

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: P971083

Luminaire Tested: **NAV-SB6C-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971083
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-SB6C-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 33861.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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

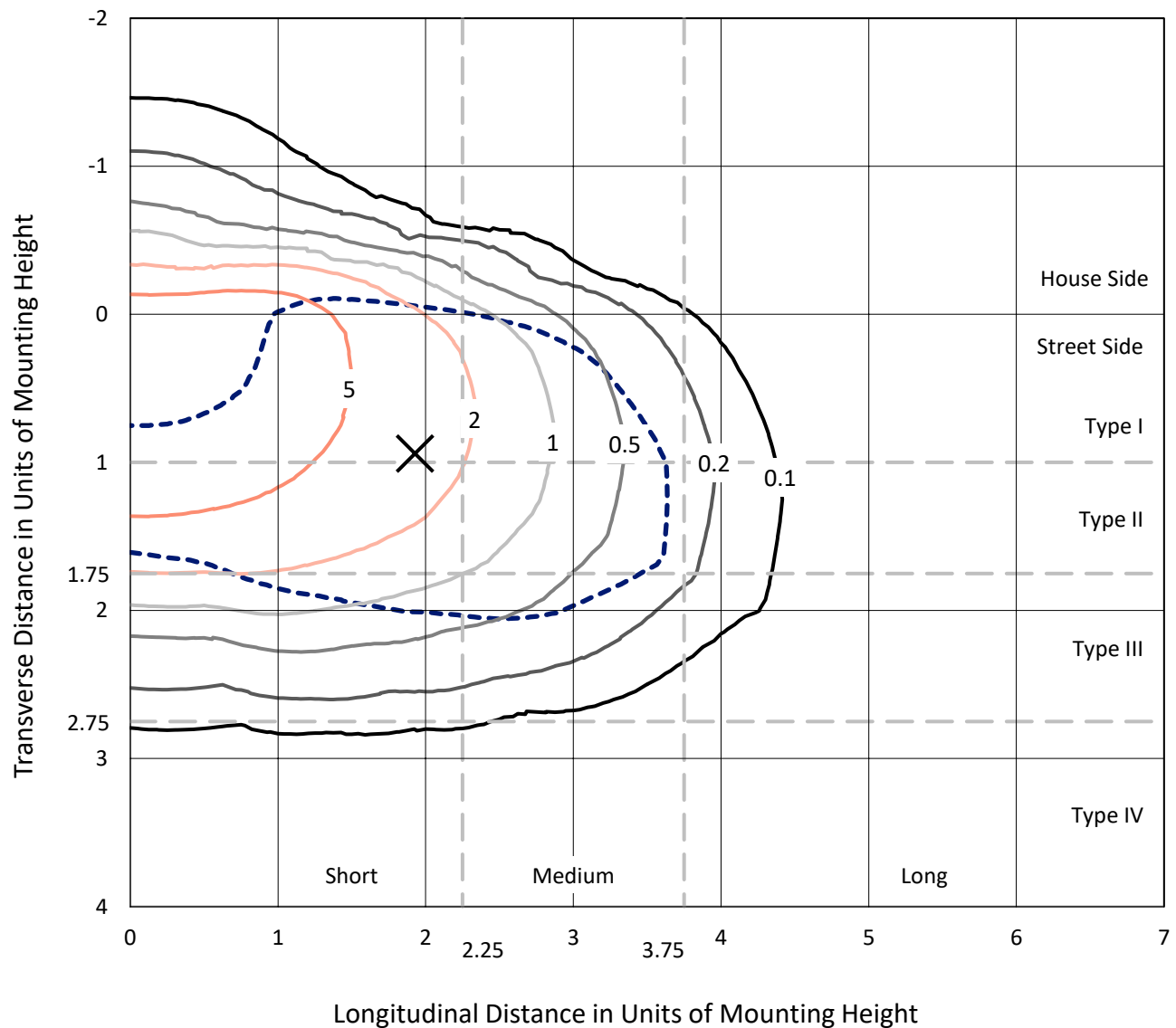


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

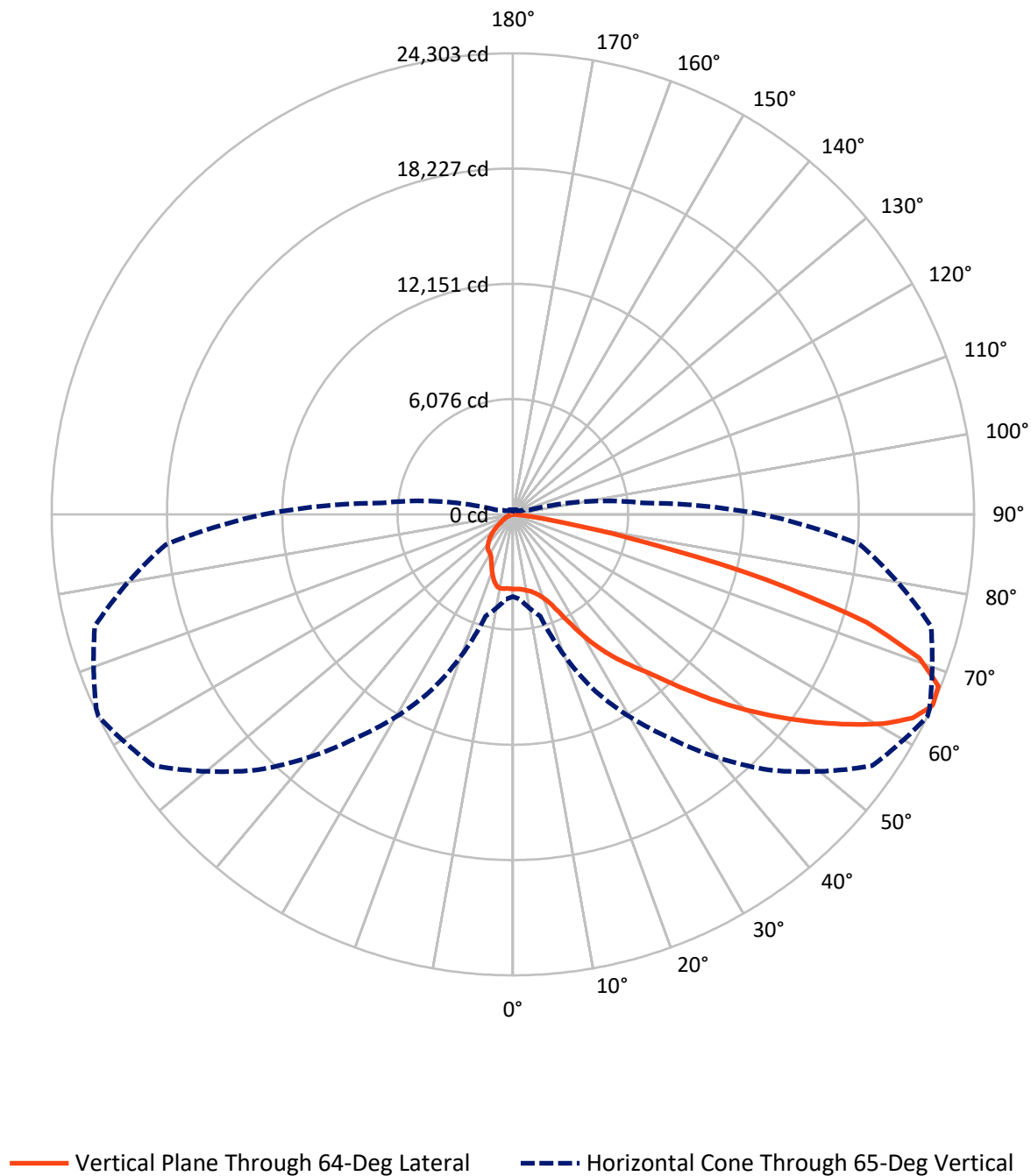


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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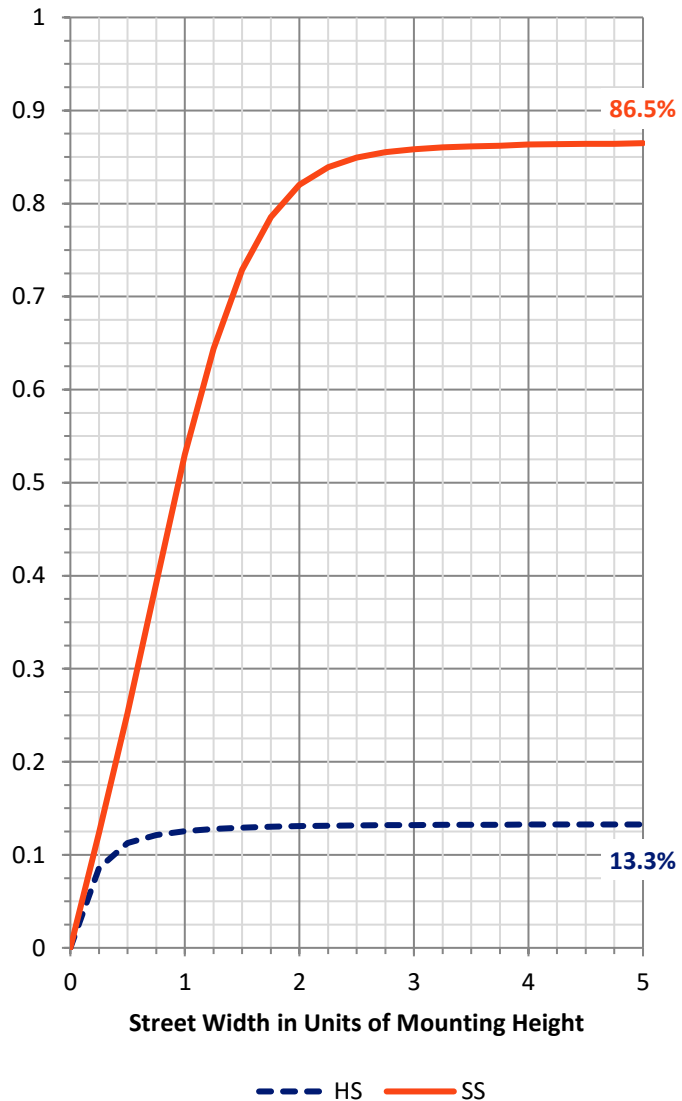
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4528.4	0.0	4528.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29333.5	0.0	29333.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	33861.9	0.0	33861.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	1.1
10°-20°	985.6	2.9
20°-30°	1867.5	5.5
30°-40°	3779.0	11.2
40°-50°	6437.6	19.0
50°-60°	8754.6	25.9
60°-70°	8221.0	24.3
70°-80°	3293.7	9.7
80°-90°	159.6	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°	33861.9	100.0
0°-180°	33861.9	100.0

Coefficient of Utilization



