

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: P962460

Luminaire Tested: **NAV-SB2C-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12998 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

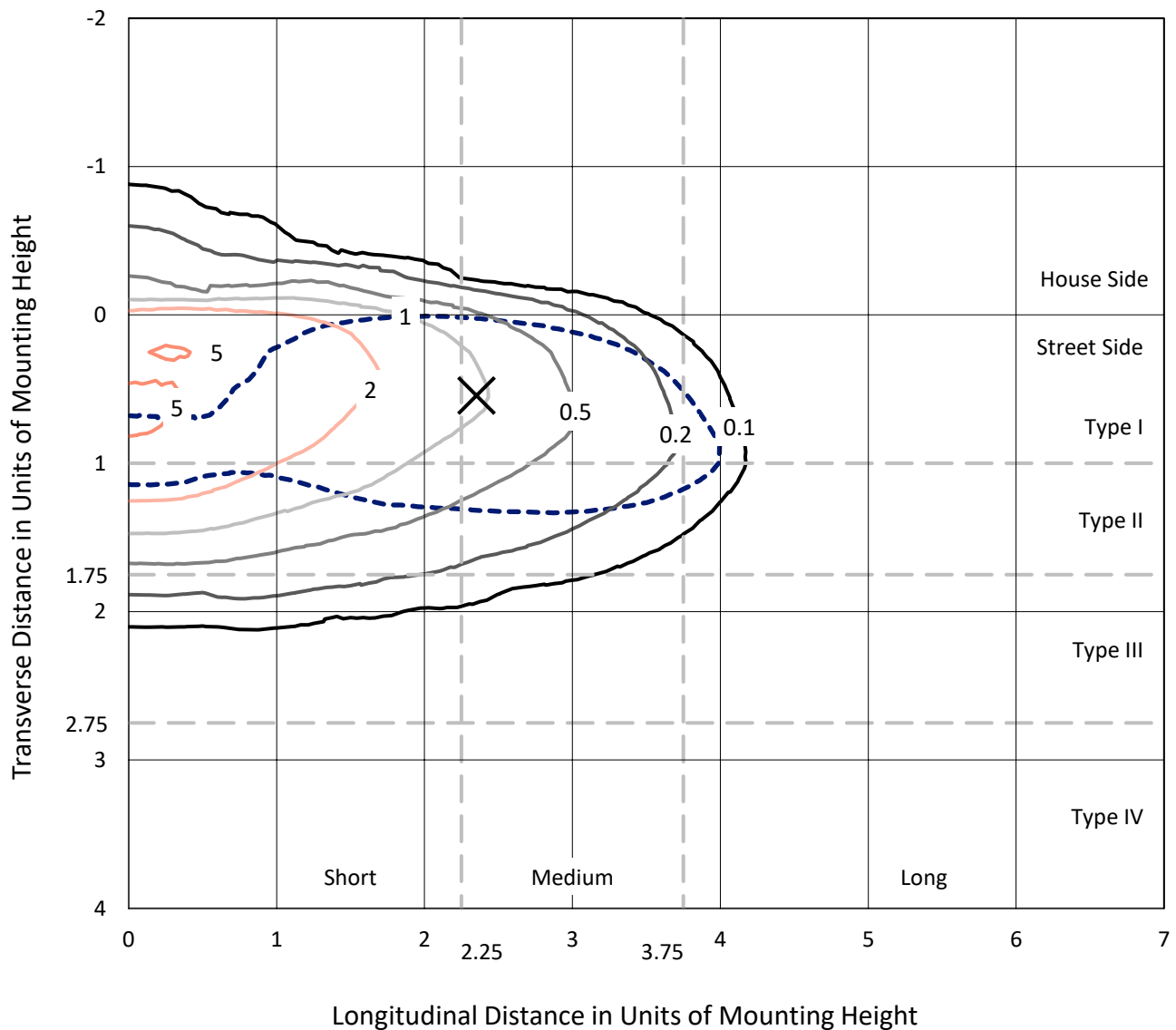


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Iso-Footcandle Lines of Horizontal Illumination

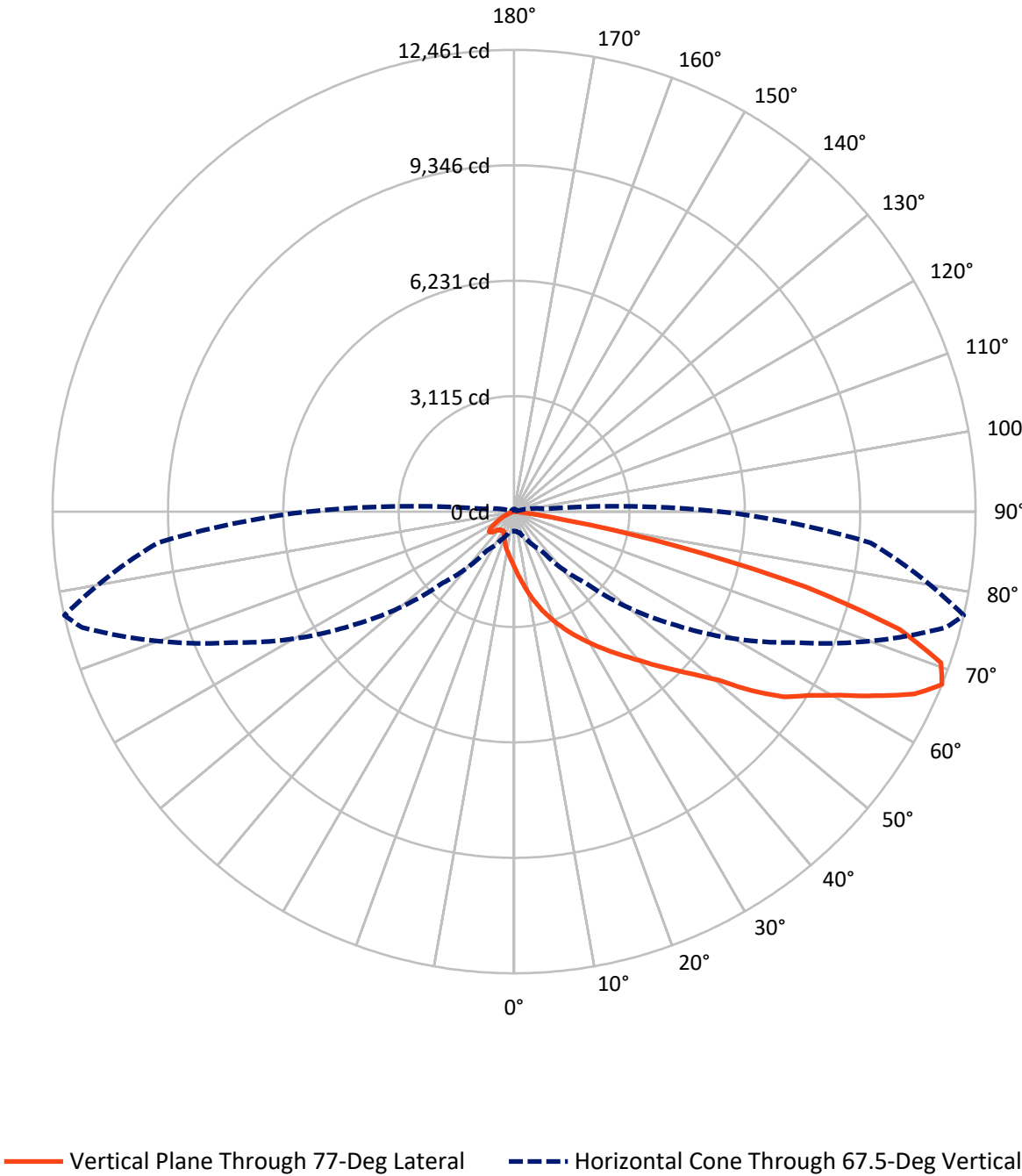
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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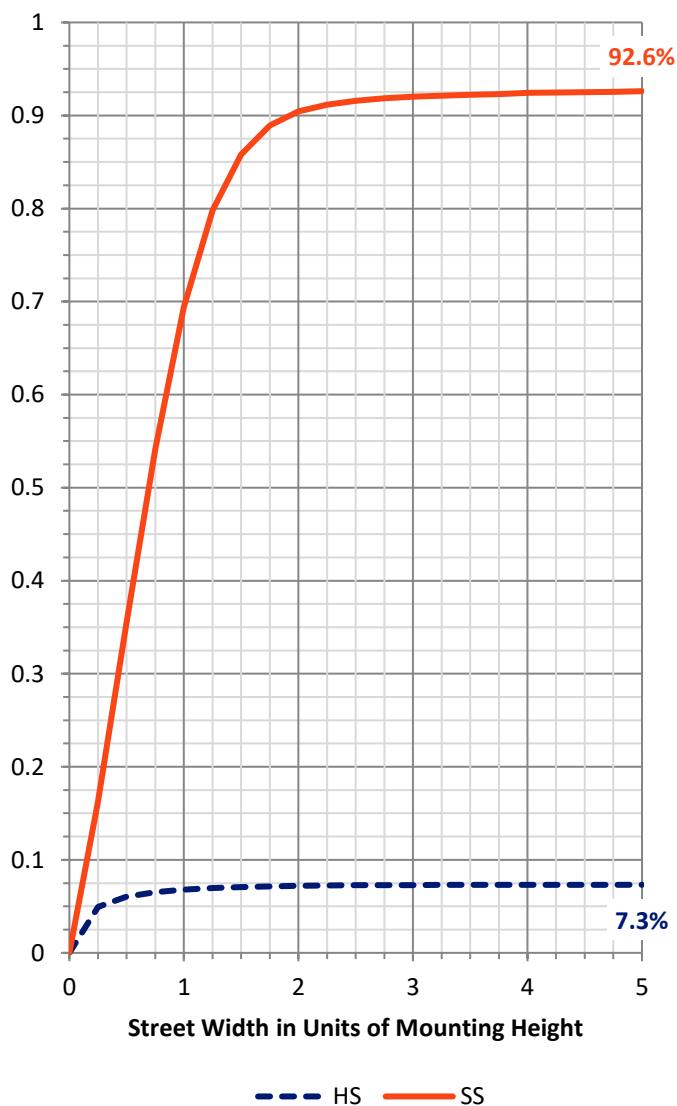
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.3	0.0	956.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12041.8	0.0	12041.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	12998.0	0.0	12998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	1.2
10°-20°	535.7	4.1
20°-30°	1033.8	8.0
30°-40°	1794.8	13.8
40°-50°	2605.9	20.0
50°-60°	2992.5	23.0
60°-70°	2598.1	20.0
70°-80°	1223.7	9.4
80°-90°	60.5	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°	12998.0	100.0
0°-180°	12998.0	100.0

Coefficient of Utilization



