

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: P968293

Luminaire Tested: **NAV-SB5B-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24192 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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

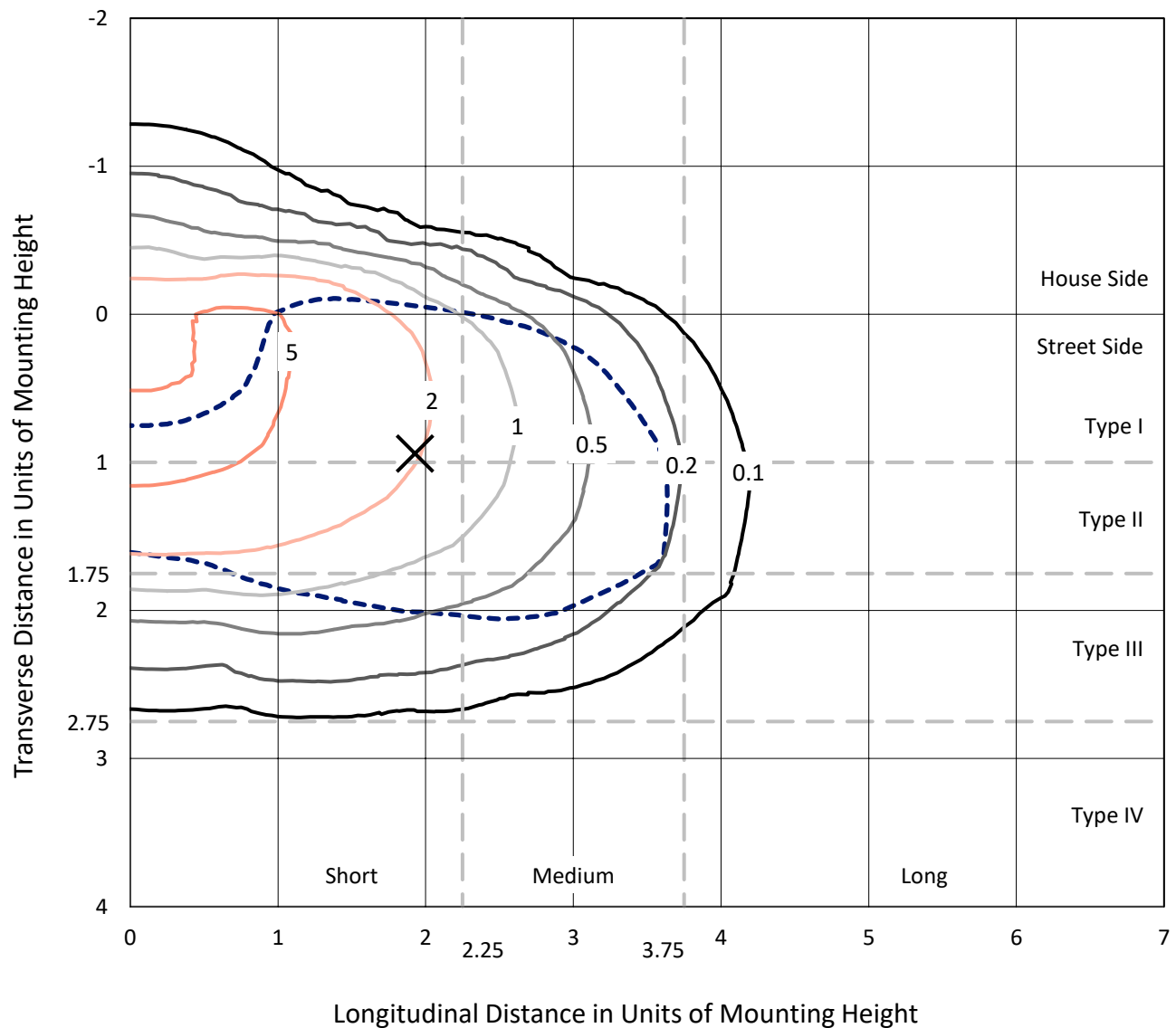


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

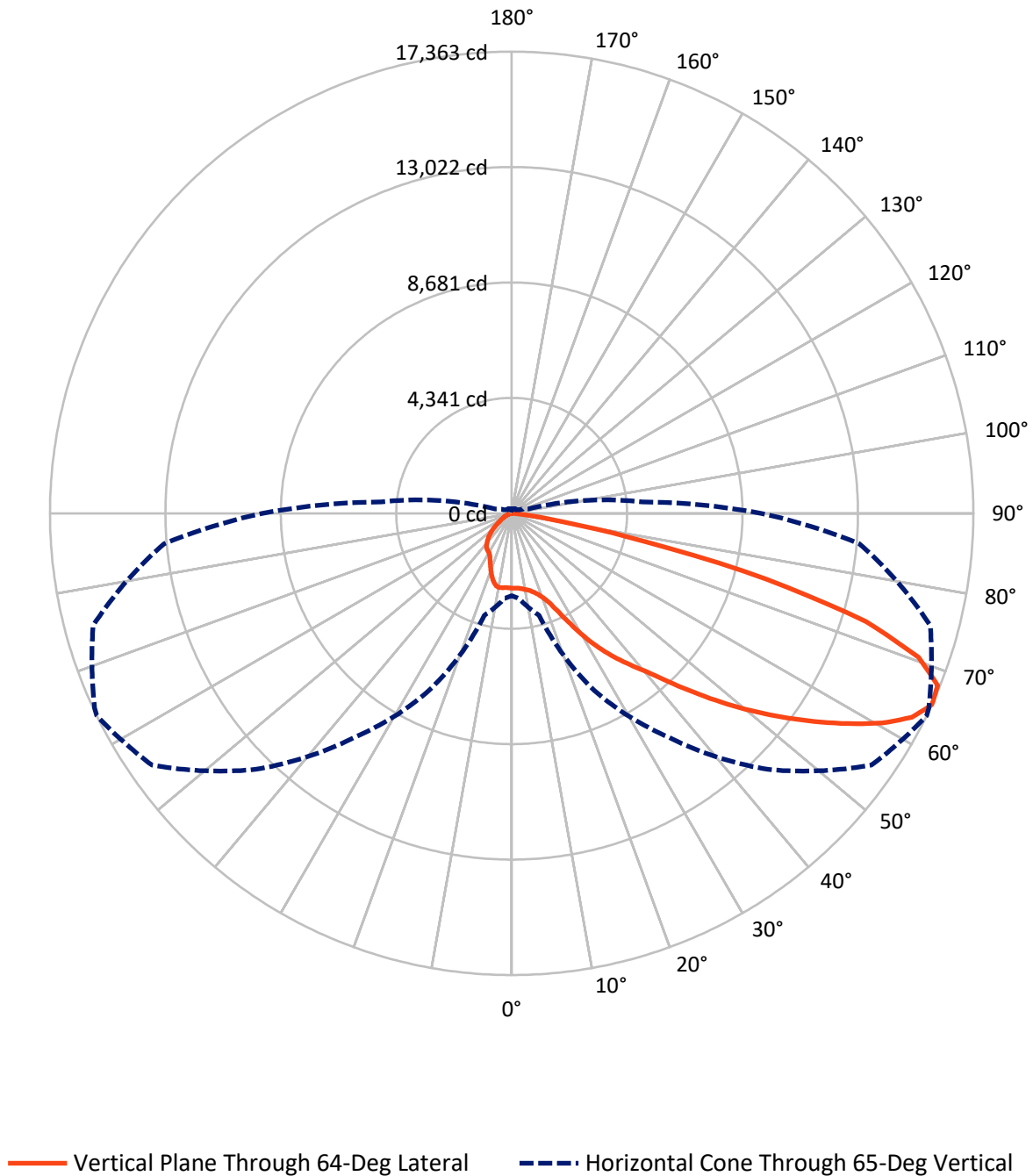


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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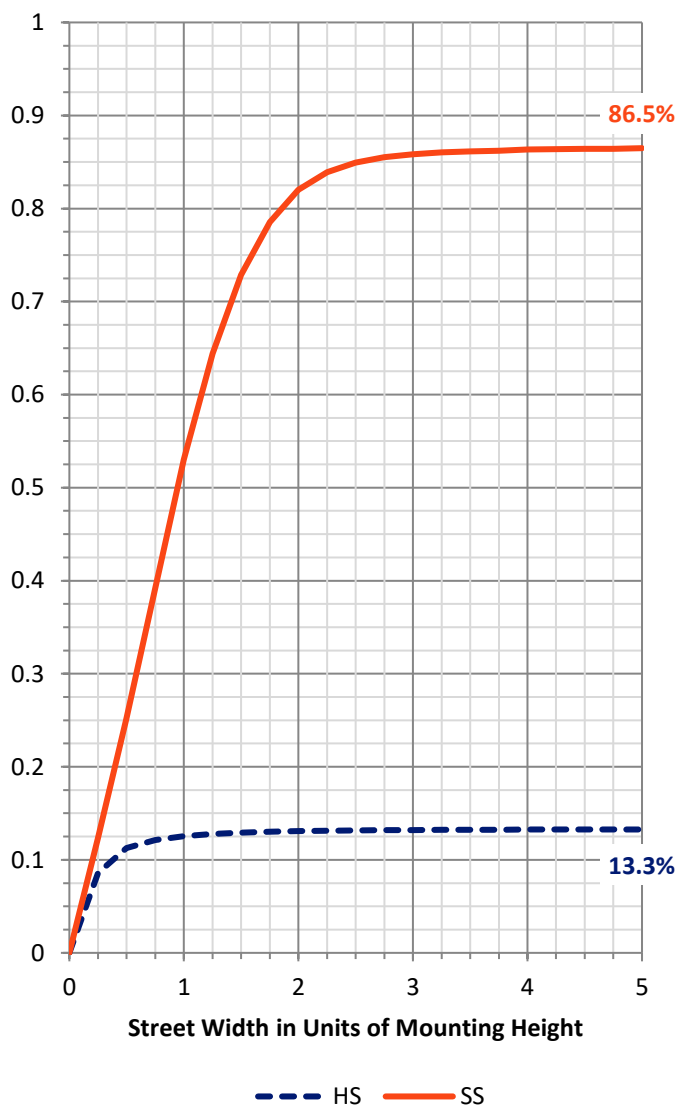
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.2	0.0	3235.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20956.8	0.0	20956.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	24192.0	0.0	24192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	1.1
10°-20°	704.1	2.9
20°-30°	1334.2	5.5
30°-40°	2699.9	11.2
40°-50°	4599.2	19.0
50°-60°	6254.6	25.9
60°-70°	5873.4	24.3
70°-80°	2353.1	9.7
80°-90°	114.0	0.5
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°	24192.0	100.0
0°-180°	24192.0	100.0

Coefficient of Utilization



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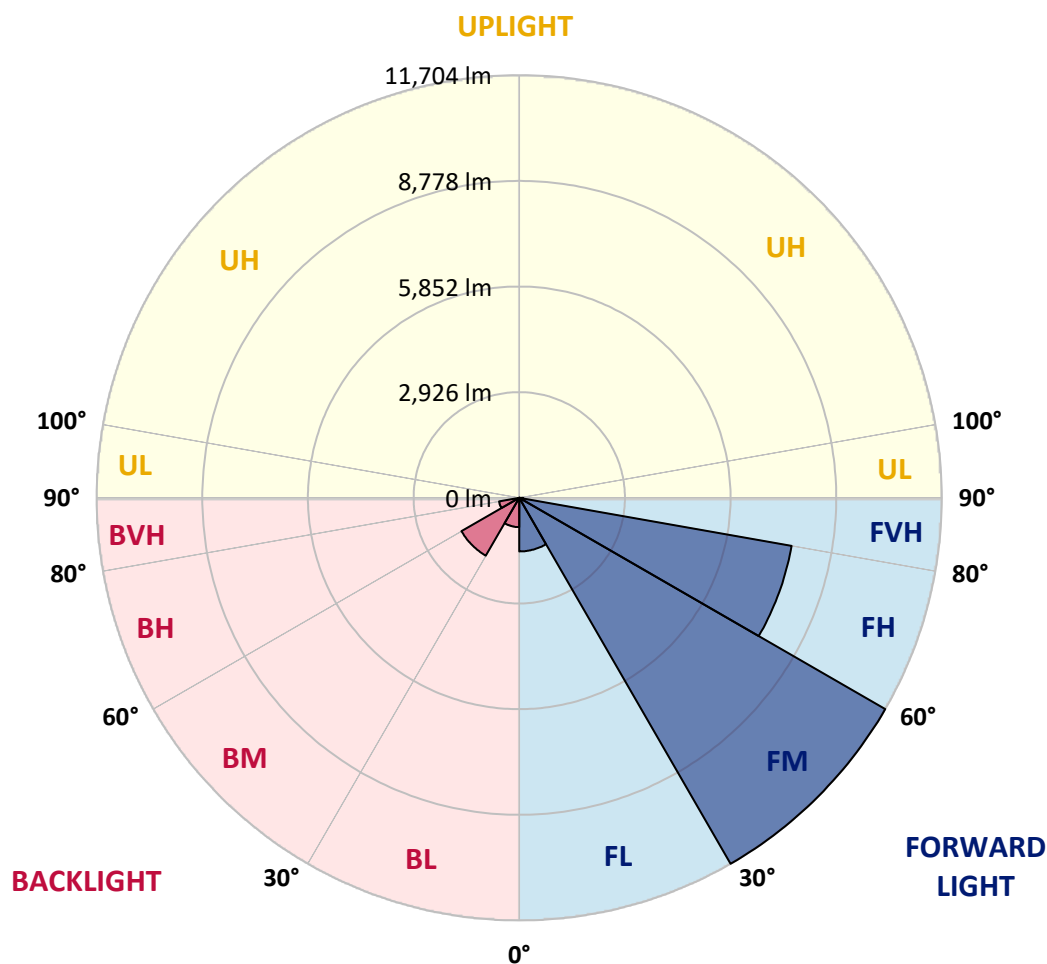
