

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: P969967

Luminaire Tested: **NAV-SB6A-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969967
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-SB6A-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

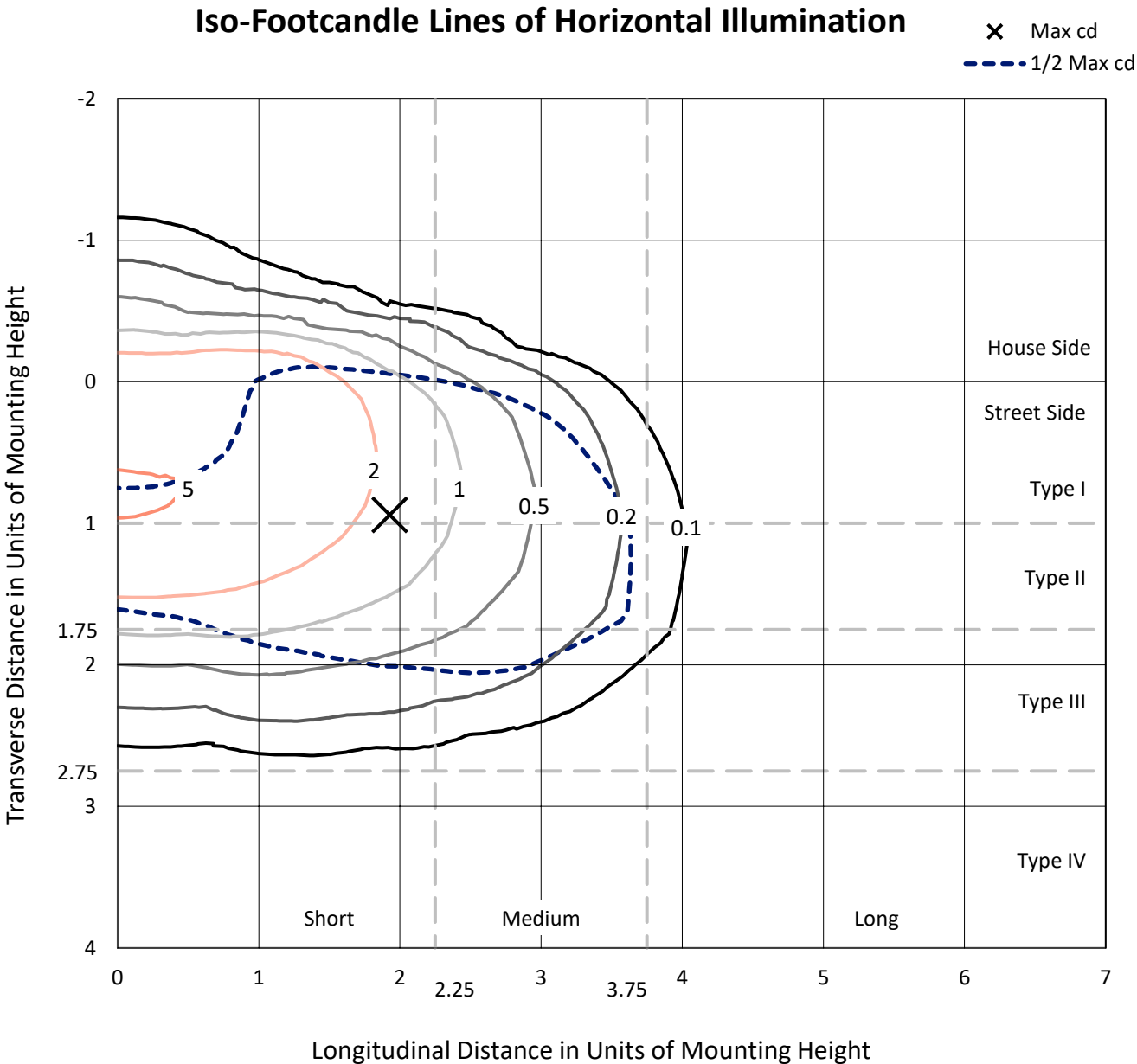
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19014.8 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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



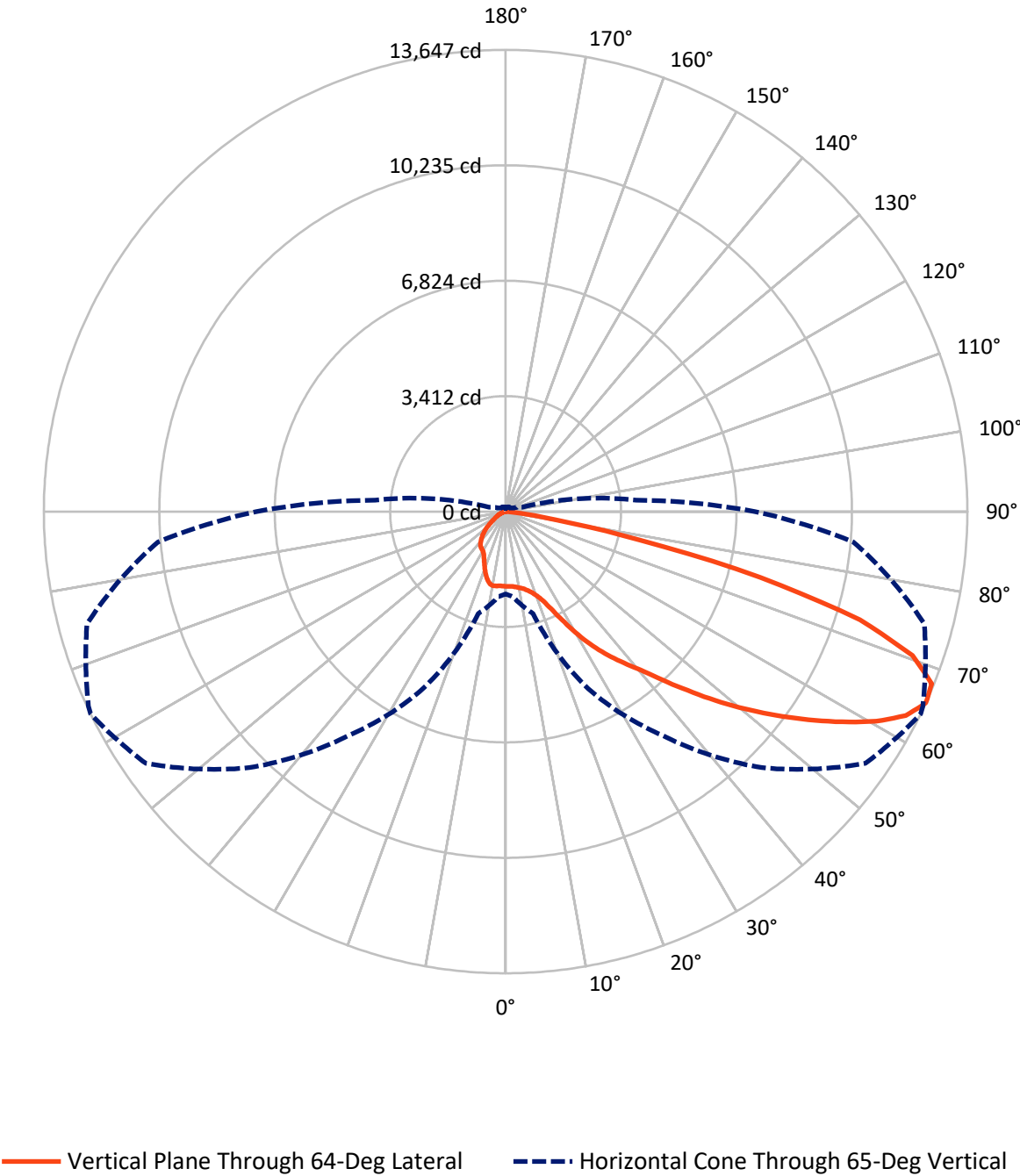
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Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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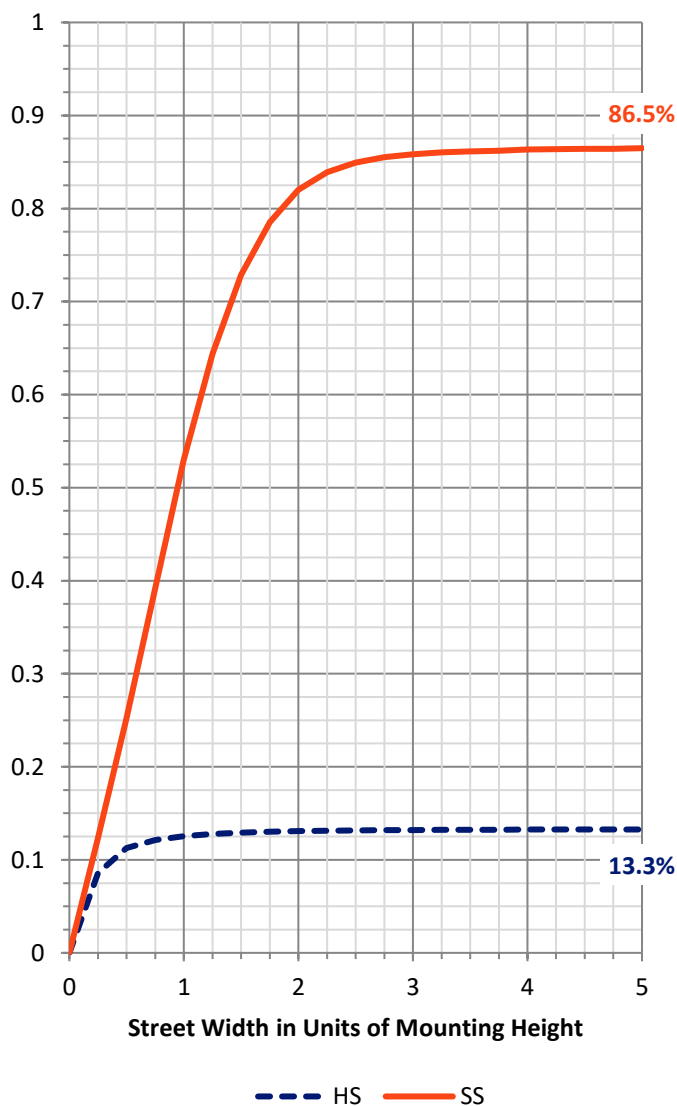
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2542.8	0.0	2542.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16471.9	0.0	16471.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	19014.8	0.0	19014.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.1
10°-20°	553.4	2.9
20°-30°	1048.7	5.5
30°-40°	2122.1	11.2
40°-50°	3614.9	19.0
50°-60°	4916.0	25.9
60°-70°	4616.4	24.3
70°-80°	1849.5	9.7
80°-90°	89.6	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°	19014.8	100.0
