

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: P968356

Luminaire Tested: **NAV-SB5B-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-760-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25680.3 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

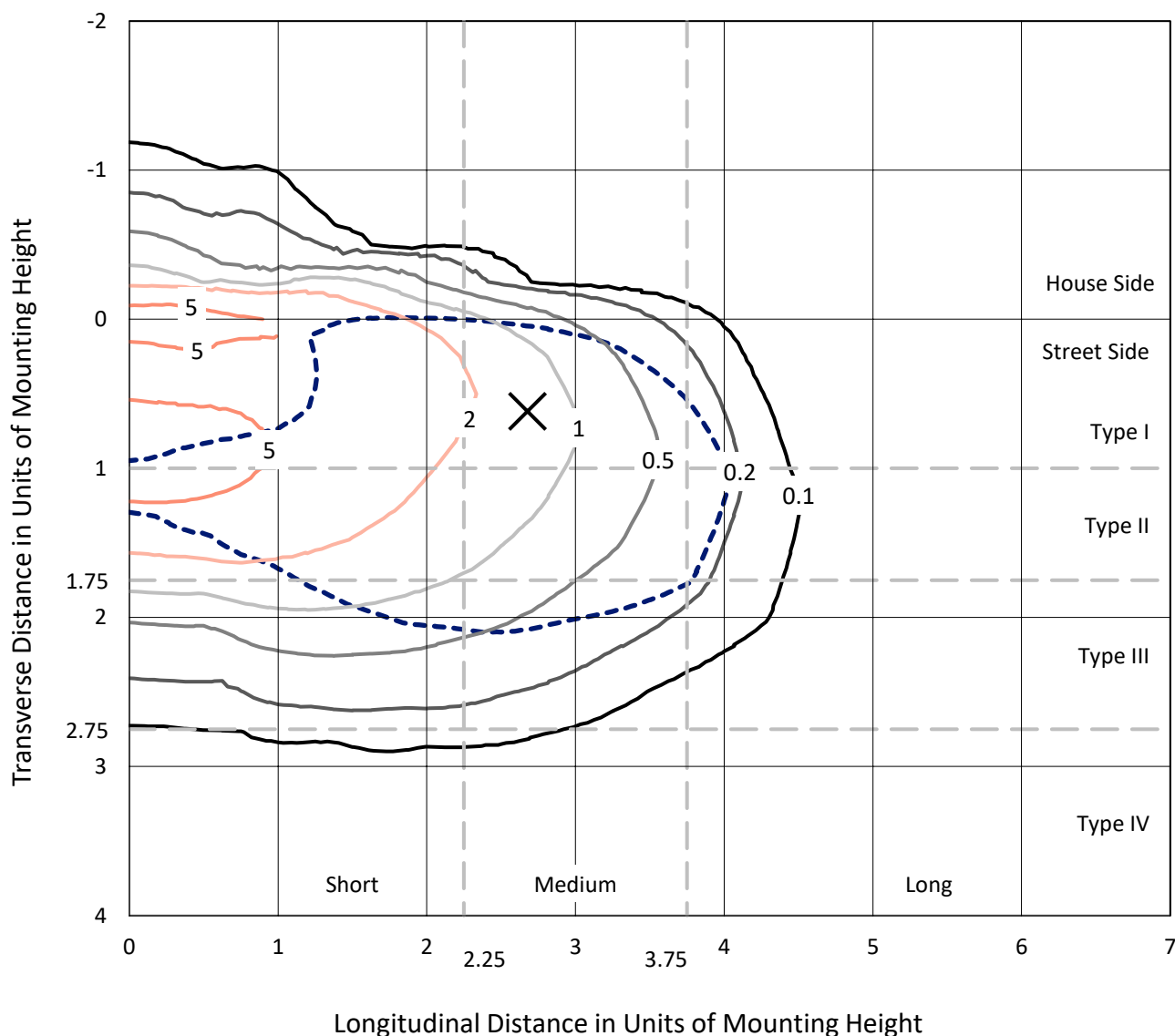


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Iso-Footcandle Lines of Horizontal Illumination

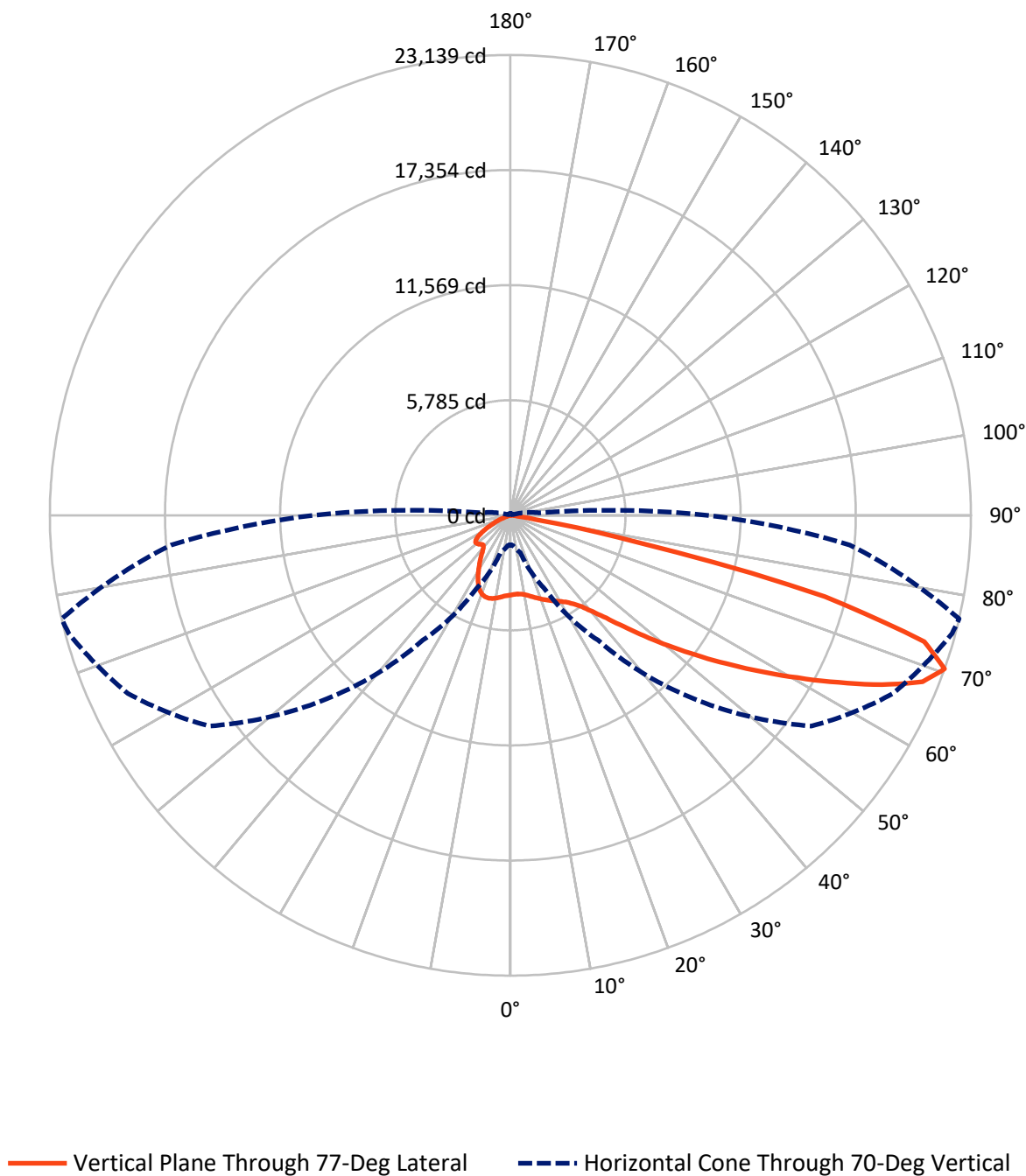
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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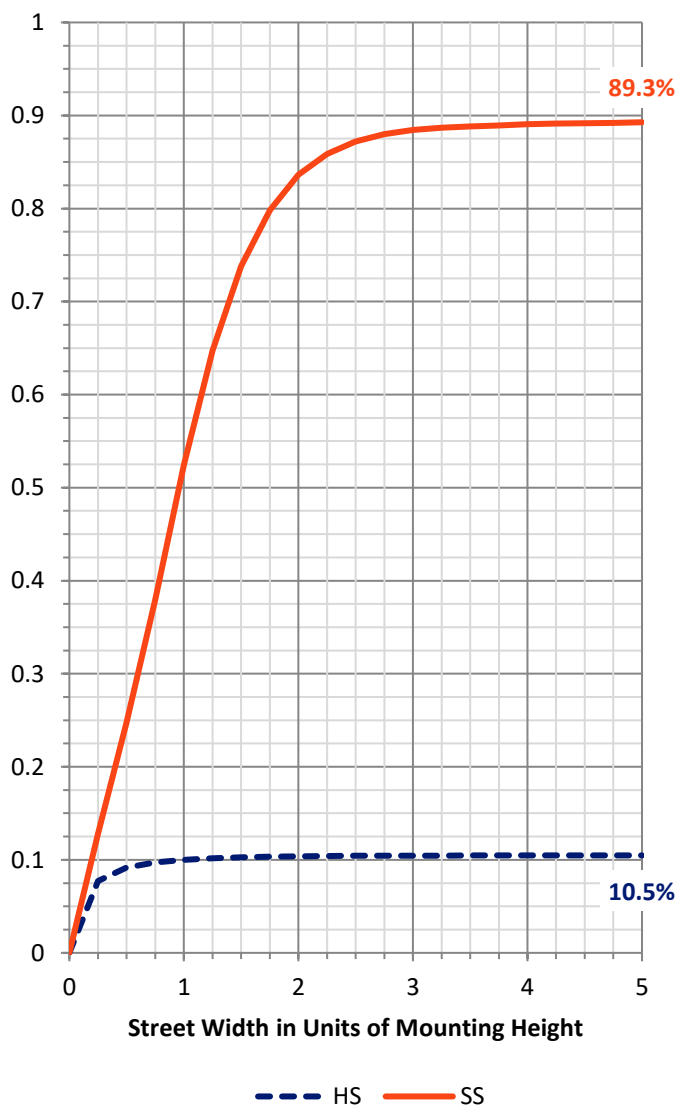
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2707.1	0.0	2707.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22973.3	0.0	22973.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	25680.3	0.0	25680.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	1.3
10°-20°	819.5	3.2
20°-30°	1267.6	4.9
30°-40°	2300.1	9.0
40°-50°	4341.7	16.9
50°-60°	6273.4	24.4
60°-70°	6677.9	26.0
70°-80°	3538.8	13.8
80°-90°	116.2	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°	25680.3	100.0
0°-180°	25680.3	100.0

Coefficient of Utilization