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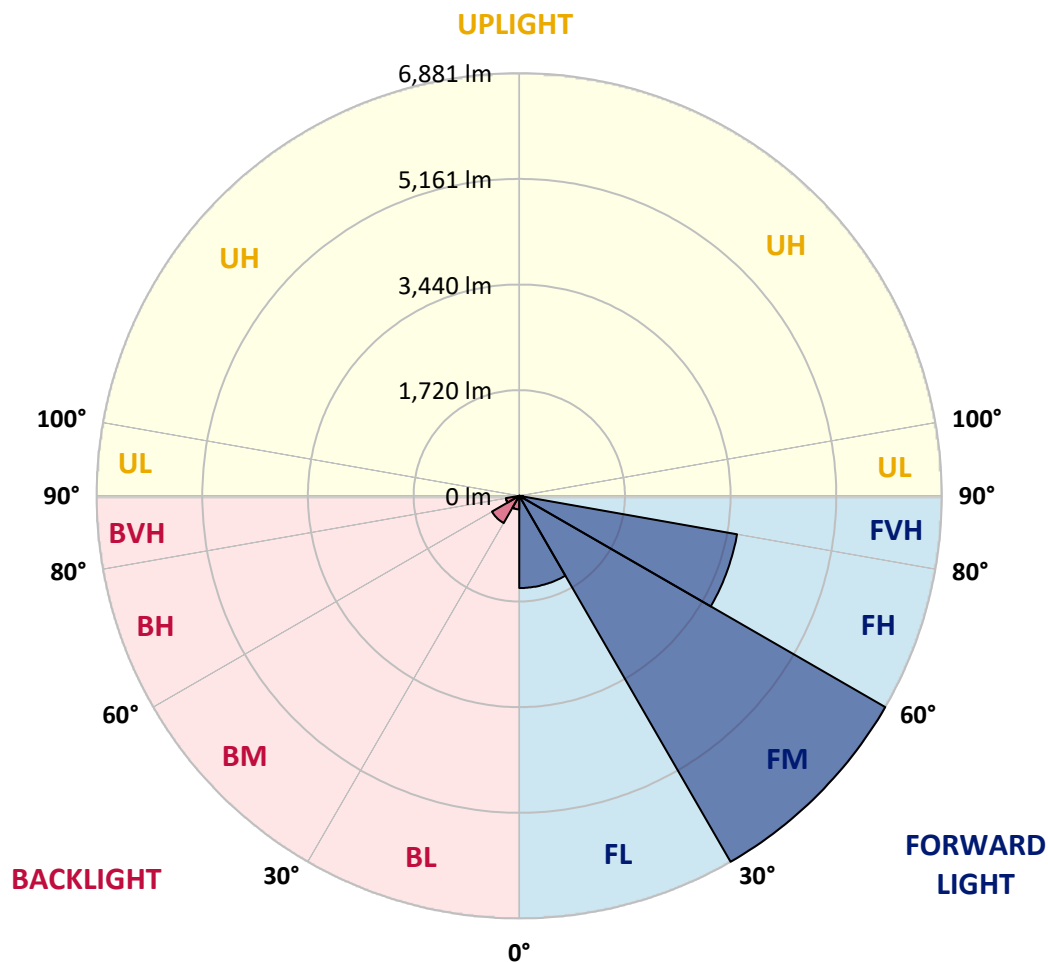
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.1	11.5			
FM	(30°-60°)	6880.8	52.9			
FH	(60°-80°)	3600.4	27.7			G2/5000
FVH	(80°-90°)	59.4	0.5			G1/100
BL	(0°-30°)	221.4	1.7	B1/500		
BM	(30°-60°)	512.4	3.9	B1/1000		
BH	(60°-80°)	221.4	1.7	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9
2.5°	2075.1	2088.0	2069.5	2034.0	1980.7	1946.1	1861.3	1781.3	1692.6	1664.3	1575.5
5°	2529.6	2540.9	2519.9	2481.1	2410.1	2342.3	2230.9	2063.8	1890.3	1834.6	1677.2
7.5°	2866.2	2872.7	2864.6	2829.0	2761.2	2684.6	2560.2	2362.5	2105.0	2043.6	1802.4
10°	3108.3	3129.3	3126.9	3113.1	3067.9	3005.8	2873.4	2648.2	2345.5	2266.5	1943.6
12.5°	3268.9	3292.3	3306.0	3336.7	3334.3	3294.8	3178.5	2940.4	2585.3	2492.5	2102.6
15°	3315.8	3340.8	3393.3	3464.3	3527.2	3547.4	3465.8	3226.9	2849.2	2730.6	2265.7
17.5°	3289.1	3327.9	3390.8	3503.0	3641.0	3732.2	3723.3	3503.8	3088.9	2953.3	2425.5
20°	3348.1	3385.2	3434.4	3528.9	3689.5	3854.9	3921.1	3768.5	3327.0	3185.0	2593.4
22.5°	3674.1	3667.7	3672.5	3687.8	3783.9	3947.7	4084.1	4009.1	3562.7	3417.5	2770.9
