Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P964567

Luminaire Tested: **NAV-SB3C-735-U-T2-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P964567
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	LUMARK
Catalog Number:	NAV-SB3C-735-U-T2-HSS
Description:	NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE (3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16818.2 lumens
Efficiency:	N/A
Efficacy:	112.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G2
Input Watts (W):	149.1
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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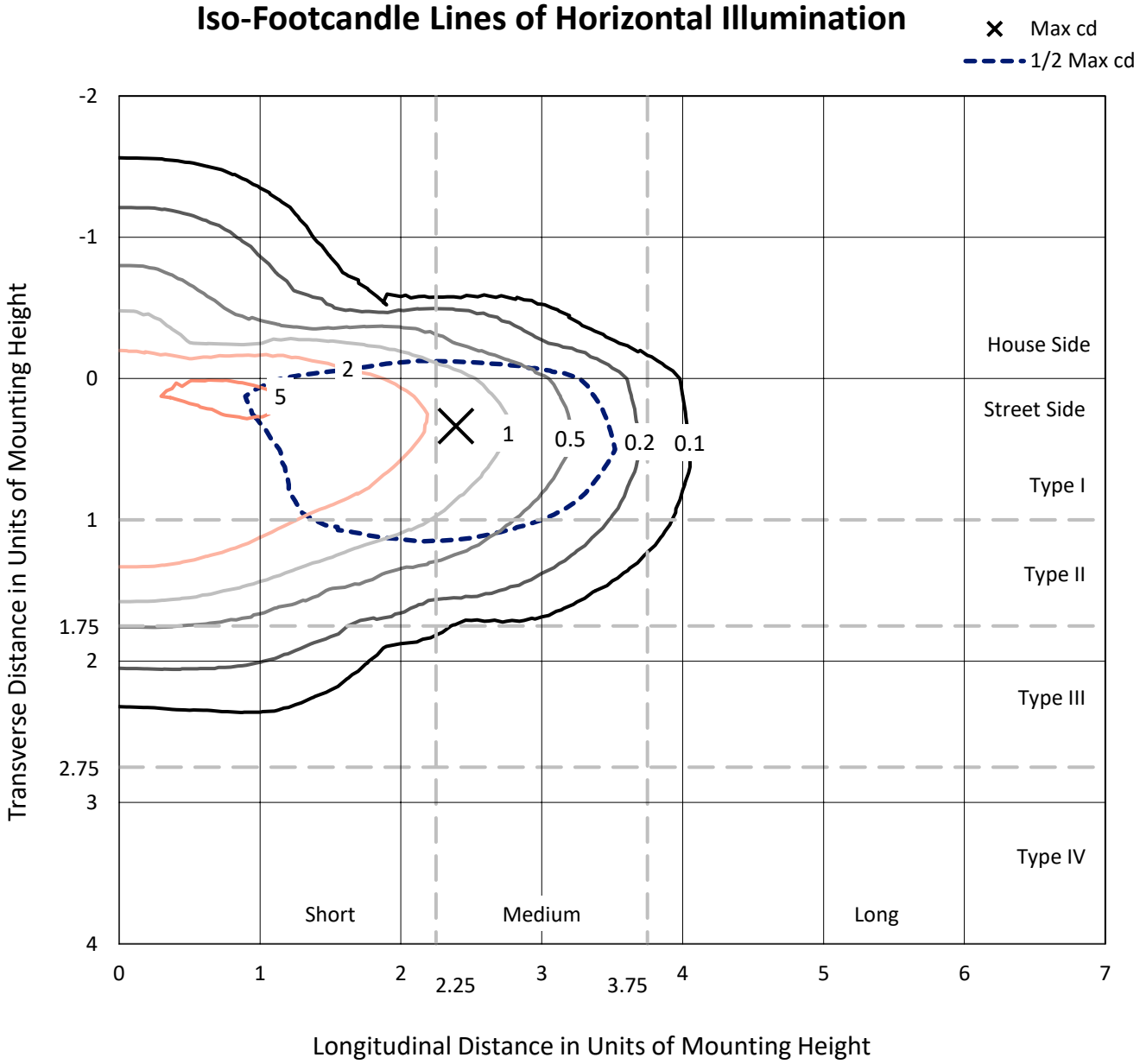
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Medium - N/A

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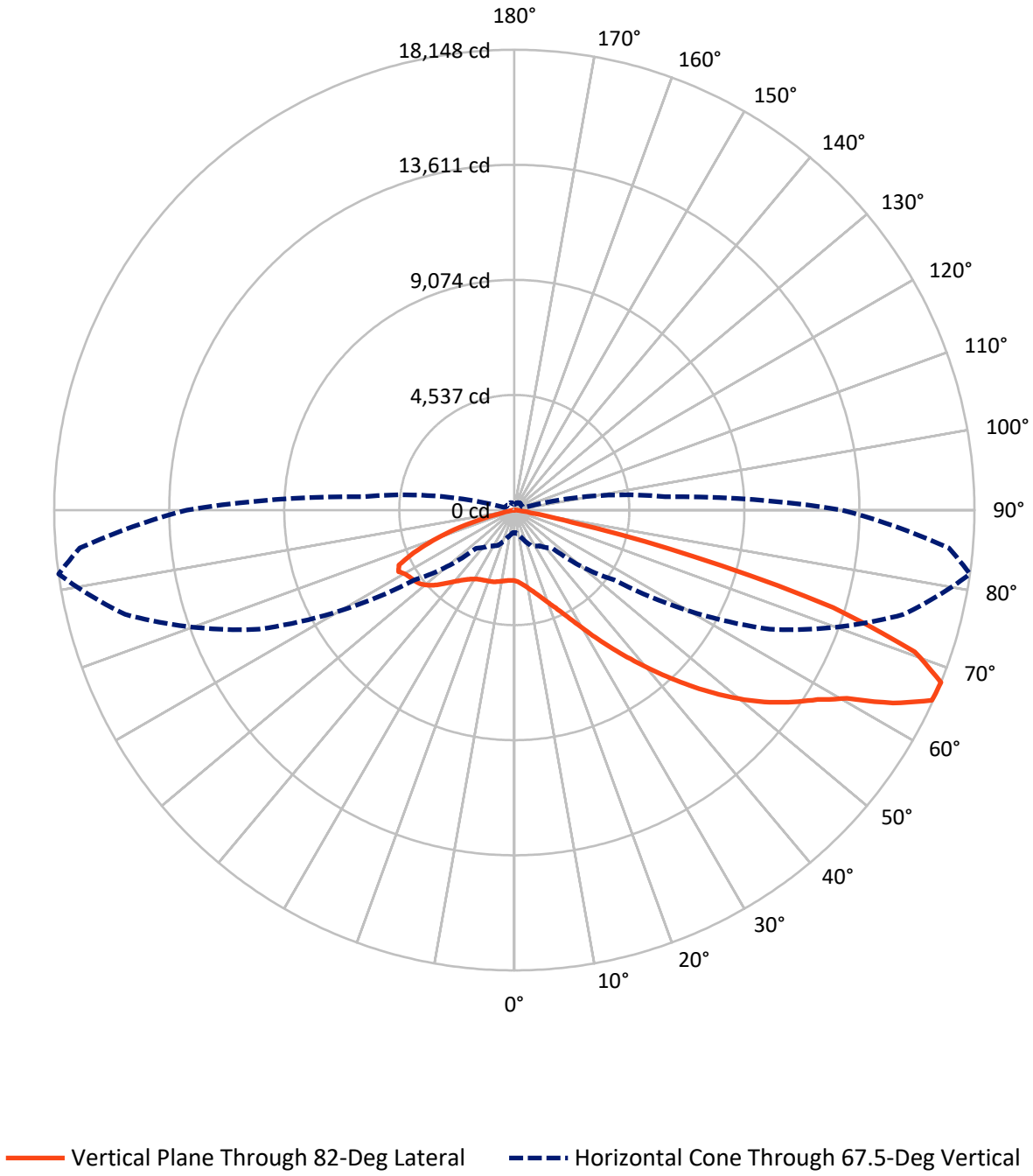
Luminous Intensity Polar Plot



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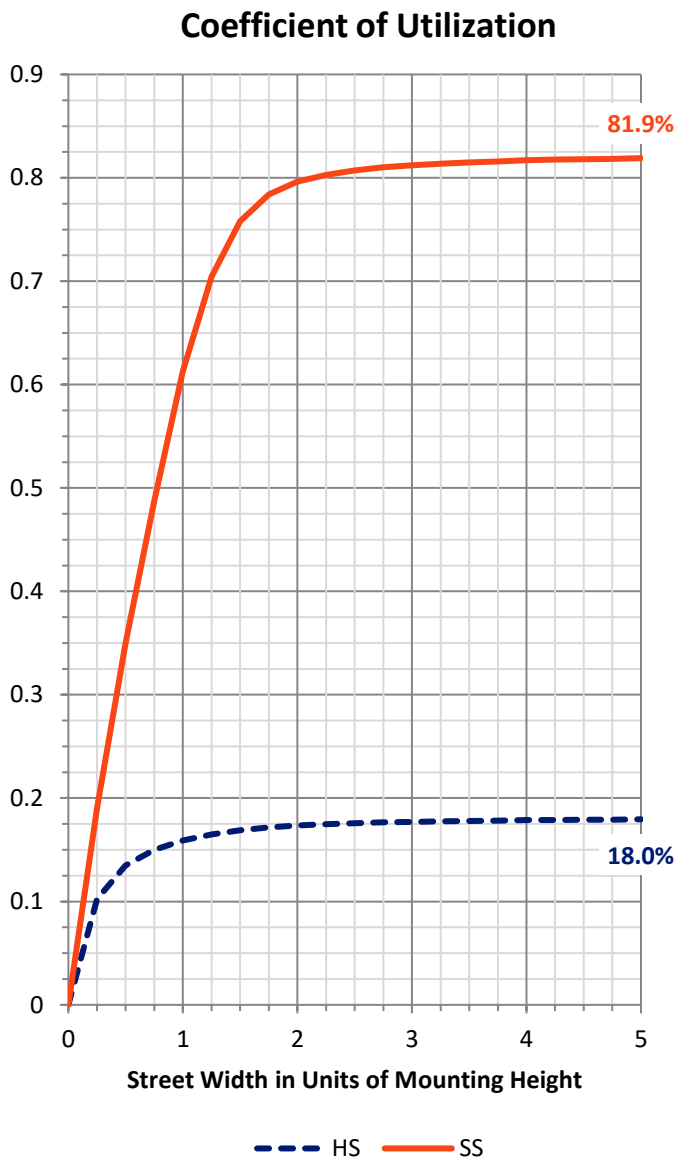
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3046.5	0.0	3046.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13771.7	0.0	13771.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	16818.2	0.0	16818.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.5
10°-20°	645.1	3.8
20°-30°	1033.2	6.1
30°-40°	1827.0	10.9
