

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: P970498

Luminaire Tested: **NAV-SB6B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970498
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-SB6B-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA 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: 23044 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

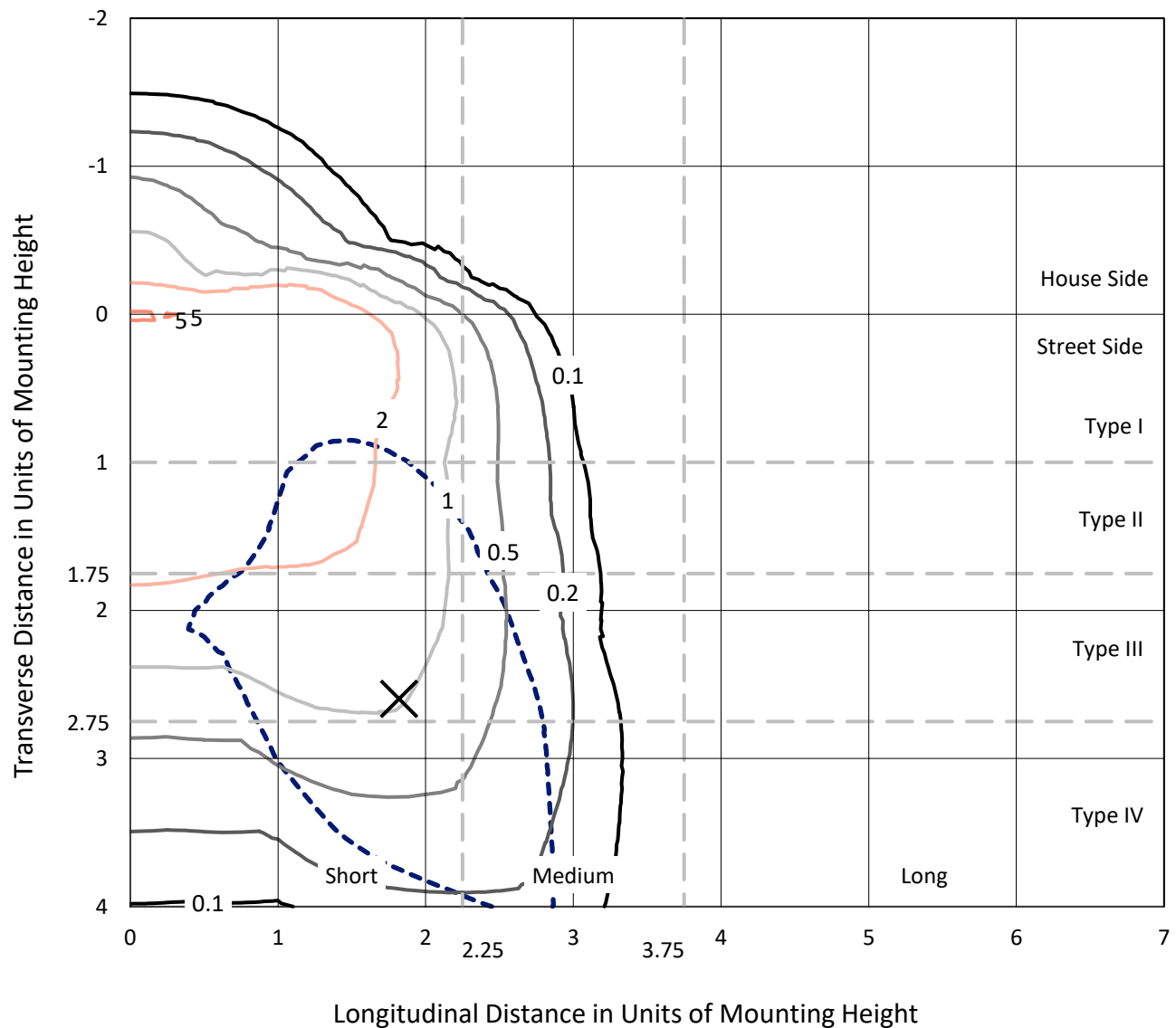
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

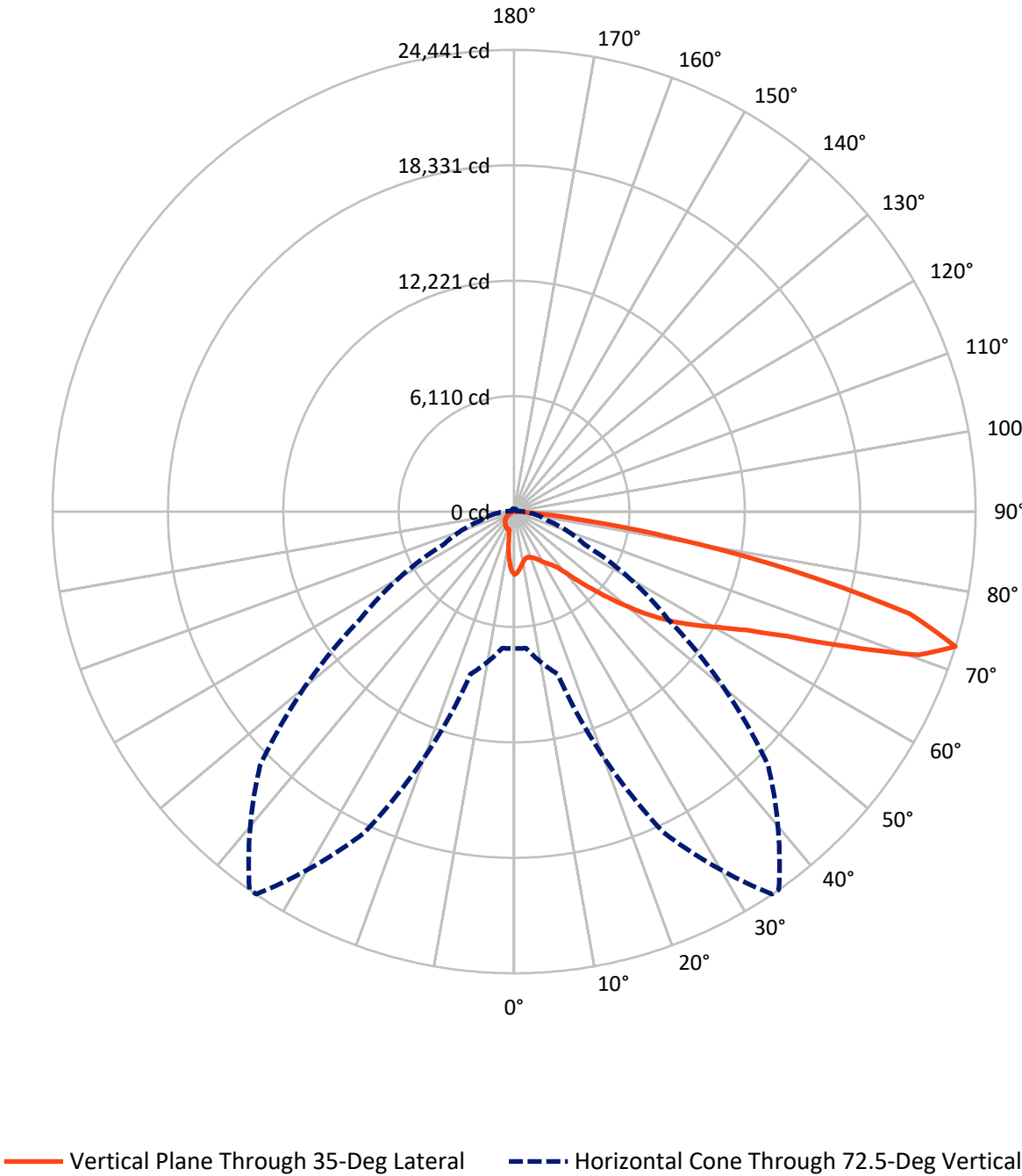
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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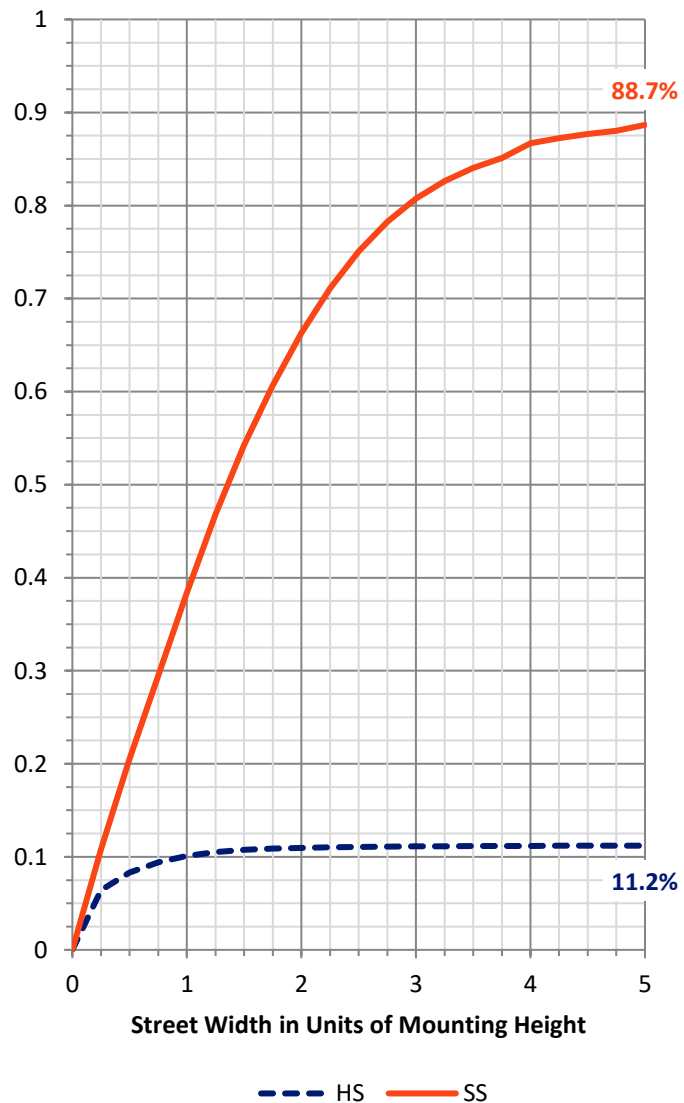
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2593.5	0.0	2593.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20450.5	0.0	20450.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	23044.0	0.0	23044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.2
10°-20°	642.0	2.8
20°-30°	1043.0	4.5
30°-40°	1740.2	7.6
40°-50°	3292.5	14.3
50°-60°	5231.7	22.7
60°-70°	6472.0	28.1
70°-80°	4023.1	17.5
80°-90°	325.1	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°	23044.0	100.0
0°-180°	23044.0	100.0

