

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: P971021

Luminaire Tested: **NAV-SB6C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971021
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-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 31746.3 lumens
Efficiency: N/A
Efficacy: 105.5 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



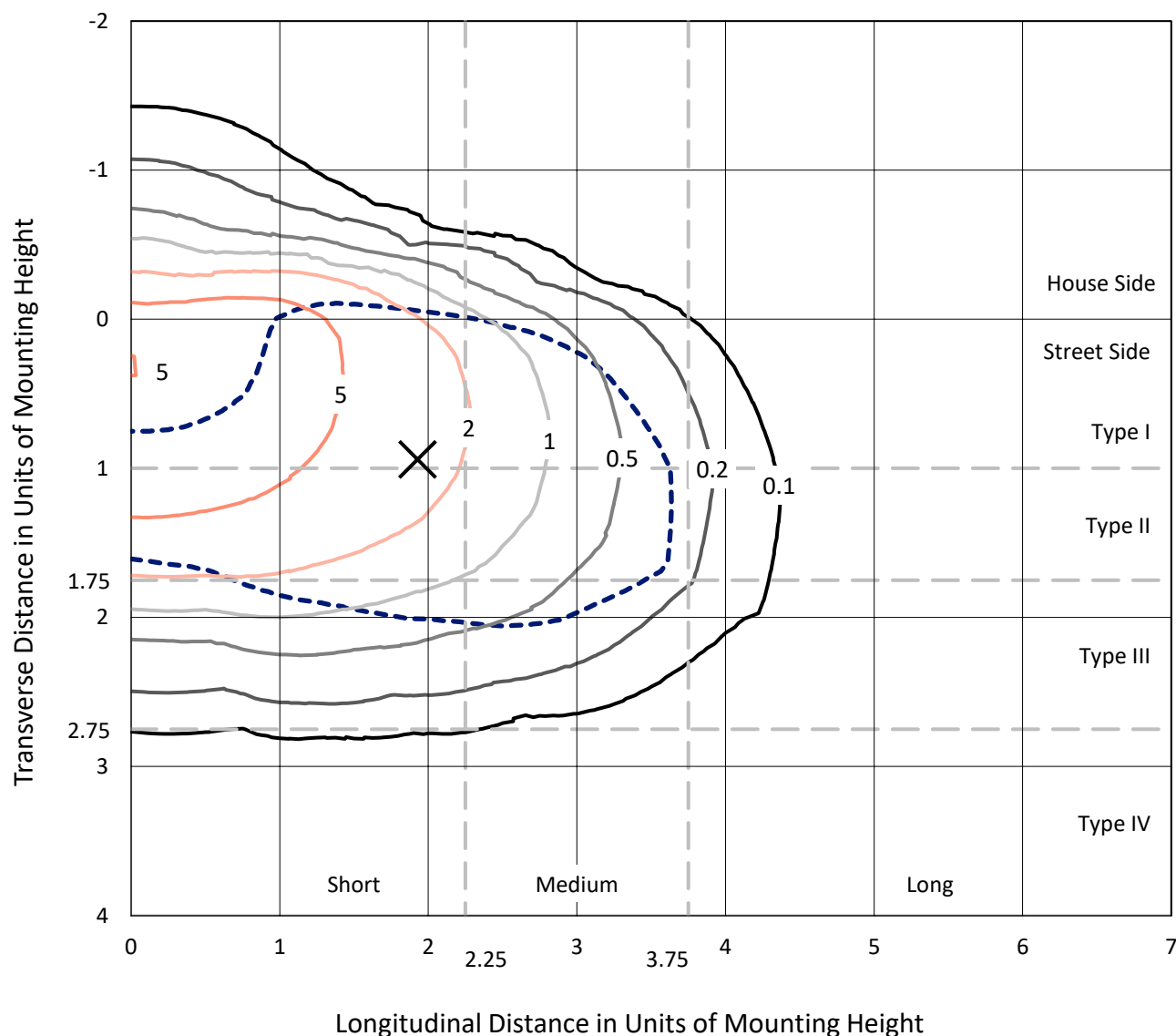
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



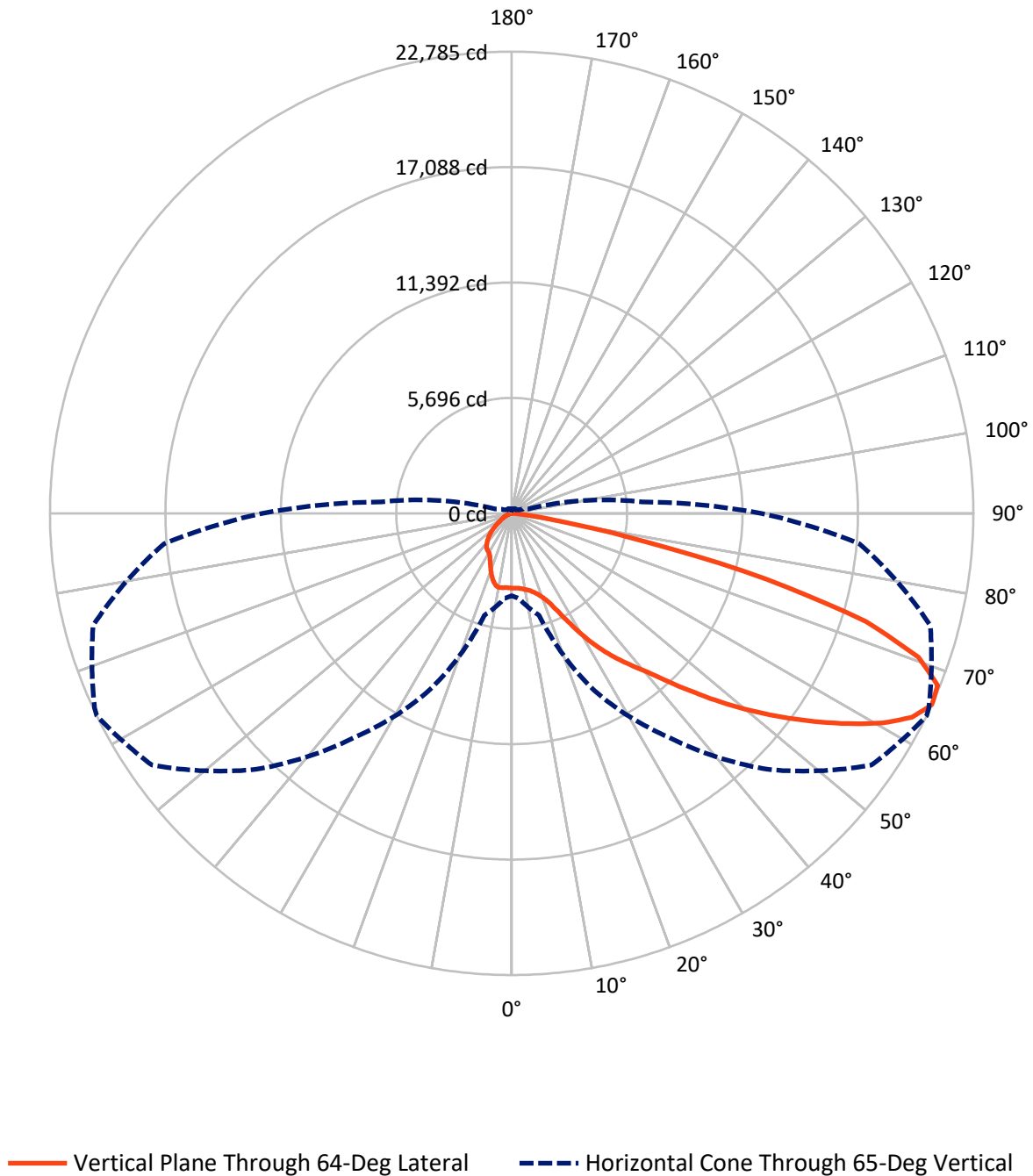
Based on 25 foot mounting height. Maximum calculated value = 9.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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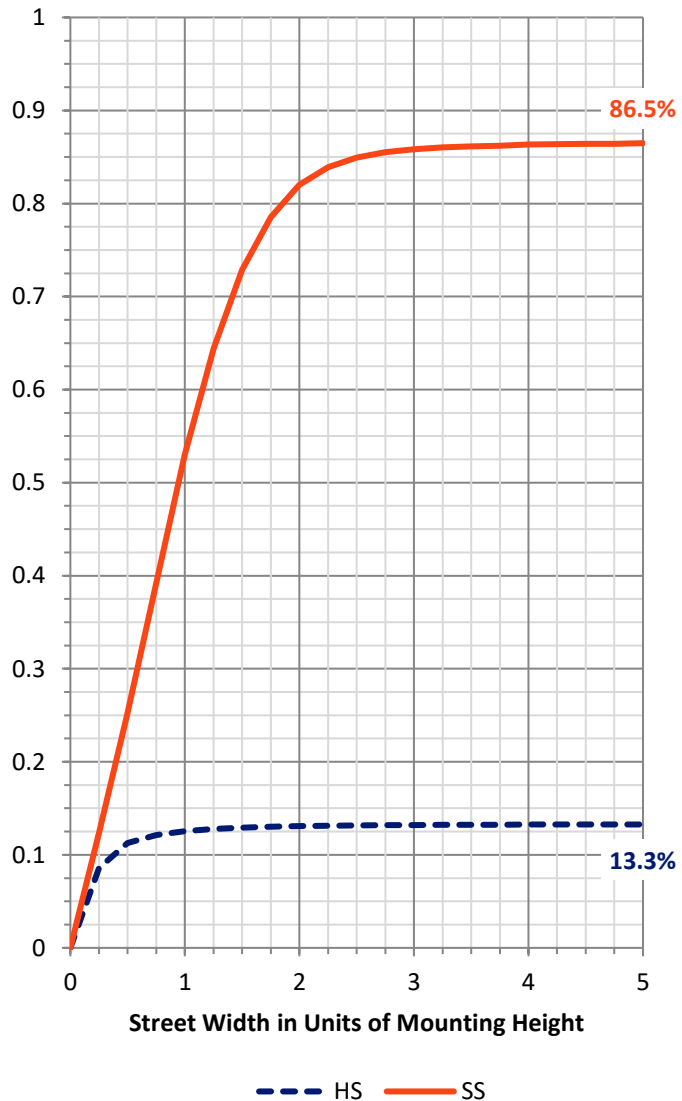
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4245.4	0.0	4245.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27500.9	0.0	27500.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	31746.3	0.0	31746.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.7	1.1
10°-20°	924.0	2.9
20°-30°	1750.9	5.5
30°-40°	3542.9	11.2
40°-50°	6035.4	19.0
50°-60°	8207.6	25.9
60°-70°	7707.4	24.3
70°-80°	3087.9	9.7
80°-90°	149.6	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°	31746.3	100.0
0°-180°	31746.3	100.0

