

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: P967791

Luminaire Tested: **NAV-SB5A-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967791
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-SB5A-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA 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: 17943.6 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 141.7
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



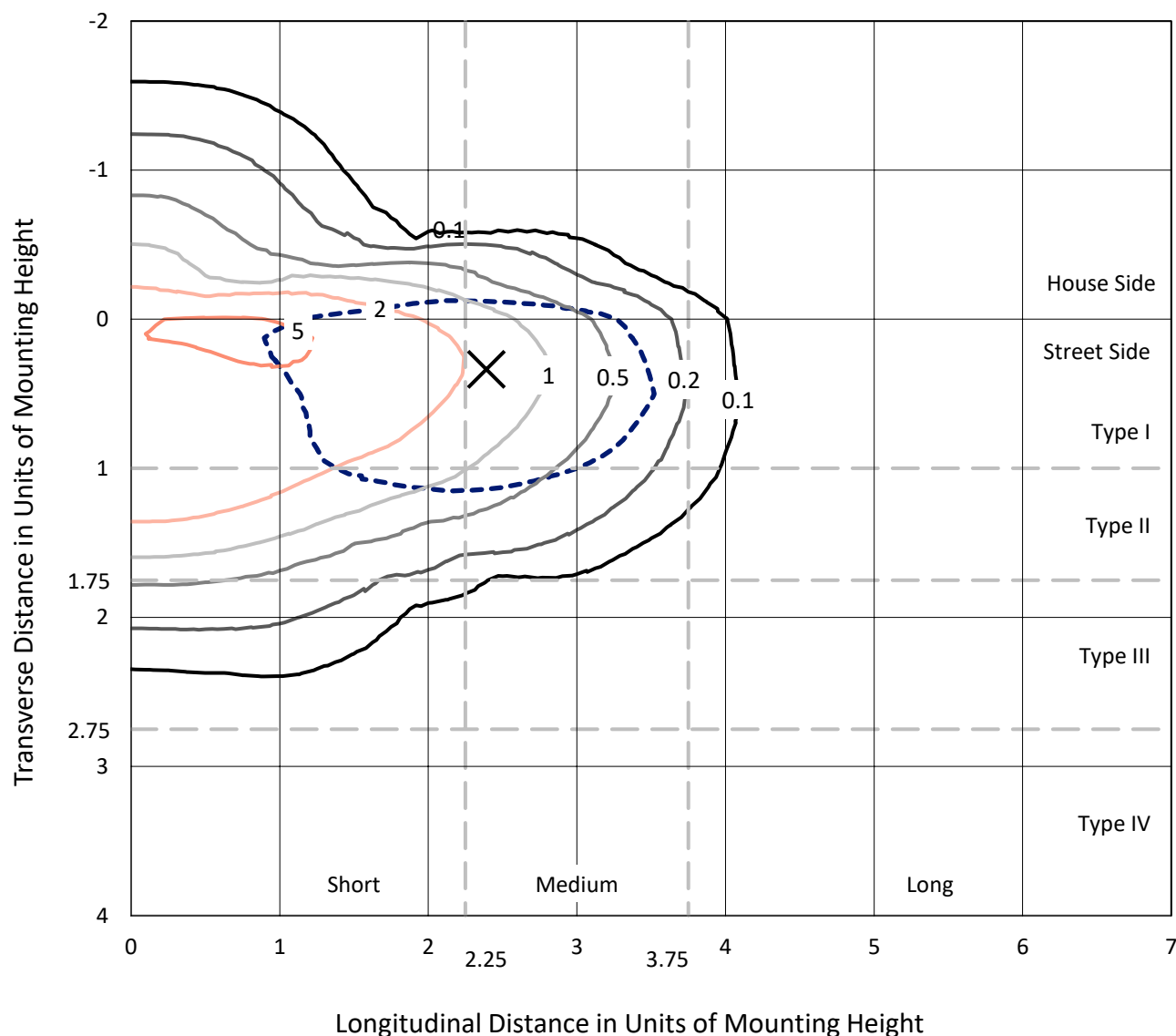
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

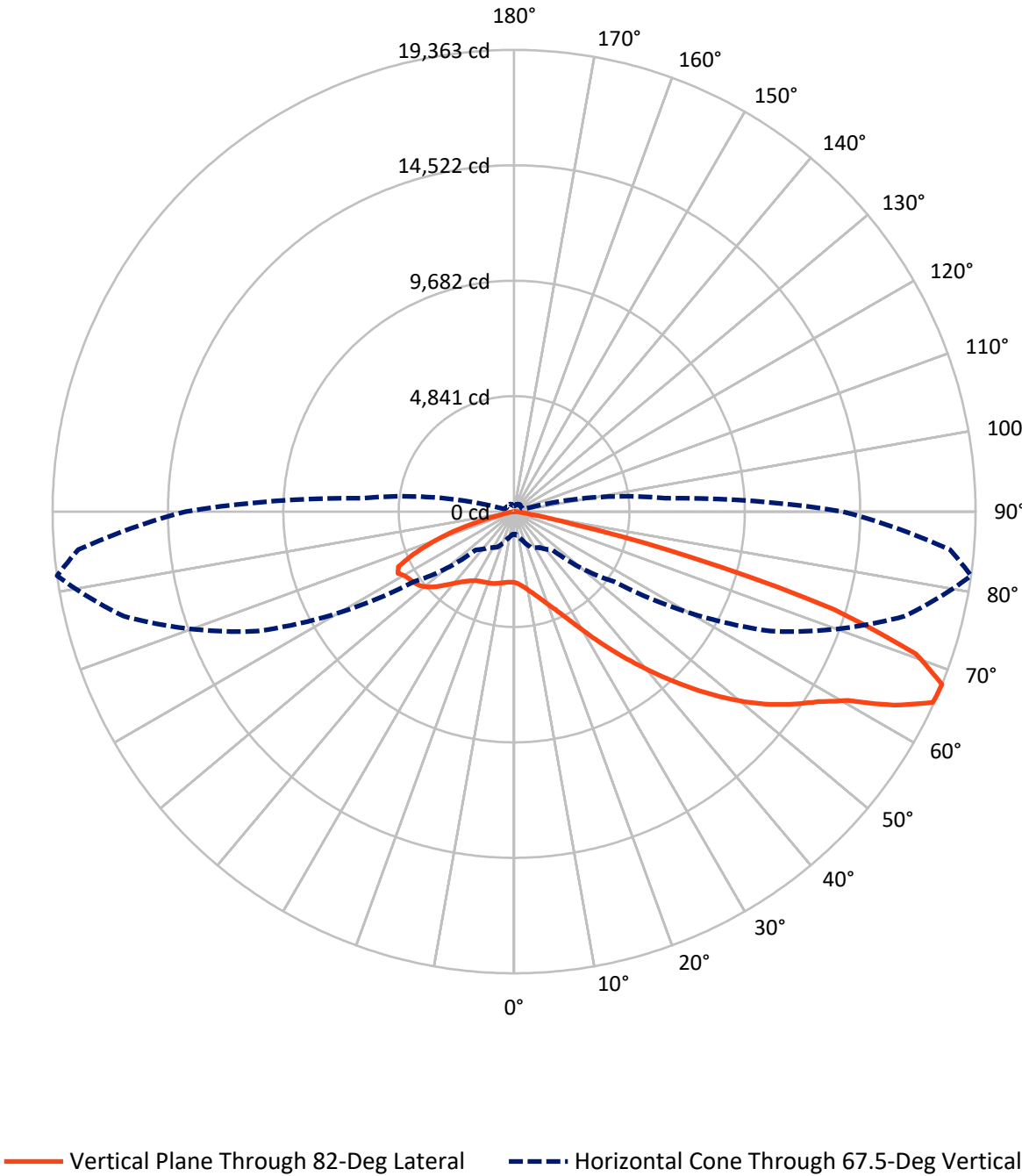
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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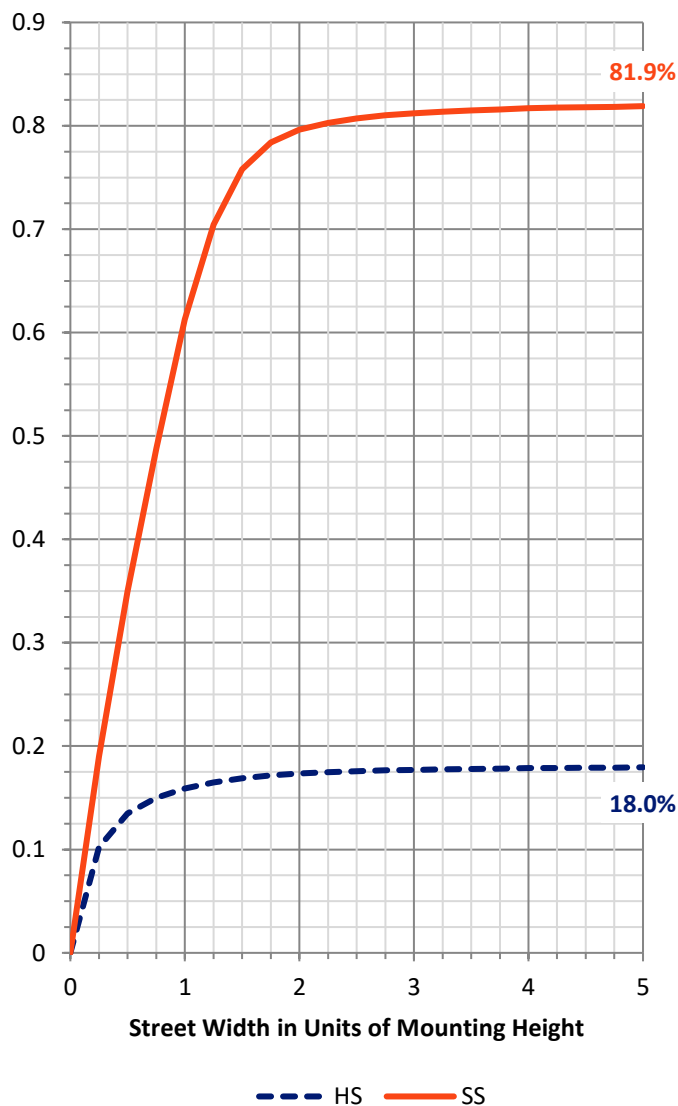
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3250.3	0.0	3250.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14693.3	0.0	14693.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	17943.6	0.0	17943.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.5
10°-20°	688.2	3.8
20°-30°	1102.3	6.1
30°-40°	1949.2	10.9
40°-50°	3415.2	19.0
50°-60°	4554.9	25.4
60°-70°	4240.4	23.6
70°-80°	1627.5	9.1
80°-90°	101.1	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°	17943.6	100.0
