

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: P966867

Luminaire Tested: **NAV-SB4C-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22379.8 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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



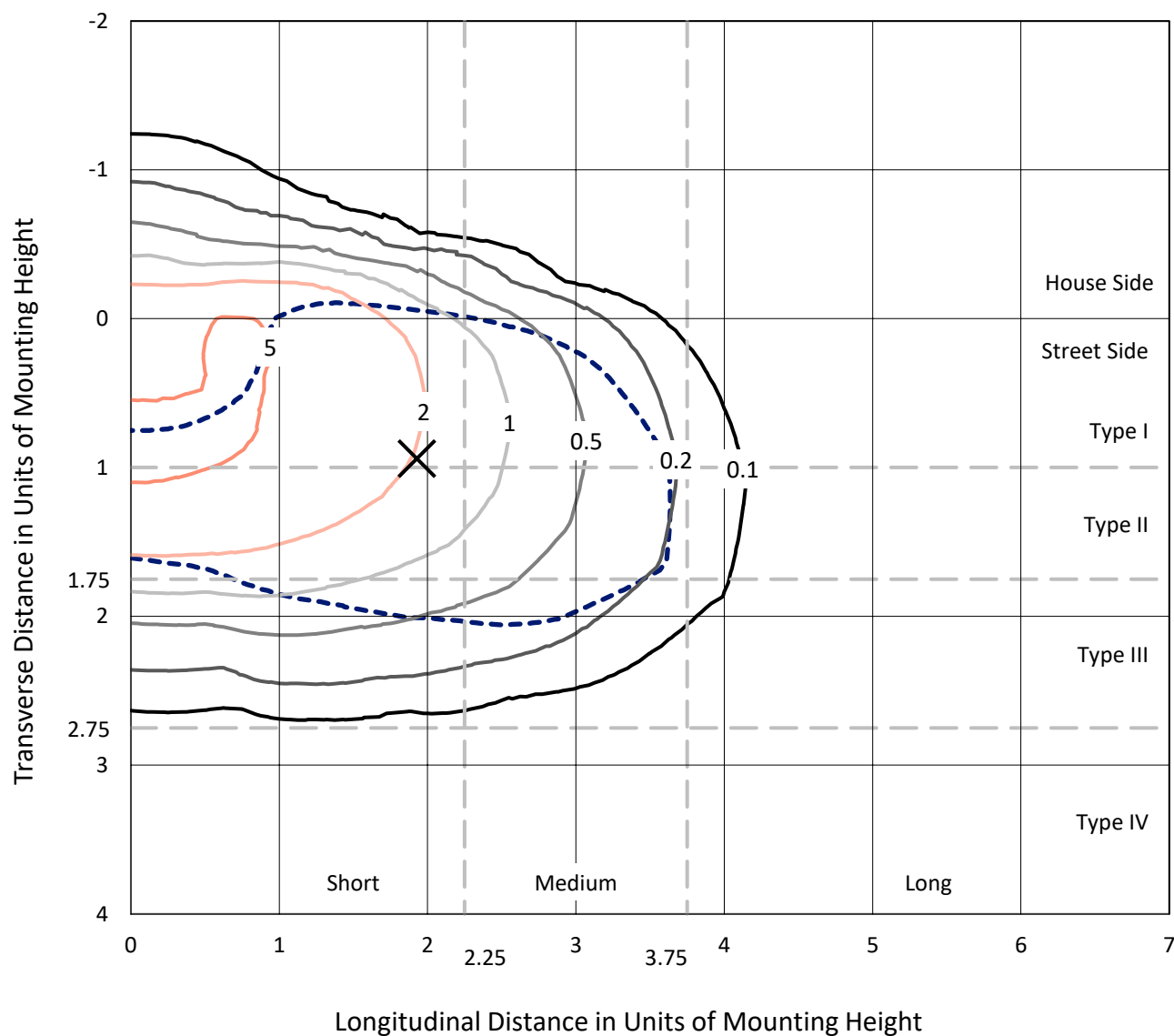
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

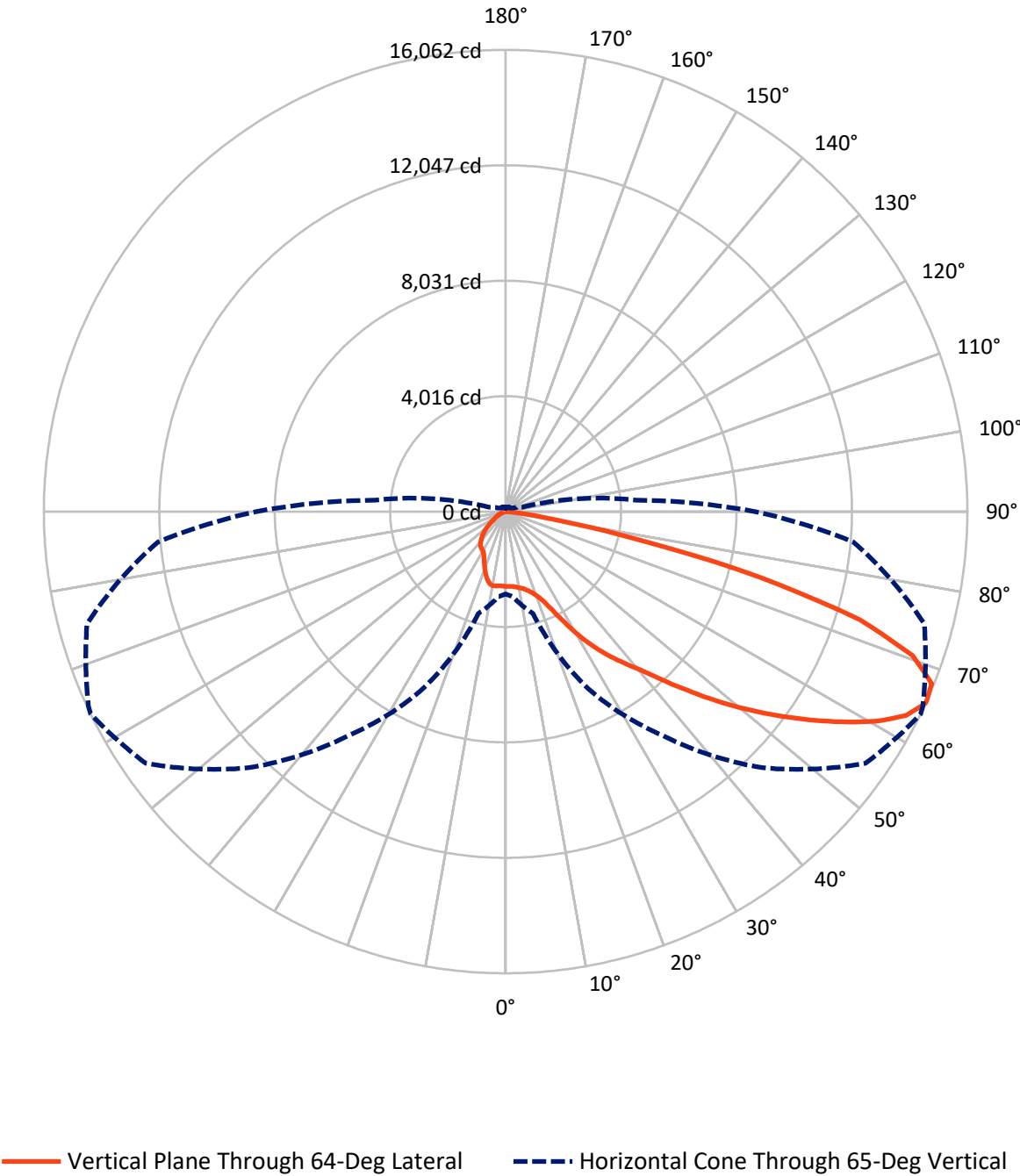


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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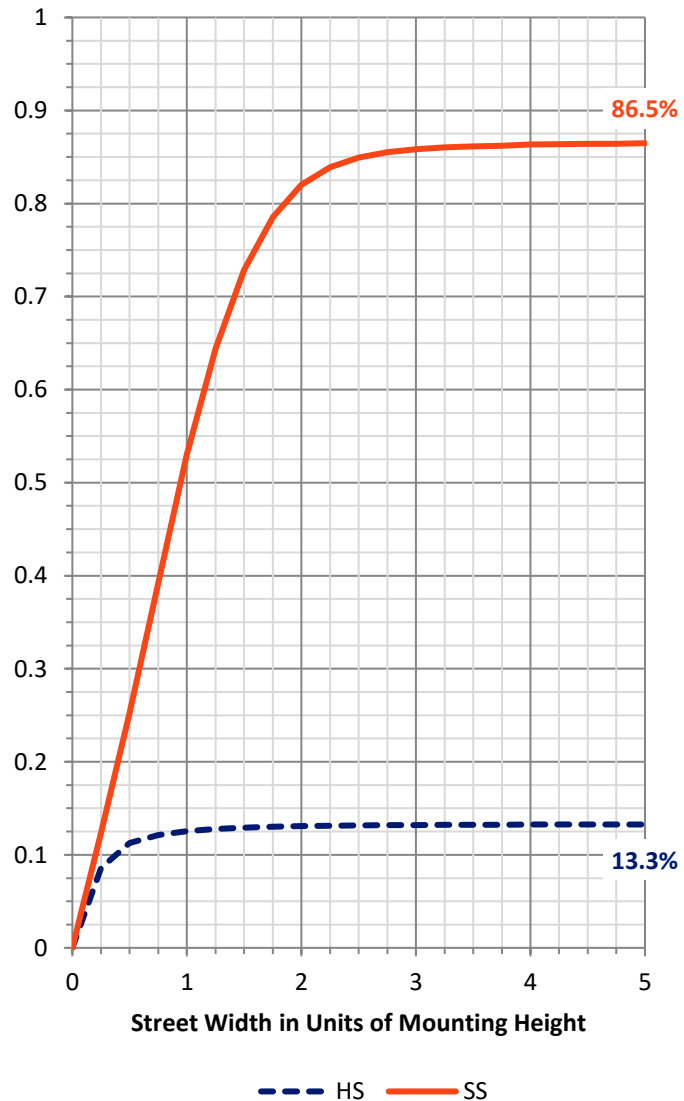
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.9	0.0	2992.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	19387.0	0.0	19387.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	22379.8	0.0	22379.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.1
10°-20°	651.4	2.9
20°-30°	1234.3	5.5
30°-40°	2497.6	11.2
40°-50°	4254.7	19.0
50°-60°	5786.0	25.9
60°-70°	5433.4	24.3
70°-80°	2176.8	9.7
80°-90°	105.5	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°	22379.8	100.0
0°-180°	22379.8	100.0

Coefficient of Utilization



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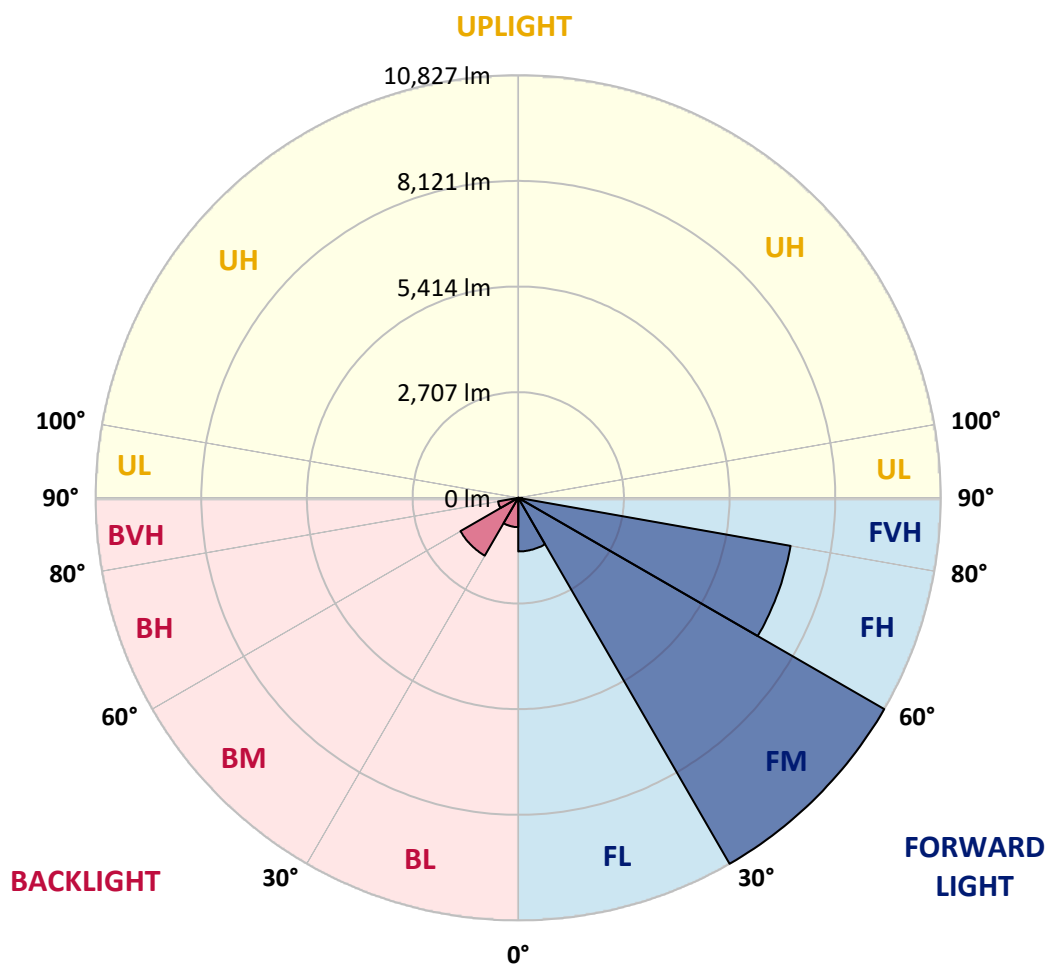
