

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: P969916

Luminaire Tested: **NAV-SB6A-760-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-760-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25150.4 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 170.9
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

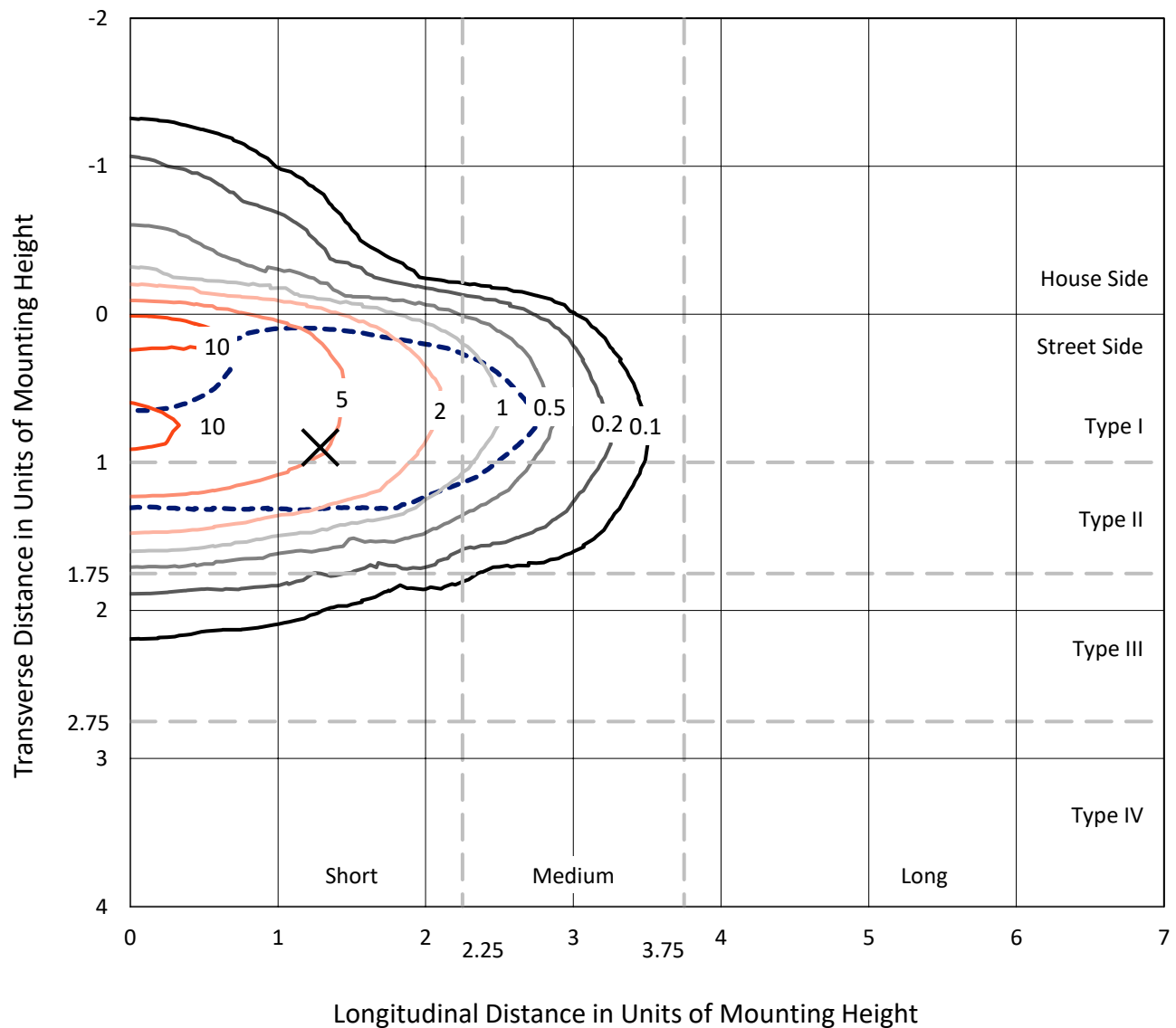


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

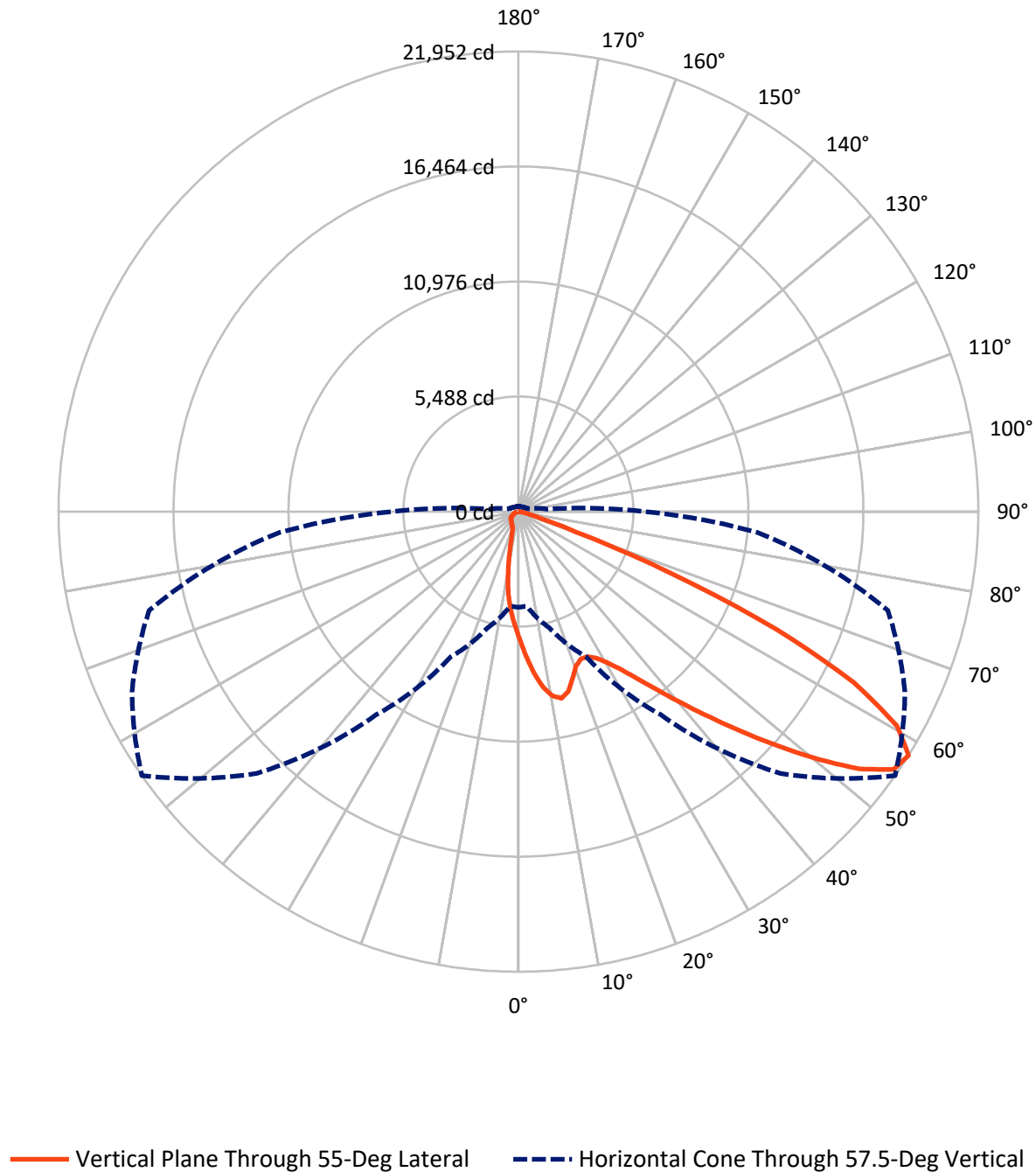


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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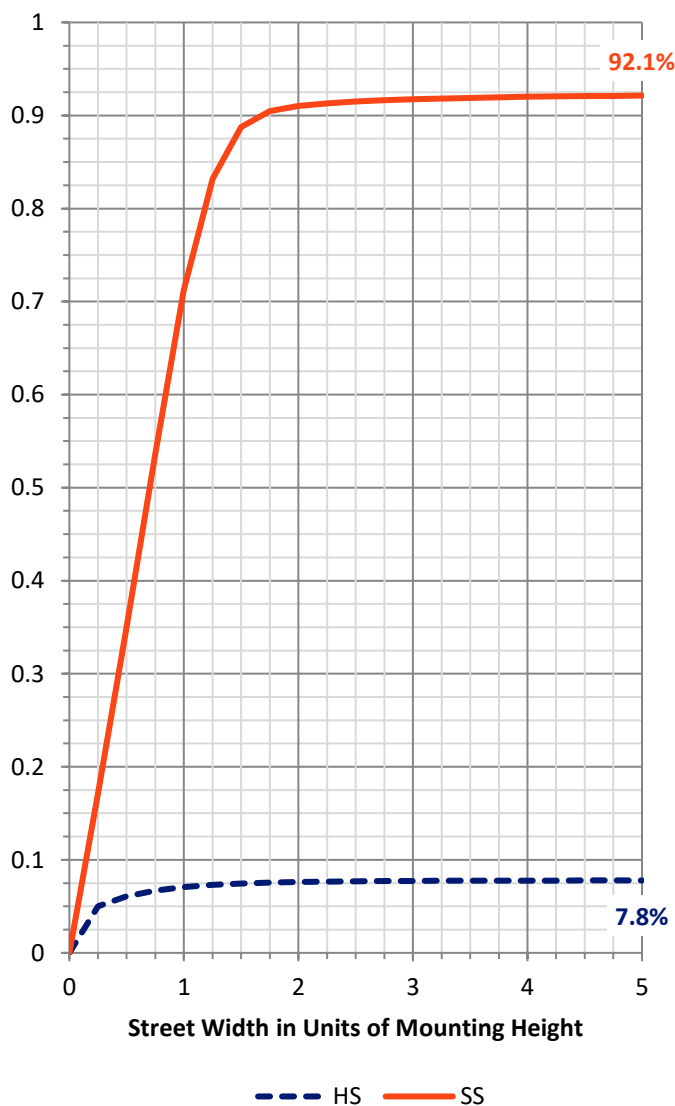
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.1	0.0	1964.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23186.3	0.0	23186.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	25150.4	0.0	25150.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.9	2.2
10°-20°	1362.1	5.4
20°-30°	2179.4	8.7
30°-40°	3688.7	14.7
40°-50°	6056.1	24.1
50°-60°	6656.1	26.5
60°-70°	3817.9	15.2
70°-80°	780.1	3.1
80°-90°	46.0	0.2
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°	25150.4	100.0
0°-180°	25150.4	100.0