Coefficient of Utilization



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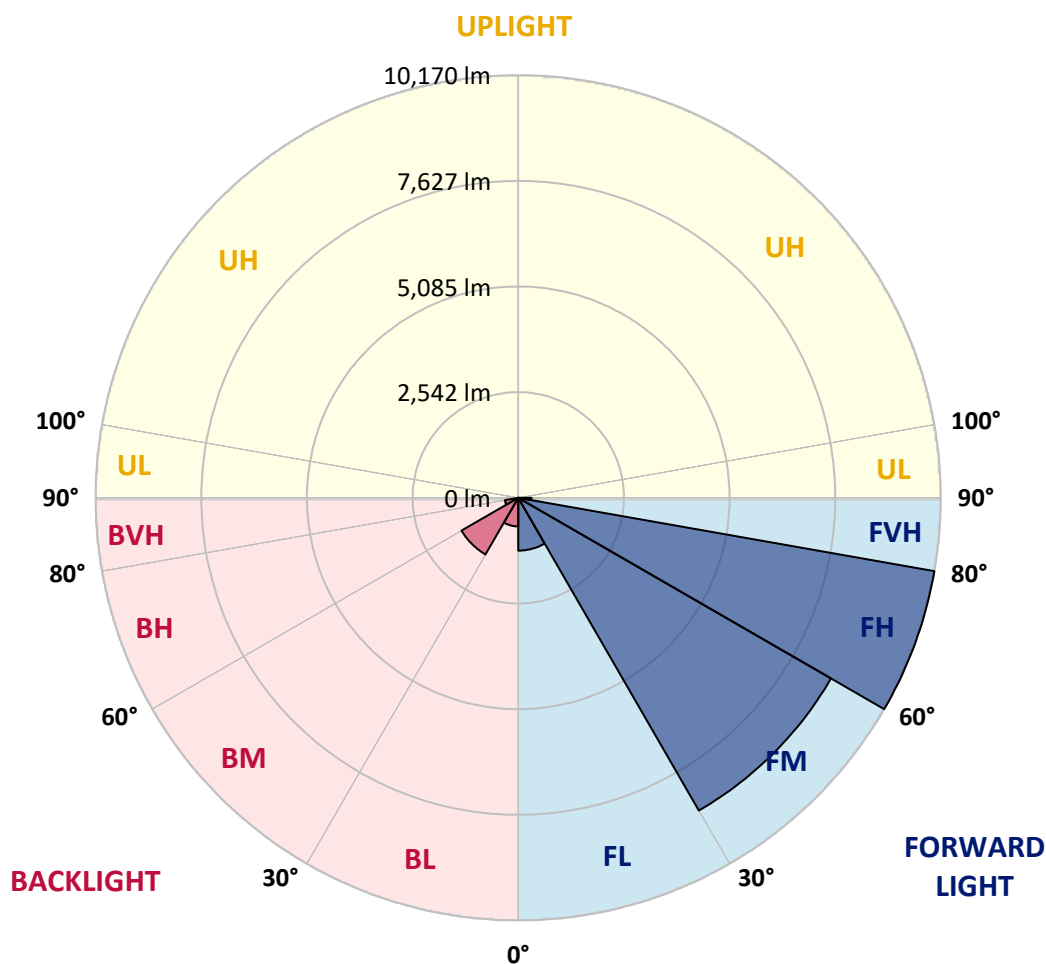
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1270.3	5.5			
FM	(30°-60°)	8689.9	37.7			
FH	(60°-80°)	10169.6	44.1			G4/12000
FVH	(80°-90°)	320.7	1.4			G3/500
BL	(0°-30°)	689.1	3.0	B2/1000		
BM	(30°-60°)	1574.5	6.8	B2/2500		
BH	(60°-80°)	325.4	1.4	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3191.2	3218.3	3223.3	3231.8	3231.8	3242.0	3258.8	3282.5	3321.3	3341.5	3355.0
5°	2941.3	2961.6	2987.0	3007.2	3046.1	3051.1	3116.9	3181.1	3270.7	3338.1	3385.5
7.5°	2689.8	2713.4	2747.2	2796.2	2846.8	2862.0	2961.6	3069.7	3211.5	3338.1	3417.6
10°	2512.5	2514.2	2544.6	2593.6	2674.6	2693.2	2814.8	2968.4	3145.7	3317.9	3447.9
12.5°	2412.8	2424.6	2438.2	2475.4	2553.0	2564.9	2694.8	2875.5	3079.8	3306.0	3483.4
15°	2412.8	2421.4	2429.8	2448.3	2510.8	2520.9	2635.8	2816.4	3046.1	3311.2	3540.8
17.5°	2438.2	2451.7	2444.9	2466.9	2532.8	2539.5	2640.8	2799.6	3044.4	3343.2	3628.6
20°	2499.0	2509.1	2495.6	2509.1	2575.0	2588.4	2693.2	2831.7	3073.1	3399.0	3738.4
22.5°	2595.2	2600.3	2568.2	2578.4	2645.8	2662.7	2784.3	2922.8	3142.3	3488.5	3885.3
25°	2716.8	2726.9	2677.9	2689.8	2754.0	2774.2	2914.4	3059.5	3252.0	3611.7	4072.6