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.7	6.1			
FM	(30°-60°)	11704.1	48.4			
FH	(60°-80°)	7658.7	31.7			G4/12000
FVH	(80°-90°)	108.4	0.4			G2/225
BL	(0°-30°)	812.3	3.4	B2/1000		
BM	(30°-60°)	1849.5	7.6	B2/2500		
BH	(60°-80°)	567.8	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8
2.5°	2804.1	2823.6	2818.6	2813.8	2812.2	2815.4	2817.0	2815.4	2815.4	2815.4	2817.0
5°	2750.6	2766.8	2766.8	2778.1	2794.4	2813.8	2828.4	2831.7	2834.8	2839.8	2838.1
7.5°	2648.4	2661.3	2671.0	2708.4	2748.9	2800.8	2844.6	2867.3	2870.5	2888.3	2894.9
10°	2578.6	2594.9	2611.1	2650.0	2708.4	2786.3	2860.8	2915.9	2924.0	2966.2	2985.7
12.5°	2575.4	2591.6	2612.7	2654.9	2723.0	2805.6	2896.5	2976.0	2990.5	3052.1	3092.7
15°	2609.4	2628.9	2648.4	2700.3	2773.2	2873.8	2971.1	3070.0	3084.6	3172.2	3215.9
17.5°	2679.1	2705.1	2719.7	2771.6	2849.5	2961.3	3089.5	3203.0	3215.9	3318.1	3373.3
20°	2817.0	2847.9	2852.7	2894.9	2971.1	3091.1	3243.5	3384.7	3400.8	3517.6	3579.3
22.5°	3102.5	3146.2	3107.3	3128.4	3196.6	3316.5	3481.9	3660.4	3683.0	3816.1	3871.2
25°	3605.2	3666.8	3566.3	3530.6	3559.8	3684.7	3892.2	4117.7	4143.7	4250.7	4278.2
27.5°	4592.9	4513.4	4361.0	4211.7	4124.2	4195.5	4429.1	4708.0	4740.4	4844.3	4811.9
