

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: P970370

Luminaire Tested: **NAV-SB6B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970370
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-SB6B-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

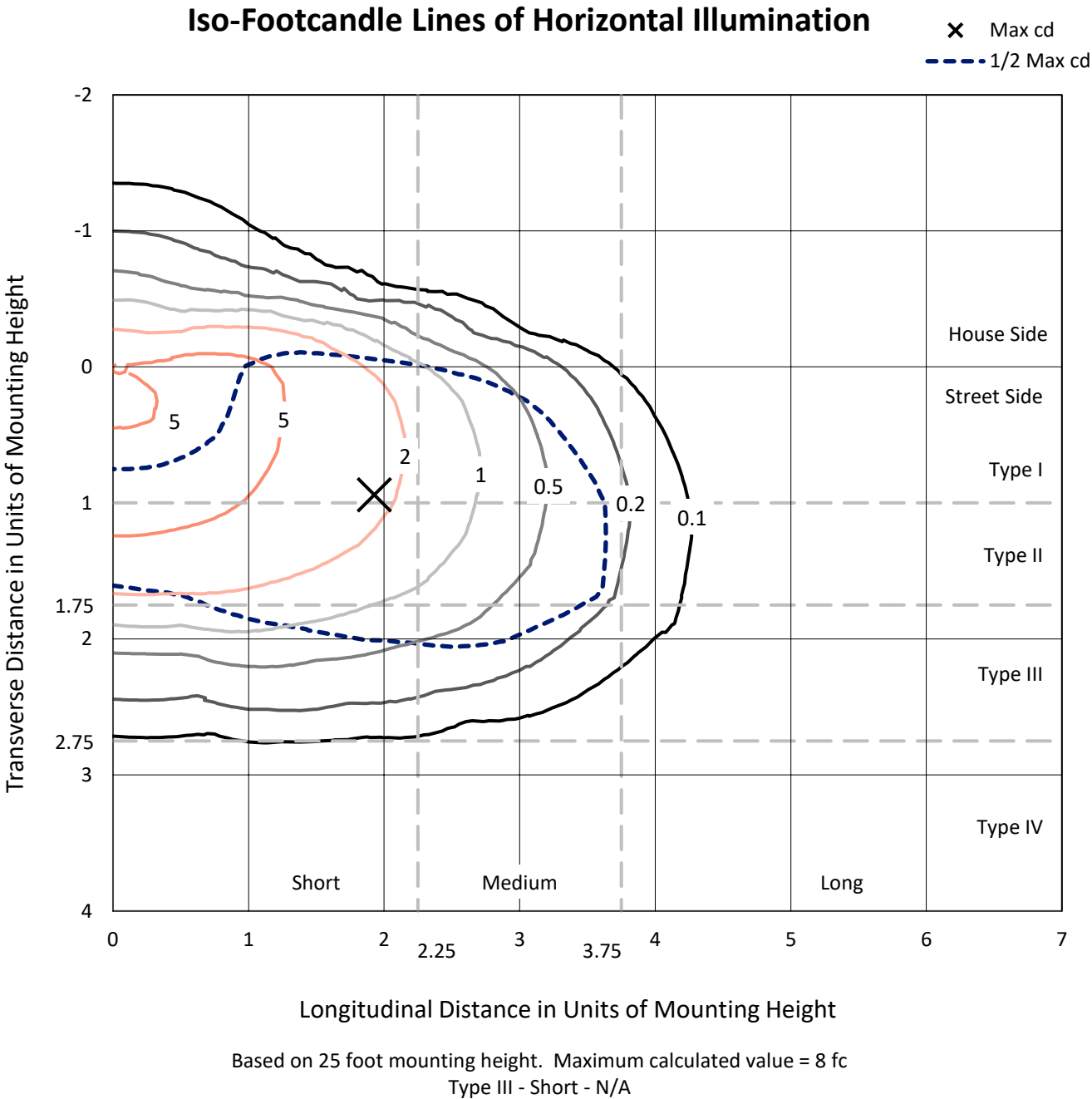
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27450.5 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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