Coefficient of Utilization



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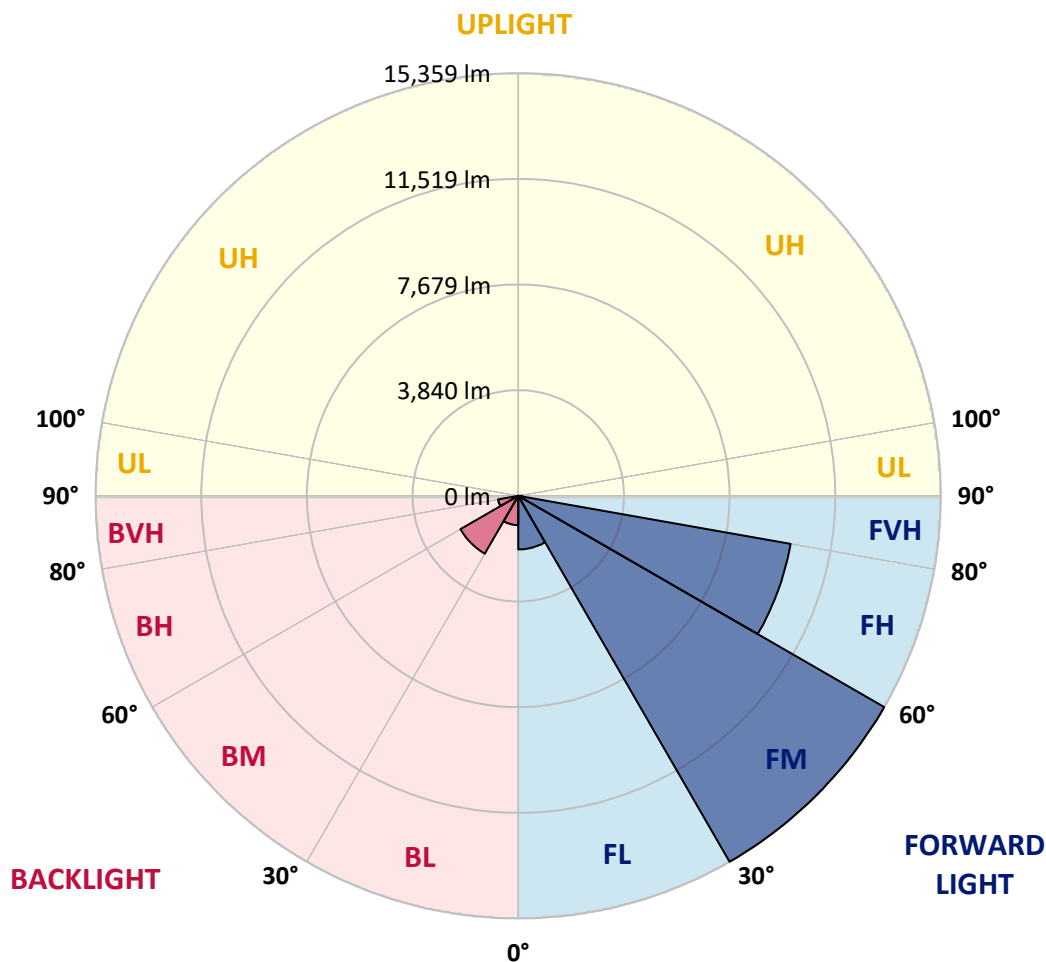
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1949.6	6.1			
FM	(30°-60°)	15358.8	48.4			
FH	(60°-80°)	10050.2	31.7			G4/12000
FVH	(80°-90°)	142.3	0.4			G2/225
BL	(0°-30°)	1065.9	3.4	B3/2500		
BM	(30°-60°)	2427.1	7.6	B2/2500		
BH	(60°-80°)	745.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3679.6	3705.2	3698.8	3692.5	3690.3	3694.5	3696.7	3694.5	3694.5	3694.5	3696.7
5°	3609.4	3630.8	3630.8	3645.6	3666.8	3692.5	3711.6	3715.8	3720.1	3726.5	3724.3
7.5°	3475.4	3492.4	3505.2	3554.1	3607.3	3675.4	3732.8	3762.7	3766.9	3790.3	3798.9
10°	3383.8	3405.2	3426.4	3477.5	3554.1	3656.3	3754.2	3826.5	3837.2	3892.4	3918.1
12.5°	3379.6	3400.8	3428.5	3483.9	3573.3	3681.8	3801.0	3905.2	3924.4	4005.3	4058.5
15°	3424.3	3449.8	3475.4	3543.4	3639.3	3771.2	3898.9	4028.7	4047.8	4162.7	4220.2
17.5°	3515.7	3549.9	3568.9	3637.1	3739.2	3886.1	4054.2	4203.2	4220.2	4354.3	4426.7
20°	3696.7	3737.2	3743.5	3798.9	3898.9	4056.3	4256.4	4441.5	4462.8	4616.1	4697.0
22.5°	4071.2	4128.7	4077.7	4105.3	4194.7	4352.2	4569.2	4803.4	4833.2	5007.6	5080.0
25°	4731.0	4811.9	4679.9	4633.1	4671.4	4835.2	5107.7	5403.5	5437.5	5578.0	5614.2
