

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: P968267

Luminaire Tested: **NAV-SB5B-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28816.8 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7
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



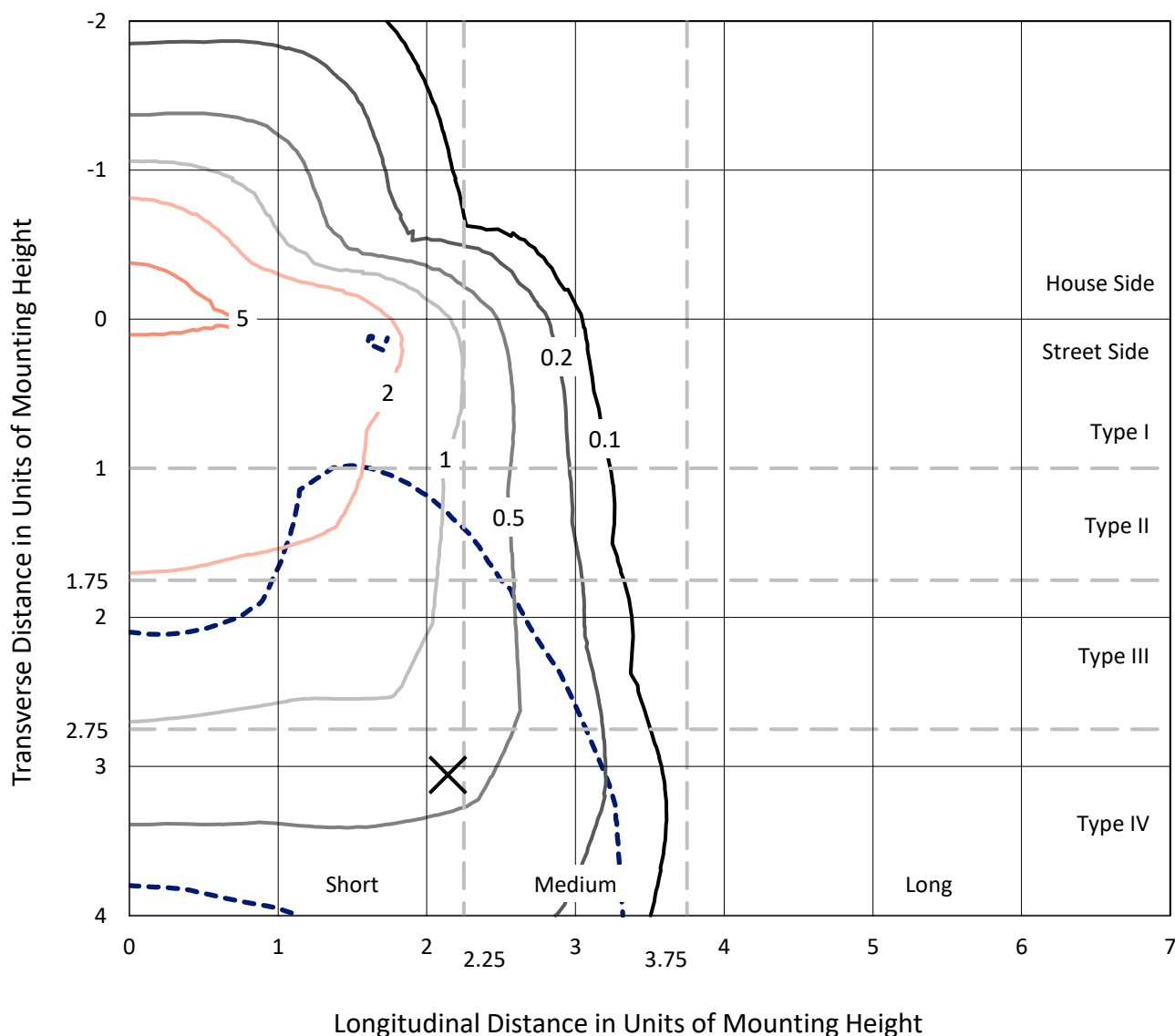
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

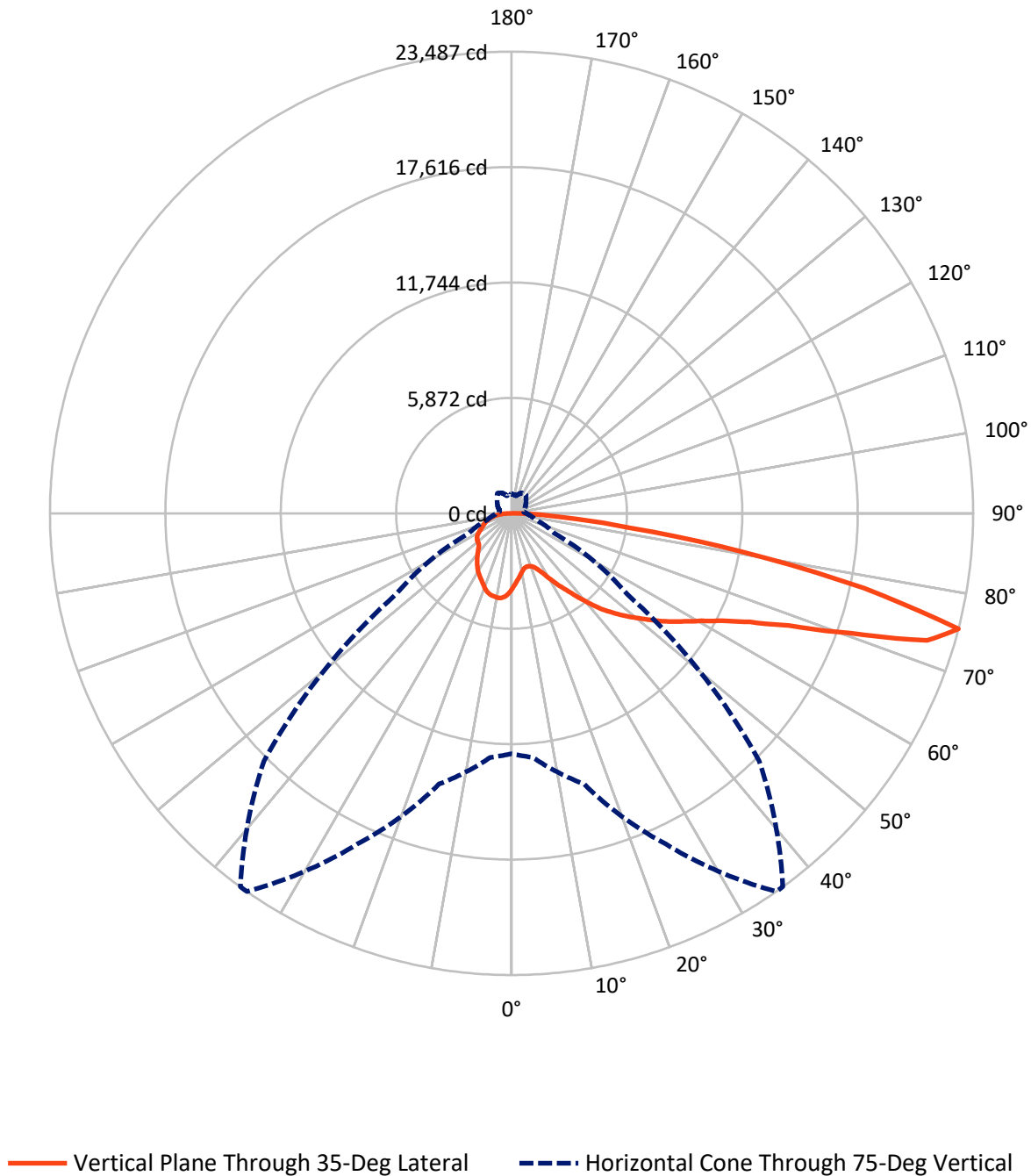


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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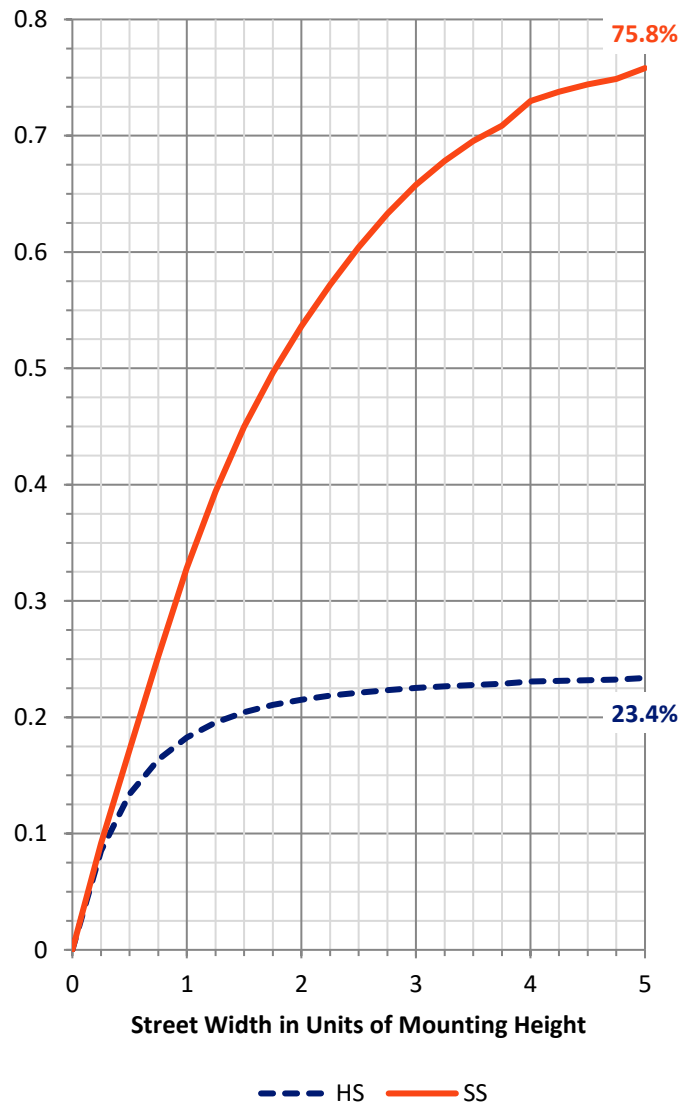
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6857.7	0.0	6857.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21959.1	0.0	21959.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	28816.8	0.0	28816.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	1.3
10°-20°	1048.7	3.6
20°-30°	1761.0	6.1
30°-40°	2736.9	9.5
40°-50°	4062.3	14.1
50°-60°	5608.3	19.5
60°-70°	6804.1	23.6
70°-80°	5623.1	19.5
80°-90°	808.8	2.8
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°	28816.8	100.0
0°-180°	28816.8	100.0

Coefficient of Utilization



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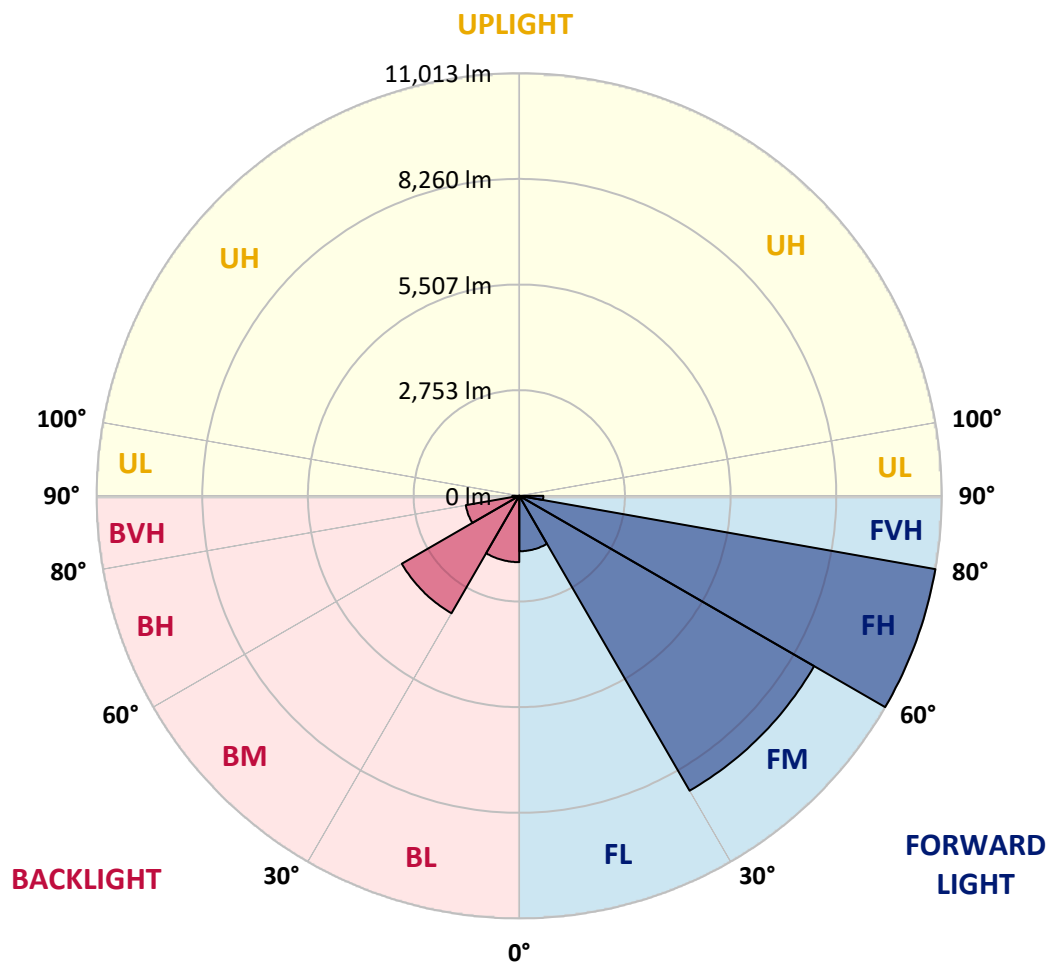
