

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: P970033

Luminaire Tested: **NAV-SB6A-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19580.6 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

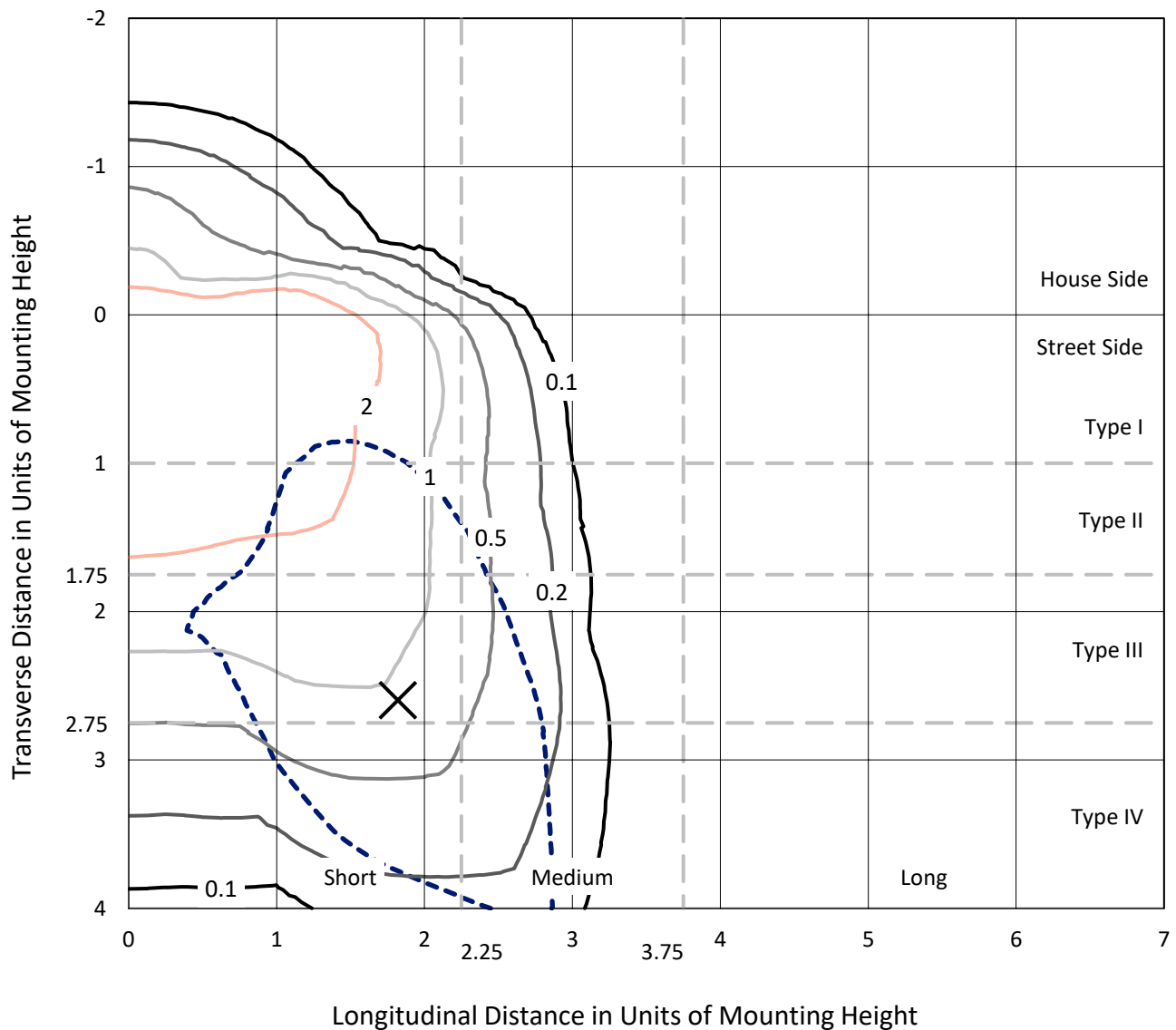
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

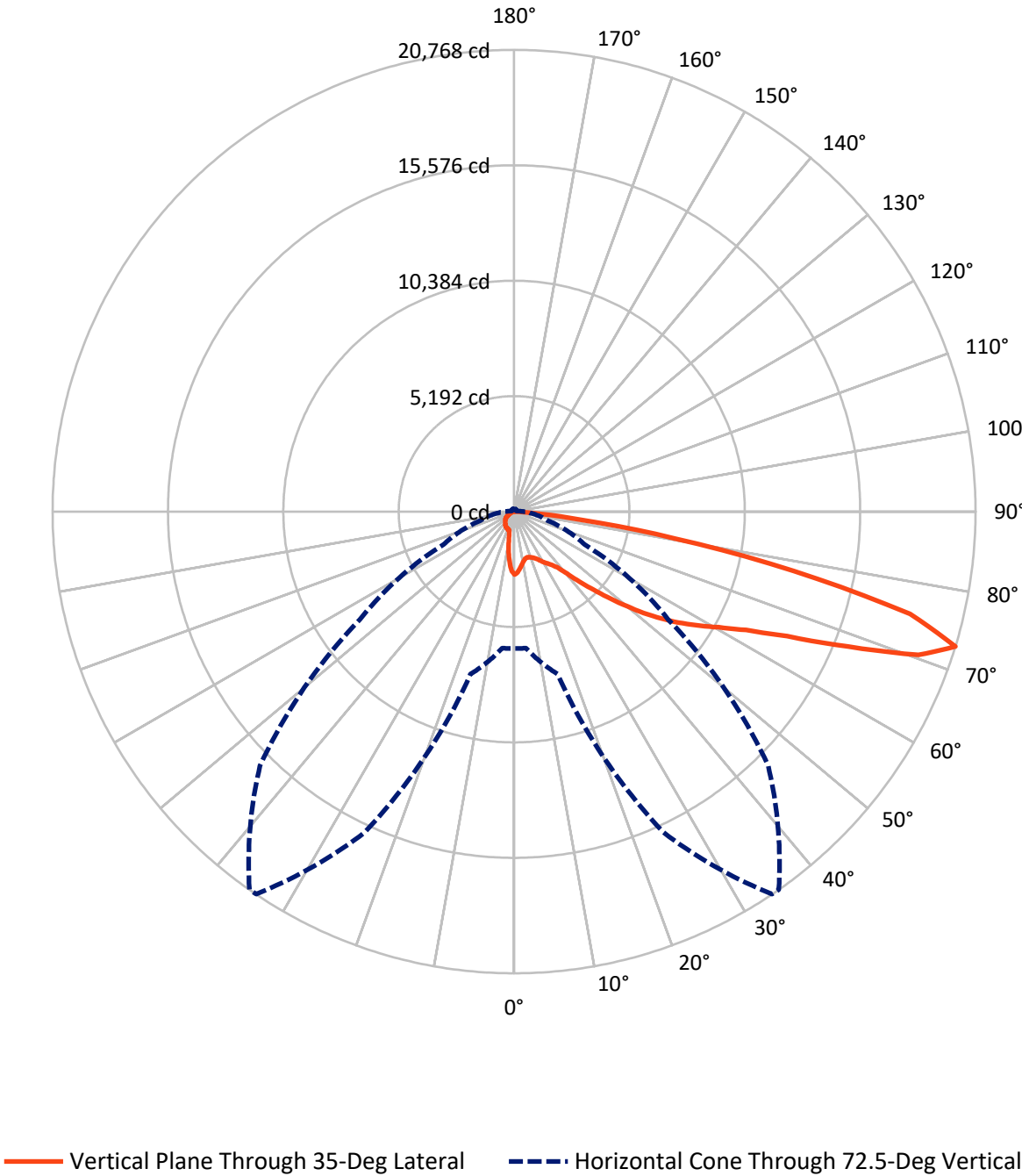
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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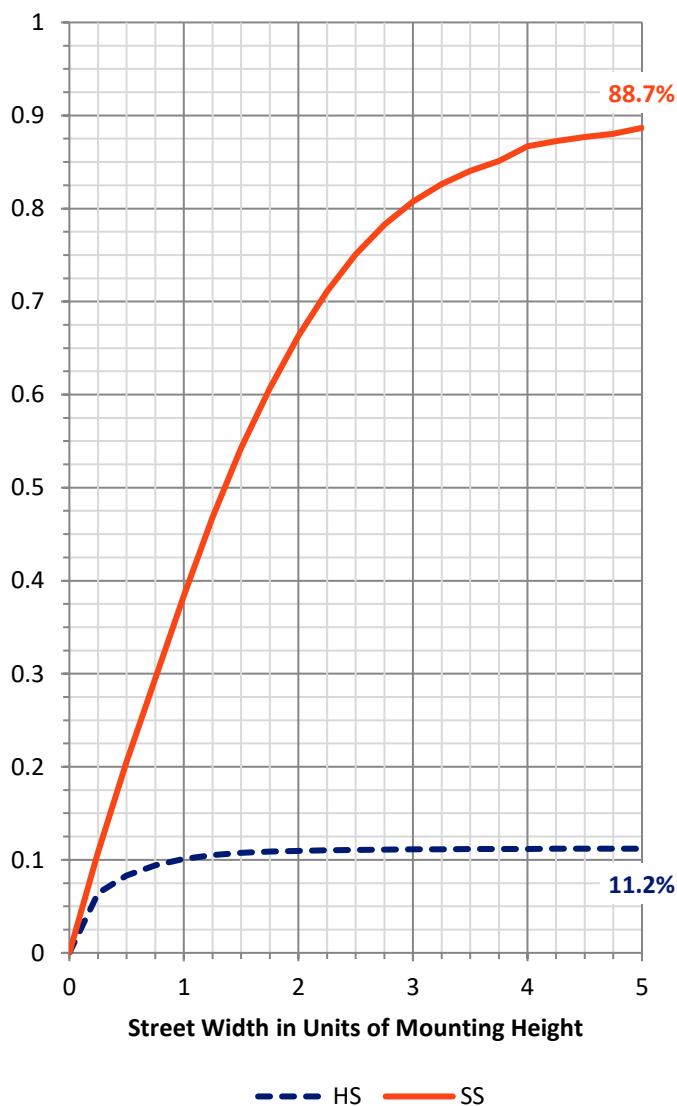
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.7	0.0	2203.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17376.9	0.0	17376.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	19580.6	0.0	19580.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	1.2
10°-20°	545.5	2.8
20°-30°	886.2	4.5
30°-40°	1478.6	7.6
40°-50°	2797.6	14.3
50°-60°	4445.4	22.7
60°-70°	5499.3	28.1
70°-80°	3418.4	17.5
80°-90°	276.3	1.4
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°	19580.6	100.0
0°-180°	19580.6	100.0

Coefficient of Utilization



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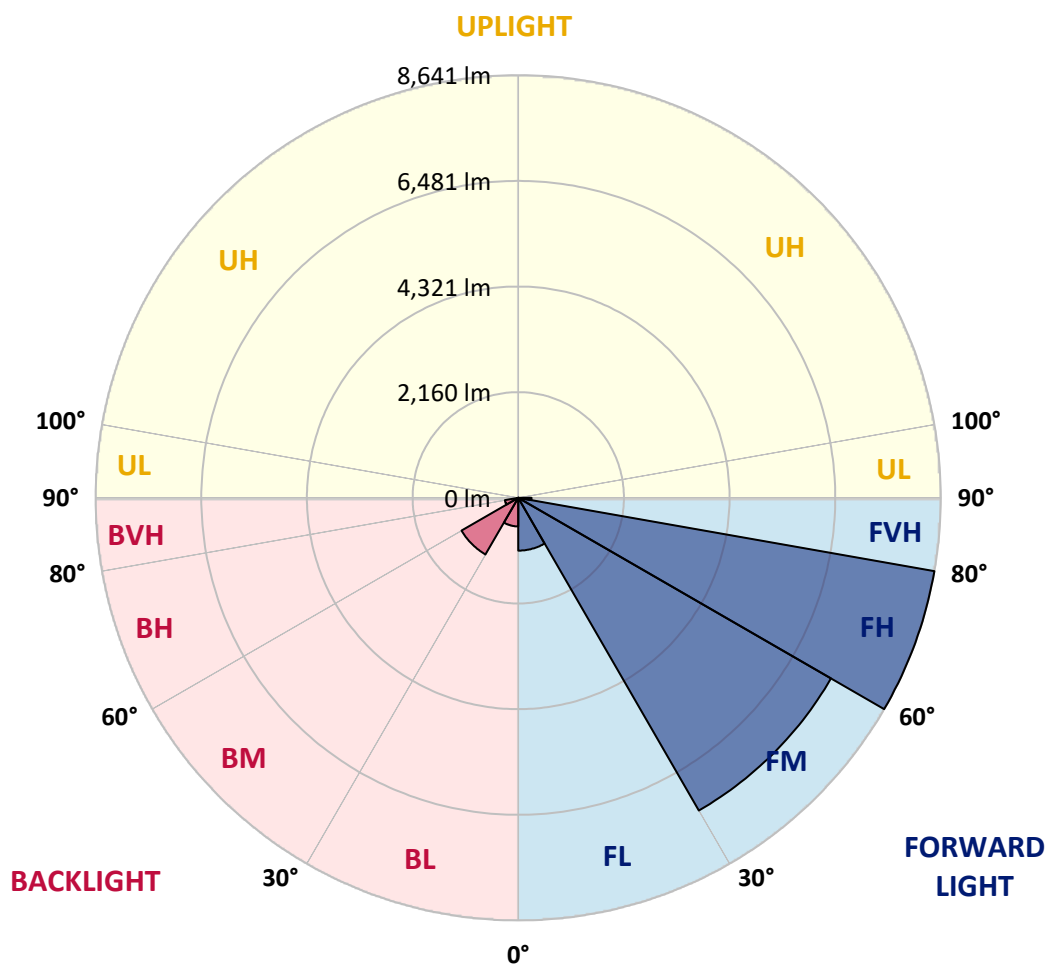