Coefficient of Utilization



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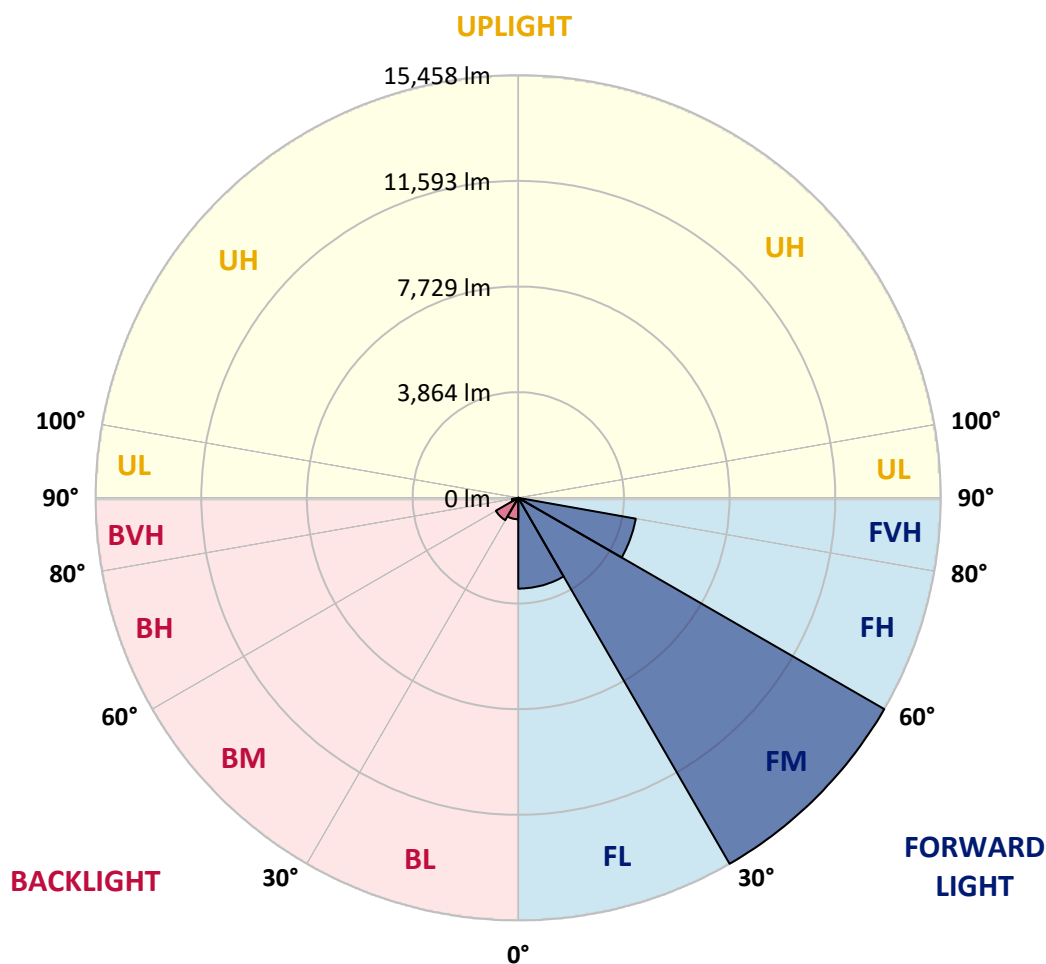
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3321.3	13.2			
FM	(30°-60°)	15457.6	61.5			
FH	(60°-80°)	4364.5	17.4			G2/5000
FVH	(80°-90°)	42.9	0.2			G1/100
BL	(0°-30°)	784.1	3.1	B2/1000		
BM	(30°-60°)	943.3	3.8	B1/1000		
BH	(60°-80°)	233.6	0.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6
2.5°	7519.9	7425.4	7411.4	7392.8	7212.9	7077.9	6882.6	6668.5	6428.2	6183.1	6074.6
5°	8687.7	8613.3	8599.3	8512.5	8307.8	8078.2	7730.9	7292.0	6843.8	6316.6	6090.1
7.5°	8914.1	8900.2	8963.8	8960.7	8932.8	8751.3	8458.2	7935.6	7262.5	6480.9	6130.4
10°	7904.6	7940.3	8129.5	8295.3	8743.6	9004.1	8940.6	8509.3	7693.6	6668.5	6175.4
12.5°	6985.0	6943.0	7077.9	7265.6	7786.7	8562.1	9140.5	8988.6	8186.8	6881.0	6242.0
15°	6408.0	6391.0	6466.9	6553.7	6950.8	7732.4	8908.0	9377.8	8661.4	7132.3	6342.9
17.5°	6223.5	6209.6	6232.8	6254.4	6511.9	7116.8	8354.3	9616.7	9115.7	7419.2	6454.5
20°	6373.9	6355.3	6352.2	6335.1	6442.1	6854.7	7853.3	9633.8	9523.6	7679.7	6550.7
22.5°	6812.8	6791.0	6715.1	6646.8	6656.1	6890.4	7630.1	9463.1	9830.7	7923.1	6611.1