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.1	5.0			
FM	(30°-60°)	8874.0	30.8			
FH	(60°-80°)	11013.4	38.2			G4/12000
FVH	(80°-90°)	626.7	2.2			G4/750
BL	(0°-30°)	1728.2	6.0	B3/2500		
BM	(30°-60°)	3533.5	12.3	B3/5000		
BH	(60°-80°)	1413.8	4.9	B3/2500		G3/2500
BVH	(80°-90°)	182.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1
2.5°	3541.0	3562.8	3572.1	3567.4	3590.8	3587.7	3620.4	3660.9	3717.0	3771.5	3850.9
5°	3268.3	3291.7	3312.0	3330.6	3375.8	3389.8	3441.2	3519.1	3621.9	3726.3	3857.2
7.5°	3014.4	3034.6	3065.8	3100.1	3176.4	3190.4	3276.1	3397.6	3541.0	3693.6	3874.3
10°	2807.2	2827.5	2860.2	2899.1	2994.1	3011.2	3120.3	3282.4	3469.3	3662.4	3893.1
12.5°	2718.4	2724.7	2743.3	2782.3	2864.9	2875.7	2995.7	3181.1	3399.2	3639.1	3921.0
15°	2713.7	2726.2	2727.7	2748.0	2816.6	2821.2	2931.8	3115.7	3355.5	3634.4	3963.1
17.5°	2760.4	2769.9	2755.8	2768.2	2825.9	2833.7	2920.9	3084.5	3341.5	3654.6	4034.8
20°	2885.1	2892.9	2850.8	2833.7	2875.7	2882.0	2967.7	3104.7	3355.5	3696.8	4132.9
22.5°	3149.9	3154.6	3051.7	2981.7	2984.8	2987.9	3062.7	3187.3	3410.1	3773.0	4257.5
25°	3562.8	3559.6	3396.0	3260.5	3182.6	3165.5	3215.3	3321.3	3502.0	3874.3	4418.0
27.5°	4045.7	4022.3	3858.7	3656.2	3486.4	3461.5	3450.6	3495.8	3632.8	4008.3	4614.2
