

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: P883266

Luminaire Tested: **NAV-SB3C-740-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3C-740-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

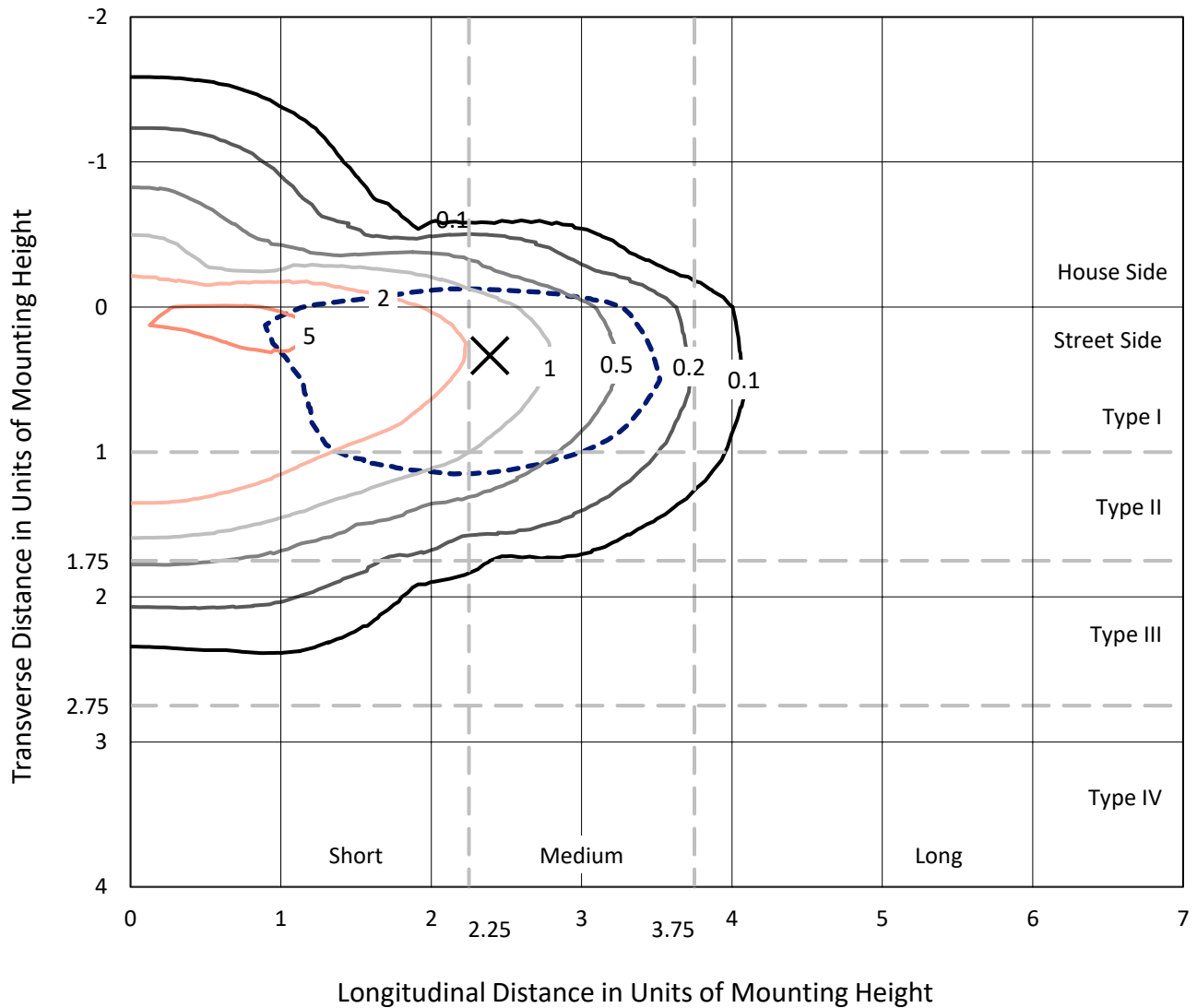
Lumens per Lamp: N/A  
Luminaire Lumens: 17685 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.259  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.297  
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

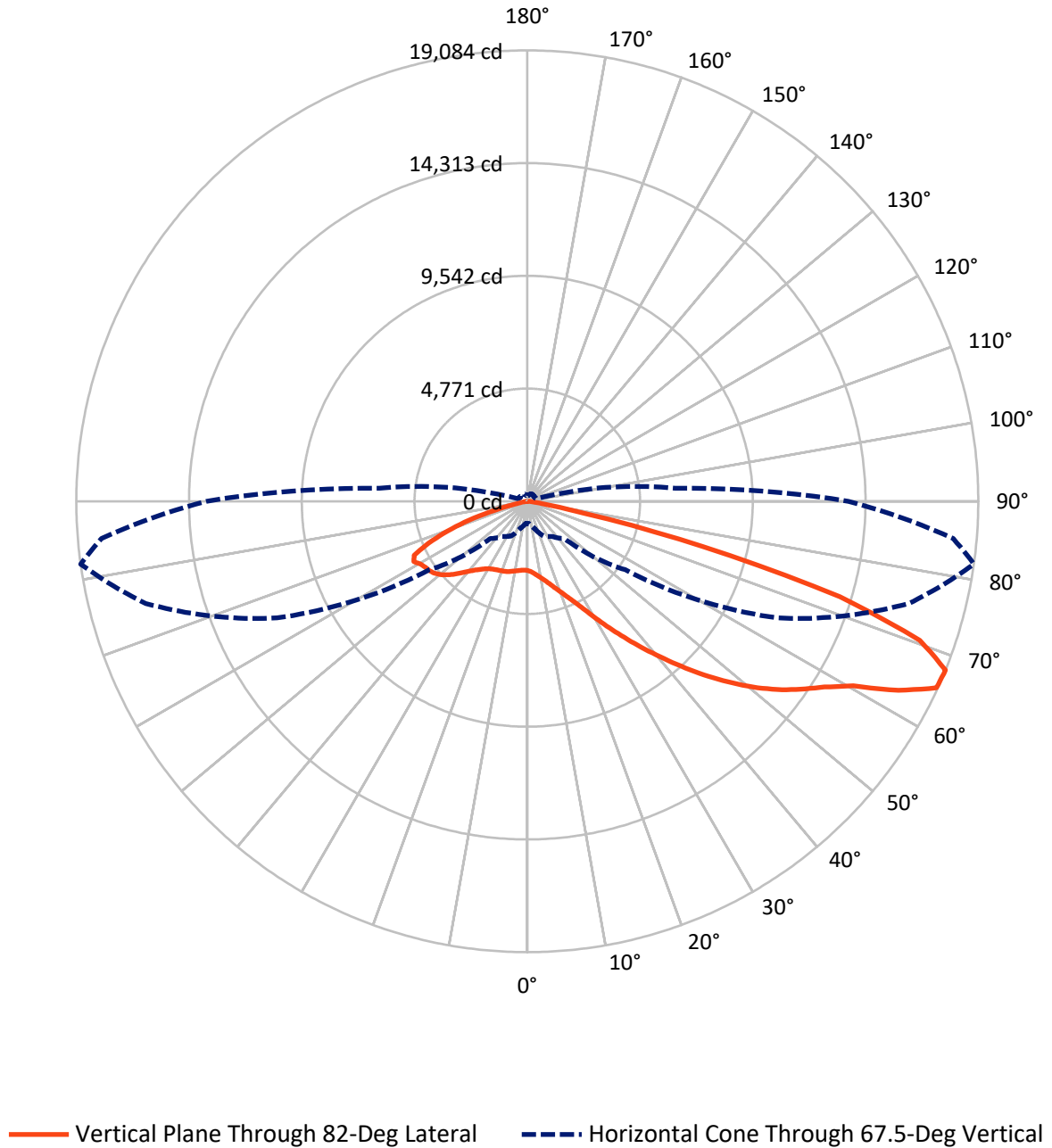
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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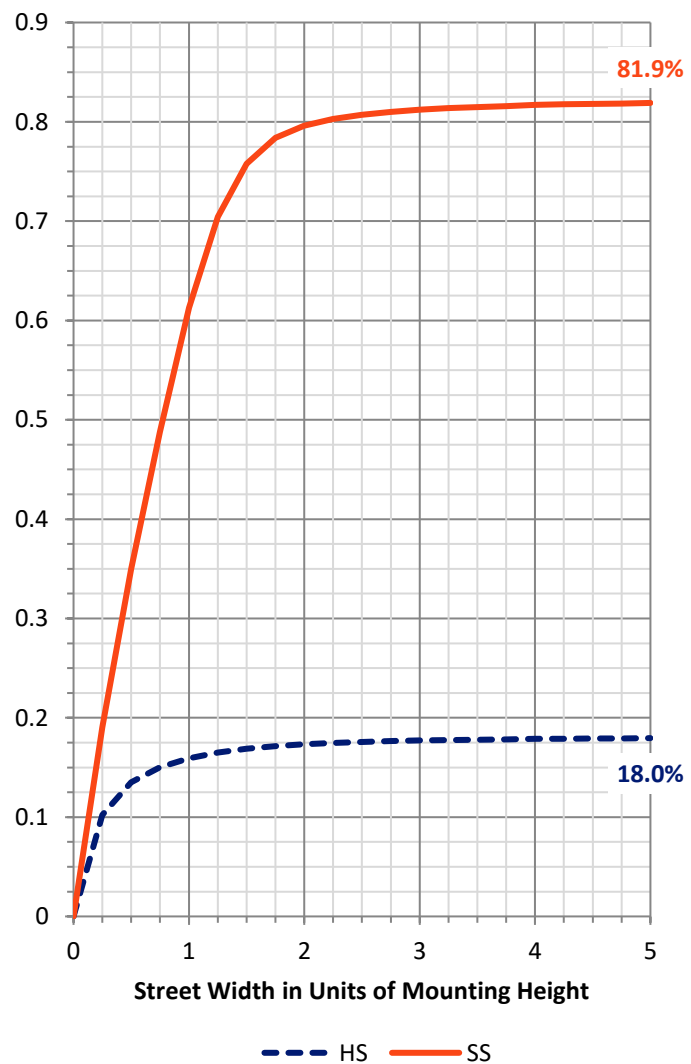
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3203.5	0.0	3203.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	14481.5	0.0	14481.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	17685.0	0.0	17685.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	1.5
10°-20°	678.3	3.8
20°-30°	1086.4	6.1
30°-40°	1921.1	10.9
40°-50°	3366.0	19.0
50°-60°	4489.3	25.4
60°-70°	4179.3	23.6
70°-80°	1604.0	9.1
80°-90°	99.6	0.6
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°	17685.0	100.0
0°-180°	17685.0	100.0