40°-50°	3201.0	19.0
50°-60°	4269.2	25.4
60°-70°	3974.4	23.6
70°-80°	1525.4	9.1
80°-90°	94.7	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°	16818.2	100.0
0°-180°	16818.2	100.0



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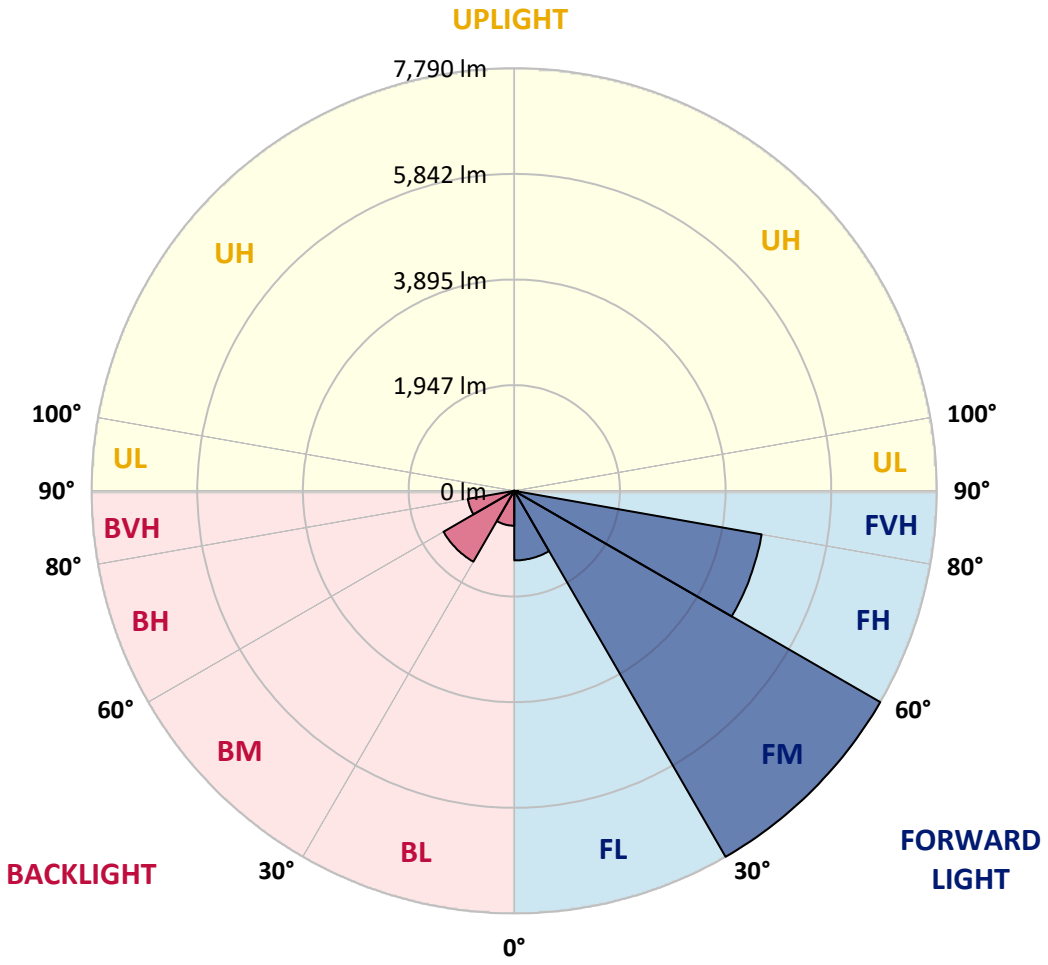
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1283.0	7.6			
FM	(30°-60°)	7789.5	46.3			
FH	(60°-80°)	4630.3	27.5			G2/5000
FVH	(80°-90°)	68.9	0.4			G1/100
BL	(0°-30°)	643.4	3.8	B2/1000		
BM	(30°-60°)	1507.7	9.0	B2/2500		
BH	(60°-80°)	869.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	25.9	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°	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	*2786.3*	2786.3
2.5°	2944.8	2961.7	2952.1	2947.3	2938.8	2926.7	2916.9	2886.7	2855.2	*2834.6*	2827.4
5°	3004.2	3021.1	3019.9	3024.8	3030.8	3034.4	3032.1	2998.1	2953.3	*2918.2*	2897.6
7.5°	2953.3	2972.7	2988.4	3012.7	3055.0	3099.8	3121.6	3114.4	3068.3	*3019.9*	2994.4
10°	2809.2	2829.8	2867.3	2924.2	3013.8	3110.7	3191.8	3229.4	3200.4	*3147.1*	3111.9
12.5°	2545.3	2565.8	2639.7	2763.2	2913.4	3081.7	3236.6	3337.2	3344.4	*3291.2*	3250.0
15°	2248.5	2269.1	2347.9	2502.8	2731.7	3001.7	3260.8	3451.0	3515.1	*3469.1*	3419.5
17.5°	2064.6	2082.7	2142.0	2266.8	2505.3	2841.9	3252.4	3572.0	3718.6	*3682.2*	3623.0
