

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: P969844

Luminaire Tested: **NAV-SB6A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969844
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-SB6A-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA 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: 23213.2 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

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



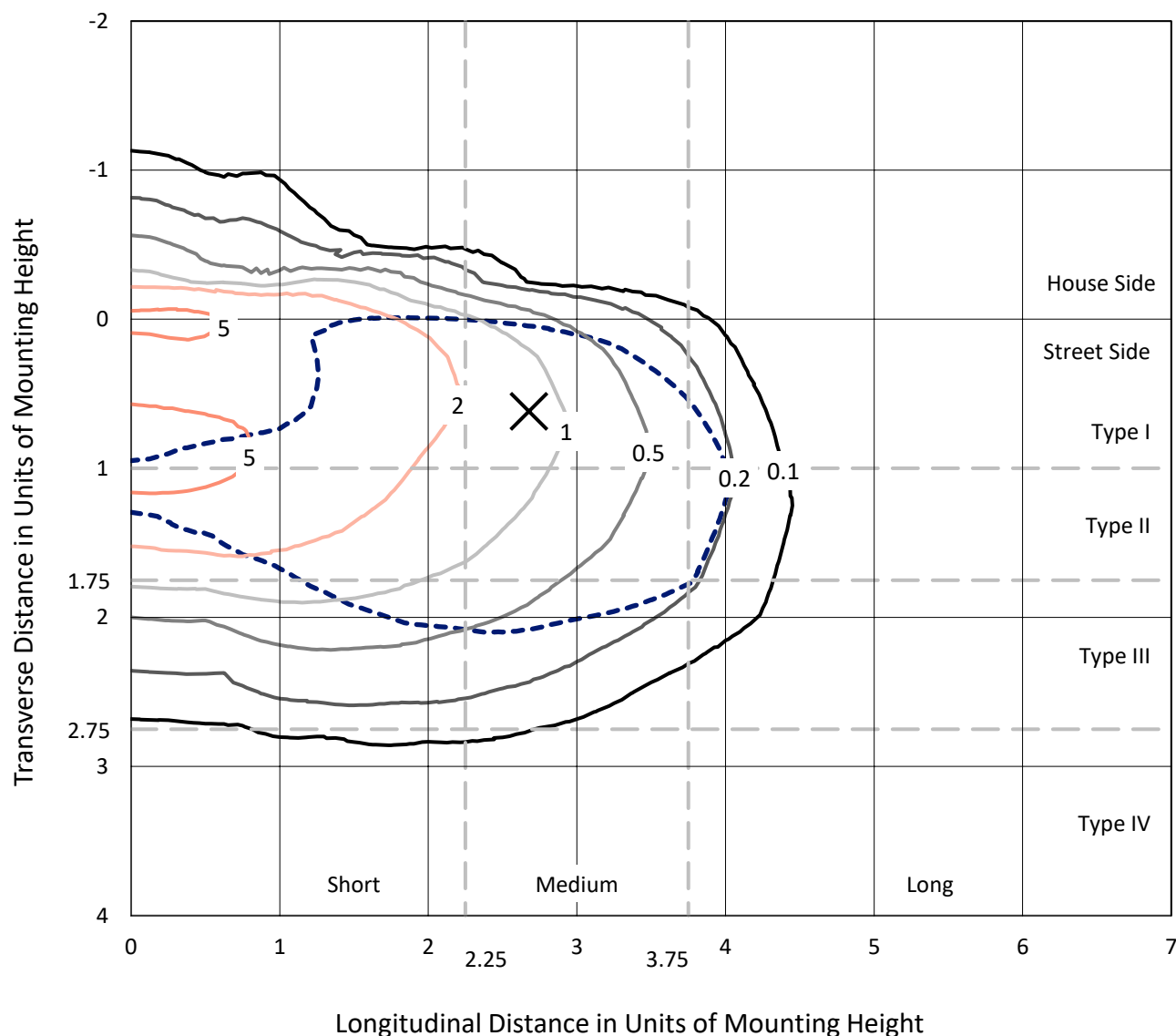
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

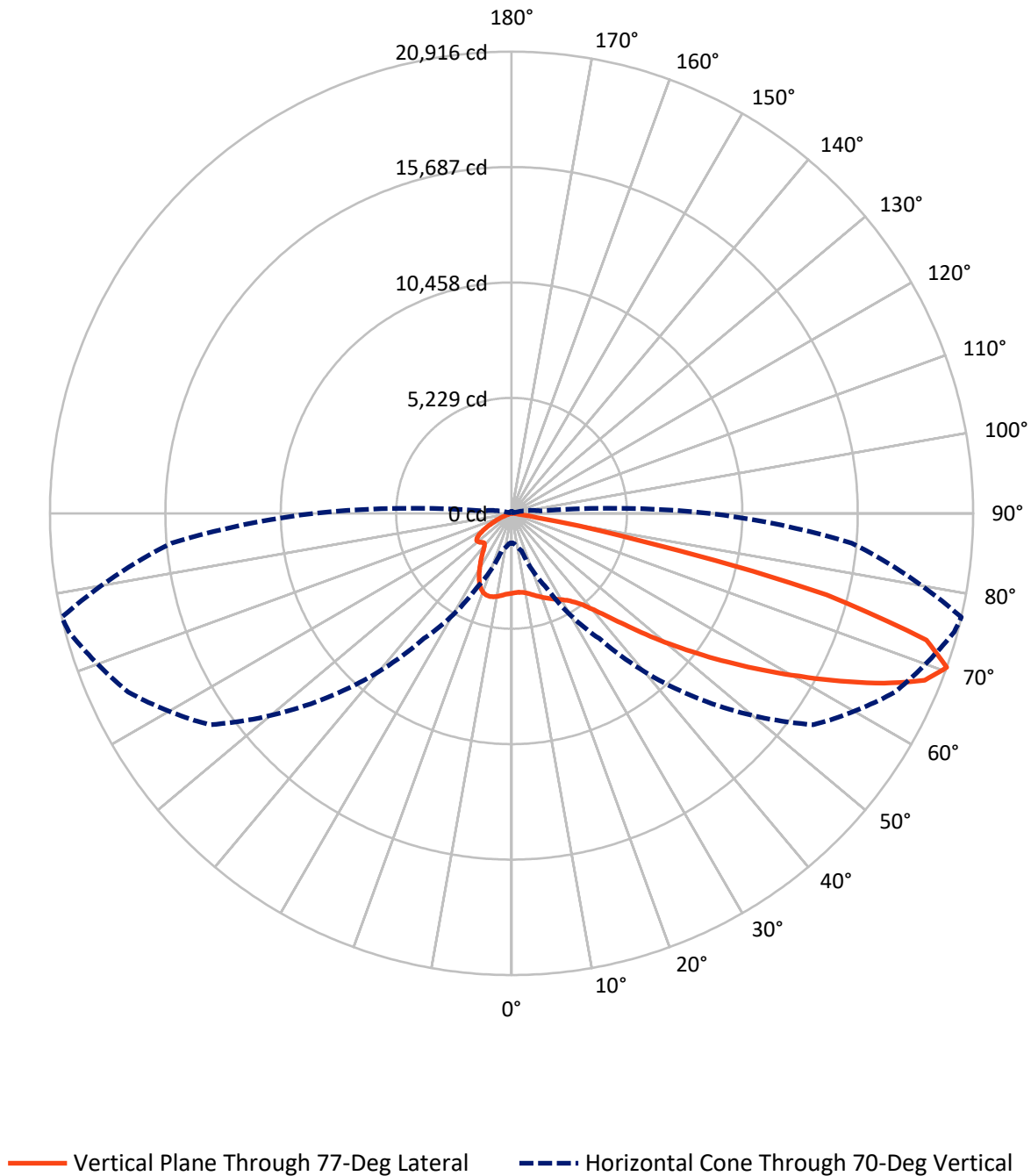
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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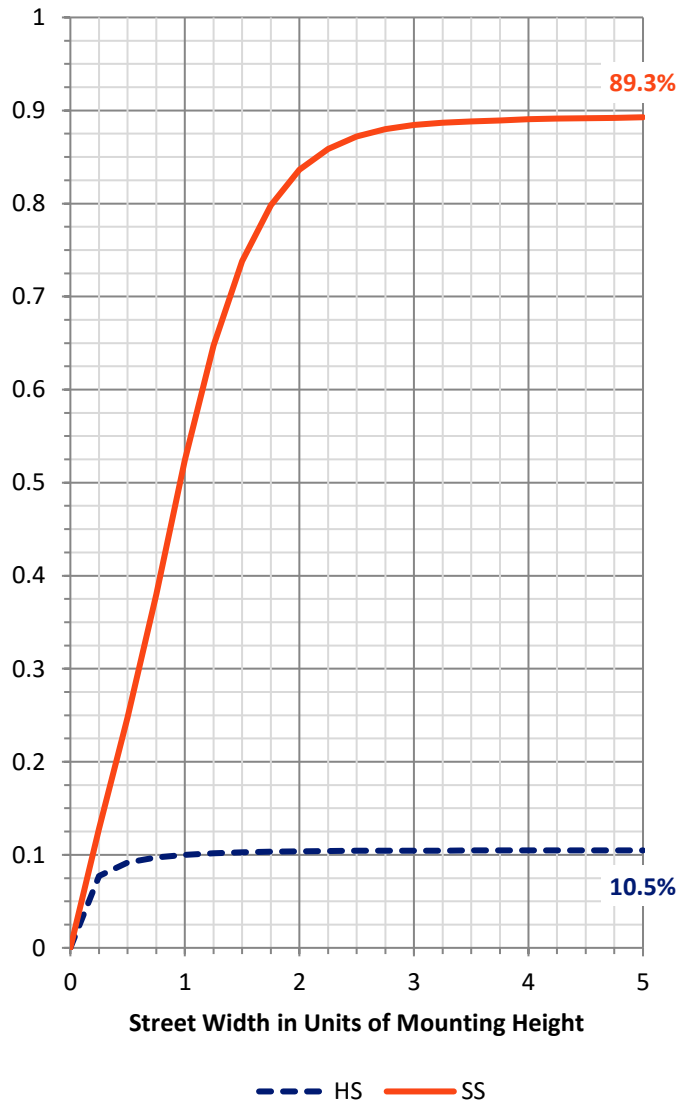
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.0	0.0	2447.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20766.2	0.0	20766.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	23213.2	0.0	23213.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.3
10°-20°	740.8	3.2
20°-30°	1145.8	4.9
30°-40°	2079.1	9.0
40°-50°	3924.6	16.9
50°-60°	5670.7	24.4
60°-70°	6036.3	26.0
70°-80°	3198.8	13.8
80°-90°	105.0	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°	23213.2	100.0