0°-180°	17943.6	100.0

Coefficient of Utilization



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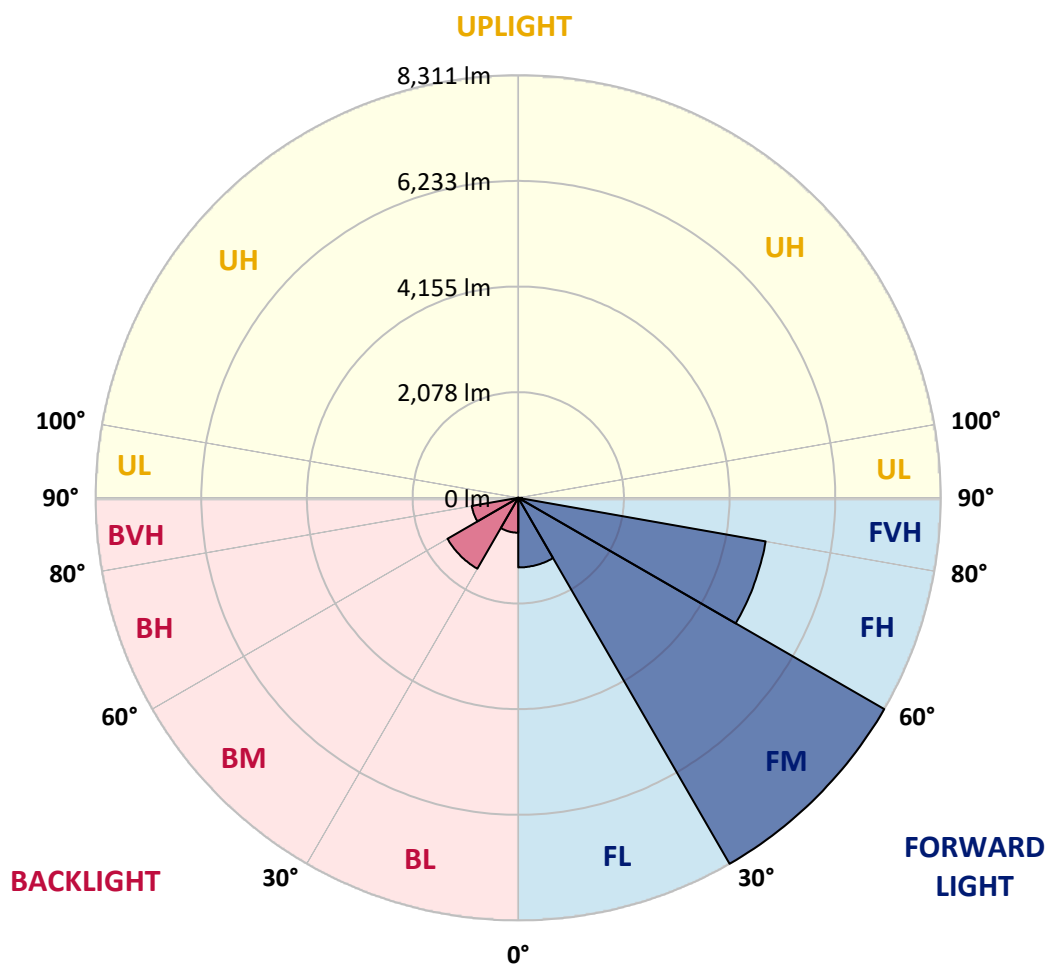
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.9	7.6			
FM	(30°-60°)	8310.8	46.3			
FH	(60°-80°)	4940.2	27.5			G2/5000
FVH	(80°-90°)	73.5	0.4			G1/100
BL	(0°-30°)	686.5	3.8	B2/1000		
BM	(30°-60°)	1608.6	9.0	B2/2500		
BH	(60°-80°)	927.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	27.6	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°	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7
2.5°	3141.9	3160.0	3149.6	3144.5	3135.5	3122.6	3112.2	3079.9	3046.3	3024.4	3016.6
5°	3205.2	3223.3	3222.0	3227.1	3233.7	3237.5	3234.9	3198.7	3151.0	3113.4	3091.5
7.5°	3151.0	3171.7	3188.4	3214.2	3259.5	3307.3	3330.5	3322.7	3273.6	3222.0	3194.8
10°	2997.2	3019.1	3059.2	3119.9	3215.5	3318.8	3405.5	3445.5	3414.5	3357.6	3320.2
12.5°	2715.5	2737.6	2816.3	2948.1	3108.3	3287.9	3453.2	3560.4	3568.2	3511.3	3467.5
15°	2399.0	2421.0	2505.0	2670.3	2914.5	3202.6	3479.1	3681.9	3750.4	3701.3	3648.3
17.5°	2202.7	2222.1	2285.3	2418.4	2672.9	3032.1	3470.0	3811.1	3967.5	3928.6	3865.4
20°	2143.3	2160.1	2189.8	2282.8	2494.6	2855.1	3410.6	3932.5	4201.3	4179.3	4108.2