30°	5677.9	5608.1	5402.2	5071.3	4863.7	4852.3	5068.0	5379.4	5416.7	5515.6	5416.7
32.5°	6764.5	6698.0	6474.1	6067.1	5707.0	5528.6	5677.9	6023.3	6042.8	6106.0	5960.1
35°	7833.2	7765.1	7541.2	7124.5	6681.8	6276.3	6247.1	6636.4	6642.8	6709.3	6491.9
37.5°	8908.5	8851.7	8613.3	8204.6	7768.4	7208.8	6938.0	7216.9	7225.0	7289.9	7064.5
40°	9675.5	9699.9	9536.1	9219.8	8845.1	8233.7	7713.2	7834.8	7786.2	7894.9	7760.2
42.5°	10333.9	10382.6	10240.0	10081.0	9863.7	9325.2	8673.2	8652.2	8574.3	8632.8	8493.3
45°	10903.2	10943.7	10815.6	10778.4	10773.5	10395.7	9722.5	9596.0	9487.4	9476.0	9309.0
47.5°	11112.4	11190.2	11245.4	11370.3	11613.6	11454.6	10807.5	10611.3	10489.6	10400.5	10136.1
50°	11191.9	11274.6	11462.8	11826.0	12401.8	12469.8	11887.6	11667.1	11517.9	11355.7	10966.5
52.5°	11084.9	11232.5	11485.4	12096.8	12932.0	13284.0	12923.9	12731.0	12560.7	12296.3	11718.9
55°	10454.0	10601.6	11118.9	12093.6	13196.5	13854.8	13903.5	13817.5	13626.1	13209.4	12327.2
57.5°	9124.1	9343.1	10162.1	11681.7	13191.5	14346.2	14863.6	14925.2	14711.1	14114.4	12805.5
60°	7281.8	7578.5	8577.6	10768.6	12784.5	14612.2	15705.4	16013.5	15786.4	15006.3	13193.2
