

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: P968852

Luminaire Tested: **NAV-SB5C-750-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968852
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-SB5C-750-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 615mA 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: 34154 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.5
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



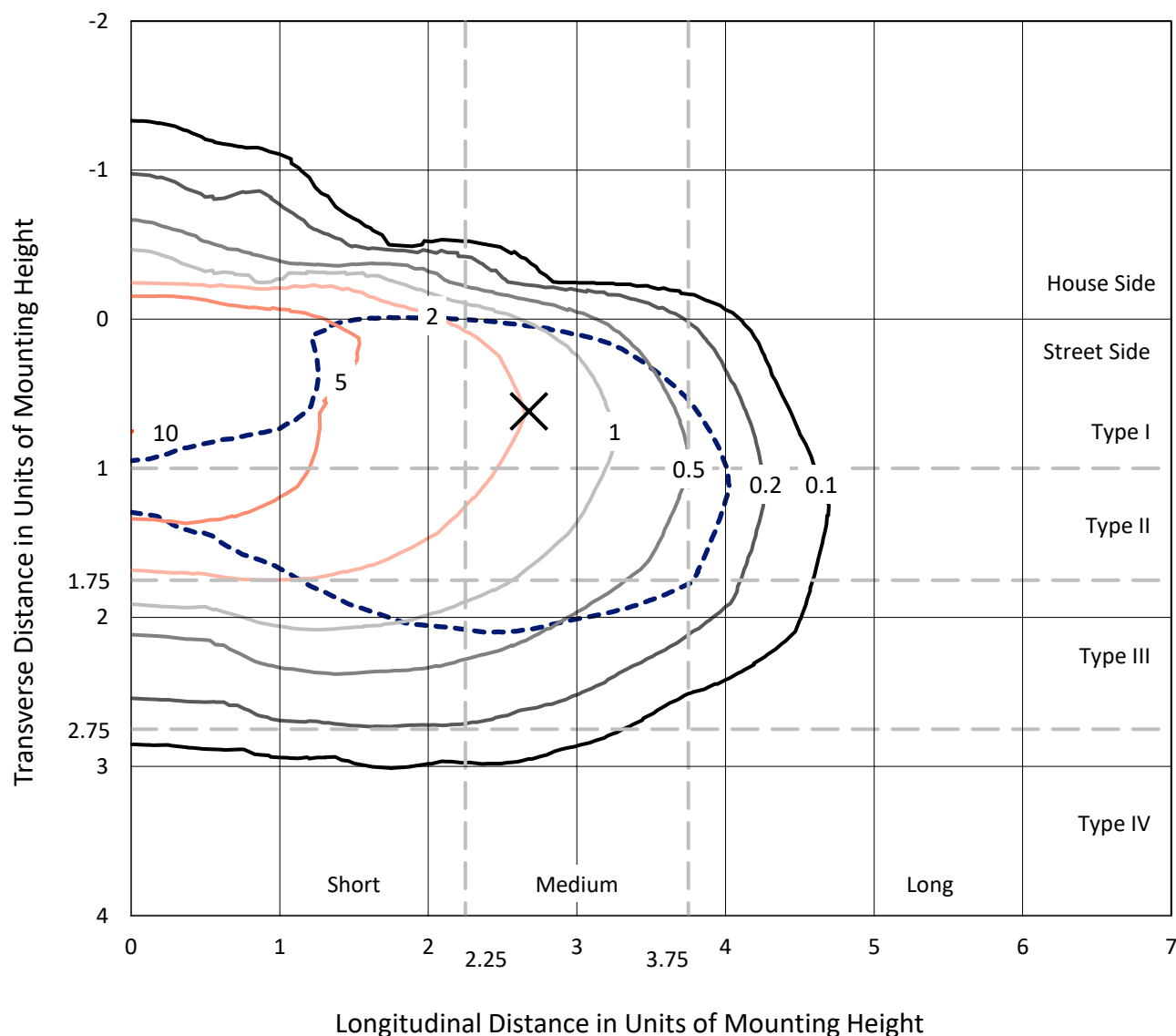
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

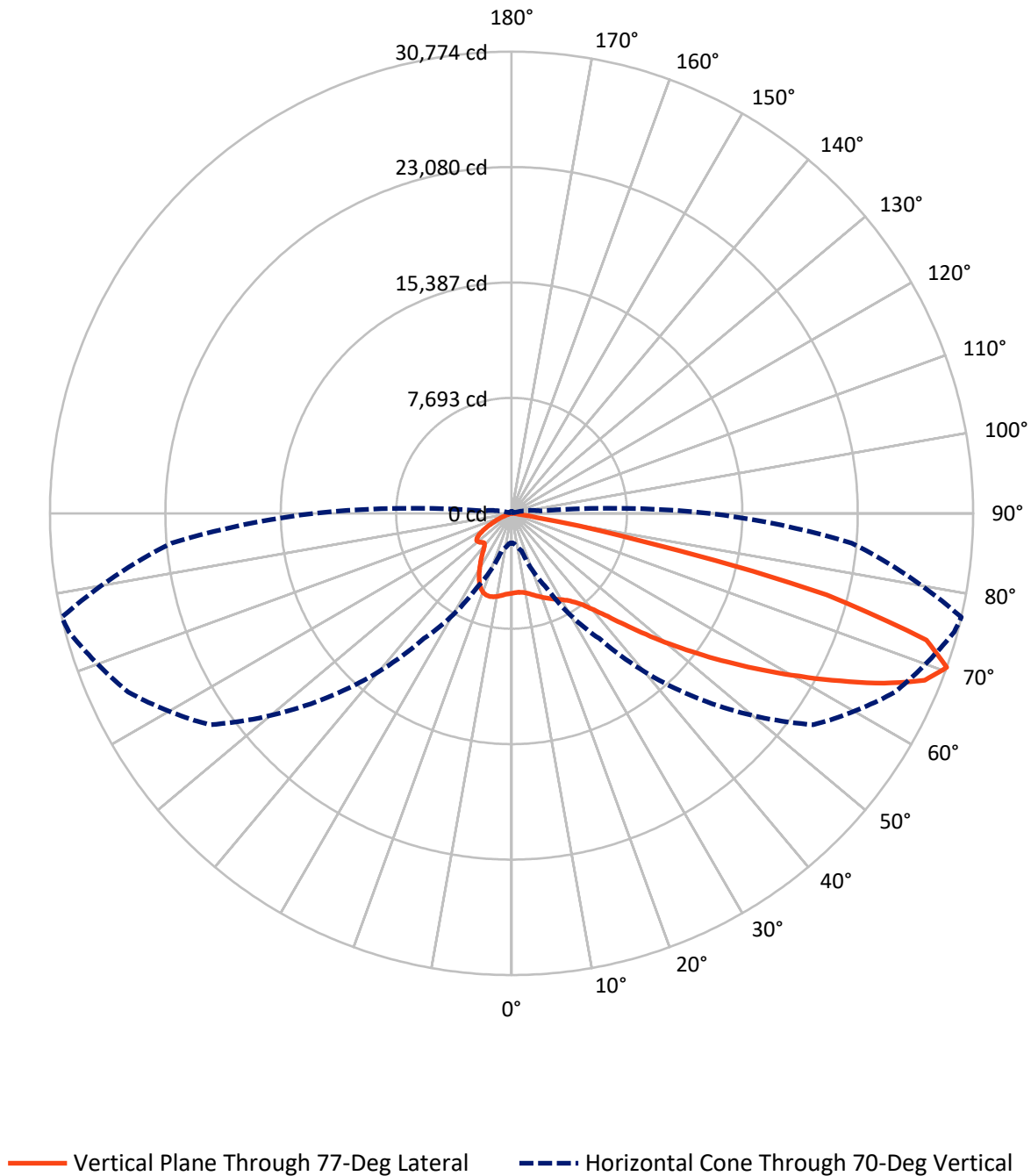
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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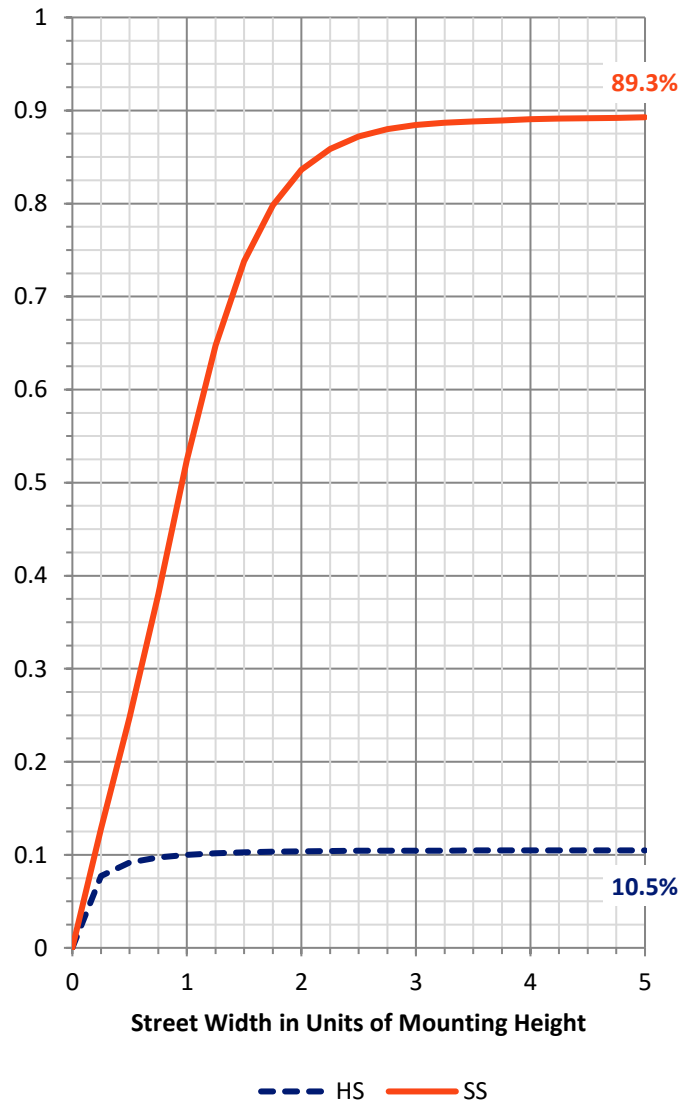
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3600.3	0.0	3600.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30553.7	0.0	30553.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	34154.0	0.0	34154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.1	1.3
10°-20°	1089.9	3.2
20°-30°	1685.8	4.9
30°-40°	3059.0	9.0
40°-50°	5774.3	16.9
50°-60°	8343.4	24.4
60°-70°	8881.3	26.0
70°-80°	4706.5	13.8
80°-90°	154.5	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°	34154.0	100.0