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1079.4	5.5			
FM	(30°-60°)	7383.8	37.7			
FH	(60°-80°)	8641.2	44.1			G4/12000
FVH	(80°-90°)	272.5	1.4			G3/500
BL	(0°-30°)	585.6	3.0	B2/1000		
BM	(30°-60°)	1337.9	6.8	B2/2500		
BH	(60°-80°)	276.5	1.4	B1/500		G1/500
BVH	(80°-90°)	3.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9
2.5°	2711.6	2734.6	2738.9	2746.1	2746.1	2754.7	2769.0	2789.1	2822.1	2839.4	2850.8
5°	2499.3	2516.5	2538.0	2555.2	2588.2	2592.5	2648.5	2703.0	2779.1	2836.5	2876.7
7.5°	2285.5	2305.6	2334.3	2376.0	2418.9	2431.8	2516.5	2608.3	2728.9	2836.5	2903.9
10°	2134.9	2136.3	2162.1	2203.8	2272.6	2288.4	2391.6	2522.2	2672.9	2819.3	2929.7
12.5°	2050.2	2060.2	2071.7	2103.3	2169.3	2179.4	2289.8	2443.3	2616.9	2809.2	2959.8
15°	2050.2	2057.4	2064.6	2080.3	2133.4	2142.0	2239.6	2393.1	2588.2	2813.5	3008.6
17.5°	2071.7	2083.2	2077.5	2096.1	2152.1	2157.8	2243.9	2378.8	2586.8	2840.8	3083.2
20°	2123.4	2132.0	2120.5	2132.0	2188.0	2199.4	2288.4	2406.0	2611.2	2888.1	3176.5
22.5°	2205.2	2209.5	2182.2	2190.8	2248.2	2262.6	2365.9	2483.5	2670.0	2964.1	3301.3
25°	2308.5	2317.1	2275.5	2285.5	2340.1	2357.3	2476.3	2599.7	2763.3	3068.8	3460.5