22.5°	2206.5	2222.1	2231.1	2272.4	2405.5	2738.8	3335.7	4056.5	4472.6	4475.2	4388.5
25°	2352.6	2368.1	2357.7	2383.5	2441.7	2702.6	3307.3	4202.5	4813.6	4842.0	4743.8
27.5°	2592.8	2594.2	2569.6	2568.3	2577.4	2756.9	3337.0	4358.8	5243.8	5296.8	5175.3
30°	3074.7	3055.3	2961.0	2858.9	2812.5	2919.7	3419.6	4543.6	5751.5	5845.9	5693.4
32.5°	3817.5	3789.1	3616.0	3371.8	3126.4	3181.9	3568.2	4754.2	6304.5	6475.0	6289.0
35°	4623.7	4616.0	4435.1	4072.0	3643.2	3555.3	3809.8	5030.6	6907.8	7179.1	6958.1
37.5°	5373.0	5369.2	5265.7	4838.2	4316.3	4075.9	4197.4	5392.4	7553.7	7946.4	7685.4
40°	6057.7	6069.3	5966.0	5583.6	5057.8	4743.8	4724.4	5839.4	8272.1	8782.3	8472.2
42.5°	6649.4	6662.3	6557.6	6274.7	5790.3	5482.8	5371.7	6387.2	8973.6	9680.2	9313.3
45°	7051.2	7131.2	7115.8	6889.6	6542.2	6223.1	6149.4	7074.4	9773.2	10632.3	10202.1
47.5°	7164.9	7238.6	7354.8	7385.7	7173.9	6860.0	6947.9	7902.5	10581.9	11585.8	11096.1
50°	6884.5	6953.0	7194.6	7516.2	7663.5	7566.7	7724.3	8790.1	11410.0	12536.6	11973.3
52.5°	6331.6	6401.3	6706.3	7215.3	7815.9	8120.9	8503.3	9664.7	12212.3	13437.0	12804.0
55°	5531.9	5605.5	5997.0	6573.2	7525.3	8349.5	9153.0	10538.0	12947.4	14247.1	13553.3
57.5°	4444.1	4498.4	4905.3	5711.5	6794.1	8122.2	9632.3	11491.4	13639.9	15042.9	14296.1