0°-180°	34154.0	100.0

Coefficient of Utilization



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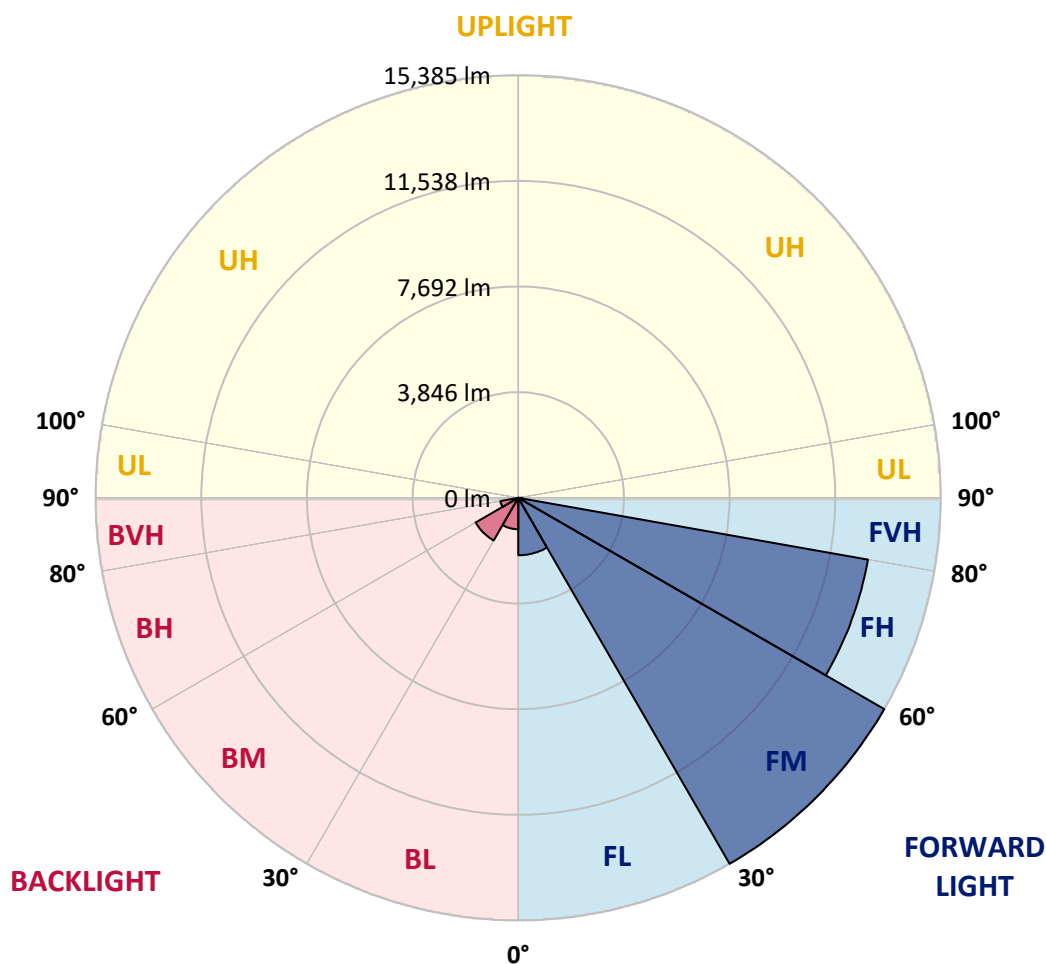
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2091.0	6.1			
FM	(30°-60°)	15384.5	45.0			
FH	(60°-80°)	12927.8	37.9			G5
FVH	(80°-90°)	150.4	0.4			G2/225
BL	(0°-30°)	1143.9	3.3	B3/2500		
BM	(30°-60°)	1792.2	5.2	B2/2500		
BH	(60°-80°)	660.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4
2.5°	5001.7	5047.0	5040.5	5070.8	5081.5	5124.7	5167.8	5226.1	5290.7	5288.6	5331.7
5°	4719.2	4764.5	4775.3	4816.3	4868.0	4934.9	5023.3	5139.8	5260.5	5280.0	5366.3
7.5°	4384.8	4432.3	4460.4	4542.3	4637.2	4775.3	4919.8	5090.2	5290.7	5318.8	5484.9
10°	4050.6	4093.6	4130.3	4246.8	4397.8	4602.7	4837.8	5083.7	5353.3	5394.3	5629.4
12.5°	3843.5	3884.4	3925.4	4026.8	4214.5	4464.7	4783.9	5113.9	5456.8	5515.0	5825.7
15°	3770.2	3806.8	3839.1	3929.7	4104.5	4389.2	4773.1	5176.5	5588.4	5666.0	6062.9
17.5°	3780.9	3800.4	3821.9	3890.9	4061.4	4354.7	4792.5	5284.3	5743.7	5812.7	6300.2
20°	3843.5	3854.3	3856.5	3903.9	4054.9	4350.4	4831.3	5387.8	5890.4	5983.1	6535.2
22.5°	3923.3	3927.6	3923.3	3955.7	4095.9	4382.7	4883.1	5512.9	6054.3	6140.6	6772.5
