

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: P969823

Luminaire Tested: **NAV-SB6A-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969823
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-735-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 23772.8 lumens
Efficiency: N/A
Efficacy: 139.1 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



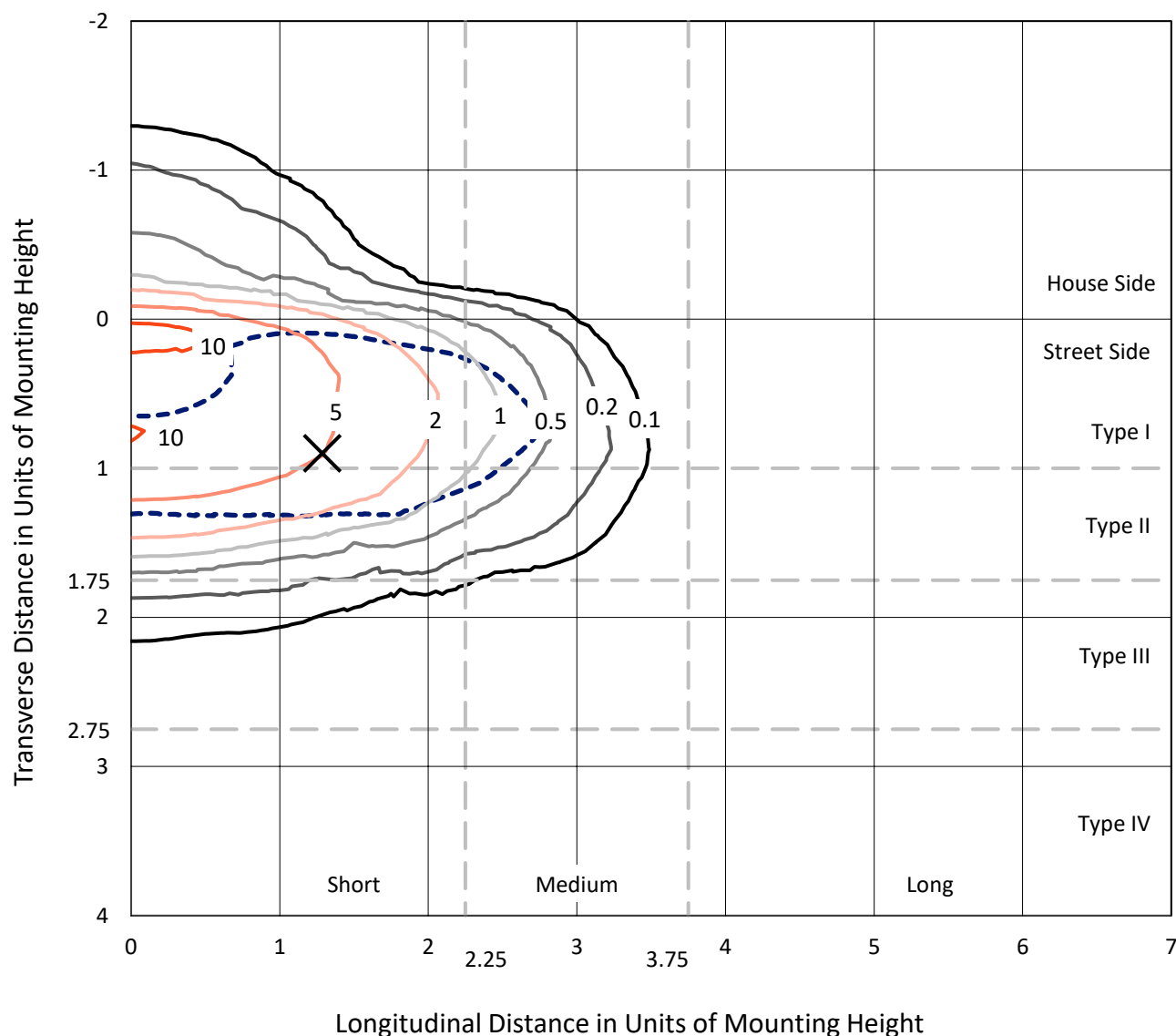
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



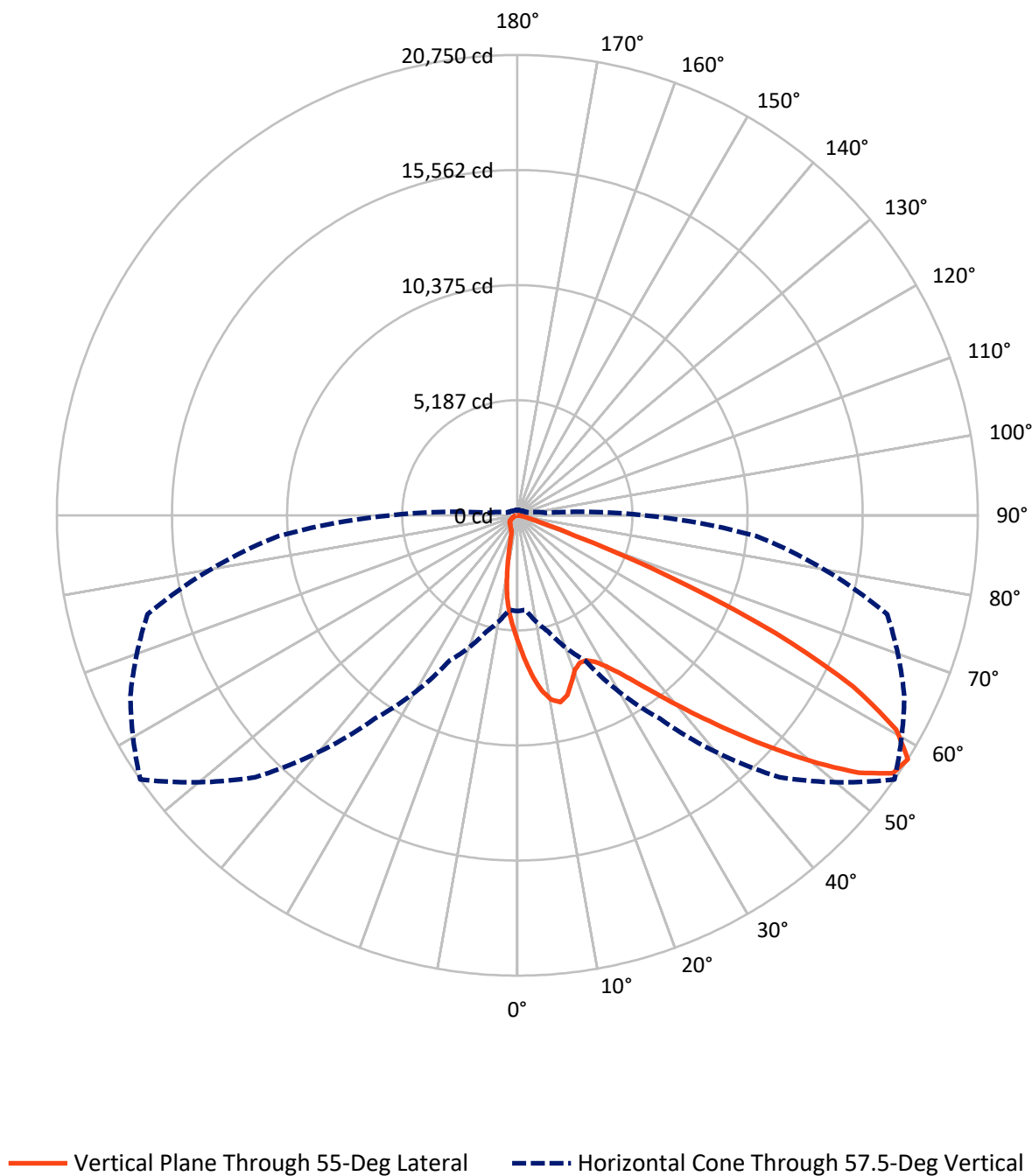
Based on 25 foot mounting height. Maximum calculated value = 13.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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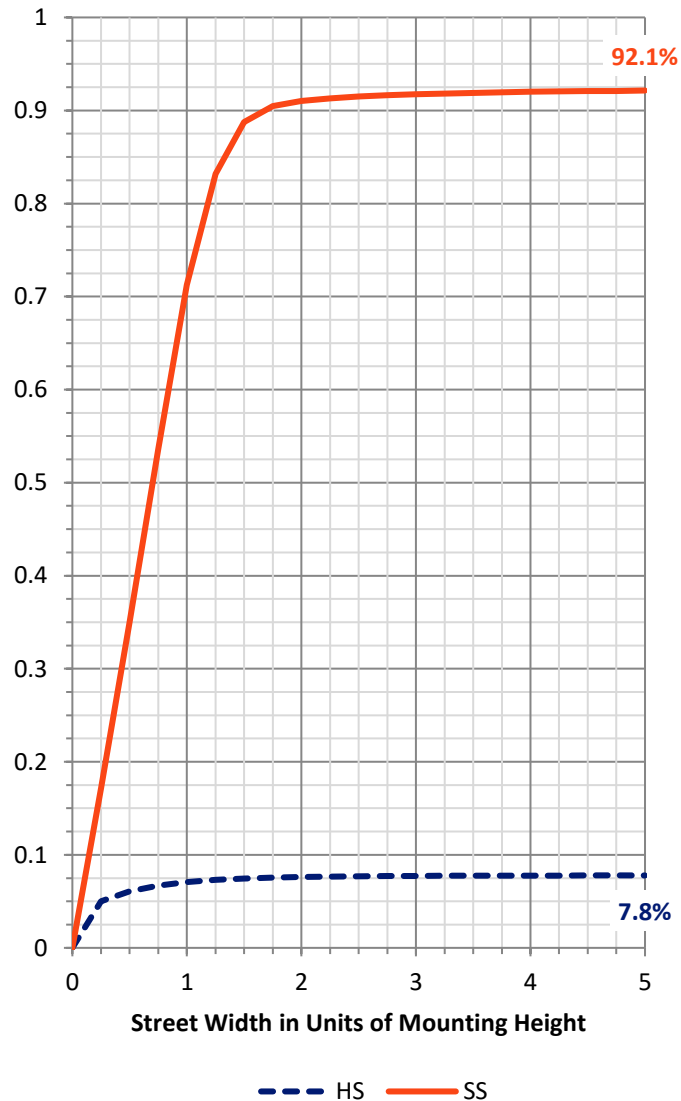
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.5	0.0	1856.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21916.3	0.0	21916.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	23772.8	0.0	23772.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	2.2
10°-20°	1287.5	5.4
20°-30°	2060.0	8.7
30°-40°	3486.7	14.7
40°-50°	5724.4	24.1
50°-60°	6291.5	26.5
60°-70°	3608.8	15.2
70°-80°	737.4	3.1
80°-90°	43.5	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°	23772.8	100.0