20°	2008.8	2024.6	2052.5	2139.6	2338.2	2676.0	3196.7	3685.9	3937.7	*3917.1*	3850.5
22.5°	2068.1	2082.7	2091.2	2130.0	2254.6	2567.0	3126.5	3802.1	4192.0	*4194.4*	4113.3
25°	2205.0	2219.5	2209.8	2234.1	2288.5	2533.2	3099.8	3939.0	4511.7	*4538.3*	4446.3
27.5°	2430.2	2431.4	2408.4	2407.2	2415.7	2584.0	3127.7	4085.4	4914.9	*4964.6*	4850.7
30°	2881.9	2863.7	2775.3	2679.7	2636.1	2736.5	3205.2	4258.7	5390.8	*5479.1*	5336.3
32.5°	3578.1	3551.5	3389.3	3160.4	2930.3	2982.3	3344.4	4456.0	5909.0	*6068.8*	5894.5
35°	4333.7	4326.4	4156.9	3816.7	3414.7	3332.3	3570.9	4715.1	6474.5	*6728.8*	6521.8
37.5°	5036.0	5032.3	4935.5	4534.7	4045.5	3820.3	3934.2	5054.2	7080.0	*7448.1*	7203.5
40°	5677.8	5688.6	5591.8	5233.3	4740.5	4446.3	4428.1	5473.1	7753.2	*8231.5*	7940.9
42.5°	6232.3	6244.4	6146.4	5881.1	5427.1	5138.9	5034.8	5986.5	8410.6	*9073.0*	8729.1
45°	6608.9	6684.0	6669.5	6457.6	6131.9	5832.8	5763.8	6630.7	9160.2	*9965.5*	9562.2
47.5°	6715.5	6784.5	6893.4	6922.5	6723.9	6429.7	6512.0	7406.9	9918.2	*10859.1*	10400.2
50°	6452.7	6516.8	6743.4	7044.8	7182.9	7092.1	7239.8	8238.7	10694.3	*11750.3*	11222.3
52.5°	5934.4	5999.8	6285.6	6762.7	7325.8	7611.5	7969.9	9058.5	11446.4	*12594.3*	12000.9
55°	5185.0	5253.9	5620.9	6160.9	7053.3	7825.9	8579.0	9877.0	12135.3	*13353.5*	12703.2
