

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: P970401

Luminaire Tested: **NAV-SB6B-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970401
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-SB6B-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA 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: 29041.3 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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



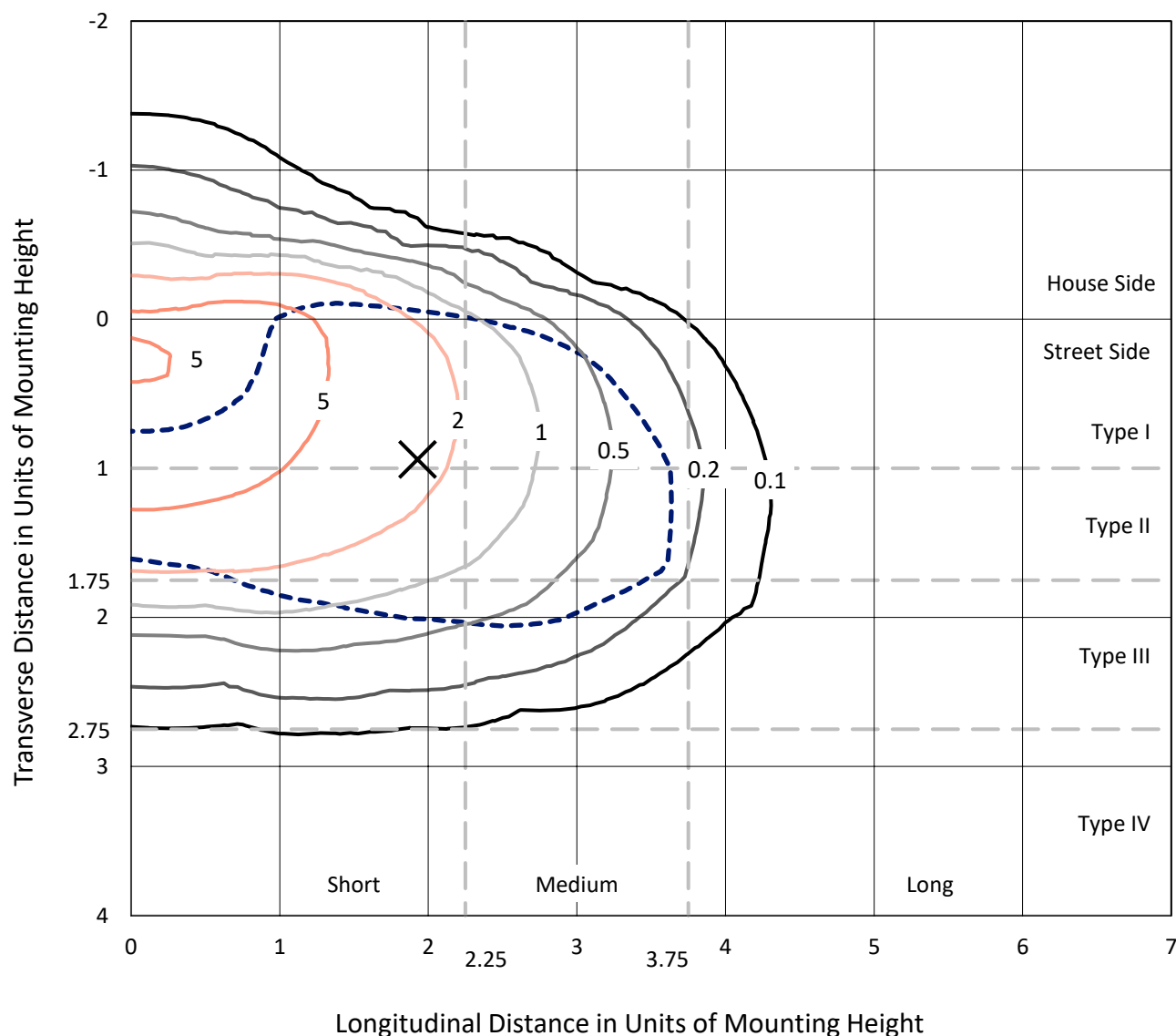
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

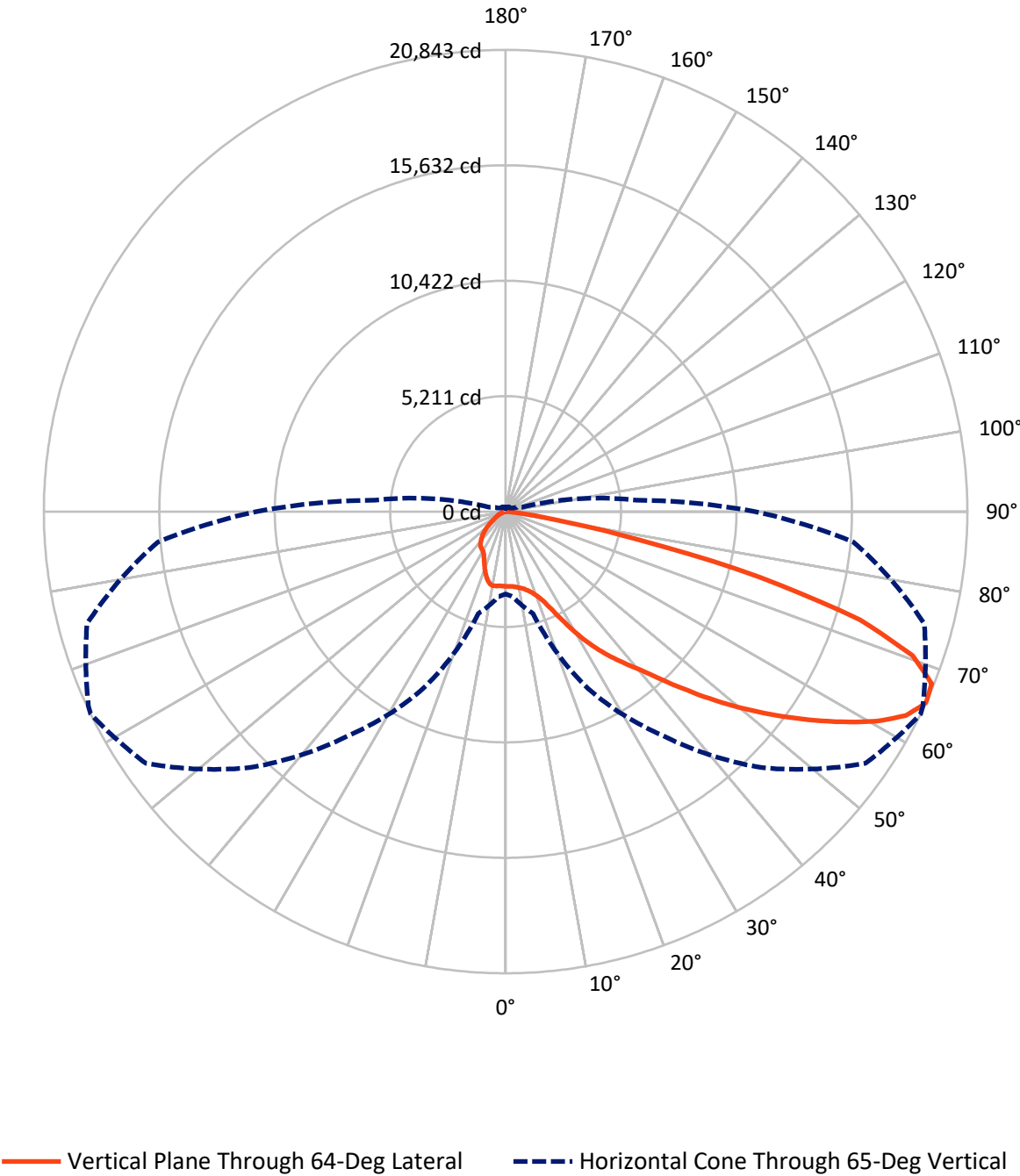


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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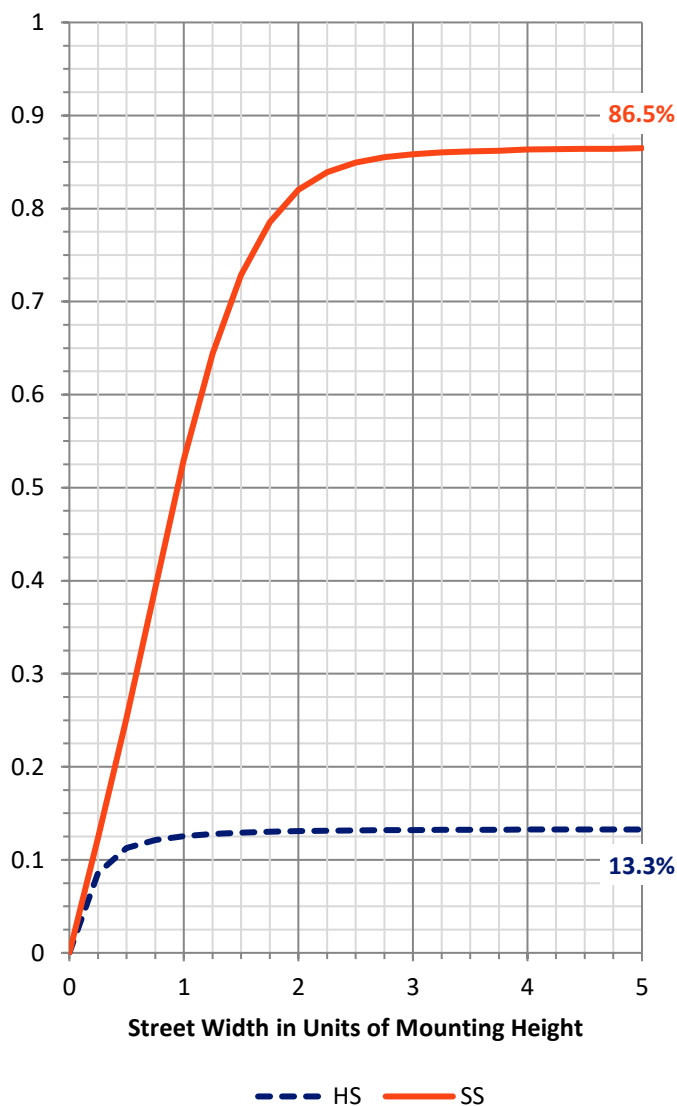
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3883.7	0.0	3883.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25157.6	0.0	25157.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	29041.3	0.0	29041.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	1.1
10°-20°	845.3	2.9
20°-30°	1601.7	5.5
30°-40°	3241.0	11.2
40°-50°	5521.1	19.0
50°-60°	7508.3	25.9
60°-70°	7050.7	24.3
70°-80°	2824.8	9.7
80°-90°	136.9	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°	29041.3	100.0
0°-180°	29041.3	100.0