25°	4296.4	4214.5	4111.0	4048.4	4164.9	4445.2	4960.8	5681.2	6233.3	6317.4	7003.3
27.5°	5454.6	5219.6	4848.6	4432.3	4307.3	4535.8	5068.6	5851.5	6414.4	6490.0	7251.4
30°	7335.4	7027.0	6397.2	5458.9	4764.5	4725.7	5208.7	6021.9	6606.4	6688.4	7516.6
32.5°	9220.5	9145.0	8418.2	7119.8	5793.3	5148.4	5441.7	6252.7	6860.9	6925.6	7874.7
35°	11127.2	10974.1	10378.7	9095.4	7378.6	6009.0	5830.0	6554.7	7195.2	7268.6	8396.6
37.5°	12587.3	12494.6	12125.7	11069.0	9259.3	7337.6	6494.3	7022.7	7680.5	7762.5	9065.2
40°	13877.2	13834.0	13709.0	13012.3	11362.2	9076.0	7527.4	7747.4	8353.4	8450.5	9884.8
42.5°	14890.9	14992.3	15063.4	14869.3	13529.9	11060.3	8916.4	8765.4	9291.7	9390.9	10928.8
45°	15928.3	15962.8	16249.6	16530.1	15682.4	13135.2	10482.3	9958.2	10458.6	10581.5	12179.7
47.5°	16594.8	16732.8	17237.5	17731.5	17492.0	15192.9	12164.6	11366.5	11810.9	12041.7	13581.7
50°	16644.4	16905.3	17599.9	18460.5	18809.9	17151.2	13993.6	12971.3	13443.6	13698.1	15078.5
52.5°	15818.3	16223.8	17300.1	18559.7	19521.6	18809.9	15885.1	14576.0	15182.0	15514.2	16631.4
55°	12127.9	12658.5	16172.0	18020.4	19549.6	20067.3	17727.2	16247.5	17118.9	17494.2	18309.5
57.5°	10566.4	10833.8	12714.6	17084.4	19029.8	20574.2	19392.2	17839.3	19226.1	19692.0	19894.7