0°-180°	23213.2	100.0

Coefficient of Utilization



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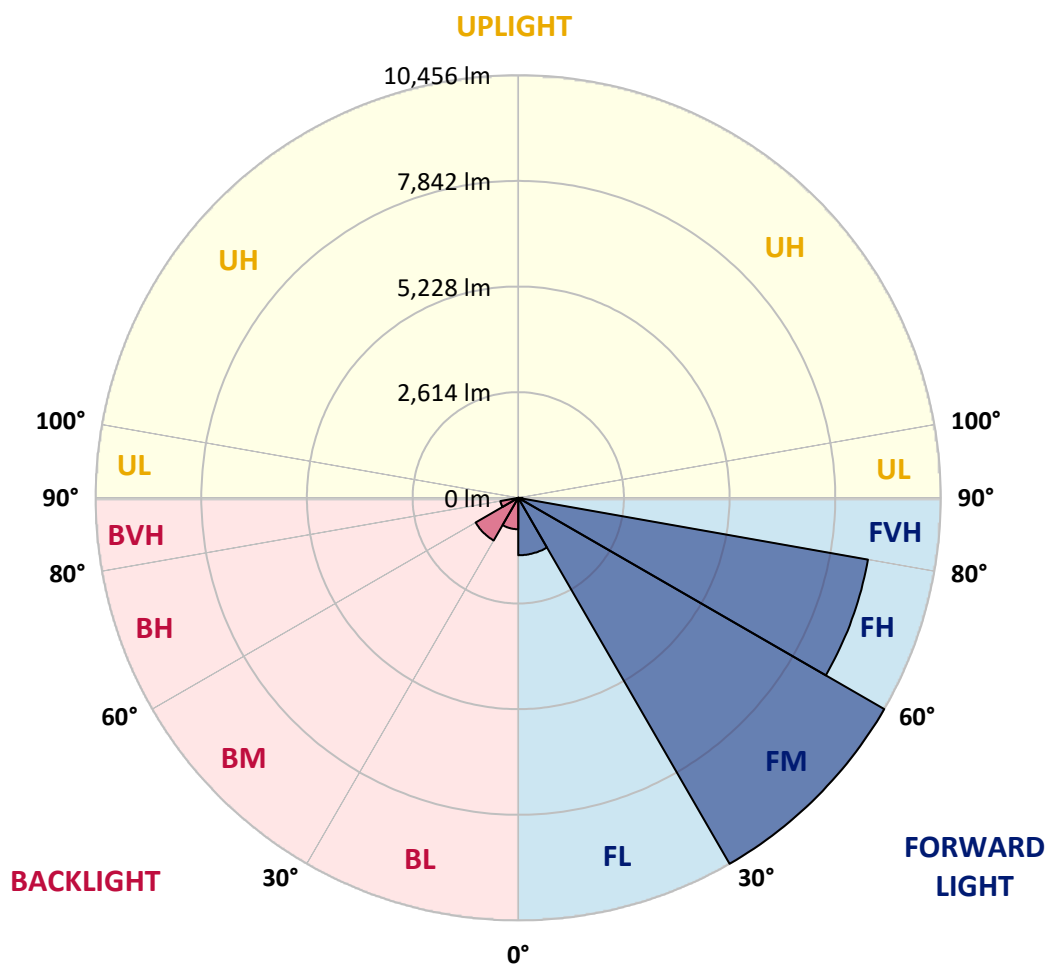
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1421.2	6.1			
FM	(30°-60°)	10456.3	45.0			
FH	(60°-80°)	8786.5	37.9			G4/12000
FVH	(80°-90°)	102.2	0.4			G2/225
BL	(0°-30°)	777.5	3.3	B2/1000		
BM	(30°-60°)	1218.1	5.2	B2/2500		
BH	(60°-80°)	448.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8
2.5°	3399.5	3430.3	3425.9	3446.4	3453.7	3483.1	3512.4	3551.9	3595.9	3594.5	3623.8
5°	3207.4	3238.2	3245.6	3273.4	3308.6	3354.0	3414.2	3493.3	3575.4	3588.6	3647.3
7.5°	2980.2	3012.5	3031.5	3087.2	3151.8	3245.6	3343.8	3459.6	3595.9	3615.0	3727.8
10°	2753.0	2782.4	2807.3	2886.4	2989.0	3128.3	3288.1	3455.2	3638.4	3666.3	3826.0
12.5°	2612.3	2640.1	2668.0	2736.9	2864.5	3034.5	3251.4	3475.7	3708.8	3748.3	3959.5
15°	2562.4	2587.4	2609.3	2670.9	2789.6	2983.2	3244.1	3518.2	3798.2	3851.0	4120.7
17.5°	2569.8	2583.0	2597.7	2644.5	2760.3	2959.7	3257.2	3591.5	3903.7	3950.7	4281.9
20°	2612.3	2619.6	2621.0	2653.3	2755.9	2956.8	3283.7	3661.9	4003.4	4066.5	4441.7
22.5°	2666.5	2669.4	2666.5	2688.5	2783.8	2978.8	3318.8	3746.9	4114.9	4173.5	4603.0