62.5°	5081.0	5424.8	6370.4	9338.2	11853.6	14420.8	16319.9	16889.2	16717.3	15804.3	13342.4
65°	3099.2	3209.5	3971.8	7348.3	10270.7	13619.7	16509.7	17362.8	17306.0	16292.4	13121.8
67.5°	2064.6	2157.0	2376.0	5038.9	7972.7	12019.0	16055.6	17280.1	17296.3	16212.9	12314.1
70°	1243.9	1323.4	1466.1	2930.6	5167.0	9513.3	14649.5	16225.9	16319.9	15150.6	10783.2
72.5°	512.5	566.0	695.8	1328.2	2676.0	6037.9	11665.4	13931.1	14150.0	12739.1	8276.0
75°	290.3	317.9	408.7	666.6	1161.2	2813.8	7066.0	9889.6	10212.4	8780.4	4978.8
77.5°	193.0	205.9	264.3	431.4	653.5	960.1	3019.8	5152.4	5768.7	4795.6	2155.4
80°	129.8	141.1	181.6	288.6	424.9	411.9	961.8	1908.9	2348.4	1647.7	525.4
82.5°	87.5	89.2	129.8	189.7	269.2	199.5	283.8	593.6	746.0	476.8	199.5
85°	50.2	48.7	95.7	110.3	120.0	82.7	86.0	178.4	233.5	201.1	113.6
87.5°	6.5	9.7	37.3	29.2	16.2	17.8	17.8	30.9	45.4	48.7	24.3
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°	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8	2813.8
2.5°	2817.0	2815.4	2810.5	2805.6	2794.4	2787.8	2791.1	2787.8	2786.3	2787.8	2794.4
5°	2838.1	2833.2	2820.3	2804.1	2781.3	2753.8	2735.9	2710.0	2685.7	2671.0	2674.3
7.5°	2894.9	2890.0	2872.2	2826.7	2753.8	2638.7	2533.2	2440.7	2371.0	2330.5	2332.1