0°-180°	19014.8	100.0

Coefficient of Utilization



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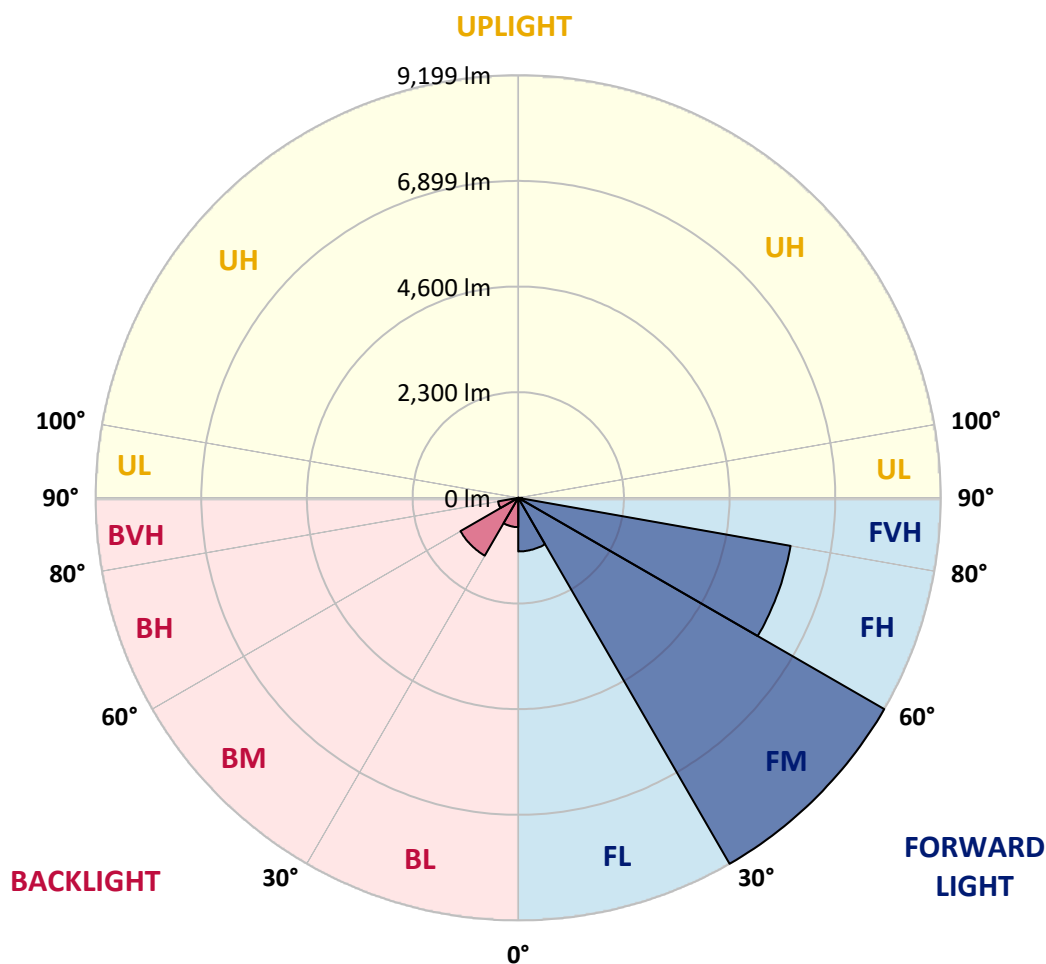
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.7	6.1			
FM	(30°-60°)	9199.3	48.4			
FH	(60°-80°)	6019.6	31.7			G3/7500
FVH	(80°-90°)	85.2	0.4			G1/100
BL	(0°-30°)	638.4	3.4	B2/1000		
BM	(30°-60°)	1453.7	7.6	B2/2500		
BH	(60°-80°)	446.3	2.3	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6
2.5°	2204.0	2219.2	2215.4	2211.6	2210.3	2212.9	2214.2	2212.9	2212.9	2212.9	2214.2
5°	2161.9	2174.6	2174.6	2183.6	2196.4	2211.6	2223.1	2225.7	2228.1	2232.0	2230.7
7.5°	2081.6	2091.8	2099.4	2128.7	2160.6	2201.4	2235.8	2253.7	2256.2	2270.3	2275.4
10°	2026.7	2039.5	2052.3	2082.9	2128.7	2189.9	2248.5	2291.9	2298.3	2331.5	2346.7
12.5°	2024.3	2037.0	2053.6	2086.7	2140.2	2205.3	2276.6	2339.0	2350.5	2399.0	2430.9
15°	2051.0	2066.3	2081.6	2122.4	2179.8	2258.8	2335.3	2413.1	2424.5	2493.3	2527.8
17.5°	2105.9	2126.3	2137.6	2178.4	2239.6	2327.6	2428.3	2517.5	2527.8	2608.0	2651.4
20°	2214.2	2238.4	2242.2	2275.4	2335.3	2429.6	2549.4	2660.3	2673.1	2764.8	2813.3
22.5°	2438.5	2472.9	2442.4	2458.9	2512.5	2606.8	2736.7	2877.0	2894.9	2999.4	3042.7