25°	2920.1	2864.5	2794.0	2751.5	2830.7	3021.3	3371.6	3861.3	4236.5	4293.7	4759.9
27.5°	3707.3	3547.5	3295.4	3012.5	2927.5	3082.9	3444.9	3977.1	4359.6	4411.0	4928.4
30°	4985.6	4776.0	4347.9	3710.3	3238.2	3211.8	3540.2	4092.8	4490.1	4545.9	5108.7
32.5°	6266.8	6215.5	5721.5	4839.0	3937.4	3499.1	3698.5	4249.8	4663.1	4707.1	5352.1
35°	7562.8	7458.6	7054.0	6181.8	5014.9	4084.1	3962.4	4455.0	4890.4	4940.2	5706.9
37.5°	8555.2	8492.1	8241.4	7523.1	6293.2	4987.0	4413.9	4773.0	5220.1	5275.9	6161.3
40°	9431.7	9402.4	9317.5	8843.9	7722.5	6168.7	5116.1	5265.6	5677.6	5743.5	6718.4
42.5°	10120.7	10189.6	10238.0	10106.1	9195.8	7517.2	6060.1	5957.5	6315.2	6382.7	7427.9
45°	10825.8	10849.3	11044.3	11234.8	10658.8	8927.4	7124.4	6768.2	7108.3	7191.8	8278.1
47.5°	11278.8	11372.7	11715.6	12051.3	11888.7	10326.0	8267.9	7725.4	8027.4	8184.2	9230.9
50°	11312.5	11489.9	11962.0	12546.8	12784.3	11657.0	9511.0	8816.0	9137.2	9310.1	10248.3
52.5°	10751.1	11026.6	11758.2	12614.3	13268.1	12784.3	10796.5	9906.7	10318.7	10544.4	11303.8
55°	8242.9	8603.5	10991.5	12247.8	13287.2	13639.0	12048.5	11042.8	11635.1	11890.1	12444.2
57.5°	7181.6	7363.4	8641.7	11611.6	12933.9	13983.5	13180.2	12124.6	13067.2	13383.9	13521.7