60°	8791.3	9142.9	10663.5	15553.0	18324.5	20623.7	20863.2	19892.6	21510.2	22034.3	21348.5
62.5°	5974.4	6356.2	7868.2	12921.7	17360.4	20600.0	22068.9	22006.3	24048.9	24611.8	22580.0
65°	3701.2	3940.5	4937.0	10551.2	16012.4	20626.0	23330.6	24572.9	26727.6	27299.2	23533.4
67.5°	2924.7	3034.7	3554.5	8101.1	13689.5	20043.6	24590.2	26986.5	29249.0	29701.9	23824.5
70°	1964.9	2031.8	2586.1	5431.0	10184.6	17356.1	24566.5	28198.6	30547.5	30773.9	22763.4
72.5°	1035.2	1087.0	1512.0	2514.8	6151.3	12337.2	20707.9	26749.2	29255.4	28914.6	19457.0
75°	517.6	603.9	1018.0	1276.8	2627.1	6880.3	12859.1	21089.7	23026.5	21706.5	12483.8
77.5°	392.6	474.5	841.2	841.2	914.5	2316.5	5446.0	11502.4	10609.6	8834.5	3664.5
80°	250.2	323.5	735.4	636.3	381.8	588.9	1419.2	3222.3	2253.9	1714.7	666.5
82.5°	146.7	211.4	612.5	420.6	213.5	217.8	401.2	685.8	584.5	455.1	204.9
85°	58.2	138.1	420.6	166.0	84.2	53.9	120.7	146.7	120.7	90.6	51.8
87.5°	0.0	32.4	73.3	0.0	6.5	4.3	8.6	10.8	10.8	8.6	17.2
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°	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4	5327.4
2.5°	5351.1	5355.4	5368.4	5370.6	5340.4	5301.5	5286.4	5280.0	5254.0	5251.9	5256.2
5°	5415.8	5435.3	5415.8	5359.7	5226.1	5038.4	4896.0	4779.6	4673.9	4641.5	4622.1