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.4	6.1			
FM	(30°-60°)	10827.3	48.4			
FH	(60°-80°)	7084.9	31.7			G3/7500
FVH	(80°-90°)	100.3	0.4			G2/225
BL	(0°-30°)	751.4	3.4	B2/1000		
BM	(30°-60°)	1711.0	7.6	B2/2500		
BH	(60°-80°)	525.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0
2.5°	2594.0	2612.0	2607.5	2603.0	2601.6	2604.5	2606.0	2604.5	2604.5	2604.5	2606.0
5°	2544.5	2559.5	2559.5	2570.0	2585.0	2603.0	2616.5	2619.5	2622.5	2627.0	2625.5
7.5°	2450.0	2461.9	2471.0	2505.5	2543.0	2591.0	2631.5	2652.5	2655.6	2672.1	2678.0
10°	2385.5	2400.4	2415.5	2451.5	2505.5	2577.5	2646.5	2697.5	2705.1	2744.0	2762.1
12.5°	2382.5	2397.5	2417.0	2456.0	2519.0	2595.5	2679.6	2753.0	2766.6	2823.6	2861.1
15°	2414.0	2432.0	2450.0	2498.0	2565.5	2658.5	2748.5	2840.1	2853.6	2934.6	2975.1
17.5°	2478.4	2502.5	2516.0	2564.0	2636.0	2739.5	2858.1	2963.1	2975.1	3069.6	3120.6
20°	2606.0	2634.6	2639.0	2678.0	2748.5	2859.5	3000.6	3131.1	3146.1	3254.2	3311.2
22.5°	2870.1	2910.6	2874.6	2894.1	2957.1	3068.1	3221.2	3386.2	3407.2	3530.2	3581.2
25°	3335.1	3392.1	3299.2	3266.2	3293.1	3408.6	3600.7	3809.2	3833.3	3932.3	3957.7
27.5°	4248.8	4175.3	4034.3	3896.2	3815.3	3881.3	4097.3	4355.3	4385.4	4481.4	4451.4