Coefficient of Utilization



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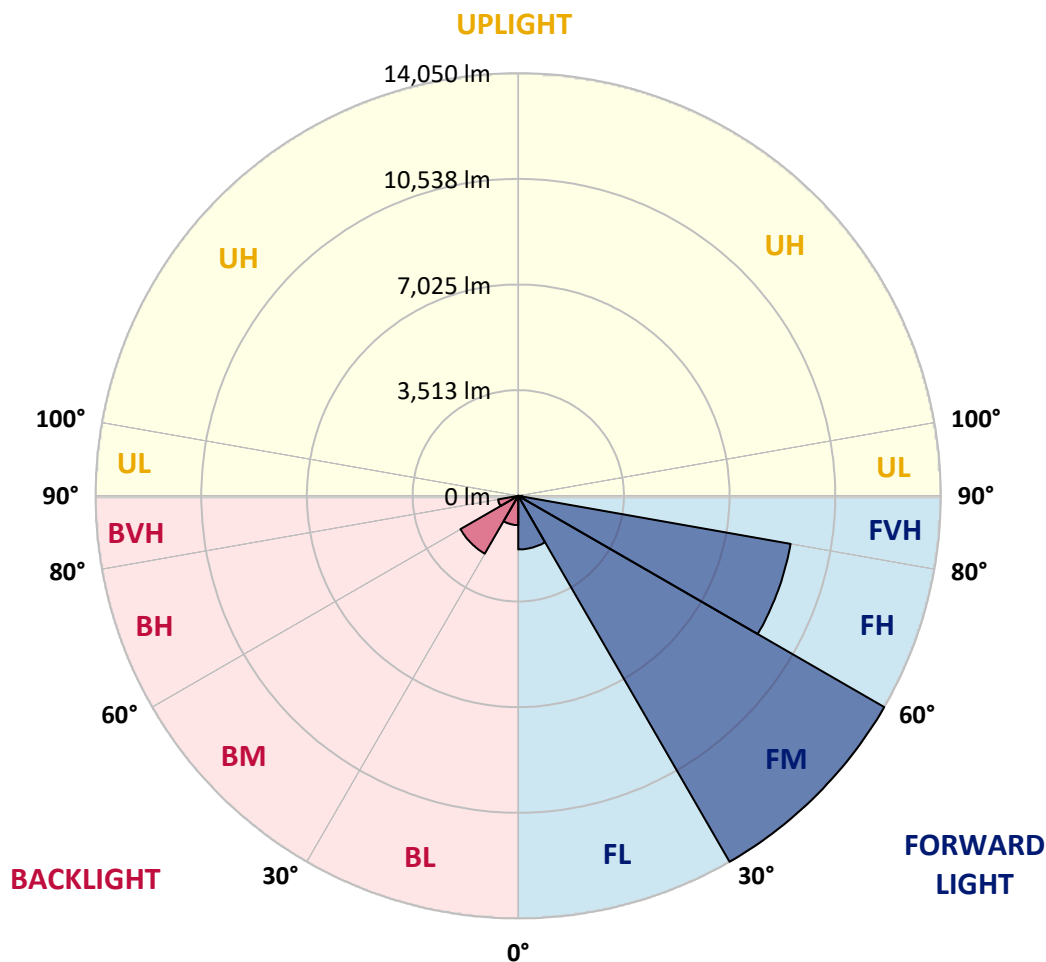
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1783.5	6.1			
FM	(30°-60°)	14050.2	48.4			
FH	(60°-80°)	9193.8	31.7			G4/12000
FVH	(80°-90°)	130.2	0.4			G2/225
BL	(0°-30°)	975.1	3.4	B2/1000		
BM	(30°-60°)	2220.3	7.6	B2/2500		
BH	(60°-80°)	681.7	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.7	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8
2.5°	3366.1	3389.5	3383.6	3377.8	3375.8	3379.7	3381.7	3379.7	3379.7	3379.7	3381.7
5°	3301.8	3321.3	3321.3	3334.9	3354.4	3377.8	3395.3	3399.2	3403.1	3408.9	3407.0
7.5°	3179.2	3194.8	3206.5	3251.3	3299.9	3362.2	3414.8	3442.1	3445.9	3467.4	3475.2
10°	3095.5	3115.0	3134.4	3181.2	3251.3	3344.7	3434.3	3500.5	3510.2	3560.8	3584.2
12.5°	3091.6	3111.1	3136.4	3187.0	3268.8	3368.0	3477.1	3572.5	3590.1	3664.0	3712.7
15°	3132.5	3155.9	3179.2	3241.6	3329.1	3449.8	3566.7	3685.4	3702.9	3808.1	3860.7
17.5°	3216.2	3247.4	3264.9	3327.2	3420.6	3555.0	3708.8	3845.1	3860.7	3983.3	4049.5
20°	3381.7	3418.7	3424.5	3475.2	3566.7	3710.7	3893.8	4063.1	4082.6	4222.8	4296.7
22.5°	3724.3	3776.9	3730.2	3755.5	3837.3	3981.3	4180.0	4394.1	4421.3	4580.9	4647.1