27.5°	2857.0	2862.0	2819.8	2818.1	2900.9	2929.6	3071.4	3228.4	3399.0	3767.1	4309.1
30°	3017.4	3032.6	2992.0	2985.3	3090.0	3113.6	3253.8	3436.1	3615.1	4000.1	4645.1
32.5°	3144.0	3155.8	3132.2	3149.0	3255.4	3274.1	3475.0	3729.9	3954.4	4331.0	5102.7
35°	3326.3	3333.1	3279.1	3309.4	3431.1	3478.3	3777.2	4141.9	4381.7	4746.4	5700.3
37.5°	3986.5	3986.5	3756.9	3606.7	3723.1	3765.3	4190.8	4660.3	4908.5	5303.6	6453.5
40°	4900.0	4884.8	4548.8	4241.6	4226.3	4309.1	4780.2	5313.7	5588.9	5972.3	7301.1
42.5°	5874.3	5850.7	5393.0	5089.1	5038.5	5067.2	5460.6	6119.1	6399.4	6787.8	8212.9
45°	6738.8	6732.1	6313.3	5904.7	5813.5	5904.7	6309.9	7061.3	7262.2	7670.9	9123.0
47.5°	7463.1	7463.1	7157.6	6890.8	6843.5	6897.5	7459.8	8106.5	8088.0	8611.3	10009.4
50°	8297.3	8290.5	8000.1	7885.3	7934.2	8010.3	8783.5	9207.4	8942.3	9535.0	10801.3
52.5°	8881.5	8922.0	8822.4	8803.8	9053.7	9185.4	10127.6	10284.6	9707.2	10411.3	11394.0
55°	9344.2	9391.5	9506.3	9636.2	10117.5	10289.8	11429.5	11306.2	10347.2	11171.2	11735.1
57.5°	9999.3	9931.7	10109.1	10365.7	11144.1	11351.8	12690.7	12270.4	10862.1	11787.4	11772.2
60°	10794.6	10804.7	10835.1	11159.3	12169.0	12435.8	13933.5	13182.1	11193.1	12165.6	11360.3