25°	2833.7	2882.1	2803.1	2775.1	2797.9	2896.1	3059.3	3236.4	3256.8	3341.0	3362.7
27.5°	3609.9	3547.5	3427.7	3310.4	3241.6	3297.6	3481.2	3700.5	3726.0	3807.6	3782.0
30°	4462.7	4407.9	4246.1	3986.0	3822.8	3813.9	3983.5	4228.2	4257.5	4335.2	4257.5
32.5°	5316.8	5264.5	5088.6	4768.7	4485.7	4345.5	4462.7	4734.3	4749.5	4799.3	4684.6
35°	6156.9	6103.3	5927.4	5599.8	5251.8	4933.1	4910.2	5216.1	5221.2	5273.4	5102.7
37.5°	7002.0	6957.4	6769.9	6448.8	6105.8	5666.1	5453.2	5672.5	5678.8	5729.9	5552.6
40°	7604.9	7624.1	7495.3	7246.7	6952.3	6471.6	6062.5	6158.1	6119.9	6205.2	6099.5
42.5°	8122.4	8160.6	8048.5	7923.6	7752.8	7329.6	6817.2	6800.6	6739.4	6785.3	6675.6
45°	8569.8	8601.7	8501.0	8471.7	8467.8	8170.9	7641.9	7542.5	7457.1	7448.1	7316.9
47.5°	8734.3	8795.5	8838.8	8937.0	9128.1	9003.3	8494.7	8340.4	8244.8	8174.7	7966.9
50°	8796.8	8861.7	9009.6	9295.1	9747.6	9801.3	9343.6	9170.3	9053.0	8925.5	8619.5
52.5°	8712.6	8828.6	9027.5	9508.0	10164.5	10441.2	10158.2	10006.5	9872.6	9664.8	9211.1
55°	8216.7	8332.7	8739.4	9505.4	10372.3	10889.8	10928.0	10860.5	10710.1	10382.5	9689.0
57.5°	7171.5	7343.6	7987.3	9181.7	10368.5	11276.0	11682.6	11731.1	11562.8	11093.8	10065.1