60°	5975.1	6214.1	7247.6	10570.8	12454.5	14017.2	14179.8	13520.3	14619.7	14975.9	14509.7
62.5°	4060.6	4320.1	5347.7	8782.4	11799.2	14001.1	14999.3	14956.8	16345.1	16727.7	15346.8
65°	2515.6	2678.2	3355.5	7171.3	10883.0	14018.6	15857.0	16701.2	18165.8	18554.2	15994.7
67.5°	1987.8	2062.6	2415.8	5506.0	9304.2	13622.9	16713.0	18341.7	19879.5	20187.3	16192.6
70°	1335.5	1380.9	1757.7	3691.2	6922.1	11796.3	16696.9	19165.6	20761.9	20915.8	15471.4
72.5°	703.7	738.8	1027.7	1709.3	4180.8	8385.1	14074.4	18180.4	19883.8	19652.2	13224.1
75°	351.8	410.4	691.9	867.9	1785.4	4676.3	8739.9	14333.8	15650.2	14753.0	8484.7
77.5°	266.8	322.5	571.7	571.7	621.6	1574.4	3701.5	7817.8	7210.9	6004.4	2490.6
80°	170.0	219.9	499.9	432.4	259.4	400.2	964.6	2190.1	1531.9	1165.4	452.9
82.5°	99.7	143.7	416.4	285.9	145.1	148.0	272.6	466.2	397.3	309.3	139.3
85°	39.6	93.8	285.9	112.9	57.2	36.7	82.1	99.7	82.1	61.6	35.2
87.5°	0.0	22.0	49.8	0.0	4.4	3.0	5.8	7.4	7.4	5.8	11.7
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°	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8
2.5°	3637.0	3639.9	3648.7	3650.1	3629.6	3603.3	3592.9	3588.6	3571.0	3569.6	3572.4
5°	3681.0	3694.1	3681.0	3642.8	3551.9	3424.4	3327.7	3248.5	3176.7	3154.6	3141.5