62.5°	11750.3	11765.5	11828.0	12326.0	13545.2	13796.7	15257.3	13928.4	11345.0	12059.2	10296.4
65°	11684.4	11748.6	12446.0	14149.6	15637.2	15885.4	16802.3	14451.9	11115.4	11086.7	8383.4
67.5°	10644.3	10749.0	11915.7	16327.8	18791.3	19068.3	18669.8	14554.9	10124.2	8621.5	5469.1
70°	9280.0	9317.1	10720.3	18286.5	22443.6	22723.8	20341.3	13421.9	7682.7	4808.9	2450.1
72.5°	7247.1	7255.5	8901.8	18740.7	24425.9	24441.0	19029.4	9963.8	4131.8	1847.3	851.0
75°	5177.0	5126.3	5962.1	15198.2	21489.5	21661.7	14266.2	4673.8	1578.7	873.0	423.8
77.5°	2775.9	2831.7	3373.6	9013.2	14845.3	15139.1	7784.0	1347.5	803.7	594.4	280.3
80°	857.7	905.1	1382.9	4126.6	8408.7	8586.0	2885.7	599.4	560.6	423.8	184.1
82.5°	270.2	280.3	645.0	1734.1	3490.1	3571.2	835.8	339.4	383.2	280.3	108.0
85°	77.7	79.3	287.0	646.7	862.8	879.8	234.7	131.7	219.6	173.9	55.8
87.5°	8.4	27.1	108.0	108.0	76.0	74.3	25.3	28.7	62.5	21.9	10.1
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°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3346.6	3348.3	3326.3	3289.2	3248.6	3214.9	3172.7	3139.0	3115.3	3108.5	3120.3
5°	3370.2	3358.4	3296.0	3182.8	3047.7	2931.2	2801.2	2698.2	2630.7	2602.0	2612.1