25°	7608.4	7572.7	7414.5	7184.9	7039.2	7138.4	7664.2	9238.3	10123.8	8113.9	6581.7
27.5°	8604.0	8557.4	8354.3	8013.1	7679.7	7558.8	7910.7	9083.2	10367.3	8259.7	6518.1
30°	9579.4	9519.0	9318.9	9053.7	8566.7	8185.2	8355.9	9151.4	10657.3	8411.7	6434.3
32.5°	10632.4	10575.1	10309.9	9981.1	9577.9	9064.6	8965.4	9484.8	11012.4	8624.1	6375.5
35°	11964.6	11874.7	11497.8	11049.6	10621.7	10102.1	9790.4	10060.2	11485.4	8948.2	6408.0
37.5°	13481.3	13360.4	12954.1	12335.3	11776.9	11195.5	10795.3	10851.2	12178.6	9382.5	6508.9
40°	14911.2	14801.1	14425.7	13842.7	13141.7	12436.1	12009.6	11885.5	13135.5	9911.3	6685.7
42.5°	15768.8	15669.6	15511.3	15264.8	14673.9	13954.4	13416.2	13147.9	14267.6	10544.1	6901.2
45°	15816.9	15730.1	15942.5	16229.4	16113.1	15633.9	14977.9	14486.3	15404.4	11138.1	7124.5
47.5°	15047.7	14988.8	15633.9	16635.8	17135.1	17336.7	16731.9	15712.9	16342.6	11564.6	7216.0
50°	12951.0	12929.2	14256.7	16096.0	17524.3	18828.6	18582.0	16854.4	17069.9	11784.7	7129.2
52.5°	11229.5	11150.5	11924.3	14368.4	16958.3	19613.3	20390.3	17974.1	17578.6	11826.7	6926.0