30°	4590.9	4569.1	4393.0	4128.2	3893.1	3852.5	3749.7	3726.3	3827.6	4190.5	4886.9
32.5°	5189.2	5175.1	4964.8	4643.9	4329.2	4282.4	4109.5	4047.2	4126.6	4466.3	5267.0
35°	5690.7	5678.3	5503.8	5173.6	4788.8	4731.1	4555.1	4485.0	4525.5	4820.0	5764.0
37.5°	6144.1	6137.8	5988.3	5728.1	5330.9	5260.8	5062.9	5039.5	5031.8	5285.7	6366.8
40°	6564.7	6549.1	6393.3	6256.2	5961.8	5898.0	5723.5	5703.2	5644.0	5859.0	7049.1
42.5°	7030.5	6990.0	6764.1	6700.2	6620.8	6567.8	6463.4	6466.5	6335.6	6505.5	7772.0
45°	7410.5	7387.2	7155.1	7117.7	7203.4	7181.6	7272.0	7295.3	7041.3	7183.1	8522.9
47.5°	7818.7	7796.9	7600.7	7574.1	7806.3	7812.4	8131.8	8139.6	7729.9	7887.3	9275.3
50°	8321.9	8290.7	8096.1	8128.8	8388.9	8412.3	8996.4	8943.4	8364.0	8602.3	10021.5
52.5°	8653.8	8672.4	8630.4	8683.3	9038.6	9060.3	9847.0	9711.5	8991.8	9308.0	10753.7
55°	8898.3	8935.6	9066.5	9188.1	9724.0	9745.8	10649.3	10442.1	9512.1	9962.3	11442.3
57.5°	9213.0	9160.0	9404.6	9641.4	10375.2	10432.8	11429.8	11146.3	9973.2	10526.2	11914.3
60°	9664.7	9627.3	9817.4	10167.9	11104.1	11196.1	12255.4	11780.3	10311.3	10973.3	12006.1
62.5°	10580.8	10487.3	10516.9	10826.9	12023.2	12144.8	13187.0	12333.3	10479.5	11147.8	11513.9
65°	11950.1	11789.7	11640.1	11855.0	13317.8	13437.9	14238.5	12767.9	10417.2	10809.8	10206.8