10°	2985.7	2977.6	2950.1	2849.5	2658.1	2406.7	2197.5	2024.0	1910.5	1856.9	1852.1
12.5°	3092.7	3083.0	3034.3	2828.4	2476.5	2084.0	1795.3	1602.3	1496.9	1449.9	1445.0
15°	3219.2	3206.3	3110.6	2727.8	2212.2	1727.2	1462.9	1318.5	1250.4	1208.3	1209.8
17.5°	3376.6	3353.8	3167.4	2577.1	1925.1	1454.8	1258.5	1149.8	1089.9	1049.3	1046.0
20°	3580.8	3543.6	3212.8	2397.0	1660.7	1282.8	1120.6	1029.8	984.4	948.7	942.3
22.5°	3866.3	3812.8	3267.9	2202.4	1474.2	1164.4	1018.4	952.0	914.7	874.1	867.7
25°	4219.8	4156.6	3336.0	2022.3	1346.0	1062.3	943.9	888.8	844.9	798.0	793.0
27.5°	4714.5	4601.0	3417.0	1874.8	1235.8	974.7	875.8	814.2	763.8	725.0	716.8
30°	5265.9	5079.4	3488.5	1785.6	1135.3	893.6	786.6	725.0	677.9	650.4	645.4
32.5°	5788.2	5535.1	3535.4	1746.7	1044.5	801.1	689.2	622.8	587.1	579.0	583.8
35°	6281.2	5947.0	3530.6	1709.4	963.3	708.7	593.6	525.4	497.8	502.8	502.8
37.5°	6848.7	6386.6	3496.6	1651.0	896.9	624.4	510.9	450.9	426.5	428.1	434.6
40°	7508.8	6894.2	3475.5	1540.7	823.9	546.5	442.7	394.1	376.3	369.7	368.2
42.5°	8212.7	7385.5	3478.7	1415.8	733.1	476.8	395.8	355.2	339.0	334.0	332.5
45°	8919.8	7854.3	3483.6	1286.1	637.3	423.3	361.6	327.6	317.9	311.4	311.4