0°-180°	23772.8	100.0

Coefficient of Utilization



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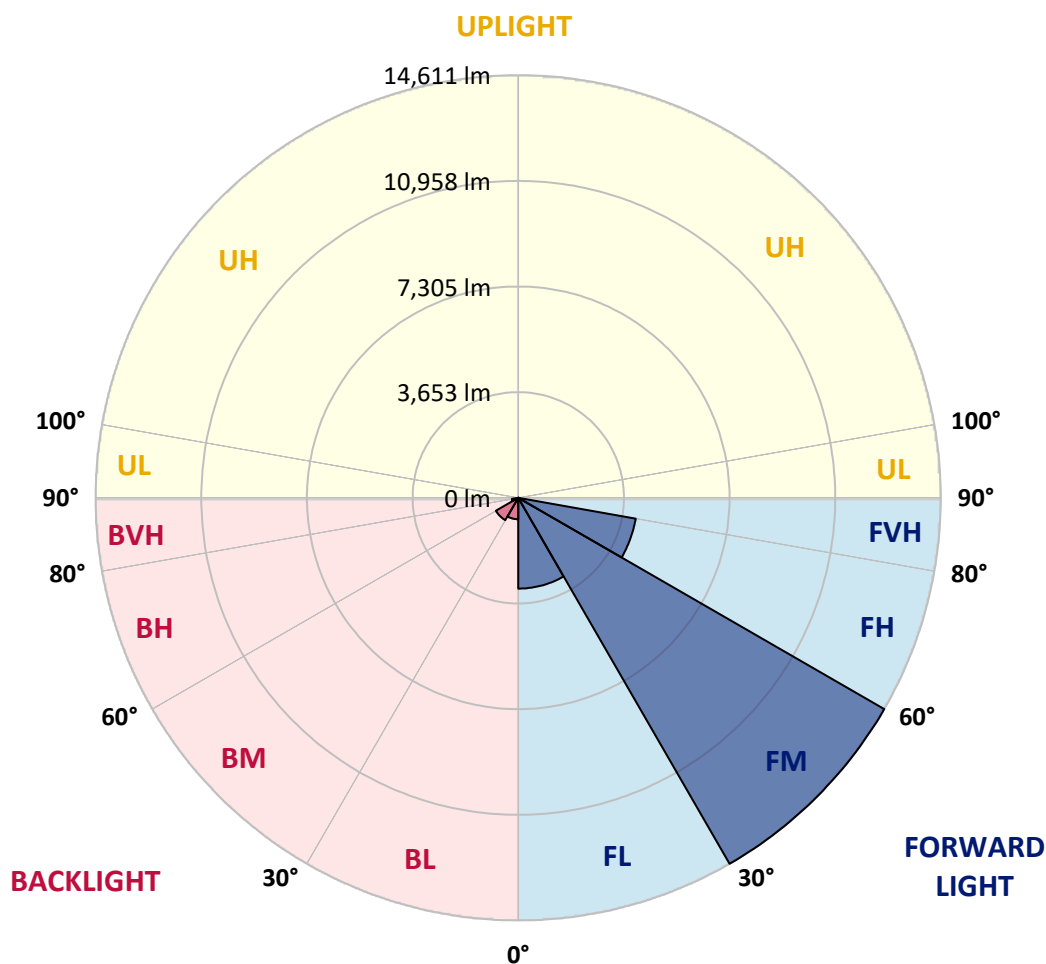
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3139.3	13.2			
FM	(30°-60°)	14611.0	61.5			
FH	(60°-80°)	4125.4	17.4			G2/5000
FVH	(80°-90°)	40.6	0.2			G1/100
BL	(0°-30°)	741.2	3.1	B2/1000		
BM	(30°-60°)	891.6	3.8	B1/1000		
BH	(60°-80°)	220.8	0.9	B1/500		G1/500
BVH	(80°-90°)	2.9	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°	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6
2.5°	7108.1	7018.7	7005.5	6987.8	6817.8	6690.3	6505.6	6303.3	6076.1	5844.4	5741.8
5°	8211.9	8141.5	8128.4	8046.2	7852.7	7635.7	7307.4	6892.6	6469.0	5970.5	5756.5
7.5°	8425.9	8412.7	8472.8	8469.9	8443.4	8272.0	7994.9	7500.9	6864.7	6125.9	5794.6
10°	7471.6	7505.4	7684.1	7841.0	8264.7	8510.9	8450.8	8043.3	7272.3	6303.3	5837.2
12.5°	6602.3	6562.8	6690.3	6867.7	7360.2	8093.1	8639.9	8496.2	7738.3	6504.1	5900.2
15°	6057.0	6040.9	6112.7	6194.8	6570.0	7308.9	8420.1	8864.2	8187.0	6741.6	5995.4
17.5°	5882.6	5869.4	5891.4	5911.9	6155.2	6727.0	7896.7	9089.9	8616.5	7012.7	6101.0
