

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: P964573

Luminaire Tested: **NAV-SB3C-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964573
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-SB3C-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

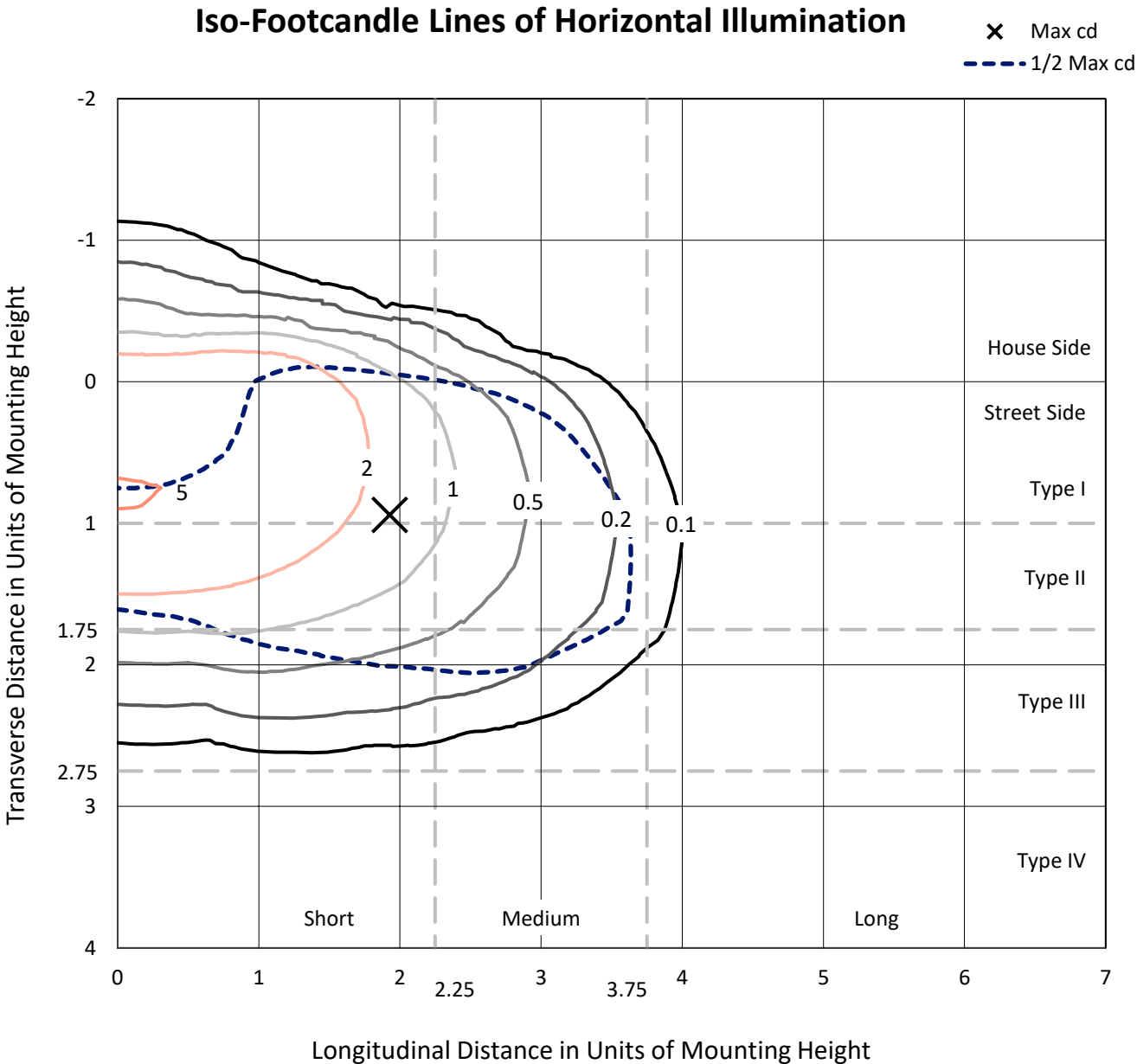
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18063.6 lumens
Efficiency: N/A
Efficacy: 121.2 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): 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



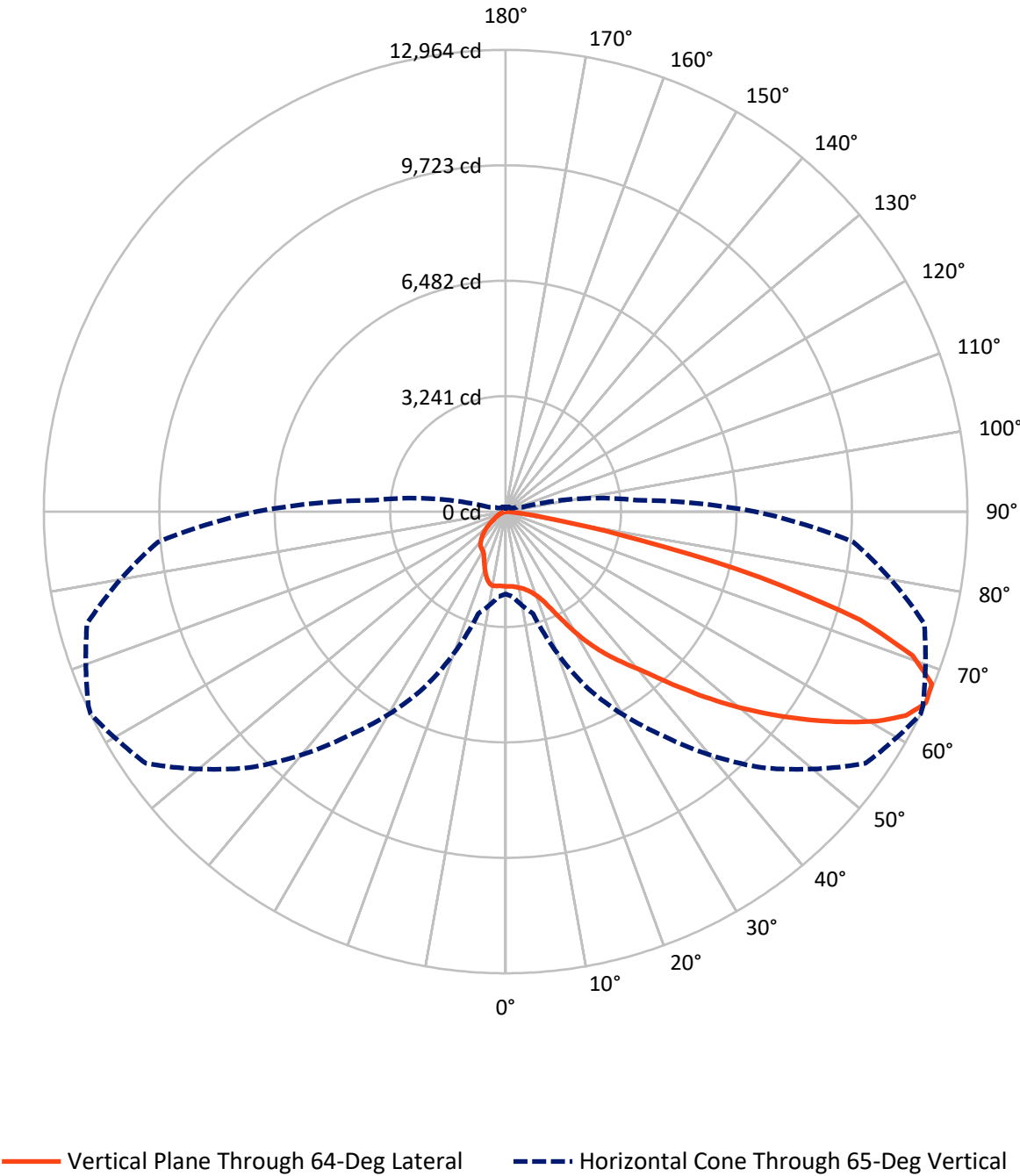
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Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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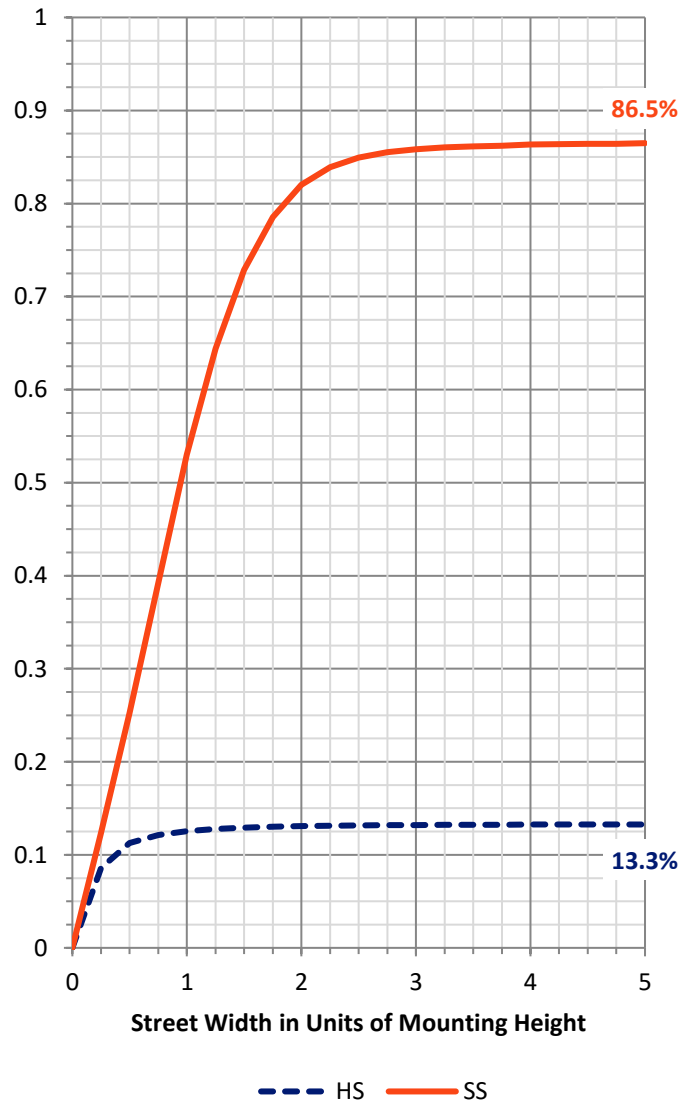
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2415.7	0.0	2415.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15647.9	0.0	15647.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	18063.6	0.0	18063.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	1.1
10°-20°	525.7	2.9
20°-30°	996.2	5.5
30°-40°	2015.9	11.2
40°-50°	3434.1	19.0
50°-60°	4670.1	25.9
60°-70°	4385.5	24.3
70°-80°	1757.0	9.7
80°-90°	85.1	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°	18063.6	100.0