7.5°	3405.7	3371.9	3235.2	3012.3	2754.0	2524.3	2291.3	2110.6	1995.8	1938.4	1946.9
10°	3436.1	3368.6	3133.8	2765.8	2370.6	2022.8	1708.8	1491.0	1369.4	1312.0	1313.6
12.5°	3464.8	3366.9	3002.1	2473.6	1938.4	1512.9	1220.8	1112.7	1078.9	1067.1	1063.7
15°	3518.8	3371.9	2836.7	2139.4	1507.9	1143.1	1036.8	1035.0	1041.8	1038.4	1036.8
17.5°	3593.1	3377.0	2649.2	1784.7	1163.4	1008.0	1003.0	1018.1	1028.3	1023.3	1021.5
20°	3689.4	3397.3	2450.1	1433.6	999.6	974.3	986.0	999.6	1008.0	999.6	997.9
22.5°	3824.5	3432.7	2232.2	1151.6	947.2	954.0	964.1	979.3	987.8	975.9	974.3
25°	3989.9	3488.5	2017.7	1001.3	921.9	930.4	945.6	962.5	972.6	960.7	959.1
27.5°	4204.3	3578.0	1820.2	967.5	896.6	901.7	923.6	948.9	962.5	947.2	947.2
30°	4515.0	3724.8	1649.6	982.7	881.4	869.6	900.0	935.4	950.6	937.2	935.4
32.5°	4927.1	3932.5	1545.0	1006.3	874.6	832.4	861.1	906.7	932.0	923.6	923.6
35°	5467.3	4248.3	1504.5	1033.4	869.6	793.6	813.8	862.8	906.7	915.1	915.1
37.5°	6122.5	4687.3	1516.3	1045.2	854.3	761.5	771.6	813.8	871.2	898.3	905.1
40°	6867.1	5198.9	1583.8	1033.4	837.5	734.5	736.2	768.2	818.9	859.5	873.0
42.5°	7635.4	5796.6	1708.8	989.4	822.3	710.8	705.8	727.7	761.5	790.2	802.1
45°	8366.6	6411.3	1832.0	928.6	803.7	687.3	675.4	683.9	690.6	702.4	709.2