27.5°	2427.5	2431.8	2395.9	2394.5	2464.8	2489.2	2609.8	2743.2	2888.1	3200.9	3661.4
30°	2563.8	2576.7	2542.3	2536.6	2625.5	2645.6	2764.7	2919.6	3071.7	3398.9	3947.0
32.5°	2671.5	2681.5	2661.4	2675.8	2766.2	2782.0	2952.6	3169.3	3360.2	3680.1	4335.8
35°	2826.4	2832.2	2786.3	2812.1	2915.4	2955.5	3209.5	3519.3	3723.1	4033.0	4843.6
37.5°	3387.4	3387.4	3192.3	3064.5	3163.6	3199.4	3561.0	3959.9	4170.7	4506.5	5483.5
40°	4163.5	4150.6	3865.2	3604.0	3591.1	3661.4	4061.7	4515.0	4748.9	5074.6	6203.7
42.5°	4991.4	4971.4	4582.5	4324.3	4281.2	4305.6	4639.9	5199.4	5437.6	5767.6	6978.5
45°	5726.0	5720.2	5364.4	5017.3	4939.8	5017.3	5361.6	6000.0	6170.7	6518.0	7751.8
47.5°	6341.5	6341.5	6081.8	5855.1	5814.9	5860.8	6338.6	6888.1	6872.3	7317.1	8505.0
50°	7050.3	7044.5	6797.7	6700.1	6741.7	6806.3	7463.4	7823.5	7598.3	8101.9	9178.0
52.5°	7546.7	7581.1	7496.4	7480.7	7693.0	7804.9	8605.5	8738.9	8248.2	8846.5	9681.5
55°	7939.8	7979.9	8077.5	8188.0	8596.9	8743.2	9711.7	9606.9	8791.9	9492.1	9971.3
57.5°	8496.4	8439.0	8589.7	8807.7	9469.2	9645.7	10783.4	10426.1	9229.6	10015.8	10002.9
60°	9172.2	9180.8	9206.7	9482.1	10340.1	10566.7	11839.4	11200.9	9510.8	10337.2	9652.8