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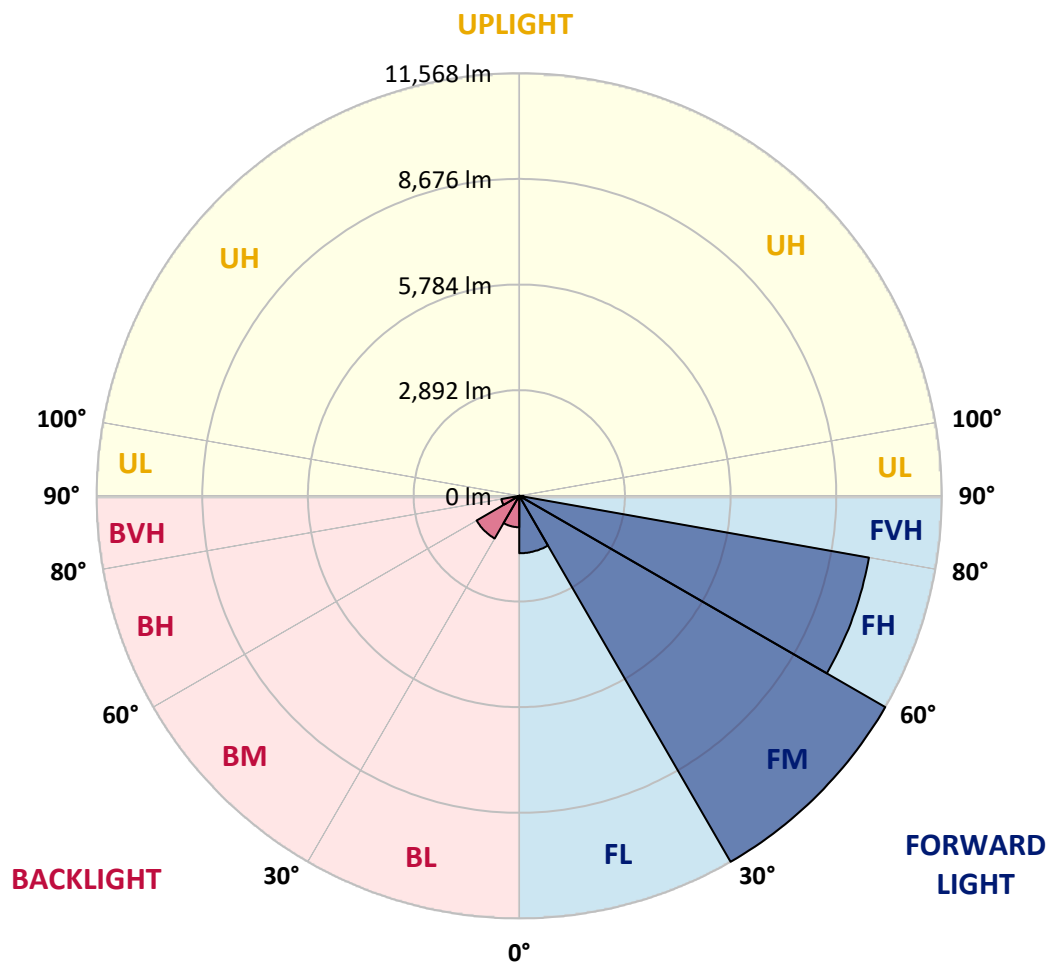
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1572.2	6.1			
FM	(30°-60°)	11567.6	45.0			
FH	(60°-80°)	9720.4	37.9			G4/12000
FVH	(80°-90°)	113.1	0.4			G2/225
BL	(0°-30°)	860.1	3.3	B2/1000		
BM	(30°-60°)	1347.6	5.2	B2/2500		
BH	(60°-80°)	496.3	1.9	B1/500		G1/500
BVH	(80°-90°)	3.1	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7
2.5°	3760.8	3794.9	3789.9	3812.7	3820.8	3853.2	3885.7	3929.4	3978.1	3976.5	4008.9
5°	3548.3	3582.4	3590.5	3621.3	3660.3	3710.5	3777.0	3864.6	3955.4	3970.0	4034.9
7.5°	3297.0	3332.7	3353.7	3415.4	3486.7	3590.5	3699.1	3827.2	3978.1	3999.1	4124.1
10°	3045.6	3078.1	3105.6	3193.2	3306.8	3460.8	3637.5	3822.4	4025.2	4055.9	4232.7
12.5°	2889.9	2920.7	2951.6	3027.7	3168.9	3357.0	3597.0	3845.1	4103.0	4146.7	4380.3
15°	2834.7	2862.3	2886.7	2954.8	3086.2	3300.2	3588.9	3892.1	4201.9	4260.3	4558.7
17.5°	2842.9	2857.5	2873.7	2925.6	3053.7	3274.3	3603.5	3973.2	4318.6	4370.6	4737.0
20°	2889.9	2898.0	2899.6	2935.3	3048.9	3271.0	3632.7	4051.1	4428.9	4498.7	4913.8
22.5°	2950.0	2953.1	2950.0	2974.2	3079.6	3295.4	3671.6	4145.1	4552.2	4617.1	5092.2