0°-180°	18063.6	100.0

Coefficient of Utilization



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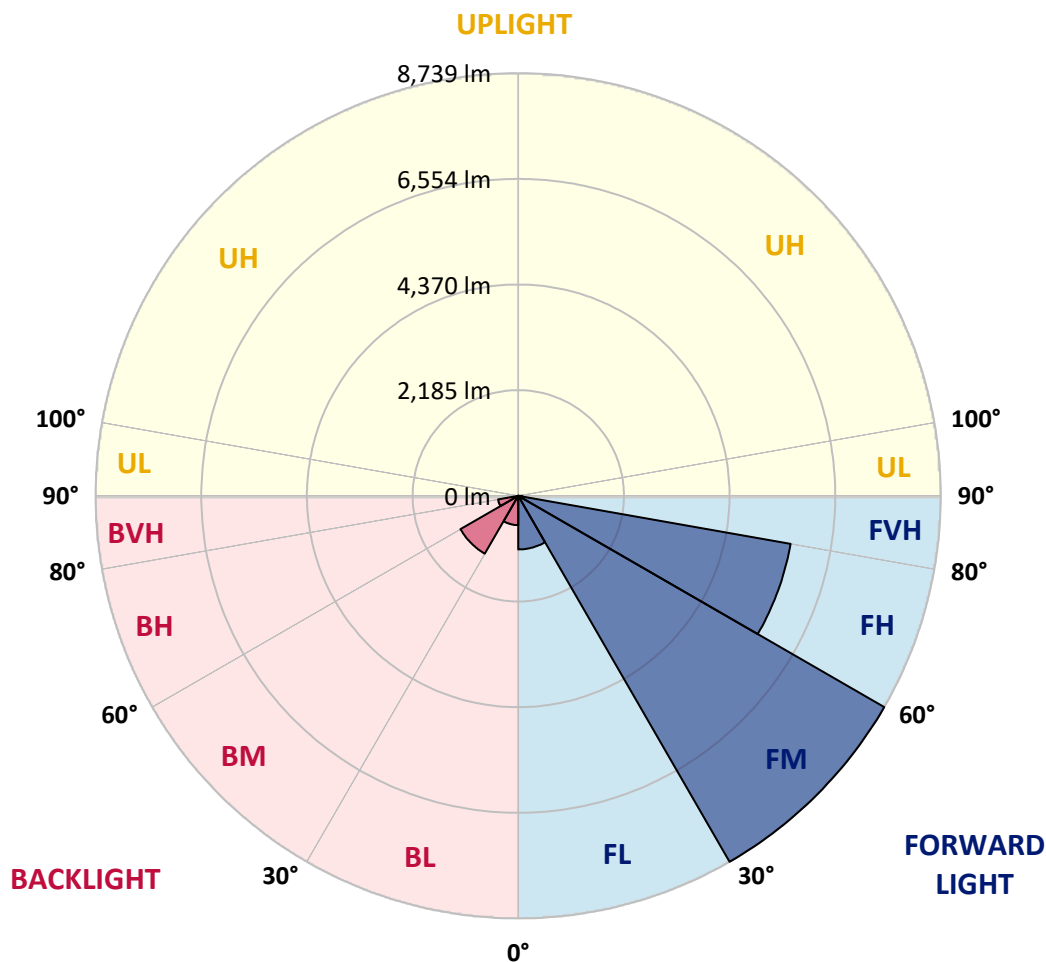
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1109.3	6.1			
FM	(30°-60°)	8739.1	48.4			
FH	(60°-80°)	5718.5	31.7			G3/7500
FVH	(80°-90°)	81.0	0.4			G1/100
BL	(0°-30°)	606.5	3.4	B2/1000		
BM	(30°-60°)	1381.0	7.6	B2/2500		
BH	(60°-80°)	424.0	2.3	B1/500		G1/500
BVH	(80°-90°)	4.2	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°	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9
2.5°	2093.7	2108.2	2104.6	2100.9	2099.8	2102.2	2103.4	2102.2	2102.2	2102.2	2103.4
5°	2053.8	2065.9	2065.9	2074.3	2086.5	2100.9	2111.9	2114.3	2116.7	2120.3	2119.2
7.5°	1977.4	1987.2	1994.4	2022.2	2052.6	2091.3	2124.0	2140.9	2143.4	2156.7	2161.5
10°	1925.4	1937.5	1949.7	1978.7	2022.2	2080.4	2136.1	2177.3	2183.4	2214.8	2229.4
12.5°	1923.0	1935.1	1950.8	1982.4	2033.2	2094.9	2162.8	2222.1	2233.0	2279.0	2309.2
15°	1948.4	1963.0	1977.4	2016.2	2070.7	2145.7	2218.4	2292.3	2303.2	2368.6	2401.3
17.5°	2000.5	2019.9	2030.7	2069.5	2127.6	2211.1	2306.9	2391.6	2401.3	2477.6	2518.7
20°	2103.4	2126.4	2130.1	2161.5	2218.4	2308.1	2421.9	2527.2	2539.3	2626.6	2672.6