7.5°	3768.9	3782.0	3742.5	3592.9	3364.3	3110.7	2882.0	2720.8	2575.6	2521.4	2499.4
10°	3895.0	3912.5	3788.0	3485.9	3081.4	2673.8	2286.9	2014.2	1801.6	1715.1	1678.4
12.5°	4053.3	4060.6	3812.9	3323.3	2713.4	2131.5	1583.2	1291.5	1102.4	1032.0	1010.0
15°	4227.7	4217.5	3815.8	3101.9	2212.1	1507.0	1033.5	848.8	772.5	749.1	749.1
17.5°	4411.0	4368.4	3757.1	2782.4	1662.3	1030.5	766.7	722.7	709.5	703.7	702.2
20°	4591.3	4496.0	3650.1	2364.6	1193.3	769.6	696.3	683.2	675.8	672.8	669.9
22.5°	4755.5	4592.7	3467.0	1879.3	866.3	680.2	658.2	646.5	633.2	627.4	626.0
25°	4915.3	4648.5	3208.9	1426.4	693.4	636.2	618.6	596.7	579.0	571.7	568.8
27.5°	5070.7	4683.6	2886.4	1055.4	618.6	595.1	562.9	532.2	519.0	516.0	513.1
30°	5236.3	4695.3	2520.0	787.2	573.2	543.9	496.9	461.8	454.5	455.9	455.9
32.5°	5438.5	4713.0	2150.6	645.0	535.0	482.3	426.6	389.9	384.1	389.9	388.5
35°	5680.4	4748.1	1794.3	593.7	501.3	419.2	359.2	328.4	322.5	326.9	325.4
37.5°	6008.9	4805.3	1461.5	583.4	473.4	366.4	302.0	277.1	277.1	278.5	277.1
40°	6445.7	4957.7	1164.0	576.2	458.8	326.9	255.0	244.8	249.2	252.2	252.2
42.5°	6977.8	5281.7	963.1	567.3	442.7	309.3	231.6	227.2	234.5	237.5	237.5