25°	3230.5	3168.9	3091.0	3043.9	3131.6	3342.4	3730.0	4271.6	4686.8	4750.1	5265.7
27.5°	4101.3	3924.6	3645.6	3332.7	3238.6	3410.5	3811.1	4399.7	4823.0	4879.8	5452.3
30°	5515.5	5283.6	4810.0	4104.6	3582.4	3553.2	3916.5	4527.8	4967.4	5029.0	5651.7
32.5°	6932.9	6876.1	6329.6	5353.4	4355.9	3871.1	4091.6	4701.4	5158.7	5207.4	5920.9
35°	8366.5	8251.4	7803.7	6838.8	5547.9	4518.1	4383.5	4928.4	5410.1	5465.2	6313.4
37.5°	9464.4	9394.6	9117.4	8322.7	6962.1	5517.2	4883.0	5280.4	5775.0	5836.6	6816.1
40°	10434.2	10401.8	10307.7	9783.9	8543.3	6824.2	5659.8	5825.3	6281.0	6354.0	7432.4
42.5°	11196.4	11272.6	11326.1	11180.2	10173.1	8316.2	6704.2	6590.7	6986.4	7061.0	8217.3
45°	11976.5	12002.4	12218.1	12428.9	11791.6	9876.3	7881.6	7487.5	7863.8	7956.2	9157.9
47.5°	12477.6	12581.4	12960.8	13332.3	13152.2	11423.4	9146.6	8546.6	8880.6	9054.1	10212.1
50°	12514.8	12711.1	13233.3	13880.3	14143.1	12896.0	10521.7	9753.1	10108.2	10299.6	11337.5
52.5°	11893.8	12198.6	13007.9	13955.0	14678.3	14143.1	11944.0	10959.6	11415.3	11665.1	12505.1
55°	9119.0	9517.9	12159.7	13549.6	14699.3	15088.6	13329.0	12216.5	12871.6	13153.8	13766.9
57.5°	7944.9	8146.0	9560.1	12845.7	14308.5	15469.7	14580.9	13413.4	14456.1	14806.4	14958.8