30°	5252.5	5188.0	4997.5	4691.4	4499.3	4488.9	4688.5	4976.5	5011.0	5102.4	5011.0
32.5°	6257.7	6196.2	5989.2	5612.6	5279.6	5114.5	5252.5	5572.1	5590.0	5648.6	5513.6
35°	7246.4	7183.4	6976.4	6590.7	6181.2	5806.1	5779.2	6139.2	6145.2	6206.7	6005.7
37.5°	8241.1	8188.6	7968.0	7590.0	7186.4	6668.9	6418.2	6676.3	6683.8	6743.8	6535.3
40°	8950.7	8973.3	8821.8	8529.1	8182.6	7617.0	7135.4	7247.9	7202.9	7303.4	7178.9
42.5°	9559.9	9604.9	9472.8	9325.9	9124.8	8626.7	8023.6	8004.0	7932.1	7986.1	7857.0
45°	10086.5	10124.0	10005.4	9971.0	9966.5	9616.9	8994.3	8877.2	8776.7	8766.2	8611.6
47.5°	10280.0	10352.0	10403.0	10518.6	10743.6	10596.6	9998.0	9816.4	9703.9	9621.4	9376.8
50°	10353.5	10430.0	10604.0	10940.1	11472.7	11535.8	10997.1	10793.1	10655.1	10505.0	10144.9
52.5°	10254.5	10391.0	10625.0	11190.6	11963.4	12288.9	11955.8	11777.4	11619.8	11375.2	10841.1
55°	9670.9	9807.4	10286.0	11187.7	12207.9	12817.0	12862.0	12782.5	12605.4	12219.8	11403.7
57.5°	8440.7	8643.2	9400.8	10806.6	12203.3	13271.6	13750.2	13807.2	13609.1	13057.1	11846.3
60°	6736.3	7010.9	7935.0	9962.0	11826.9	13517.6	14528.9	14813.9	14603.9	13882.2	12204.9