20°	6024.7	6007.2	6004.2	5988.2	6089.3	6479.2	7423.3	9106.1	9002.0	7259.0	6191.9
22.5°	6439.7	6419.1	6347.3	6282.7	6291.6	6513.0	7212.1	8944.8	9292.2	7489.2	6249.0
25°	7191.6	7157.9	7008.3	6791.4	6653.7	6747.5	7244.4	8732.3	9569.3	7669.5	6221.2
27.5°	8132.8	8088.7	7896.7	7574.2	7259.0	7144.7	7477.5	8585.7	9799.4	7807.3	6161.1
30°	9054.7	8997.6	8808.4	8557.8	8097.5	7736.9	7898.1	8650.2	10073.5	7950.9	6081.9
32.5°	10050.1	9995.8	9745.2	9434.4	9053.3	8568.1	8474.3	8965.4	10409.2	8151.7	6026.3
35°	11309.2	11224.3	10868.1	10444.4	10039.8	9548.8	9254.1	9509.1	10856.3	8458.1	6057.0
37.5°	12742.9	12628.6	12244.5	11659.6	11131.9	10582.2	10204.0	10256.8	11511.6	8868.6	6152.3
40°	14094.5	13990.3	13635.7	13084.4	12421.9	11754.9	11351.8	11234.5	12416.0	9368.4	6319.4
42.5°	14905.0	14811.2	14661.7	14428.7	13870.2	13190.0	12681.3	12427.7	13486.1	9966.5	6523.2
45°	14950.5	14868.4	15069.2	15340.5	15230.5	14777.5	14157.5	13692.8	14560.6	10528.0	6734.2
47.5°	14223.4	14167.8	14777.5	15724.5	16196.5	16387.1	15815.4	14852.4	15447.5	10931.1	6820.8
50°	12241.6	12221.1	13475.9	15214.4	16564.4	17797.3	17564.2	15931.2	16134.9	11139.2	6738.7