47.5°	9004.7	6843.5	1796.5	873.0	778.4	660.2	639.9	636.5	616.3	614.6	612.9
50°	9445.5	6938.0	1595.6	817.2	741.3	629.8	597.8	577.5	542.0	525.1	526.8
52.5°	9585.6	6564.9	1303.5	761.5	680.5	589.3	543.7	511.6	467.7	452.5	450.8
55°	9399.9	5833.8	1041.8	693.9	596.0	535.3	484.6	442.4	406.9	388.4	388.4
57.5°	8945.7	4903.4	824.0	614.6	506.6	474.5	423.8	381.6	351.2	332.6	329.2
60°	8192.6	3893.7	651.8	520.1	432.2	408.7	356.3	329.2	302.3	280.3	275.2
62.5°	7049.5	2779.3	511.6	411.9	361.3	334.4	303.9	283.6	251.6	221.2	216.2
65°	5501.2	1700.3	395.1	302.3	290.4	277.0	258.3	239.7	200.9	170.6	165.4
67.5°	3469.8	805.4	282.0	228.0	229.6	222.8	214.4	199.3	170.6	143.5	140.1
70°	1528.1	390.0	185.7	173.9	170.6	170.6	177.3	172.2	145.2	119.9	114.8
72.5°	520.1	209.4	138.5	131.7	123.3	121.6	148.6	143.5	116.5	92.9	87.8
75°	271.8	140.1	101.3	94.5	74.3	89.5	118.2	111.4	82.7	60.8	55.8
77.5°	177.3	99.6	69.2	60.8	42.2	59.1	87.8	77.7	49.0	30.4	27.1
80°	111.4	65.8	40.5	28.7	20.3	32.1	47.3	33.7	18.6	6.8	5.0
82.5°	59.1	33.7	15.2	10.1	8.4	10.1	11.8	8.4	3.4	0.0	0.0
85°	23.7	11.8	5.0	3.4	1.6	0.0	3.4	1.6	0.0	0.0	0.0
87.5°	8.4	1.6	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)