22.5°	2316.5	2349.2	2320.2	2335.9	2386.7	2476.4	2599.9	2733.1	2750.1	2849.3	2890.5
25°	2692.0	2738.0	2662.8	2636.2	2658.0	2751.3	2906.3	3074.6	3094.0	3173.9	3194.4
27.5°	3429.3	3370.1	3256.2	3144.8	3079.4	3132.7	3307.1	3515.3	3539.5	3617.1	3592.8
30°	4239.5	4187.4	4033.7	3786.7	3631.6	3623.2	3784.2	4016.7	4044.5	4118.4	4044.5
32.5°	5050.8	5001.2	4834.1	4530.1	4261.3	4128.1	4239.5	4497.4	4511.9	4559.2	4450.2
35°	5848.9	5798.0	5630.8	5319.6	4989.1	4686.3	4664.6	4955.2	4960.0	5009.7	4847.4
37.5°	6651.7	6609.3	6431.3	6126.1	5800.4	5382.6	5180.5	5388.7	5394.8	5443.2	5274.9
40°	7224.5	7242.6	7120.4	6884.2	6604.5	6148.0	5759.3	5850.1	5813.7	5894.9	5794.3
42.5°	7716.1	7752.5	7645.9	7527.2	7364.9	6962.9	6476.2	6460.4	6402.3	6445.8	6341.7
45°	8141.2	8171.4	8075.8	8047.9	8044.3	7762.1	7259.6	7165.2	7084.0	7075.6	6950.8
47.5°	8297.4	8355.5	8396.7	8489.9	8671.5	8552.9	8069.7	7923.1	7832.3	7765.8	7568.4
50°	8356.7	8418.4	8559.0	8830.2	9260.1	9310.9	8876.2	8711.5	8600.1	8479.0	8188.4
52.5°	8276.8	8387.0	8575.9	9032.4	9656.0	9918.8	9650.0	9505.8	9378.8	9181.3	8750.2
55°	7805.7	7915.9	8302.2	9029.9	9853.4	10345.0	10381.4	10317.2	10174.4	9863.1	9204.4
57.5°	6812.8	6976.3	7587.8	8722.4	9849.7	10712.0	11098.3	11144.3	10984.4	10538.8	9561.6