25°	4190.7	4161.6	4112.4	4029.3	4005.1	4084.1	4226.2	4222.2	3811.4	3655.6	2952.5
27.5°	4783.2	4778.2	4662.8	4462.6	4349.7	4319.0	4386.8	4429.6	4057.5	3891.2	3135.0
30°	5350.5	5363.4	5207.7	4984.9	4777.5	4657.2	4595.9	4626.5	4307.8	4145.5	3323.0
32.5°	5844.5	5858.3	5688.7	5428.0	5171.3	5026.1	4896.9	4821.1	4580.5	4403.8	3529.6
35°	6261.8	6275.6	6081.0	5792.9	5519.2	5387.7	5241.5	5034.2	4854.9	4690.3	3759.7
37.5°	6634.7	6630.7	6370.0	6079.4	5810.6	5706.5	5629.8	5296.5	5137.5	4978.4	4014.7
40°	6855.1	6872.0	6649.3	6328.8	6068.1	5992.3	5987.3	5621.7	5463.6	5309.4	4294.0
42.5°	6919.7	6949.5	6788.1	6524.9	6288.5	6206.1	6332.9	5973.7	5842.9	5692.7	4609.6
45°	6803.4	6832.4	6759.1	6576.6	6438.5	6385.3	6629.9	6338.5	6248.1	6099.6	4965.5
47.5°	6464.4	6500.8	6518.5	6479.7	6478.1	6532.2	6896.2	6722.7	6729.1	6577.4	5378.0
50°	5808.2	5869.6	6032.5	6169.8	6382.1	6648.5	7155.3	7139.1	7271.6	7140.8	5915.6
52.5°	4615.3	4702.4	5264.2	5639.5	6116.5	6626.6	7440.3	7807.5	8223.2	8031.9	6673.5
55°	3708.9	3708.9	4165.7	4867.8	5598.3	6482.9	7564.5	8241.7	8871.3	8826.1	7207.0
57.5°	3023.5	3059.8	3351.2	3972.0	4848.5	6140.8	7641.2	8514.6	9393.5	9360.4	7728.4