**Coefficient of Utilization**



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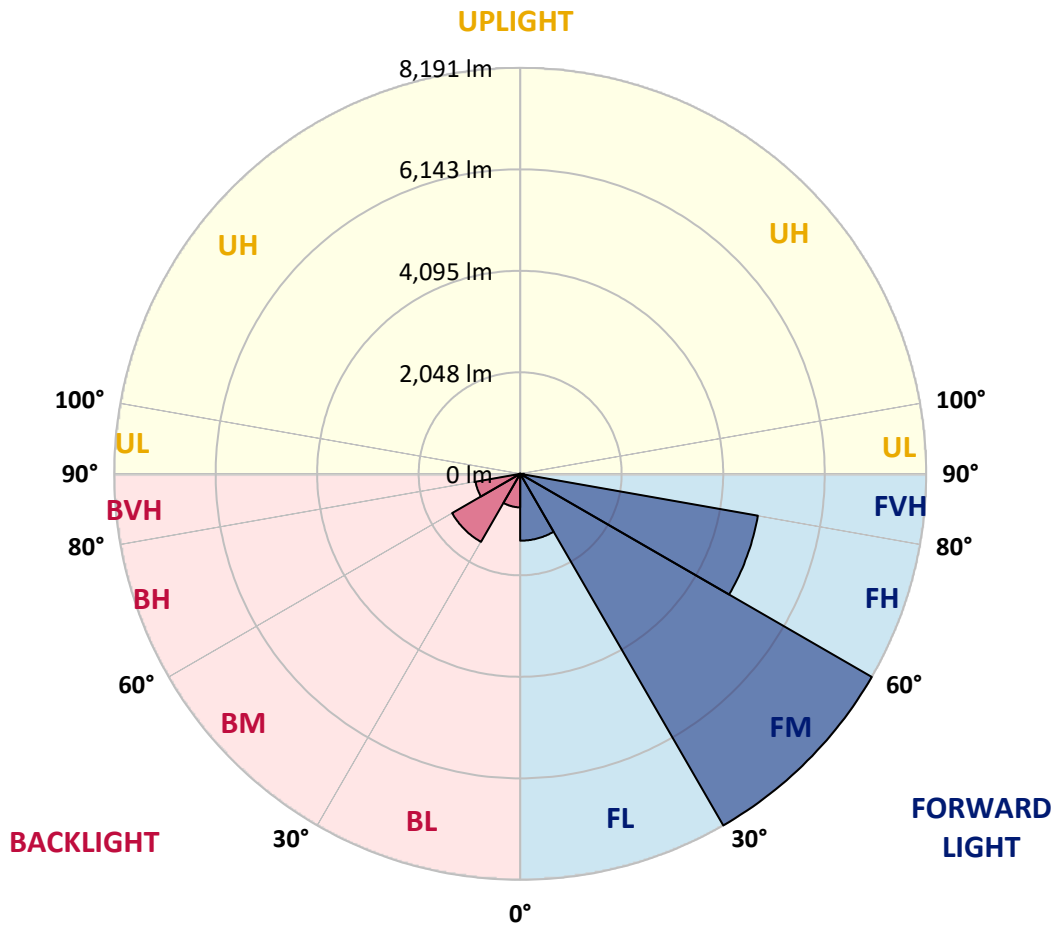
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.2	7.6			
FM (30°-60°)	8191.0	46.3			
FH (60°-80°)	4868.9	27.5			G2/5000
FVH (80°-90°)	72.4	0.4			G1/100
BL (0°-30°)	676.6	3.8	B2/1000		
BM (30°-60°)	1585.4	9.0	B2/2500		
BH (60°-80°)	914.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8
2.5°	3096.6	3114.4	3104.2	3099.2	3090.2	3077.5	3067.3	3035.5	3002.4	2980.7	2973.1
5°	3159.0	3176.8	3175.5	3180.6	3187.0	3190.8	3188.3	3152.6	3105.5	3068.6	3046.9
7.5°	3105.5	3125.9	3142.4	3167.9	3212.5	3259.6	3282.5	3274.9	3226.5	3175.5	3148.8
10°	2954.0	2975.6	3015.1	3075.0	3169.2	3271.0	3356.4	3395.8	3365.3	3309.2	3272.3
12.5°	2676.4	2698.1	2775.7	2905.6	3063.5	3240.5	3403.5	3509.1	3516.8	3460.8	3417.5
15°	2364.5	2386.1	2468.9	2631.9	2872.5	3156.4	3428.9	3628.8	3696.3	3647.9	3595.7
17.5°	2170.9	2190.0	2252.4	2383.6	2634.4	2988.4	3420.0	3756.2	3910.2	3872.0	3809.6
20°	2112.4	2128.9	2158.2	2249.9	2458.7	2813.9	3361.4	3875.8	4140.7	4119.0	4049.0
22.5°	2174.8	2190.0	2198.9	2239.7	2370.8	2699.3	3287.6	3998.1	4408.1	4410.6	4325.3
25°	2318.6	2333.9	2323.7	2349.2	2406.5	2663.7	3259.6	4142.0	4744.2	4772.2	4675.5