57.5°	4165.4	4216.2	4597.6	5353.3	6367.9	7612.7	9028.2	10770.7	12784.3	*14099.4*	13399.4
60°	2714.8	2759.6	3202.7	4045.5	5232.1	6900.7	9117.8	11767.2	13646.4	*15069.2*	14337.9
62.5°	1805.4	1835.7	2098.5	2717.2	3684.7	5533.7	8593.5	12562.7	14910.7	*16757.2*	15947.2
65°	1238.7	1268.9	1531.8	1962.8	2380.6	3660.5	7086.0	12457.4	16056.1	*18097.6*	17139.8
67.5°	*884.0*	*909.4*	*1132.1*	*1539.0*	*1723.0*	*2126.3*	*4803.6*	*11110.9*	*15891.4*	*18148.4*	*17204.0*
70°	633.2	647.8	831.9	1198.7	1369.5	1277.5	2671.1	8497.9	13914.1	*16758.4*	15893.9
72.5°	443.2	448.0	577.6	913.0	1103.1	932.3	1271.4	5665.7	10523.7	*13153.6*	12321.8
75°	300.3	306.4	388.7	669.6	885.2	712.0	673.2	3038.1	6177.9	*7281.0*	6526.6
77.5°	184.1	186.4	250.6	457.7	662.4	542.4	433.5	1287.2	2390.3	*2346.6*	2000.4
80°	104.1	104.1	159.8	284.5	451.6	349.9	303.9	547.3	756.8	*664.8*	586.1
82.5°	58.1	59.3	116.2	176.8	299.1	207.0	167.1	253.1	327.0	*289.4*	251.8
85°	24.2	26.6	71.4	83.5	142.9	102.9	67.9	106.6	121.1	*107.7*	78.7
87.5°	2.5	3.6	21.8	15.8	16.9	20.6	9.7	20.6	16.9	*16.9*	12.1
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°	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3	2786.3
2.5°	2804.4	2786.3	2740.2	2686.9	2616.7	2582.8	2536.8	2505.3	2478.7	2481.1	2456.8