60°	6610.1	6874.5	8017.9	11694.3	13778.3	15507.0	15687.0	14957.2	16173.5	16567.6	16051.9
62.5°	4492.2	4779.3	5916.1	9715.8	13053.3	15489.2	16593.5	16546.5	18082.2	18505.6	16977.9
65°	2782.9	2962.9	3712.1	7933.5	12039.8	15508.6	17542.3	18476.3	20096.5	20526.2	17694.7
67.5°	2199.0	2281.8	2672.6	6091.2	10293.2	15070.7	18489.4	20291.1	21992.3	22332.8	17913.6
70°	1477.4	1527.7	1944.4	4083.5	7657.8	13050.1	18471.5	21202.5	22968.5	23138.9	17115.8
72.5°	778.4	817.3	1136.8	1890.9	4625.2	9276.2	15570.3	20112.7	21997.1	21740.9	14629.6
75°	389.2	454.1	765.5	960.0	1975.3	5173.3	9668.7	15857.3	17313.6	16321.1	9386.5
77.5°	295.2	356.8	632.4	632.4	687.6	1741.8	4094.9	8648.6	7977.3	6642.6	2755.3
80°	188.1	243.2	553.0	478.4	287.0	442.7	1067.1	2422.9	1694.7	1289.2	501.1
82.5°	110.3	159.0	460.5	316.2	160.5	163.8	301.7	515.7	439.5	342.1	154.1
85°	43.8	103.8	316.2	124.8	63.2	40.6	90.8	110.3	90.8	68.2	38.9
87.5°	0.0	24.3	55.1	0.0	4.8	3.3	6.5	8.1	8.1	6.5	13.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7
2.5°	4023.5	4026.7	4036.4	4038.1	4015.4	3986.2	3974.8	3970.0	3950.6	3948.9	3952.2
5°	4072.1	4086.8	4072.1	4030.0	3929.4	3788.4	3681.3	3593.8	3514.3	3489.9	3475.4