27.5°	2555.5	2556.7	2532.5	2531.3	2540.2	2717.2	3288.9	4296.0	5168.2	5220.4	5100.7
30°	3030.4	3011.3	2918.3	2817.8	2771.9	2877.6	3370.4	4478.1	5668.6	5761.6	5611.3
32.5°	3762.5	3734.5	3563.9	3323.2	3081.3	3136.1	3516.8	4685.7	6213.6	6381.7	6198.3
35°	4557.1	4549.4	4371.2	4013.4	3590.6	3504.1	3754.9	4958.1	6808.2	7075.6	6857.9
37.5°	5295.6	5291.7	5189.9	4768.4	4254.0	4017.2	4136.9	5314.7	7444.8	7831.9	7574.7
40°	5970.4	5981.8	5880.0	5503.1	4984.9	4675.5	4656.4	5755.2	8152.8	8655.7	8350.1
42.5°	6553.5	6566.3	6463.1	6184.3	5706.8	5403.8	5294.3	6295.1	8844.2	9540.7	9179.0
45°	6949.5	7028.5	7013.2	6790.4	6447.9	6133.4	6060.8	6972.5	9632.3	10479.1	10055.1
47.5°	7061.6	7134.2	7248.8	7279.3	7070.5	6761.1	6847.7	7788.6	10429.4	11418.7	10936.2
50°	6785.3	6852.8	7090.9	7407.9	7553.1	7457.6	7612.9	8663.4	11245.6	12355.9	11800.7
52.5°	6240.3	6309.1	6609.6	7111.2	7703.3	8003.8	8380.7	9525.4	12036.3	13243.3	12619.4
55°	5452.2	5524.7	5910.5	6478.4	7416.8	8229.2	9021.2	10386.1	12760.8	14041.7	13357.9
57.5°	4380.1	4433.5	4834.6	5629.1	6696.2	8005.1	9493.5	11325.8	13443.2	14826.0	14090.1
60°	2854.7	2901.8	3367.8	4254.0	5501.8	7256.4	9587.8	12373.7	14349.8	15845.9	15076.9