62.5°	4700.4	5018.5	5893.1	8638.7	10965.7	13340.6	15097.4	15624.1	15465.0	14620.4	12342.9
65°	2867.0	2969.1	3674.2	6797.8	9501.3	12599.5	15273.0	16062.2	16009.7	15071.9	12138.9
67.5°	1909.9	1995.4	2197.9	4661.4	7375.5	11118.7	14852.9	15985.6	16000.7	14998.4	11391.7
70°	1150.8	1224.3	1356.3	2711.0	4780.0	8800.8	13552.1	15010.4	15097.4	14015.7	9975.4
72.5°	474.1	523.6	643.6	1228.8	2475.5	5585.6	10791.6	12887.5	13090.1	11784.8	7656.0
75°	268.5	294.1	378.1	616.6	1074.2	2603.0	6536.7	9148.7	9447.3	8122.6	4605.9
77.5°	178.6	190.5	244.6	399.0	604.6	888.2	2793.5	4766.5	5336.6	4436.4	1993.9
80°	120.0	130.5	168.0	267.0	393.1	381.1	889.7	1765.9	2172.4	1524.3	486.1
82.5°	81.0	82.5	120.0	175.6	249.1	184.5	262.5	549.1	690.1	441.1	184.5
85°	46.5	45.0	88.6	102.0	111.0	76.5	79.5	165.0	216.1	186.0	105.1
87.5°	6.0	9.0	34.5	27.0	15.0	16.5	16.5	28.5	42.0	45.0	22.5
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°	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0	2603.0
2.5°	2606.0	2604.5	2600.0	2595.5	2585.0	2579.0	2582.0	2579.0	2577.5	2579.0	2585.0
5°	2625.5	2621.0	2609.0	2594.0	2573.0	2547.5	2531.0	2506.9	2484.5	2471.0	2473.9
7.5°	2678.0	2673.5	2657.0	2615.0	2547.5	2440.9	2343.5	2258.0	2193.4	2155.9	2157.4