25°	4327.9	4401.9	4281.1	4238.3	4273.3	4423.3	4672.5	4943.1	4974.2	5102.8	5135.9
27.5°	5513.5	5418.2	5235.1	5056.0	4950.9	5036.5	5316.9	5651.7	5690.7	5815.2	5776.4
30°	6815.9	6732.3	6485.0	6087.9	5838.6	5825.0	6084.0	6457.7	6502.5	6621.3	6502.5
32.5°	8120.4	8040.5	7771.9	7283.2	6851.0	6636.9	6815.9	7230.7	7254.0	7330.0	7154.7
35°	9403.3	9321.6	9052.9	8552.6	8021.0	7534.4	7499.3	7966.6	7974.4	8054.1	7793.3
37.5°	10694.1	10626.0	10339.8	9849.2	9325.4	8653.8	8328.6	8663.5	8673.2	8751.1	8480.5
40°	11615.0	11644.2	11447.5	11067.9	10618.2	9884.2	9259.2	9405.3	9346.9	9477.4	9315.7
42.5°	12405.4	12463.8	12292.5	12101.7	11840.8	11194.4	10411.8	10386.5	10293.0	10363.2	10195.7
45°	13088.7	13137.4	12983.7	12938.9	12933.0	12479.4	11671.5	11519.6	11389.2	11375.6	11175.0
47.5°	13339.9	13433.3	13499.6	13649.4	13941.5	13750.7	12973.9	12738.3	12592.3	12485.2	12167.9
50°	13435.3	13534.6	13760.4	14196.6	14887.6	14969.4	14270.5	14005.7	13826.6	13631.9	13164.7
52.5°	13306.9	13484.0	13787.7	14521.7	15524.2	15946.7	15514.5	15282.9	15078.5	14761.1	14068.0
55°	12549.5	12726.6	13347.7	14517.8	15841.6	16632.1	16690.5	16587.3	16357.6	15857.2	14798.1
57.5°	10953.0	11215.9	12199.0	14023.2	15835.7	17221.9	17843.0	17917.0	17660.0	16943.6	15372.4