52.5°	10614.5	10539.7	11271.2	13581.4	16029.5	18539.0	19273.4	16989.6	16615.8	11178.9	6546.7
55°	8050.7	7984.6	8902.3	10849.0	14304.1	18275.1	20523.8	18081.6	16960.3	11077.7	6202.2
57.5°	4318.5	4277.4	5436.9	7220.9	11181.7	16692.0	20749.6	19236.8	17250.4	10809.4	5719.9
60°	1681.4	1674.0	2107.9	3503.4	6795.9	13579.9	19610.6	19930.1	17432.3	10479.6	5316.8
62.5°	1017.3	1039.4	1109.7	1572.9	3002.1	8436.2	16985.2	19141.5	17553.9	10177.6	4984.0
65°	841.4	842.9	851.7	1080.4	1438.1	3529.8	12786.9	16546.9	17253.4	9639.6	4511.9
67.5°	721.2	734.4	768.1	857.5	1014.3	1548.0	7361.7	12817.6	15425.4	8387.8	3776.1
70°	568.8	586.4	628.8	705.1	782.8	968.9	2720.7	8528.5	11784.2	6322.3	2855.5
72.5°	479.4	477.9	499.9	573.2	621.6	681.6	1046.6	4778.8	6848.6	3018.2	1413.1
75°	370.8	385.5	413.4	479.4	508.7	494.0	567.3	1745.9	2453.8	914.7	480.8
77.5°	290.3	302.0	326.9	391.3	420.7	350.3	326.9	624.4	788.6	328.3	217.0
80°	130.5	140.7	222.8	288.7	343.1	241.9	177.3	319.6	350.3	149.5	110.0
82.5°	23.5	39.6	130.5	152.4	175.9	156.8	92.4	165.6	171.5	60.1	38.1
85°	1.4	3.0	45.4	55.7	70.3	51.4	27.9	66.0	57.2	20.5	14.7
87.5°	0.0	0.0	0.0	1.4	1.4	7.4	8.8	11.7	8.8	7.4	5.8
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°	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6