60°	2896.4	2944.2	3417.0	4316.3	5582.3	7362.5	9728.0	12554.6	14559.7	16077.6	15297.3
62.5°	1926.2	1958.5	2238.9	2899.0	3931.3	5904.0	9168.6	13403.4	15908.4	17878.6	17014.3
65°	1321.6	1353.9	1634.3	2094.2	2539.8	3905.5	7560.2	13291.1	17130.5	19308.7	18286.8
67.5°	943.1	970.3	1208.0	1642.0	1838.3	2268.5	5125.0	11854.4	16954.8	19363.0	18355.3
70°	675.7	691.2	887.5	1279.0	1461.1	1362.9	2849.9	9066.5	14845.2	17879.9	16957.4
72.5°	472.8	478.0	616.2	974.1	1176.9	994.8	1356.5	6044.8	11227.8	14033.9	13146.3
75°	320.4	326.9	414.7	714.4	944.3	759.6	718.3	3241.4	6591.3	7768.2	6963.3
77.5°	196.4	199.0	267.4	488.3	706.6	578.8	462.5	1373.3	2550.2	2503.7	2134.3
80°	111.1	111.1	170.6	303.6	481.9	373.4	324.3	583.9	807.4	709.3	625.2
82.5°	62.0	63.3	124.0	188.6	319.1	220.9	178.2	270.0	348.8	308.7	268.8
85°	25.8	28.4	76.3	89.2	152.4	109.8	72.4	113.7	129.1	115.0	83.9
87.5°	2.6	3.9	23.3	16.8	18.0	21.9	10.4	21.9	18.0	18.0	12.9
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°	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7	2972.7
2.5°	2992.1	2972.7	2923.6	2866.7	2791.8	2755.6	2706.5	2672.9	2644.5	2647.1	2621.2
5°	3050.2	3001.1	2891.2	2754.3	2583.8	2462.4	2333.2	2244.0	2171.7	2156.2	2121.3