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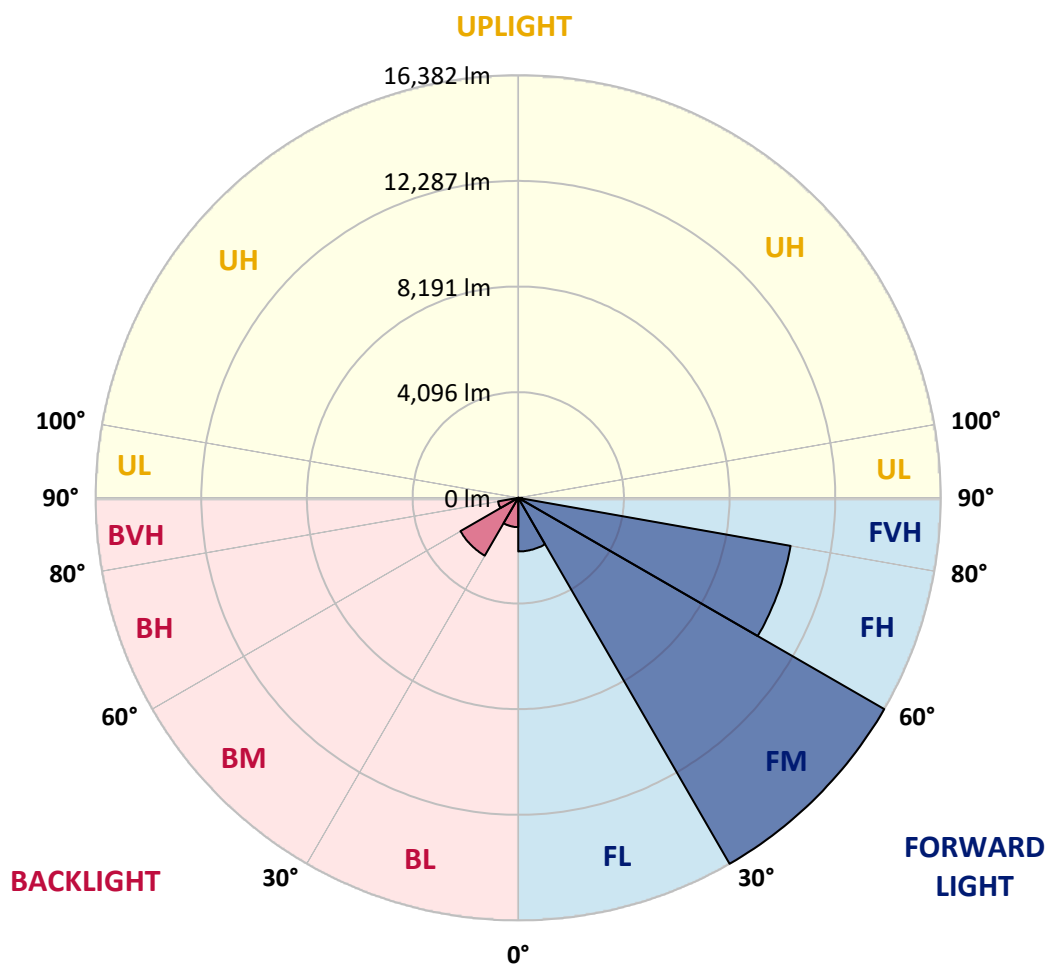
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2079.5	6.1			
FM	(30°-60°)	16382.3	48.4			
FH	(60°-80°)	10719.9	31.7			G4/12000
FVH	(80°-90°)	151.8	0.4			G2/225
BL	(0°-30°)	1136.9	3.4	B3/2500		
BM	(30°-60°)	2588.8	7.6	B3/5000		
BH	(60°-80°)	794.8	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5
2.5°	3924.8	3952.1	3945.3	3938.5	3936.2	3940.7	3943.1	3940.7	3940.7	3940.7	3943.1
5°	3850.0	3872.7	3872.7	3888.5	3911.3	3938.5	3959.0	3963.5	3968.0	3974.8	3972.5
7.5°	3706.9	3725.2	3738.7	3791.0	3847.6	3920.3	3981.6	4013.4	4017.9	4042.9	4052.0
10°	3609.3	3632.1	3654.7	3709.2	3791.0	3899.9	4004.4	4081.6	4092.8	4151.9	4179.1
12.5°	3604.8	3627.5	3657.0	3716.0	3811.4	3927.2	4054.3	4165.5	4185.9	4272.2	4329.0
15°	3652.5	3679.7	3706.9	3779.6	3881.8	4022.5	4158.7	4297.1	4317.6	4440.2	4501.5
17.5°	3750.1	3786.3	3806.8	3879.4	3988.5	4145.1	4324.4	4483.2	4501.5	4644.5	4721.7
20°	3943.1	3986.1	3993.0	4052.0	4158.7	4326.6	4540.0	4737.5	4760.2	4923.7	5009.9
22.5°	4342.5	4403.8	4349.4	4378.9	4474.2	4642.2	4873.8	5123.5	5155.2	5341.4	5418.6
25°	5046.3	5132.5	4991.8	4941.8	4982.7	5157.5	5448.1	5763.6	5799.9	5949.7	5988.4