7.5°	4169.5	4184.0	4140.3	3974.8	3721.9	3441.3	3188.4	3009.9	2849.4	2789.3	2765.0
10°	4308.9	4328.4	4190.5	3856.5	3408.8	2958.0	2529.9	2228.2	1993.1	1897.4	1856.9
12.5°	4484.1	4492.2	4218.1	3676.5	3001.8	2358.0	1751.4	1428.7	1219.5	1141.7	1117.4
15°	4677.1	4665.7	4221.4	3431.6	2447.2	1667.2	1143.3	939.0	854.6	828.7	828.7
17.5°	4879.8	4832.8	4156.5	3078.1	1839.1	1140.1	848.2	799.5	784.9	778.4	776.8
20°	5079.3	4973.8	4038.1	2615.8	1320.1	851.4	770.3	755.7	747.6	744.4	741.2
22.5°	5260.9	5080.9	3835.3	2079.0	958.5	752.5	728.2	715.1	700.6	694.1	692.5
25°	5437.6	5142.5	3550.0	1578.0	767.1	703.9	684.4	660.0	640.6	632.4	629.2
27.5°	5609.5	5181.4	3193.2	1167.7	684.4	658.5	622.8	588.7	574.1	570.8	567.6
30°	5792.8	5194.4	2787.8	870.8	634.1	601.7	549.8	510.9	502.8	504.4	504.4
32.5°	6016.6	5213.9	2379.1	713.6	591.9	533.5	471.9	431.4	424.9	431.4	429.8
35°	6284.2	5252.8	1985.0	656.8	554.6	463.8	397.3	363.3	356.8	361.6	360.0
37.5°	6647.4	5316.1	1616.8	645.4	523.8	405.4	334.0	306.5	306.5	308.1	306.5
40°	7130.7	5484.7	1287.6	637.3	507.6	361.6	282.2	270.8	275.7	278.9	278.9
42.5°	7719.5	5843.1	1065.5	627.6	489.7	342.1	256.2	251.3	259.4	262.7	262.7
45°	8379.5	6297.2	987.6	611.4	473.6	355.2	244.9	238.4	248.2	249.8	251.3