60°	8741.4	9097.7	10296.9	12927.2	15347.1	17541.2	18853.4	19223.4	18950.8	18014.4	15837.7
62.5°	6099.6	6512.2	7647.3	11210.0	14229.7	17311.5	19591.2	20274.6	20068.3	18972.1	16016.9
65°	3720.4	3852.9	4767.9	8821.3	12329.5	16349.8	19819.1	20843.1	20775.0	19558.2	15752.1
67.5°	2478.3	2589.4	2852.2	6048.9	9570.7	14428.2	19273.9	20743.8	20763.3	19462.8	14782.6
70°	1493.2	1588.6	1759.9	3518.0	6202.7	11420.3	17586.0	19478.4	19591.2	18187.6	12944.7
72.5°	615.2	679.5	835.2	1594.5	3212.4	7248.2	14003.8	16723.6	16986.4	15292.6	9934.8
75°	348.5	381.6	490.6	800.1	1394.0	3377.8	8482.5	11872.0	12259.4	10540.3	5976.9
77.5°	231.6	247.2	317.3	517.8	784.5	1152.5	3625.0	6185.2	6925.0	5756.9	2587.4
80°	155.8	169.3	218.0	346.6	510.0	494.5	1154.5	2291.5	2819.1	1978.0	630.8
82.5°	105.2	107.1	155.8	227.8	323.2	239.4	340.7	712.6	895.5	572.4	239.4
85°	60.4	58.4	114.9	132.4	144.1	99.3	103.2	214.1	280.3	241.4	136.3
87.5°	7.8	11.7	44.8	35.1	19.5	21.4	21.4	37.0	54.5	58.4	29.2
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°	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8
2.5°	3381.7	3379.7	3373.9	3368.0	3354.4	3346.6	3350.5	3346.6	3344.7	3346.6	3354.4
5°	3407.0	3401.2	3385.6	3366.1	3338.8	3305.7	3284.4	3253.2	3224.0	3206.5	3210.4