60°	1866.1	1944.4	2494.8	3107.5	3995.3	5531.3	7592.8	8790.6	10027.2	10053.8	8356.3
62.5°	1050.9	1079.9	1325.3	2235.8	3106.7	4712.1	7222.4	8944.8	10837.5	10950.5	9003.7
65°	725.6	740.2	834.6	1391.5	2153.4	3751.6	6498.3	8848.7	11649.5	11877.9	9552.5
67.5°	527.1	534.3	593.3	849.9	1277.7	2720.0	5363.4	8364.4	12079.7	12461.4	9657.4
70°	405.2	410.0	452.8	558.5	754.7	1678.8	3895.3	7401.5	11768.1	12224.2	9119.9
72.5°	329.3	334.2	367.3	413.3	500.4	992.8	2360.9	6010.8	10392.8	10885.1	7763.9
75°	277.7	284.1	314.0	343.9	392.3	637.7	1107.4	4185.8	7815.5	8138.4	5399.0
77.5°	154.2	142.1	255.0	285.0	331.0	403.5	518.1	2463.4	4377.2	4466.7	2395.6
80°	96.0	99.3	202.6	229.2	254.2	203.4	237.3	948.4	1517.4	1441.6	464.1
82.5°	5.6	12.9	155.8	165.4	174.4	87.1	89.6	322.1	365.6	335.8	82.3
85°	0.0	0.0	71.0	57.3	60.6	25.0	25.8	75.0	49.2	53.3	16.1
87.5°	0.0	0.0	0.0	1.6	0.0	2.5	4.8	6.5	2.5	3.2	5.6
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°	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9	1498.9
2.5°	1519.0	1462.6	1348.0	1235.7	1144.5	1059.7	999.3	942.0	912.9	911.2	909.7
5°	1565.1	1446.4	1217.2	1014.5	851.6	720.8	636.0	575.5	544.8	534.3	532.7