62.5°	1898.5	1930.3	2206.6	2857.2	3874.6	5818.9	9036.4	13210.2	15679.1	17620.9	16769.0
65°	1302.6	1334.4	1610.7	2064.0	2503.3	3849.1	7451.2	13099.5	16883.6	19030.4	18023.2
67.5°	929.5	956.2	1190.5	1618.3	1811.9	2235.9	5051.1	11683.6	16710.5	19083.8	18090.7
70°	665.9	681.2	874.7	1260.5	1440.1	1343.3	2808.8	8935.8	14631.2	17622.1	16713.0
72.5°	466.0	471.1	607.4	960.0	1160.0	980.4	1336.9	5957.7	11066.0	13831.6	12956.8
75°	315.8	322.1	408.7	704.1	930.8	748.7	707.9	3194.6	6496.2	7656.2	6863.0
77.5°	193.5	196.1	263.6	481.3	696.5	570.4	455.8	1353.5	2513.4	2467.6	2103.5
80°	109.5	109.5	168.1	299.2	474.9	368.0	319.6	575.5	795.8	699.0	616.3
82.5°	61.1	62.4	122.2	185.9	314.5	217.7	175.7	266.1	343.8	304.3	264.8
85°	25.5	28.0	75.1	87.9	150.2	108.2	71.3	112.0	127.3	113.3	82.8
87.5°	2.5	3.8	22.9	16.6	17.8	21.6	10.2	21.6	17.8	17.8	12.7
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°	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8
2.5°	2948.9	2929.8	2881.4	2825.4	2751.5	2715.9	2667.5	2634.4	2606.4	2608.9	2583.5
5°	3006.2	2957.8	2849.6	2714.6	2546.6	2426.9	2299.5	2211.7	2140.4	2125.1	2090.7
7.5°	3085.1	3008.7	2819.0	2575.8	2291.9	2076.7	1884.4	1760.9	1673.1	1645.1	1617.1