27.5°	6027.1	5922.8	5722.7	5526.9	5412.0	5505.7	5812.2	6178.2	6220.7	6356.9	6314.4
30°	7450.8	7359.3	7089.0	6654.9	6382.5	6367.6	6650.6	7059.3	7108.2	7238.0	7108.2
32.5°	8876.7	8789.5	8495.8	7961.6	7489.2	7255.1	7450.8	7904.1	7929.7	8012.6	7821.2
35°	10279.2	10189.8	9896.2	9349.1	8768.2	8236.1	8197.8	8708.6	8717.1	8804.3	8519.2
37.5°	11690.2	11615.7	11302.9	10766.6	10194.0	9459.8	9104.5	9470.5	9481.1	9566.2	9270.4
40°	12696.9	12728.8	12513.8	12098.8	11607.2	10804.8	10121.7	10281.4	10217.5	10360.1	10183.5
42.5°	13560.9	13624.7	13437.4	13228.9	12943.7	12237.2	11381.6	11353.9	11251.8	11328.4	11145.3
45°	14307.9	14361.1	14193.0	14144.0	14137.6	13641.7	12758.6	12592.5	12450.0	12435.1	12215.8
47.5°	14582.4	14684.6	14756.9	14920.8	15240.0	15031.4	14182.3	13924.8	13765.2	13648.2	13301.2
50°	14686.7	14795.3	15042.1	15518.8	16274.3	16363.7	15599.7	15310.2	15114.4	14901.7	14390.9
52.5°	14546.3	14739.9	15071.9	15874.3	16970.2	17432.1	16959.6	16706.4	16482.9	16136.0	15378.4
55°	13718.4	13912.0	14591.0	15870.0	17317.2	18181.2	18245.0	18132.2	17881.1	17334.2	16176.4
57.5°	11973.2	12260.5	13335.2	15329.4	17310.8	18826.1	19504.9	19585.8	19304.8	18521.8	16804.3