27.5°	6428.7	6317.5	6104.1	5895.3	5772.7	5872.5	6199.4	6589.8	6635.2	6780.6	6735.2
30°	7947.3	7849.8	7561.4	7098.3	6807.8	6792.0	7093.8	7529.6	7581.9	7720.3	7581.9
32.5°	9468.2	9375.2	9061.9	8492.1	7988.2	7738.5	7947.3	8430.8	8458.1	8546.7	8342.4
35°	10964.2	10868.9	10555.7	9972.2	9352.5	8785.0	8744.2	9289.0	9298.0	9391.0	9086.9
37.5°	12469.2	12389.8	12056.0	11484.0	10873.4	10090.3	9711.2	10101.6	10113.0	10203.8	9888.2
40°	13542.9	13577.0	13347.8	12905.1	12380.7	11524.9	10796.2	10966.5	10898.4	11050.5	10862.0
42.5°	14464.6	14532.7	14332.9	14110.5	13806.2	13052.7	12140.1	12110.6	12001.6	12083.3	11888.2
45°	15261.3	15318.1	15138.7	15086.6	15079.8	14550.9	13608.8	13431.7	13279.6	13263.7	13029.9
47.5°	15554.2	15663.1	15740.3	15915.2	16255.7	16033.2	15127.5	14852.8	14682.5	14557.7	14187.6
50°	15665.4	15781.2	16044.5	16553.0	17358.9	17454.2	16639.2	16330.5	16121.7	15894.7	15349.9
52.5°	15515.6	15722.2	16076.3	16932.1	18101.2	18593.8	18089.8	17819.7	17581.3	17211.3	16403.2
55°	14632.6	14839.1	15563.3	16927.6	18471.2	19392.8	19461.0	19340.6	19072.7	18489.4	17254.4
57.5°	12771.2	13077.6	14223.9	16351.0	18464.4	20080.7	20804.7	20891.0	20591.4	19756.1	17924.1
60°	10192.4	10607.8	12006.1	15072.9	17894.6	20453.0	21982.9	22414.2	22096.4	21004.5	18466.6