10°	3187.0	3076.2	2779.6	2401.4	1992.7	1718.9	1512.7	1415.9	1356.0	1335.7	1320.4
12.5°	3305.4	3153.9	2727.4	2188.8	1684.5	1421.0	1289.8	1241.4	1222.3	1216.0	1212.2
15°	3454.4	3250.7	2648.4	1936.7	1423.5	1238.9	1182.9	1176.5	1179.1	1176.5	1175.2
17.5°	3631.4	3356.4	2519.8	1676.9	1247.8	1145.9	1125.6	1130.7	1137.0	1135.8	1133.2
20°	3824.9	3460.8	2355.6	1446.4	1128.1	1079.7	1068.3	1073.4	1078.5	1075.9	1074.6
22.5°	4045.2	3572.8	2173.5	1266.9	1047.9	1018.6	1005.9	1007.2	1007.2	1002.1	999.5
25°	4308.8	3696.3	1982.5	1139.6	986.8	963.9	948.6	943.5	935.9	920.6	918.0
27.5°	4623.3	3827.5	1799.1	1050.5	938.4	916.8	898.9	886.2	867.1	841.6	839.1
30°	4977.2	3986.6	1643.8	994.4	900.2	878.6	858.2	839.1	811.1	779.2	776.7
32.5°	5393.6	4157.2	1530.5	957.5	865.8	842.9	818.7	795.8	765.2	733.4	734.7
35°	5890.2	4363.5	1464.3	932.0	839.1	808.5	781.8	756.3	733.4	705.4	702.8
37.5°	6428.8	4582.5	1443.9	919.3	821.3	774.2	743.6	725.8	723.2	706.7	705.4
40°	7018.3	4842.3	1459.2	911.7	802.2	741.0	707.9	704.1	710.5	681.2	682.5
42.5°	7642.2	5150.4	1484.6	902.8	775.4	707.9	676.1	676.1	671.0	630.3	630.3
45°	8317.0	5505.6	1510.1	881.1	743.6	674.8	650.6	641.7	620.1	580.6	579.3
47.5°	8997.0	5867.3	1529.2	841.6	705.4	646.8	625.2	604.8	573.0	537.3	536.0