2.5°	5636.3	5428.2	5225.9	5060.2	4963.5	4799.3	4690.8	4673.2	4627.8	4667.3
5°	5527.8	5155.5	4778.8	4441.6	4164.6	3806.8	3540.1	3427.2	3329.0	3362.7
7.5°	5476.6	4888.7	4302.3	3726.3	3134.0	2562.4	2137.2	1959.9	1825.0	1844.1
10°	5407.6	4611.7	3692.6	2813.0	2020.0	1455.6	1162.5	1054.0	993.8	995.4
12.5°	5354.9	4280.4	2984.5	1907.1	1229.9	929.4	838.4	812.1	794.5	796.0
15°	5328.5	3890.5	2285.3	1270.9	879.6	787.2	765.2	753.5	741.7	740.3
17.5°	5284.5	3456.5	1672.6	927.9	769.6	737.4	718.3	705.1	690.4	687.5
20°	5218.6	2964.0	1222.5	784.2	721.2	696.3	669.9	652.3	634.7	631.8
22.5°	5096.9	2443.6	939.6	725.6	686.0	658.2	626.0	605.4	587.8	584.9
25°	4871.1	1955.5	791.6	689.0	655.3	621.6	586.4	558.5	542.3	539.5
27.5°	4585.2	1536.3	718.3	655.3	615.7	584.9	545.3	519.0	504.3	501.3
30°	4248.1	1183.0	675.8	617.2	568.8	542.3	507.2	485.2	476.4	476.4
32.5°	3884.5	945.5	658.2	579.0	527.7	498.4	470.6	461.8	458.8	457.4
35°	3543.0	820.9	649.3	548.3	491.1	463.2	451.5	452.9	458.8	458.8
37.5°	3239.6	781.4	645.0	526.2	458.8	433.9	441.3	454.4	448.5	448.5
40°	2965.4	785.7	642.1	510.1	432.4	417.8	432.4	422.2	407.5	406.0