7.5°	3130.2	3052.8	2860.3	2613.5	2325.4	2107.1	1912.0	1786.7	1697.5	1669.1	1640.7
10°	3233.7	3121.2	2820.2	2436.5	2021.8	1744.0	1534.7	1436.6	1375.9	1355.2	1339.7
12.5°	3353.8	3200.0	2767.3	2220.8	1709.2	1441.8	1308.7	1259.6	1240.2	1233.8	1229.9
15°	3504.9	3298.2	2687.1	1964.9	1444.3	1257.1	1200.2	1193.7	1196.3	1193.7	1192.4
17.5°	3684.5	3405.5	2556.7	1701.4	1266.1	1162.7	1142.1	1147.2	1153.6	1152.4	1149.7
20°	3880.9	3511.3	2390.0	1467.6	1144.6	1095.5	1083.9	1089.1	1094.2	1091.6	1090.4
22.5°	4104.4	3625.0	2205.3	1285.5	1063.2	1033.5	1020.6	1021.9	1021.9	1016.7	1014.1
25°	4371.8	3750.4	2011.5	1156.2	1001.2	978.0	962.5	957.2	949.6	934.1	931.4
27.5°	4690.9	3883.4	1825.4	1065.8	952.1	930.2	912.0	899.1	879.8	853.9	851.4
30°	5050.1	4045.0	1667.9	1009.0	913.4	891.4	870.7	851.4	823.0	790.7	788.0
32.5°	5472.5	4218.1	1552.9	971.5	878.5	855.3	830.7	807.4	776.4	744.2	745.4
35°	5976.4	4427.3	1485.6	945.7	851.4	820.3	793.2	767.4	744.2	715.8	713.1
37.5°	6522.8	4649.5	1465.0	932.7	833.2	785.5	754.5	736.4	733.8	717.0	715.8
40°	7121.0	4913.1	1480.5	925.0	813.8	751.8	718.3	714.4	720.9	691.2	692.5
42.5°	7753.9	5225.8	1506.3	915.9	786.8	718.3	686.0	686.0	680.8	639.5	639.5
45°	8438.7	5586.1	1532.2	894.0	754.5	684.7	660.2	651.1	629.1	589.1	587.8