45°	7574.4	5692.2	892.8	552.7	428.0	321.0	221.4	215.5	224.3	225.7	227.2
47.5°	8191.6	6093.8	884.0	536.5	413.4	338.7	218.4	205.2	215.5	217.0	218.4
50°	8816.0	6356.2	892.8	511.6	389.9	338.7	219.9	195.0	203.8	208.2	209.6
52.5°	9445.0	6476.5	886.9	457.4	348.9	318.1	219.9	186.1	195.0	197.9	197.9
55°	10054.7	6453.0	797.4	376.8	296.1	281.5	214.0	178.9	184.7	186.1	186.1
57.5°	10537.1	6126.1	631.8	293.2	240.4	234.5	195.0	170.0	174.5	173.0	173.0
60°	10789.3	5407.8	451.5	225.7	189.1	184.7	171.5	158.4	161.2	154.0	152.4
62.5°	10792.1	4457.9	302.0	178.9	151.0	146.6	146.6	142.2	139.3	124.6	120.2
65°	10562.0	3403.9	200.8	142.2	121.7	114.4	123.1	121.7	111.4	90.9	87.9
67.5°	10040.1	2231.1	152.4	111.4	93.8	89.4	98.2	102.6	95.3	76.3	74.7
70°	8967.1	1298.8	126.1	86.5	70.3	66.0	79.1	87.9	79.1	61.6	58.6
72.5°	7448.4	700.7	102.6	64.5	48.4	44.0	63.0	71.9	63.0	45.4	44.0
75°	4833.2	375.3	79.1	42.5	24.9	27.9	46.9	52.8	44.0	29.3	26.3
77.5°	1622.8	165.6	49.8	20.5	11.7	11.7	27.9	32.3	20.5	10.2	8.8
80°	362.1	68.9	20.5	8.8	4.4	4.4	5.8	5.8	3.0	0.0	0.0
82.5°	118.7	27.9	8.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.4	10.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	1.4	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)