55°	8517.1	8447.3	9418.2	11477.6	15133.0	19334.2	21713.1	19129.5	17943.0	11719.6	6561.5
57.5°	4568.7	4525.3	5752.0	7639.3	11829.7	17659.3	21951.9	20351.5	18250.1	11435.8	6051.3
60°	1778.8	1771.0	2230.1	3706.5	7189.7	14366.9	20746.9	21085.1	18442.4	11086.9	5624.9
62.5°	1076.2	1099.5	1173.9	1664.1	3176.1	8925.0	17969.5	20250.7	18571.2	10767.4	5272.8
65°	890.2	891.7	901.1	1143.0	1521.4	3734.4	13527.8	17505.8	18253.2	10198.2	4773.4
67.5°	763.0	776.9	812.6	907.2	1073.2	1637.6	7788.3	13560.4	16319.3	8873.8	3994.9
70°	601.7	620.3	665.3	746.0	828.1	1025.1	2878.3	9022.7	12467.1	6688.7	3021.0
72.5°	507.2	505.5	528.8	606.4	657.5	721.1	1107.3	5055.7	7245.4	3193.2	1495.0
75°	392.4	407.8	437.4	507.2	538.1	522.6	600.1	1847.0	2596.1	967.7	508.7
77.5°	307.1	319.5	345.8	414.1	445.1	370.6	345.8	660.6	834.4	347.4	229.5
80°	138.1	148.8	235.7	305.6	362.8	255.8	187.7	338.0	370.6	158.2	116.3
82.5°	24.8	41.9	138.1	161.3	186.1	165.9	97.7	175.3	181.4	63.6	40.3
85°	1.5	3.1	48.1	58.9	74.4	54.3	29.4	69.8	60.5	21.7	15.5
87.5°	0.0	0.0	0.0	1.5	1.5	7.8	9.3	12.4	9.3	7.8	6.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6	6060.6
2.5°	5962.9	5742.7	5528.7	5353.5	5251.1	5077.4	4962.6	4944.1	4895.9	4937.8