5°	2858.8	2812.8	2709.9	2581.6	2421.8	2307.9	2186.8	2103.3	2035.4	2020.9	1988.3
7.5°	2934.0	2861.3	2680.9	2449.5	2179.6	1975.0	1792.1	1674.6	1591.1	1564.5	1537.8
10°	3030.8	2925.5	2643.4	2283.7	1895.0	1634.7	1438.5	1346.4	1289.6	1270.2	1255.6
12.5°	3143.4	2999.4	2593.7	2081.5	1602.0	1351.4	1226.6	1180.6	1162.5	1156.4	1152.7
15°	3285.1	3091.3	2518.6	1841.7	1353.7	1178.1	1124.9	1118.9	1121.2	1118.9	1117.7
17.5°	3453.4	3191.8	2396.3	1594.7	1186.6	1089.8	1070.4	1075.2	1081.3	1080.1	1077.7
20°	3637.4	3291.2	2240.1	1375.6	1072.9	1026.8	1015.9	1020.8	1025.6	1023.2	1021.9
22.5°	3846.9	3397.7	2066.9	1204.8	996.5	968.7	956.6	957.8	957.8	952.9	950.5
25°	4097.5	3515.1	1885.3	1083.7	938.4	916.7	902.1	897.3	890.0	875.5	873.0
27.5°	4396.6	3639.9	1710.9	999.0	892.4	871.9	854.8	842.8	824.6	800.4	798.0
30°	4733.2	3791.3	1563.2	945.7	856.1	835.5	816.1	798.0	771.3	741.1	738.6
32.5°	5129.2	3953.5	1455.5	910.6	823.4	801.6	778.6	756.8	727.7	697.4	698.6
35°	5601.5	4149.6	1392.5	886.3	798.0	768.9	743.4	719.2	697.4	670.9	668.4
37.5°	6113.7	4357.9	1373.1	874.2	781.0	736.3	707.1	690.2	687.8	672.0	670.9
40°	6674.3	4604.9	1387.6	866.9	762.8	704.7	673.2	669.6	675.7	647.8	649.0
42.5°	7267.7	4898.0	1411.8	858.5	737.4	673.2	643.0	643.0	638.2	599.4	599.4
45°	7909.4	5235.8	1436.1	837.9	707.1	641.8	618.8	610.3	589.7	552.2	550.9