62.5°	7112.0	7593.2	8916.7	13070.8	16591.6	20185.0	22843.3	23640.0	23399.4	22121.3	18675.5
65°	4338.0	4492.4	5559.3	10285.5	14376.0	19063.7	23108.8	24302.9	24223.4	22804.6	18366.8
67.5°	2889.8	3019.1	3325.6	7052.9	11159.5	16823.1	22473.2	24187.1	24209.8	22693.4	17236.3
70°	1741.1	1852.4	2052.0	4101.9	7232.3	13316.0	20505.1	22711.5	22843.3	21206.5	15093.4
72.5°	717.3	792.2	973.9	1859.1	3745.6	8451.3	16328.2	19499.5	19806.0	17831.0	11583.9
75°	406.3	445.0	572.1	933.0	1625.3	3938.5	9890.5	13842.6	14294.3	12290.0	6969.0
77.5°	270.1	288.3	370.0	603.8	914.8	1343.9	4226.8	7211.9	8074.4	6712.4	3016.9
80°	181.6	197.5	254.2	404.1	594.7	576.6	1346.1	2671.9	3287.0	2306.4	735.4
82.5°	122.6	124.8	181.6	265.6	376.8	279.2	397.3	830.9	1044.2	667.4	279.2
85°	70.4	68.1	134.0	154.4	168.0	115.7	120.3	249.7	326.9	281.5	158.9
87.5°	9.1	13.6	52.2	40.9	22.7	25.0	25.0	43.2	63.6	68.1	34.0
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°	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5
2.5°	3943.1	3940.7	3934.0	3927.2	3911.3	3902.2	3906.7	3902.2	3899.9	3902.2	3911.3
5°	3972.5	3965.7	3947.6	3924.8	3893.1	3854.5	3829.5	3793.2	3759.2	3738.7	3743.3
7.5°	4052.0	4045.2	4020.3	3956.6	3854.5	3693.3	3545.8	3416.4	3318.7	3262.1	3264.3