5°	5848.1	5454.2	5055.7	4699.0	4405.9	4027.5	3745.2	3625.8	3521.9	3557.6
7.5°	5793.9	5172.0	4551.7	3942.3	3315.7	2710.8	2261.1	2073.5	1930.8	1951.0
10°	5721.0	4878.9	3906.6	2976.1	2137.0	1540.0	1229.8	1115.0	1051.4	1053.0
12.5°	5665.2	4528.4	3157.5	2017.6	1301.1	983.2	887.0	859.2	840.5	842.1
15°	5637.3	4115.9	2417.8	1344.6	930.5	832.8	809.5	797.1	784.7	783.2
17.5°	5590.8	3656.9	1769.5	981.6	814.2	780.0	759.9	746.0	730.4	727.3
20°	5521.0	3135.8	1293.3	829.7	763.0	736.7	708.7	690.1	671.5	668.4
22.5°	5392.2	2585.3	994.0	767.6	725.8	696.3	662.3	640.5	621.9	618.8
25°	5153.4	2068.8	837.4	728.9	693.2	657.5	620.3	590.9	573.8	570.7
27.5°	4851.0	1625.2	759.9	693.2	651.4	618.8	576.9	549.0	533.5	530.3
30°	4494.3	1251.5	714.9	652.9	601.7	573.8	536.6	513.3	504.0	504.0
32.5°	4109.7	1000.3	696.3	612.5	558.3	527.3	497.8	488.5	485.4	483.9
35°	3748.3	868.5	687.1	580.0	519.6	490.1	477.6	479.2	485.4	485.4
37.5°	3427.3	826.6	682.3	556.8	485.4	459.0	466.8	480.7	474.6	474.6
40°	3137.3	831.3	679.3	539.7	457.5	442.0	457.5	446.6	431.1	429.6
42.5°	2915.5	870.0	673.0	525.7	440.4	429.6	423.3	406.3	404.8	407.8