47.5°	8556.0	5579.7	1454.3	800.4	670.9	615.1	594.5	575.1	544.9	511.0	509.7
50°	9169.9	5888.4	1434.9	744.7	629.7	589.7	567.8	541.3	508.6	485.5	482.0
52.5°	9718.4	6156.0	1352.6	679.3	586.1	563.0	543.7	515.8	489.2	464.9	462.6
55°	10195.5	6372.8	1207.2	617.6	547.3	540.1	520.7	485.5	449.3	428.7	426.2
57.5°	10653.2	6537.4	1025.6	566.7	512.2	514.7	485.5	454.1	420.1	398.4	396.0
60°	11262.3	6757.8	841.5	519.5	474.7	482.0	450.5	427.4	385.1	357.2	353.5
62.5°	12235.8	7100.5	668.4	461.4	431.1	433.5	420.1	392.4	341.4	308.7	306.4
65°	13008.4	6974.6	526.7	398.4	381.4	385.1	385.1	354.8	300.3	262.7	259.1
67.5°	*12921.2*	*5972.0*	*420.1*	*336.6*	*334.2*	*336.6*	*345.1*	*319.7*	*266.4*	*236.2*	*231.2*
70°	11902.8	4750.3	336.6	279.7	290.6	284.5	308.7	291.8	239.7	209.5	205.8
72.5°	9712.4	3422.0	256.7	231.2	222.8	232.5	278.5	262.7	199.8	165.8	162.3
75°	5675.3	1826.0	191.4	182.9	161.0	193.7	247.0	224.0	152.5	122.3	118.7
77.5°	1847.8	636.9	140.4	134.4	119.9	156.2	210.7	188.9	124.7	96.9	93.3
80°	495.3	192.5	95.6	88.4	77.5	116.2	167.1	150.2	89.6	62.9	61.7
82.5°	198.5	81.1	55.7	49.6	42.3	79.9	132.0	121.1	66.6	40.0	40.0
85°	64.2	26.6	20.6	15.8	19.4	49.6	78.7	82.3	47.3	20.6	15.8
87.5°	8.5	3.6	3.6	4.8	3.6	8.5	24.2	23.0	13.3	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)