7.5°	1629.6	1451.2	1102.6	820.8	628.7	516.6	468.1	448.7	442.3	435.0	433.5
10°	1711.1	1462.6	1000.1	661.0	495.6	439.1	419.7	411.6	406.8	402.0	400.4
12.5°	1802.4	1473.0	898.3	548.9	435.8	406.8	393.1	383.3	376.9	371.3	369.7
15°	1891.1	1479.5	792.6	470.6	405.2	381.8	367.3	356.8	347.9	341.4	340.6
17.5°	1979.1	1488.4	693.3	423.7	380.2	356.8	342.2	329.3	322.1	314.8	314.0
20°	2076.8	1486.8	599.7	390.6	355.2	331.7	316.4	304.3	297.0	288.9	288.1
22.5°	2167.2	1478.7	517.4	362.4	329.3	306.7	289.8	277.7	270.4	263.9	263.1
25°	2271.3	1472.2	448.7	336.6	305.1	282.5	263.9	252.7	244.6	238.9	238.1
27.5°	2371.3	1462.6	398.7	313.1	281.7	259.9	242.1	229.2	222.0	217.9	217.9
30°	2469.8	1460.1	380.2	290.6	260.7	238.9	221.2	209.1	203.4	201.8	201.0
32.5°	2588.5	1466.6	388.3	282.5	241.3	219.6	202.6	193.7	188.1	188.1	188.1
35°	2715.2	1464.9	400.4	289.8	228.5	200.2	187.3	181.6	176.0	176.0	176.0
37.5°	2874.2	1467.4	410.0	301.9	223.6	184.0	176.8	169.5	166.3	166.3	166.3
40°	3111.5	1547.3	405.2	312.3	222.0	172.7	158.2	155.8	153.3	153.3	153.3
42.5°	3402.1	1720.9	411.6	313.1	221.2	164.6	145.2	150.2	144.5	143.7	142.9