7.5°	3475.2	3469.3	3447.9	3393.4	3305.7	3167.6	3041.0	2930.1	2846.3	2797.6	2799.6
10°	3584.2	3574.5	3541.4	3420.6	3190.9	2889.2	2638.0	2429.7	2293.4	2229.2	2223.3
12.5°	3712.7	3701.0	3642.5	3395.3	2972.9	2501.7	2155.2	1923.5	1796.9	1740.4	1734.6
15°	3864.6	3849.0	3734.1	3274.7	2655.6	2073.4	1756.0	1582.8	1501.0	1450.4	1452.3
17.5°	4053.4	4026.1	3802.2	3093.6	2311.0	1746.3	1510.7	1380.4	1308.3	1259.6	1255.7
20°	4298.6	4253.9	3856.8	2877.5	1993.6	1540.0	1345.3	1236.3	1181.7	1138.9	1131.1
22.5°	4641.3	4577.0	3922.9	2643.9	1769.7	1397.9	1222.6	1142.8	1098.0	1049.4	1041.6
25°	5065.8	4989.8	4004.7	2427.7	1615.9	1275.2	1133.0	1066.9	1014.3	957.9	952.0
27.5°	5659.5	5523.2	4102.0	2250.6	1483.5	1170.0	1051.3	977.3	917.0	870.2	860.5
30°	6321.5	6097.6	4187.7	2143.5	1362.8	1072.8	944.2	870.2	813.7	780.7	774.9
32.5°	6948.4	6644.7	4244.1	2096.7	1253.8	961.8	827.4	747.6	704.8	695.1	700.9
35°	7540.2	7139.1	4238.3	2051.9	1156.4	850.7	712.6	630.8	597.7	603.5	603.5
37.5°	8221.6	7666.8	4197.5	1981.9	1076.7	749.6	613.3	541.2	512.0	513.9	521.7
40°	9014.0	8276.2	4172.2	1849.5	989.0	656.1	531.5	473.0	451.7	443.9	442.0
42.5°	9859.0	8866.0	4176.1	1699.7	880.0	572.4	475.0	426.4	406.9	401.1	399.1
45°	10707.8	9428.7	4181.9	1543.9	765.2	508.1	434.2	393.3	381.6	373.8	373.8