50°	9642.5	6191.9	1508.8	783.1	662.1	620.1	597.2	569.2	534.8	510.6	506.8
52.5°	10219.3	6473.3	1422.2	714.3	616.3	592.1	571.7	542.4	514.4	488.9	486.4
55°	10721.0	6701.2	1269.5	649.4	575.5	567.9	547.5	510.6	472.4	450.7	448.2
57.5°	11202.3	6874.4	1078.5	595.9	538.6	541.1	510.6	477.5	441.8	418.9	416.4
60°	11842.7	7106.1	884.9	546.2	499.1	506.8	473.7	449.5	404.9	375.6	371.8
62.5°	12866.4	7466.5	702.8	485.1	453.3	455.8	441.8	412.5	359.1	324.7	322.1
65°	13678.8	7334.1	553.9	418.9	401.1	404.9	404.9	373.1	315.8	276.3	272.5
67.5°	13587.1	6279.8	441.8	354.0	351.4	354.0	362.9	336.1	280.1	248.3	243.2
70°	12516.3	4995.1	354.0	294.1	305.6	299.2	324.7	306.9	252.1	220.3	216.5
72.5°	10212.9	3598.3	269.9	243.2	234.3	244.5	292.9	276.3	210.1	174.4	170.6
75°	5967.8	1920.1	201.2	192.3	169.3	203.7	259.7	235.6	160.4	128.6	124.8
77.5°	1943.0	669.7	147.7	141.3	126.1	164.3	221.5	198.6	131.1	101.9	98.0
80°	520.8	202.5	100.6	92.9	81.5	122.2	175.7	157.9	94.2	66.2	64.9
82.5°	208.8	85.3	58.6	52.2	44.6	84.0	138.8	127.3	70.0	42.0	42.0
85°	67.5	28.0	21.6	16.6	20.4	52.2	82.8	86.6	49.7	21.6	16.6
87.5°	8.9	3.8	3.8	5.1	3.8	8.9	25.5	24.2	14.0	2.5	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)