10°	4179.1	4167.8	4129.2	3988.5	3720.5	3368.8	3075.9	2833.0	2674.1	2599.2	2592.3
12.5°	4329.0	4315.4	4247.2	3959.0	3466.3	2916.9	2512.9	2242.8	2095.2	2029.4	2022.6
15°	4506.0	4487.9	4353.9	3818.2	3096.3	2417.6	2047.5	1845.5	1750.2	1691.1	1693.4
17.5°	4726.2	4694.4	4433.3	3607.1	2694.5	2036.2	1761.6	1609.5	1525.4	1468.7	1464.2
20°	5012.2	4960.0	4496.9	3355.1	2324.5	1795.6	1568.6	1441.5	1377.9	1328.0	1318.9
22.5°	5411.7	5336.9	4574.1	3082.7	2063.4	1629.9	1425.6	1332.5	1280.3	1223.5	1214.4
25°	5906.6	5818.1	4669.4	2830.7	1884.2	1486.9	1321.1	1243.9	1182.6	1116.8	1110.1
27.5°	6599.0	6440.1	4783.0	2624.1	1729.8	1364.3	1225.8	1139.6	1069.2	1014.7	1003.4
30°	7370.8	7109.7	4882.8	2499.3	1589.1	1250.8	1101.0	1014.7	948.8	910.3	903.4
32.5°	8101.7	7747.6	4948.7	2444.8	1461.9	1121.4	964.7	871.7	821.7	810.4	817.2
35°	8791.8	8324.1	4941.8	2392.6	1348.4	992.0	830.9	735.4	696.9	703.7	703.7
37.5°	9586.3	8939.3	4894.2	2310.9	1255.3	873.9	715.0	631.1	597.1	599.3	608.3
40°	10510.2	9649.9	4864.6	2156.5	1153.1	765.0	619.7	551.7	526.6	517.5	515.3
42.5°	11495.4	10337.6	4869.2	1981.7	1026.0	667.4	553.9	497.1	474.5	467.6	465.4
45°	12485.1	10993.7	4876.0	1800.1	892.2	592.4	506.2	458.6	445.0	435.8	435.8