45°	2754.3	904.2	671.5	519.6	421.8	401.7	393.9	376.9	407.8	415.6
47.5°	2563.5	904.2	671.5	497.8	390.8	383.0	370.6	352.1	383.0	390.8
50°	2316.9	846.8	645.1	473.0	366.0	361.3	339.6	316.4	310.2	314.8
52.5°	2005.2	742.8	578.4	438.9	341.2	331.9	305.6	288.4	283.8	283.8
55°	1650.0	621.9	488.5	389.3	314.8	297.8	279.1	271.4	266.7	263.6
57.5°	1341.4	510.2	392.4	345.8	290.0	268.2	262.1	252.8	245.1	240.4
60°	1101.1	401.7	324.1	307.1	265.2	245.1	243.4	231.0	210.9	207.8
62.5°	849.8	294.7	273.0	266.7	240.4	223.3	220.2	195.4	164.4	158.2
65°	600.1	229.5	220.2	234.2	214.0	198.5	190.8	153.5	121.0	116.3
67.5°	421.8	192.3	173.7	204.7	186.1	165.9	161.3	130.3	100.8	97.7
70°	300.8	156.6	142.7	175.3	148.8	145.8	136.4	108.5	82.2	79.1
72.5°	212.5	119.4	110.1	152.0	102.4	125.7	111.6	83.7	62.0	58.9
75°	156.6	85.3	77.6	88.4	74.4	94.6	79.1	55.9	38.7	37.2
77.5°	114.8	54.3	46.5	43.5	43.5	58.9	43.5	23.3	17.0	15.5
80°	80.7	24.8	21.7	18.7	17.0	13.9	6.3	3.1	1.5	1.5
82.5°	48.1	10.9	10.9	7.8	4.6	0.0	0.0	0.0	0.0	0.0
85°	10.9	4.6	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	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

(END OF REPORT)