47.5°	11505.9	9907.5	4072.8	1376.5	652.2	459.5	401.1	373.8	364.1	354.3	354.3
50°	12249.7	10226.8	3810.0	1181.7	562.6	420.6	375.8	356.3	346.6	336.8	336.8
52.5°	12827.9	10277.5	3375.8	981.2	500.3	391.3	360.2	342.7	331.0	321.2	319.3
55°	13084.8	9960.1	2758.7	794.3	451.7	366.0	344.6	327.1	313.4	303.7	301.8
57.5°	13018.6	9292.3	2151.3	638.6	405.0	340.7	325.1	313.4	297.9	282.3	280.3
60°	12693.5	8398.7	1621.8	531.5	362.1	313.4	303.7	294.0	272.5	249.2	245.3
62.5°	12130.9	7275.4	1156.4	440.0	315.4	282.3	278.4	270.6	239.4	196.6	192.7
65°	11270.4	5910.7	778.8	366.0	270.6	247.2	249.2	235.5	194.6	146.1	142.2
67.5°	10012.7	4322.0	498.4	299.8	225.8	206.3	208.3	200.5	165.4	124.6	118.8
70°	8410.4	2861.9	325.1	227.8	181.0	159.6	171.3	173.2	140.2	101.3	97.4
72.5°	6165.7	1689.9	227.8	169.3	132.4	111.0	140.2	144.1	113.0	76.0	72.1
75°	3514.1	802.1	171.3	122.7	81.8	77.9	109.1	109.1	77.9	50.6	46.7
77.5°	1475.7	334.9	120.7	79.8	46.7	44.8	74.0	68.2	38.9	23.4	23.4
80°	426.4	150.0	64.3	38.9	19.5	17.5	29.2	21.4	9.7	3.9	3.9
82.5°	167.4	66.2	25.3	15.6	7.8	7.8	3.9	0.0	0.0	0.0	0.0
85°	99.3	27.3	11.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.3	5.8	3.9	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)