42.5°	2755.8	822.4	636.2	496.9	416.4	406.0	400.2	384.1	382.6	385.5
45°	2603.4	854.6	634.7	491.1	398.7	379.7	372.4	356.2	385.5	392.9
47.5°	2423.1	854.6	634.7	470.6	369.4	362.0	350.3	332.7	362.0	369.4
50°	2190.0	800.4	609.8	447.1	345.9	341.5	321.0	299.0	293.2	297.6
52.5°	1895.4	702.1	546.7	414.8	322.5	313.6	288.7	272.6	268.2	268.2
55°	1559.7	587.8	461.8	368.0	297.6	281.5	263.8	256.6	252.2	249.2
57.5°	1268.0	482.3	370.8	326.9	274.1	253.6	247.7	238.9	231.6	227.2
60°	1040.8	379.7	306.4	290.3	250.7	231.6	230.1	218.4	199.4	196.4
62.5°	803.3	278.5	258.0	252.2	227.2	211.0	208.2	184.7	155.4	149.5
65°	567.3	217.0	208.2	221.3	202.3	187.7	180.3	145.1	114.4	110.0
67.5°	398.7	181.7	164.2	193.5	175.9	156.8	152.4	123.1	95.3	92.4
70°	284.3	148.0	134.9	165.6	140.7	137.8	129.0	102.6	77.7	74.7
72.5°	200.8	112.9	104.0	143.7	96.8	118.7	105.6	79.1	58.6	55.7
75°	148.0	80.7	73.3	83.5	70.3	89.4	74.7	52.8	36.7	35.2
77.5°	108.4	51.4	44.0	41.0	41.0	55.7	41.0	22.0	16.1	14.7
80°	76.3	23.5	20.5	17.6	16.1	13.2	5.8	3.0	1.4	1.4
82.5°	45.4	10.2	10.2	7.4	4.4	0.0	0.0	0.0	0.0	0.0
85°	10.2	4.4	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	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)