60°	5723.4	5956.7	6741.9	8464.0	10048.5	11485.1	12344.3	12586.5	12408.0	11794.9	10369.7
62.5°	3993.6	4263.9	5007.0	7339.7	9316.8	11334.7	12827.4	13274.8	13139.7	12422.0	10487.0
65°	2436.0	2522.6	3121.7	5775.7	8072.7	10705.0	12976.5	13647.1	13602.4	12805.7	10313.7
67.5°	1622.7	1695.4	1867.4	3960.5	6266.4	9446.8	12619.6	13582.0	13594.8	12743.2	9678.9
70°	977.7	1040.2	1152.3	2303.4	4061.3	7477.5	11514.4	12753.5	12827.4	11908.3	8475.5
72.5°	402.8	444.8	546.8	1044.0	2103.3	4745.8	9168.9	10949.8	11121.9	10012.8	6504.9
75°	228.2	249.8	321.2	523.9	912.7	2211.6	5553.9	7773.2	8026.9	6901.2	3913.3
77.5°	151.7	161.8	207.8	339.1	513.7	754.6	2373.5	4049.8	4534.1	3769.3	1694.1
80°	102.0	110.9	142.8	226.9	333.9	323.8	755.9	1500.3	1845.8	1295.1	413.0
82.5°	68.9	70.1	102.0	149.1	211.6	156.8	223.0	466.6	586.4	374.7	156.8
85°	39.6	38.2	75.2	86.7	94.3	65.0	67.5	140.2	183.6	158.1	89.3
87.5°	5.1	7.7	29.3	23.0	12.7	14.0	14.0	24.2	35.7	38.2	19.2
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°	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6	2211.6
2.5°	2214.2	2212.9	2209.1	2205.3	2196.4	2191.2	2193.8	2191.2	2189.9	2191.2	2196.4
5°	2230.7	2226.9	2216.7	2204.0	2186.1	2164.5	2150.4	2130.1	2110.9	2099.4	2102.0