45°	3720.1	1910.5	452.8	296.2	220.4	160.6	138.8	144.5	135.6	135.6	135.6
47.5°	4035.7	2098.6	494.8	272.0	217.9	159.8	133.1	130.0	127.5	128.3	128.3
50°	4470.7	2251.9	511.0	238.9	212.3	158.2	122.7	123.5	121.9	123.5	123.5
52.5°	4944.6	2284.2	491.6	201.8	196.2	153.3	115.4	118.7	117.9	119.4	119.4
55°	5240.0	2249.5	406.0	167.9	171.1	134.0	108.1	114.6	114.6	114.6	114.6
57.5°	5545.0	2101.8	288.1	136.4	142.1	109.8	101.7	110.6	109.8	109.0	109.0
60°	5764.6	1862.8	189.7	112.2	113.0	90.4	94.4	104.1	103.3	99.3	99.3
62.5°	5928.5	1599.0	121.9	95.2	86.4	81.5	86.4	94.4	91.2	82.3	80.7
65°	5909.9	1233.3	93.6	81.5	71.0	71.0	75.0	82.3	72.7	58.1	56.5
67.5°	5565.2	834.6	77.5	68.6	59.8	58.9	62.1	68.6	62.1	49.2	47.7
70°	4949.4	545.6	62.1	53.3	47.7	43.6	50.0	58.9	52.5	39.6	37.9
72.5°	4017.2	332.5	46.8	38.7	34.7	28.3	39.6	48.4	41.9	29.0	27.5
75°	2599.0	169.5	32.3	25.0	18.6	16.9	29.0	36.3	29.0	17.7	15.4
77.5°	994.4	71.0	17.7	11.3	9.6	8.1	16.1	21.8	12.1	4.0	3.2
80°	191.3	29.8	8.9	5.6	4.8	3.2	2.5	1.6	0.0	0.0	0.0
82.5°	33.1	9.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.0	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)