10°	2762.1	2754.6	2729.1	2636.0	2459.0	2226.4	2032.9	1872.4	1767.3	1717.8	1713.3
12.5°	2861.1	2852.1	2807.1	2616.5	2291.0	1927.9	1660.8	1482.3	1384.8	1341.2	1336.8
15°	2978.0	2966.0	2877.6	2523.4	2046.4	1597.8	1353.3	1219.8	1156.7	1117.8	1119.2
17.5°	3123.6	3102.6	2930.1	2383.9	1780.8	1345.7	1164.2	1063.7	1008.2	970.7	967.7
20°	3312.7	3278.2	2972.1	2217.4	1536.3	1186.7	1036.7	952.7	910.7	877.7	871.7
22.5°	3576.7	3527.2	3023.1	2037.4	1363.8	1077.2	942.2	880.7	846.1	808.6	802.7
25°	3903.7	3845.3	3086.1	1870.8	1245.3	982.7	873.2	822.2	781.7	738.1	733.6
27.5°	4361.4	4256.3	3161.1	1734.3	1143.2	901.7	810.2	753.2	706.6	670.7	663.2
30°	4871.4	4698.9	3227.1	1651.8	1050.2	826.7	727.6	670.7	627.1	601.6	597.2
32.5°	5354.5	5120.5	3270.7	1615.8	966.2	741.2	637.7	576.2	543.1	535.6	540.1
35°	5810.6	5501.6	3266.2	1581.3	891.1	655.6	549.1	486.1	460.6	465.0	465.0
37.5°	6335.7	5908.2	3234.6	1527.2	829.6	577.6	472.6	417.1	394.6	396.1	402.1
40°	6946.3	6377.8	3215.1	1425.3	762.2	505.6	409.6	364.6	348.1	342.0	340.6
42.5°	7597.5	6832.3	3218.1	1309.7	678.1	441.1	366.0	328.6	313.5	309.0	307.6
45°	8251.7	7265.9	3222.6	1189.7	589.6	391.5	334.6	303.1	294.1	288.0	288.0
