5	3772.4	5547.6	6867.6	7266.6	7299.0	6848.2
27.5°	1408.5	1410.6	1410.6	1432.2	1611.2	3306.5	5482.8	7018.6	7409.0	7342.1	6604.5
30°	1343.8	1348.1	1348.1	1363.1	1425.7	2760.8	5355.6	7199.8	7594.4	7398.2	6362.9
32.5°	1279.1	1283.4	1283.4	1296.3	1341.6	2204.4	5196.0	7365.9	7782.1	7421.9	6138.5
35°	1212.2	1218.6	1214.3	1231.6	1279.1	1753.6	4993.3	7531.9	7984.9	7497.4	6028.5
37.5°	1145.3	1149.6	1147.5	1164.7	1218.6	1514.1	4758.2	7657.1	8261.0	7665.7	6160.1
40°	1078.5	1076.2	1076.2	1095.7	1153.9	1445.1	4462.6	7855.5	8657.9	7961.2	6733.8
42.5°	1009.4	1009.4	1005.1	1026.6	1097.9	1393.4	4180.1	8211.4	9235.9	8431.3	7752.0
45°	946.9	944.7	936.1	955.5	1044.0	1302.8	4080.8	8875.7	10090.0	9192.7	8983.5
47.5°	886.5	884.4	862.7	880.1	979.3	1220.8	4451.9	9962.8	11274.2	10312.2	10137.5
50°	832.6	834.8	793.8	808.8	914.5	1158.2	5256.4	11373.4	12846.5	11819.9	11231.0
52.5°	783.0	783.0	729.1	737.7	834.8	1102.2	6022.1	12902.6	14921.4	13922.9	12505.7
55°	733.4	729.1	668.6								

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	5019.1	5085.9	5090.3	5090.3	5032.0	5029.9	4911.3	4898.4
5°	5909.9	5953.1	5963.9	5942.2	5825.8	5739.5	5508.8	5459.2
7.5°	6725.2	6811.5	6811.5	6759.8	6569.9	6393.0	6058.8	5933.6
10°	7376.6	7475.8	7454.3	7348.6	7109.2	6865.4	6460.0	6296.1
12.5°	7693.6	7795.0	7739.0	7618.2	7385.2	7128.6	6701.6	6516.0
15°	7687.2	7659.2	7601.0	7585.8	7473.7	7279.6	6880.5	6677.8
17.5°	7413.3	7176.0	7130.7	7281.7	7424.1	7376.6	7035.8	6846.0
20°	6979.7	6565.6	6524.6	6813.7	7219.2	7426.2	7180.3	7005.7
22.5°	6522.5	6076.0	5981.1	6300.4	6910.8	7441.3	7363.7	7188.9
25°	6088.9	5640.3	5545.5	5843.0	6567.8	7415.5	7562.1	7413.3
27.5°	5726.6	5293.1	5204.6	5502.3	6237.7	7342.1	7760.6	7654.9
30°	5446.2	5045.0	4980.3	5267.2	5953.1	7251.6	8012.9	7954.7
32.5°	5282.2	4988.9	5012.7	5247.8	5800.0	7152.3	8254.5	8282.5
35°	5444.1	5457.0	5664.0	5761.1	5942.2	7137.2	8582.3	8692.3
37.5°	6248.6	6697.2	7126.4	7046.6	6638.9	7311.9	9072.0	9276.9
40°	7618.2	8539.2	9235.9	8931.7	7905.1	7846.8	9777.3	10083.5
42.5°	9291.9	10853.5	12001.0	11185.7	9537.8	8782.9	10784.5	11175.0
45°	11058.4	13707.1	15514.6	13819.4	11278.5	10094.3	12309.4	12615.8
47.5°	12919.9	17175.4	19513.5	16739.8	12891.8	11586.9	14388.7	14459.9
50°	14956.0	20978.1	23590.1	19658.1	14449.1	13297.3	16929.6	16847.6
52.5°	16895.1	24888.5	27580.4	22589.3	15816.6	15419.7	19878.0	19709.8
55°	18745.7	28796.9	31594.4	25406.3	17106.4	18223.7	23380.9	22362.8
57.5°	20891.9	32310.5	35731.3	28236.1	18909.6	21864.6	27297.8	23902.9
60°	24064.6	36302.9	40409.7	32114.2	22339.1	25690.9	28701.9	23609.5
62.5°	28115.3	39974.0	43811.1	35914.7	25783.7	26411.4	26633.5	21349.1
65°	28902.5	40903.6	44003.0	36930.5	25339.3	22403.8	21743.8	17160.3
67.5°	26814.7	39223.4	41319.9	35039.0	22414.6	17313.5	16317.0	12449.6
70°								