67.5°	13674.6	13515.6	13331.9	13534.4	15224.6	15319.6	15536.2	13012.5	9926.5	9507.4	7896.6
70°	15096.9	15037.7	15257.3	16090.8	18270.2	18273.3	17199.9	12810.0	8582.0	6740.7	4569.1
72.5°	14908.4	14872.5	16030.0	18606.6	22108.6	22026.1	18774.9	11277.0	5781.1	3040.9	1712.1
75°	12230.5	12462.6	14255.7	18561.5	23487.4	23476.4	17810.6	7169.2	2391.2	1260.2	884.9
77.5°	6558.5	6926.1	9255.0	13704.1	18335.6	18611.3	12521.8	2508.1	1026.6	807.0	612.2
80°	2138.9	2459.8	3689.0	6977.5	11914.3	11862.8	5366.7	984.5	702.5	571.7	423.7
82.5°	908.3	945.6	1648.2	3294.8	6114.4	6019.4	1709.0	565.5	493.8	391.0	261.7
85°	355.2	397.3	727.5	1523.6	2648.3	2590.7	616.9	280.4	316.2	255.5	155.8
87.5°	116.8	141.8	260.1	521.8	824.1	794.5	151.1	96.6	137.0	116.8	56.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1
2.5°	3872.8	3897.7	3927.3	3970.8	4008.3	4039.4	4072.1	4092.4	4100.2	4123.6	4122.0
5°	3900.8	3955.3	4028.6	4100.2	4170.3	4212.3	4249.8	4268.4	4285.6	4298.0	4301.2
7.5°	3947.5	4017.6	4132.9	4226.4	4285.6	4319.9	4344.8	4338.5	4344.8	4347.8	4352.6
10°	3988.1	4086.2	4223.3	4312.1	4357.3	4358.8	4352.6	4330.7	4319.9	4321.4	4324.5
12.5°	4036.3	4145.4	4293.4	4368.1	4380.6	4346.3	4319.9	4282.4	4268.4	4262.3	4259.1