47.5°	8866.8	7635.0	3138.7	1060.7	502.6	354.0	309.0	288.0	280.5	273.1	273.1
50°	9439.8	7881.0	2936.1	910.7	433.6	324.1	289.6	274.6	267.0	259.5	259.5
52.5°	9885.4	7920.1	2601.6	756.1	385.6	301.6	277.6	264.0	255.0	247.5	246.0
55°	10083.4	7675.5	2126.0	612.1	348.1	282.1	265.6	252.0	241.6	234.0	232.6
57.5°	10032.5	7160.9	1657.8	492.1	312.0	262.5	250.5	241.6	229.5	217.5	216.1
60°	9781.9	6472.3	1249.8	409.6	279.0	241.6	234.0	226.5	210.0	192.1	189.0
62.5°	9348.3	5606.5	891.1	339.1	243.0	217.5	214.5	208.6	184.5	151.5	148.5
65°	8685.2	4554.9	600.1	282.1	208.6	190.5	192.1	181.5	150.1	112.5	109.6
67.5°	7716.0	3330.6	384.1	231.0	174.0	159.1	160.5	154.6	127.5	96.0	91.5
70°	6481.3	2205.4	250.5	175.6	139.5	123.0	132.0	133.6	108.0	78.0	75.0
72.5°	4751.4	1302.3	175.6	130.5	102.0	85.5	108.0	111.0	87.0	58.5	55.6
75°	2708.0	618.1	132.0	94.5	63.0	60.0	84.0	84.0	60.0	39.1	36.0
77.5°	1137.2	258.1	93.0	61.5	36.0	34.5	57.0	52.5	30.0	18.0	18.0
80°	328.6	115.5	49.5	30.0	15.0	13.5	22.5	16.5	7.5	3.0	3.0
82.5°	129.0	51.0	19.5	12.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0
85°	76.5	21.0	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	4.5	3.0	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)