60°	5437.1	5658.7	6404.7	8040.6	9545.8	10910.6	11726.7	11956.8	11787.3	11204.8	9851.0
62.5°	3793.8	4050.6	4756.6	6972.6	8850.8	10767.7	12185.7	12610.8	12482.3	11800.6	9962.4
65°	2314.1	2396.4	2965.6	5486.7	7668.8	10169.4	12327.4	12964.3	12922.0	12165.1	9797.7
67.5°	1541.5	1610.6	1774.1	3762.4	5953.0	8974.3	11988.3	12902.6	12914.7	12105.8	9194.7
70°	928.8	988.1	1094.7	2188.2	3858.1	7103.4	10938.4	12115.5	12185.7	11312.6	8051.6
72.5°	382.6	422.6	519.5	991.8	1998.0	4508.4	8710.2	10402.0	10565.5	9511.9	6179.4
75°	216.8	237.4	305.1	497.7	867.0	2100.9	5276.1	7384.3	7625.3	6556.0	3717.6
77.5°	144.1	153.8	197.4	322.2	488.0	716.9	2254.8	3847.1	4307.4	3580.7	1609.4
80°	96.9	105.4	135.6	215.6	317.2	307.6	718.1	1425.3	1753.5	1230.3	392.4
82.5°	65.4	66.6	96.9	141.7	201.0	148.9	211.9	443.2	557.0	356.0	148.9
85°	37.5	36.3	71.4	82.3	89.6	61.8	64.2	133.2	174.4	150.2	84.8
87.5°	4.8	7.3	27.9	21.8	12.1	13.3	13.3	23.0	33.9	36.3	18.1
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°	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9	2100.9
2.5°	2103.4	2102.2	2098.6	2094.9	2086.5	2081.6	2084.0	2081.6	2080.4	2081.6	2086.5
5°	2119.2	2115.5	2105.9	2093.7	2076.8	2056.1	2042.8	2023.5	2005.3	1994.4	1996.8