15°	4101.7	4226.4	4369.7	4397.8	4366.6	4322.9	4277.8	4217.1	4185.9	4161.0	4168.8
17.5°	4181.2	4318.3	4428.9	4408.6	4341.7	4270.0	4196.8	4104.9	4041.0	4014.5	4016.1
20°	4291.8	4414.9	4474.1	4385.3	4284.0	4174.9	4050.4	3938.2	3879.0	3852.5	3849.4
22.5°	4425.7	4544.1	4517.7	4344.8	4201.5	4027.0	3871.2	3788.6	3759.0	3740.3	3743.5
25°	4586.3	4687.5	4548.8	4285.6	4066.0	3830.7	3710.7	3684.3	3670.2	3656.2	3656.2
27.5°	4795.0	4849.5	4572.2	4198.3	3854.1	3621.9	3578.3	3583.0	3578.3	3555.0	3559.6
30°	5070.7	5059.8	4594.0	4056.5	3611.1	3433.4	3436.5	3456.8	3459.9	3444.3	3452.1
32.5°	5433.7	5323.1	4604.9	3872.8	3378.9	3268.3	3271.4	3293.2	3308.8	3282.4	3294.8
35°	5873.0	5630.0	4587.8	3642.2	3199.7	3111.0	3087.6	3093.9	3098.5	3073.6	3090.7
37.5°	6385.5	5974.2	4511.4	3386.7	3051.7	2956.7	2906.9	2864.9	2839.9	2816.6	2832.2
40°	6947.9	6349.7	4371.2	3137.4	2886.6	2793.2	2718.4	2639.0	2554.8	2523.7	2537.7
42.5°	7536.7	6736.0	4201.5	2899.1	2696.6	2620.3	2540.8	2425.6	2299.4	2235.5	2243.3
45°	8147.4	7131.7	4034.8	2663.9	2501.8	2469.1	2377.3	2238.6	2101.6	2020.5	2014.2
47.5°	8745.6	7505.6	3790.1	2427.1	2319.6	2355.4	2283.8	2156.0	2003.4	1875.6	1861.6
50°	9317.4	7856.1	3389.8	2187.1	2171.6	2321.1	2252.6	2068.8	1894.3	1730.7	1716.8