62.5°	9984.2	9997.1	10050.2	10473.4	11509.3	11723.1	12964.2	11835.1	9639.9	10246.8	8749.0
65°	9928.3	9982.8	10575.3	12022.9	13287.0	13497.9	14276.9	12279.8	9444.8	9420.4	7123.4
67.5°	9044.5	9133.5	10124.8	13873.8	15967.0	16202.3	15863.7	12367.3	8602.6	7325.7	4647.0
70°	7885.2	7916.8	9109.1	15538.1	19070.3	19308.5	17284.1	11404.7	6528.0	4086.1	2081.8
72.5°	6157.8	6165.0	7563.9	15924.0	20754.7	20767.6	16169.4	8466.3	3510.7	1569.6	723.1
75°	4398.9	4355.8	5066.0	12914.0	18259.8	18406.0	12122.0	3971.4	1341.4	741.8	360.1
77.5°	2358.7	2406.0	2866.6	7658.6	12614.1	12863.7	6614.1	1144.9	683.0	505.0	238.2
80°	728.9	769.1	1175.1	3506.4	7145.0	7295.5	2451.9	509.3	476.3	360.1	156.4
82.5°	229.6	238.2	548.1	1473.4	2965.5	3034.4	710.2	288.3	325.6	238.2	91.8
85°	66.0	67.4	244.0	549.5	733.2	747.5	199.5	111.9	186.5	147.8	47.4
87.5°	7.2	23.0	91.8	91.8	64.6	63.1	21.5	24.4	53.1	18.7	8.6
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°	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9	2837.9
2.5°	2843.7	2845.1	2826.4	2794.9	2760.4	2731.7	2695.9	2667.2	2647.1	2641.3	2651.4
5°	2863.7	2853.7	2800.6	2704.5	2589.7	2490.6	2380.3	2292.7	2235.3	2210.9	2219.5