47.5°	9584.7	8253.2	3392.7	1146.6	543.2	382.7	334.0	311.4	303.3	295.2	295.2
50°	10204.2	8519.2	3173.8	984.4	468.7	350.3	313.0	296.7	288.6	280.5	280.5
52.5°	10685.9	8561.4	2812.2	817.3	416.8	326.0	300.0	285.5	275.7	267.6	266.0
55°	10900.0	8297.1	2298.0	661.6	376.3	304.9	287.1	272.4	261.1	253.0	251.3
57.5°	10844.8	7740.8	1792.1	532.0	337.3	283.8	270.8	261.1	248.2	235.1	233.5
60°	10574.0	6996.3	1350.9	442.7	301.7	261.1	253.0	244.9	227.0	207.6	204.4
62.5°	10105.3	6060.6	963.3	366.5	262.7	235.1	232.0	225.4	199.5	163.8	160.5
65°	9388.5	4923.7	648.7	304.9	225.4	205.9	207.6	196.2	162.2	121.7	118.4
67.5°	8340.8	3600.3	415.1	249.8	188.1	171.9	173.5	167.1	137.9	103.8	98.9
70°	7006.1	2384.0	270.8	189.7	150.8	132.9	142.7	144.3	116.7	84.4	81.1
72.5°	5136.2	1407.7	189.7	141.1	110.3	92.5	116.7	120.0	94.1	63.2	60.0
75°	2927.3	668.2	142.7	102.2	68.2	64.9	90.8	90.8	64.9	42.1	38.9
77.5°	1229.3	278.9	100.6	66.5	38.9	37.3	61.6	56.8	32.4	19.5	19.5
80°	355.2	124.8	53.5	32.4	16.2	14.6	24.3	17.8	8.1	3.3	3.3
82.5°	139.5	55.1	21.1	13.0	6.5	6.5	3.3	0.0	0.0	0.0	0.0
85°	82.7	22.8	9.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	4.8	3.3	0.0	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	0.0	0.0	0.0	0.0

(END OF REPORT)