60°	9555.6	9945.1	11256.0	14131.3	16776.6	19175.1	20609.5	21013.8	20715.9	19692.2	17312.9
62.5°	6667.6	7118.8	8359.6	12254.2	15555.0	18924.0	21416.0	22163.1	21937.5	20739.3	17508.6
65°	4067.0	4211.7	5211.9	9642.9	13477.9	17872.6	21665.0	22784.5	22710.0	21379.9	17219.3
67.5°	2709.2	2830.5	3117.8	6612.3	10462.2	15772.1	21069.2	22676.0	22697.2	21275.6	16159.4
70°	1632.3	1736.7	1923.9	3845.7	6780.5	12484.0	19224.0	21292.6	21416.0	19881.6	14150.4
72.5°	672.5	742.7	913.0	1743.0	3511.5	7923.2	15308.2	18281.2	18568.5	16717.0	10860.2
75°	381.0	417.2	536.3	874.7	1523.8	3692.5	9272.6	12977.7	13401.3	11522.0	6533.6
77.5°	253.3	270.3	346.9	566.1	857.6	1259.9	3962.8	6761.3	7570.0	6293.1	2828.4
80°	170.3	185.1	238.3	378.8	557.6	540.6	1262.0	2504.9	3081.7	2162.2	689.5
82.5°	114.9	117.1	170.3	249.0	353.3	261.8	372.5	778.9	979.0	625.7	261.8
85°	66.0	63.9	125.6	144.7	157.4	108.5	112.7	234.1	306.5	263.9	148.9
87.5°	8.5	12.8	49.0	38.3	21.3	23.4	23.4	40.4	59.6	63.9	31.9
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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3696.7	3694.5	3688.2	3681.8	3666.8	3658.3	3662.6	3658.3	3656.3	3658.3	3666.8
5°	3724.3	3718.0	3701.0	3679.6	3649.8	3613.6	3590.3	3556.2	3524.3	3505.2	3509.4