7.5°	2893.9	2865.2	2748.9	2559.5	2340.1	2144.9	1946.9	1793.4	1695.9	1647.1	1654.2
10°	2919.6	2862.3	2662.8	2350.1	2014.3	1718.8	1451.9	1266.9	1163.6	1114.8	1116.2
12.5°	2944.0	2860.9	2550.9	2101.9	1647.1	1285.6	1037.3	945.5	916.8	906.7	903.8
15°	2989.9	2865.2	2410.3	1817.8	1281.2	971.3	880.9	879.4	885.2	882.3	880.9
17.5°	3053.1	2869.5	2251.1	1516.5	988.5	856.5	852.2	865.1	873.7	869.4	868.0
20°	3134.9	2886.7	2081.8	1218.1	849.3	827.8	837.8	849.3	856.5	849.3	847.9
22.5°	3249.7	2916.8	1896.7	978.5	804.8	810.6	819.2	832.1	839.3	829.2	827.8
25°	3390.3	2964.1	1714.5	850.7	783.4	790.6	803.4	817.7	826.4	816.3	814.9
27.5°	3572.4	3040.1	1546.6	822.0	761.9	766.2	784.8	806.3	817.7	804.8	804.8
30°	3836.5	3165.0	1401.7	835.0	749.0	738.9	764.8	794.9	807.7	796.2	794.9
32.5°	4186.5	3341.5	1312.8	855.1	743.2	707.4	731.7	770.5	792.0	784.8	784.8
35°	4645.6	3609.7	1278.4	878.0	738.9	674.3	691.6	733.2	770.5	777.7	777.7
37.5°	5202.3	3982.7	1288.4	888.1	726.0	647.1	655.7	691.6	740.4	763.3	769.1
40°	5835.0	4417.5	1345.7	878.0	711.7	624.1	625.6	652.8	695.9	730.3	741.8
42.5°	6487.8	4925.4	1451.9	840.7	698.7	604.0	599.7	618.4	647.1	671.5	681.5
45°	7109.1	5447.7	1556.7	789.1	683.0	583.9	573.9	581.1	586.8	596.9	602.6