7.5°	5545.2	5564.6	5506.4	5286.4	4949.9	4576.8	4240.3	4003.1	3789.6	3709.8	3677.4
10°	5730.8	5756.6	5573.3	5129.0	4533.7	3934.1	3364.7	2963.5	2650.8	2523.5	2469.6
12.5°	5963.7	5974.4	5609.9	4889.6	3992.3	3136.1	2329.4	1900.1	1622.0	1518.4	1486.0
15°	6220.3	6205.2	5614.2	4563.9	3254.7	2217.3	1520.6	1248.9	1136.6	1102.2	1102.2
17.5°	6490.0	6427.4	5528.0	4093.6	2445.9	1516.3	1128.0	1063.3	1044.0	1035.2	1033.1
20°	6755.3	6615.0	5370.6	3479.0	1755.7	1132.3	1024.5	1005.1	994.4	989.9	985.6
22.5°	6996.9	6757.4	5100.9	2765.0	1274.7	1000.8	968.4	951.2	931.7	923.1	921.0
25°	7231.9	6839.3	4721.4	2098.6	1020.2	936.0	910.2	877.8	852.0	841.2	836.8
27.5°	7460.6	6891.1	4246.8	1553.0	910.2	875.7	828.2	782.9	763.5	759.2	754.9
30°	7704.2	6908.4	3707.6	1158.2	843.4	800.2	731.1	679.4	668.6	670.8	670.8
32.5°	8001.9	6934.2	3164.1	949.0	787.2	709.6	627.6	573.7	565.1	573.7	571.5
35°	8357.7	6986.0	2640.0	873.5	737.7	616.8	528.4	483.1	474.5	480.9	478.8
37.5°	8840.9	7070.1	2150.3	858.4	696.7	539.3	444.3	407.6	407.6	409.8	407.6
40°	9483.6	7294.4	1712.6	847.7	675.1	480.9	375.3	360.2	366.6	370.9	370.9
42.5°	10266.6	7771.1	1417.1	834.7	651.4	455.1	340.8	334.4	345.1	349.4	349.4