7.5°	3798.9	3792.5	3769.0	3709.5	3613.6	3462.6	3324.3	3202.9	3111.4	3058.2	3060.3
10°	3918.1	3907.4	3871.2	3739.2	3488.1	3158.2	2883.7	2656.0	2507.0	2436.8	2430.4
12.5°	4058.5	4045.7	3981.8	3711.6	3249.8	2734.7	2356.0	2102.7	1964.3	1902.6	1896.2
15°	4224.4	4207.4	4081.9	3579.6	2902.9	2266.6	1919.6	1730.2	1640.8	1585.5	1587.6
17.5°	4430.9	4401.1	4156.4	3381.7	2526.2	1909.0	1651.5	1508.9	1430.2	1377.0	1372.7
20°	4699.1	4650.1	4215.9	3145.5	2179.3	1683.4	1470.6	1351.4	1291.8	1245.0	1236.5
22.5°	5073.6	5003.4	4288.3	2890.1	1934.5	1528.1	1336.5	1249.3	1200.3	1147.1	1138.6
25°	5537.6	5454.5	4377.7	2653.8	1766.4	1394.0	1238.6	1166.2	1108.7	1047.0	1040.7
27.5°	6186.7	6037.7	4484.1	2460.2	1621.7	1279.1	1149.2	1068.4	1002.3	951.3	940.6
30°	6910.2	6665.5	4577.8	2343.1	1489.7	1172.6	1032.2	951.3	889.6	853.4	847.1
32.5°	7595.6	7263.6	4639.5	2292.1	1370.5	1051.3	904.5	817.2	770.4	759.7	766.2
35°	8242.5	7804.1	4633.1	2243.1	1264.1	930.0	778.9	689.5	653.3	659.8	659.8
37.5°	8987.4	8380.8	4588.4	2166.5	1176.9	819.4	670.3	591.6	559.8	561.8	570.3
40°	9853.5	9047.0	4560.7	2021.8	1081.2	717.2	581.0	517.1	493.7	485.2	483.1
42.5°	10777.2	9691.8	4564.9	1857.9	962.0	625.7	519.3	466.1	444.7	438.4	436.2
45°	11705.1	10306.9	4571.4	1687.7	836.4	555.4	474.6	429.9	417.2	408.6	408.6