52.5°	9884.4	8139.6	2877.3	1969.1	2092.1	2311.8	2212.2	2009.6	1796.2	1624.8	1606.1
55°	10365.7	8286.1	2383.4	1782.2	1976.9	2232.3	2163.8	1939.5	1657.5	1475.3	1459.7
57.5°	10639.9	8167.7	1972.2	1598.3	1817.9	2101.6	2081.3	1790.0	1492.4	1352.2	1333.5
60°	10521.5	7687.9	1635.7	1437.9	1666.9	1959.7	1938.0	1641.9	1366.2	1233.8	1215.1
62.5°	9868.8	6773.4	1369.3	1297.6	1529.8	1814.9	1794.6	1528.3	1269.7	1141.8	1121.7
65°	8554.0	5510.0	1162.1	1180.8	1391.1	1640.4	1670.0	1433.2	1193.3	1068.7	1048.4
67.5°	6524.1	3991.1	1000.1	1079.5	1255.6	1469.0	1554.7	1364.7	1129.4	1011.1	992.3
70°	3718.5	2266.7	863.0	981.4	1135.7	1310.2	1466.0	1310.2	1060.9	962.8	950.3
72.5°	1409.8	1040.6	746.2	883.2	1020.4	1176.2	1367.8	1224.5	981.4	908.3	895.7
75°	752.5	634.1	627.8	768.0	888.0	1045.3	1244.7	1140.3	922.2	959.6	990.8
77.5°	512.5	448.6	525.0	657.4	743.1	900.5	1113.9	1012.6	799.2	796.0	733.7
80°	355.2	317.8	426.8	529.6	574.8	757.1	972.1	869.3	651.2	607.5	581.1
82.5°	213.4	207.2	319.4	395.6	406.6	584.1	805.4	729.1	532.8	464.2	467.3
85°	116.8	123.1	204.1	232.2	236.8	408.2	630.9	564.0	409.7	344.3	347.4
87.5°	32.7	42.0	74.8	91.9	113.7	211.9	375.5	335.0	205.6	143.3	143.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)