47.5°	7651.4	5814.9	1526.5	741.8	661.4	561.0	543.8	540.9	523.7	522.2	520.8
50°	8025.9	5895.3	1355.8	694.4	629.9	535.2	507.9	490.7	460.5	446.2	447.6
52.5°	8145.0	5578.2	1107.6	647.1	578.2	500.7	462.0	434.7	397.4	384.5	383.0
55°	7987.1	4957.0	885.2	589.7	506.5	454.8	411.7	375.9	345.7	329.9	329.9
57.5°	7601.2	4166.4	700.2	522.2	430.4	403.1	360.1	324.2	298.4	282.6	279.7
60°	6961.3	3308.5	553.8	441.9	367.3	347.2	302.7	279.7	256.9	238.2	233.9
62.5°	5990.0	2361.6	434.7	350.0	307.0	284.0	258.3	241.1	213.8	188.0	183.7
65°	4674.3	1444.7	335.7	256.9	246.8	235.3	219.6	203.8	170.8	144.9	140.6
67.5°	2948.3	684.4	239.6	193.7	195.2	189.4	182.2	169.3	144.9	122.0	119.1
70°	1298.5	331.4	157.8	147.8	144.9	144.9	150.7	146.4	123.4	101.9	97.6
72.5°	441.9	177.9	117.7	111.9	104.8	103.3	126.3	122.0	99.0	78.9	74.6
75°	231.0	119.1	86.1	80.4	63.1	76.1	100.4	94.7	70.3	51.7	47.4
77.5°	150.7	84.7	58.8	51.7	35.9	50.2	74.6	66.0	41.6	25.8	23.0
80°	94.7	56.0	34.4	24.4	17.2	27.3	40.2	28.7	15.8	5.7	4.3
82.5°	50.2	28.7	12.9	8.6	7.2	8.6	10.0	7.2	2.9	0.0	0.0
85°	20.1	10.0	4.3	2.9	1.4	0.0	2.9	1.4	0.0	0.0	0.0
87.5°	7.2	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)