47.5°	9128.5	5953.1	1551.5	853.9	715.8	656.3	634.4	613.7	581.4	545.2	543.9
50°	9783.5	6282.5	1530.9	794.5	671.8	629.1	605.9	577.5	542.6	518.0	514.1
52.5°	10368.8	6568.0	1443.1	724.8	625.2	600.8	580.0	550.3	521.9	496.1	493.5
55°	10877.8	6799.2	1288.0	658.9	583.9	576.2	555.6	518.0	479.3	457.4	454.8
57.5°	11366.1	6974.9	1094.2	604.6	546.4	549.1	518.0	484.4	448.3	425.1	422.4
60°	12016.0	7210.1	897.9	554.2	506.5	514.1	480.6	456.0	410.8	381.1	377.2
62.5°	13054.6	7575.7	713.1	492.2	459.9	462.5	448.3	418.6	364.3	329.4	326.9
65°	13878.8	7441.3	562.0	425.1	406.9	410.8	410.8	378.5	320.4	280.3	276.4
67.5°	13785.8	6371.6	448.3	359.2	356.6	359.2	368.2	341.0	284.2	251.9	246.7
70°	12699.3	5068.1	359.2	298.4	310.1	303.6	329.4	311.4	255.8	223.4	219.7
72.5°	10362.3	3650.9	273.9	246.7	237.7	248.0	297.1	280.3	213.2	177.0	173.1
75°	6055.1	1948.2	204.1	195.1	171.8	206.7	263.5	239.0	162.8	130.5	126.6
77.5°	1971.5	679.6	149.9	143.4	127.9	166.7	224.8	201.5	133.0	103.3	99.4
80°	528.4	205.4	102.1	94.3	82.7	124.0	178.2	160.2	95.6	67.1	65.9
82.5°	211.9	86.5	59.4	53.0	45.2	85.3	140.8	129.1	71.0	42.6	42.6
85°	68.5	28.4	21.9	16.8	20.7	53.0	83.9	87.8	50.4	21.9	16.8
87.5°	9.0	3.9	3.9	5.1	3.9	9.0	25.8	24.5	14.2	2.6	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)