7.5°	2275.4	2271.5	2257.5	2221.8	2164.5	2074.0	1991.1	1918.4	1863.7	1831.8	1833.0
10°	2346.7	2340.4	2318.7	2239.6	2089.3	1891.6	1727.2	1590.8	1501.6	1459.5	1455.7
12.5°	2430.9	2423.2	2385.0	2223.1	1946.5	1637.9	1411.1	1259.4	1176.6	1139.6	1135.8
15°	2530.3	2520.1	2444.9	2144.1	1738.7	1357.6	1149.7	1036.4	982.8	949.7	950.9
17.5°	2653.9	2636.1	2489.5	2025.5	1513.1	1143.4	989.1	903.7	856.6	824.7	822.2
20°	2814.5	2785.2	2525.2	1884.1	1305.3	1008.3	880.8	809.4	773.8	745.7	740.6
22.5°	3038.9	2996.8	2568.5	1731.0	1158.7	915.2	800.5	748.2	718.9	687.1	681.9
25°	3316.8	3267.1	2622.1	1589.6	1058.0	835.0	741.9	698.5	664.1	627.2	623.3
27.5°	3705.6	3616.3	2685.8	1473.5	971.3	766.1	688.4	639.9	600.3	569.8	563.4
30°	4139.0	3992.4	2741.9	1403.4	892.3	702.3	618.3	569.8	532.8	511.2	507.4
32.5°	4549.5	4350.6	2778.9	1372.9	820.9	629.7	541.7	489.4	461.5	455.1	458.9
35°	4936.9	4674.3	2775.1	1343.6	757.2	557.1	466.6	413.0	391.3	395.1	395.1
37.5°	5383.1	5019.8	2748.2	1297.6	704.9	490.8	401.5	354.3	335.3	336.5	341.6
40°	5901.8	5418.8	2731.7	1210.9	647.6	429.6	348.0	309.8	295.7	290.6	289.4
42.5°	6455.1	5805.0	2734.3	1112.8	576.2	374.7	311.0	279.2	266.4	262.6	261.3
45°	7010.9	6173.4	2738.1	1010.9	500.9	332.7	284.2	257.5	249.8	244.8	244.8