47.5°	13415.8	11552.2	4748.9	1604.9	760.4	535.8	467.6	435.8	424.5	413.2	413.2
50°	14283.0	11924.4	4442.5	1377.9	656.0	490.4	438.1	415.4	404.1	392.7	392.7
52.5°	14957.2	11983.5	3936.2	1144.1	583.4	456.2	419.9	399.5	385.9	374.5	372.3
55°	15256.8	11613.5	3216.7	926.2	526.6	426.8	401.8	381.4	365.5	354.1	351.9
57.5°	15179.6	10834.9	2508.4	744.6	472.1	397.3	379.0	365.5	347.3	329.1	326.9
60°	14800.6	9792.8	1890.9	619.7	422.2	365.5	354.1	342.8	317.9	290.6	286.0
62.5°	14144.5	8483.1	1348.4	513.0	367.8	329.1	324.6	315.5	279.2	229.3	224.8
65°	13141.1	6891.8	908.0	426.8	315.5	288.3	290.6	274.7	227.0	170.3	165.7
67.5°	11674.7	5039.4	581.2	349.6	263.3	240.7	242.9	233.8	192.9	145.2	138.5
70°	9806.5	3336.9	379.0	265.6	211.2	186.1	199.8	202.0	163.5	118.1	113.5
72.5°	7189.1	1970.4	265.6	197.5	154.4	129.4	163.5	168.0	131.7	88.6	83.9
75°	4097.4	935.2	199.8	143.0	95.3	90.8	127.1	127.1	90.8	59.0	54.5
77.5°	1720.7	390.4	140.7	93.1	54.5	52.2	86.3	79.4	45.4	27.3	27.3
80°	497.1	174.8	74.9	45.4	22.7	20.4	34.0	25.0	11.4	4.5	4.5
82.5°	195.3	77.2	29.5	18.1	9.1	9.1	4.5	0.0	0.0	0.0	0.0
85°	115.7	31.8	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.5	6.8	4.5	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	0.0

(END OF REPORT)