45°	11144.4	8375.1	1313.5	813.1	629.8	472.3	325.6	317.0	329.9	332.2	334.4
47.5°	12052.5	8966.0	1300.6	789.5	608.2	498.3	321.3	302.0	317.0	319.2	321.3
50°	12971.3	9352.1	1313.5	752.8	573.7	498.3	323.5	286.9	299.8	306.3	308.4
52.5°	13896.5	9528.9	1304.9	672.9	513.3	468.0	323.5	273.9	286.9	291.2	291.2
55°	14793.8	9494.5	1173.3	554.3	435.7	414.1	314.9	263.1	271.7	273.9	273.9
57.5°	15503.4	9013.4	929.6	431.3	353.7	345.1	286.9	250.2	256.7	254.5	254.5
60°	15874.4	7956.6	664.3	332.2	278.2	271.7	252.4	233.0	237.3	226.4	224.3
62.5°	15878.7	6559.0	444.3	263.1	222.1	215.7	215.7	209.2	204.9	183.4	176.8
65°	15540.1	5008.2	295.5	209.2	179.1	168.2	181.2	179.1	163.9	133.8	129.5
67.5°	14772.2	3282.8	224.3	163.9	138.1	131.6	144.5	151.0	140.2	112.1	110.0
70°	13193.4	1911.0	185.5	127.3	103.5	97.1	116.4	129.5	116.4	90.6	86.3
72.5°	10958.9	1030.9	151.0	94.9	71.1	64.7	92.8	105.7	92.8	66.8	64.7
75°	7111.1	552.2	116.4	62.5	36.7	41.0	69.0	77.7	64.7	43.2	38.8
77.5°	2387.6	243.7	73.3	30.2	17.2	17.2	41.0	47.5	30.2	15.1	12.9
80°	532.7	101.4	30.2	12.9	6.5	6.5	8.6	8.6	4.3	0.0	0.0
82.5°	174.7	41.0	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.8	15.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	2.2	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)