47.5°	7533.5	6487.0	2666.6	901.2	427.0	300.8	262.6	244.8	238.4	232.0	232.0
50°	8020.4	6696.0	2494.6	773.8	368.4	275.3	246.0	233.3	226.9	220.5	220.5
52.5°	8399.1	6729.1	2210.3	642.5	327.6	256.2	235.9	224.4	216.7	210.3	209.1
55°	8567.3	6521.4	1806.3	520.1	295.7	239.6	225.6	214.1	205.2	198.8	197.6
57.5°	8524.0	6084.2	1408.6	418.1	265.2	223.0	212.9	205.2	195.1	184.8	183.6
60°	8311.1	5499.1	1061.8	348.0	237.1	205.2	198.8	192.5	178.5	163.2	160.6
62.5°	7942.7	4763.6	757.2	288.1	206.5	184.8	182.2	177.2	156.8	128.7	126.2
65°	7379.3	3870.0	509.8	239.6	177.2	161.8	163.2	154.3	127.5	95.6	93.1
67.5°	6555.8	2829.8	326.4	196.3	147.9	135.1	136.4	131.3	108.3	81.6	77.8
70°	5506.7	1873.8	212.9	149.1	118.6	104.6	112.1	113.5	91.7	66.3	63.8
72.5°	4037.0	1106.5	149.1	110.9	86.7	72.7	91.7	94.3	73.9	49.7	47.2
75°	2300.8	525.2	112.1	80.3	53.5	50.9	71.3	71.3	50.9	33.1	30.5
77.5°	966.3	219.2	79.0	52.3	30.5	29.3	48.5	44.6	25.5	15.3	15.3
80°	279.2	98.2	42.0	25.5	12.7	11.5	19.2	14.0	6.4	2.6	2.6
82.5°	109.7	43.4	16.6	10.1	5.1	5.1	2.6	0.0	0.0	0.0	0.0
85°	65.0	17.8	7.7	3.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	3.8	2.6	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)