7.5°	2161.5	2157.9	2144.6	2110.7	2056.1	1970.2	1891.5	1822.4	1770.4	1740.1	1741.4
10°	2229.4	2223.3	2202.7	2127.6	1984.7	1797.0	1640.8	1511.3	1426.5	1386.5	1382.9
12.5°	2309.2	2302.0	2265.7	2111.9	1849.1	1556.1	1340.5	1196.4	1117.7	1082.6	1078.9
15°	2403.7	2394.0	2322.5	2036.8	1651.7	1289.7	1092.2	984.5	933.7	902.1	903.3
17.5°	2521.2	2504.2	2365.0	1924.2	1437.4	1086.2	939.7	858.5	813.7	783.5	781.0
20°	2673.7	2645.9	2398.9	1789.8	1240.0	957.9	836.8	769.0	735.0	708.4	703.6
22.5°	2886.9	2846.9	2440.0	1644.4	1100.7	869.4	760.4	710.8	683.0	652.7	647.9
25°	3150.8	3103.6	2491.0	1510.0	1005.1	793.1	704.8	663.6	630.9	595.8	592.1
27.5°	3520.2	3435.4	2551.4	1399.8	922.7	727.7	653.9	607.9	570.3	541.3	535.3
30°	3931.9	3792.7	2604.7	1333.2	847.7	667.3	587.3	541.3	506.1	485.5	482.0
32.5°	4321.8	4132.9	2639.9	1304.2	779.8	598.2	514.7	465.0	438.4	432.3	435.9
35°	4690.0	4440.5	2636.2	1276.3	719.3	529.2	443.2	392.4	371.8	375.4	375.4
37.5°	5113.8	4768.7	2610.8	1232.8	669.6	466.2	381.4	336.6	318.5	319.7	324.5
40°	5606.6	5147.8	2595.1	1150.4	615.2	408.1	330.6	294.3	281.0	276.1	274.9
42.5°	6132.2	5514.6	2597.5	1057.2	547.3	356.0	295.5	265.2	253.1	249.5	248.3