47.5°	9062.2	6741.5	978.0	593.6	457.4	374.6	241.6	227.0	238.4	240.1	241.6
50°	9753.1	7031.8	987.6	566.0	431.4	374.6	243.2	215.7	225.4	230.3	232.0
52.5°	10448.8	7164.7	981.1	505.9	386.0	351.9	243.2	205.9	215.7	218.9	218.9
55°	11123.4	7138.8	882.2	416.8	327.6	311.4	236.8	197.8	204.4	205.9	205.9
57.5°	11657.0	6777.2	698.9	324.3	266.0	259.4	215.7	188.1	193.0	191.4	191.4
60°	11935.9	5982.5	499.5	249.8	209.2	204.4	189.7	175.2	178.4	170.3	168.6
62.5°	11939.2	4931.7	334.0	197.8	167.1	162.2	162.2	157.3	154.1	137.9	132.9
65°	11684.6	3765.6	222.2	157.3	134.6	126.5	136.2	134.6	123.2	100.6	97.3
67.5°	11107.2	2468.3	168.6	123.2	103.8	98.9	108.6	113.6	105.4	84.4	82.7
70°	9920.2	1436.8	139.5	95.6	77.8	73.0	87.5	97.3	87.5	68.2	64.9
72.5°	8240.0	775.2	113.6	71.3	53.5	48.7	69.7	79.4	69.7	50.2	48.7
75°	5346.8	415.1	87.5	47.0	27.6	30.9	51.9	58.4	48.7	32.4	29.2
77.5°	1795.3	183.3	55.1	22.8	13.0	13.0	30.9	35.7	22.8	11.4	9.7
80°	400.6	76.3	22.8	9.7	4.8	4.8	6.5	6.5	3.3	0.0	0.0
82.5°	131.4	30.9	9.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.2	11.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	1.6	0.0	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)