47.5°	12577.7	10830.4	4452.2	1504.6	713.0	502.2	438.4	408.6	398.0	387.3	387.3
50°	13390.6	11179.5	4164.9	1291.8	615.0	459.7	410.7	389.5	378.8	368.2	368.2
52.5°	14022.7	11234.7	3690.3	1072.7	546.9	427.7	393.7	374.5	361.8	351.2	349.0
55°	14303.7	10887.9	3015.7	868.3	493.7	400.1	376.7	357.5	342.7	332.0	329.8
57.5°	14231.3	10157.9	2351.7	698.0	442.7	372.5	355.4	342.7	325.6	308.6	306.5
60°	13875.8	9181.0	1772.8	581.0	395.9	342.7	332.0	321.3	298.0	272.4	268.1
62.5°	13260.8	7953.1	1264.1	480.9	344.8	308.6	304.3	295.8	261.8	214.9	210.7
65°	12320.1	6461.2	851.3	400.1	295.8	270.3	272.4	257.5	212.8	159.6	155.4
67.5°	10945.4	4724.6	544.8	327.7	246.8	225.6	227.8	219.2	180.9	136.2	129.9
70°	9193.8	3128.4	355.4	249.0	197.9	174.6	187.3	189.4	153.2	110.7	106.4
72.5°	6740.0	1847.3	249.0	185.1	144.7	121.3	153.2	157.4	123.4	83.0	78.7
75°	3841.4	876.8	187.3	134.1	89.4	85.2	119.2	119.2	85.2	55.4	51.0
77.5°	1613.1	366.0	131.9	87.2	51.0	49.0	80.9	74.5	42.5	25.5	25.5
80°	466.1	163.9	70.2	42.5	21.3	19.2	31.9	23.4	10.7	4.3	4.3
82.5°	183.1	72.4	27.7	17.0	8.5	8.5	4.3	0.0	0.0	0.0	0.0
85°	108.5	29.8	12.8	6.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.7	6.4	4.3	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)