45°	6660.1	5864.5	2601.1	960.3	475.9	316.0	270.1	244.6	237.4	232.5	232.5
47.5°	7156.7	6162.5	2533.3	856.2	405.7	285.8	249.5	232.5	226.4	220.4	220.4
50°	7619.2	6361.0	2369.8	735.0	349.9	261.6	233.7	221.6	215.6	209.5	209.5
52.5°	7978.9	6392.5	2099.8	610.3	311.2	243.4	224.1	213.1	205.8	199.8	198.6
55°	8138.7	6195.2	1716.0	494.0	281.0	227.7	214.3	203.5	195.0	188.9	187.7
57.5°	8097.6	5779.8	1338.1	397.2	251.8	211.9	202.2	195.0	185.3	175.6	174.4
60°	7895.4	5224.0	1008.7	330.6	225.2	195.0	188.9	182.9	169.5	155.0	152.6
62.5°	7545.3	4525.3	719.3	273.7	196.2	175.6	173.1	168.3	148.9	122.3	119.9
65°	7010.2	3676.4	484.4	227.7	168.3	153.8	155.0	146.6	121.1	90.8	88.4
67.5°	6227.9	2688.3	310.0	186.4	140.4	128.3	129.6	124.7	102.9	77.5	73.9
70°	5231.3	1780.1	202.2	141.7	112.6	99.3	106.6	107.7	87.2	62.9	60.6
72.5°	3835.0	1051.1	141.7	105.4	82.3	69.0	87.2	89.6	70.2	47.3	44.8
75°	2185.7	498.9	106.6	76.3	50.8	48.5	67.9	67.9	48.5	31.5	29.1
77.5°	917.9	208.3	75.0	49.6	29.1	27.9	46.0	42.3	24.2	14.6	14.6
80°	265.2	93.3	40.0	24.2	12.1	10.9	18.1	13.3	6.0	2.5	2.5
82.5°	104.1	41.2	15.8	9.7	4.8	4.8	2.5	0.0	0.0	0.0	0.0
85°	61.8	16.9	7.3	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.8	3.6	2.5	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)