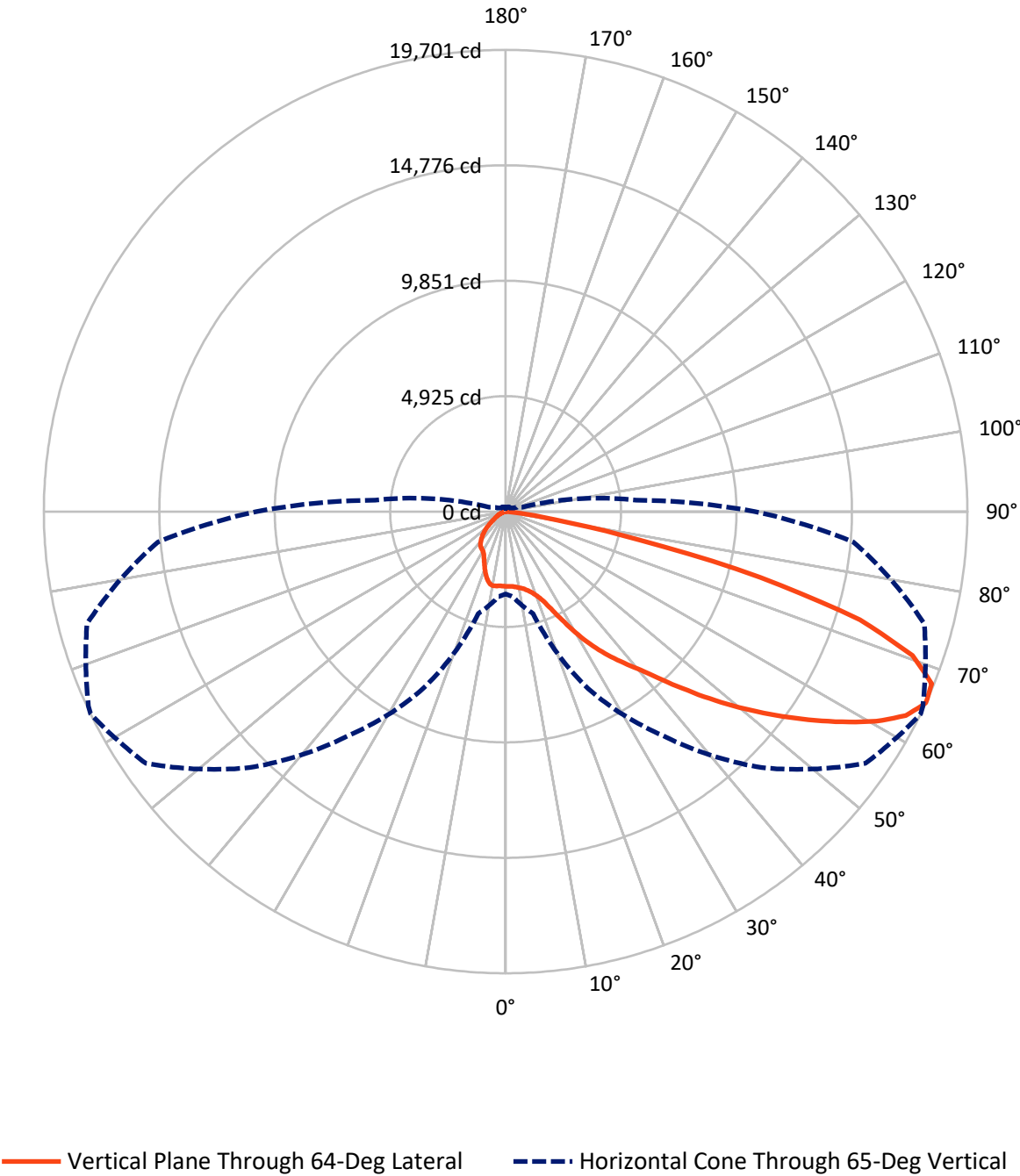


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Luminous Intensity Polar Plot



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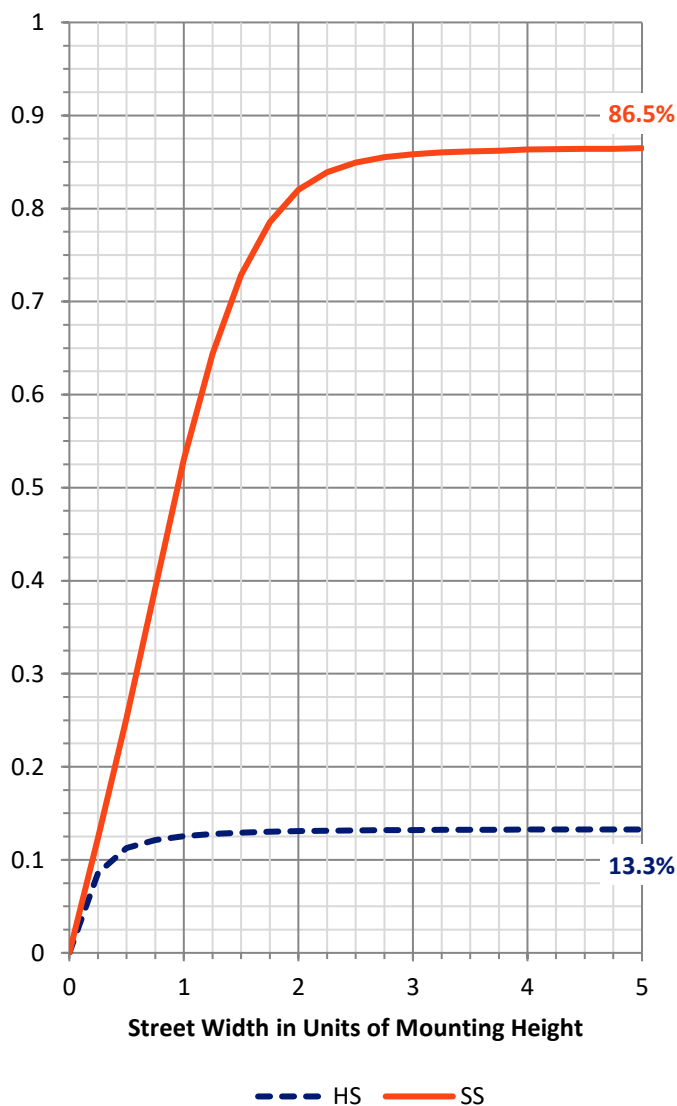
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3671.0	0.0	3671.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23779.6	0.0	23779.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	27450.5	0.0	27450.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.1
10°-20°	799.0	2.9
20°-30°	1513.9	5.5
30°-40°	3063.5	11.2
40°-50°	5218.7	19.0
50°-60°	7097.0	25.9
60°-70°	6664.4	24.3
70°-80°	2670.1	9.7
80°-90°	129.4	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°	27450.5	100.0
0°-180°	27450.5	100.0

Coefficient of Utilization



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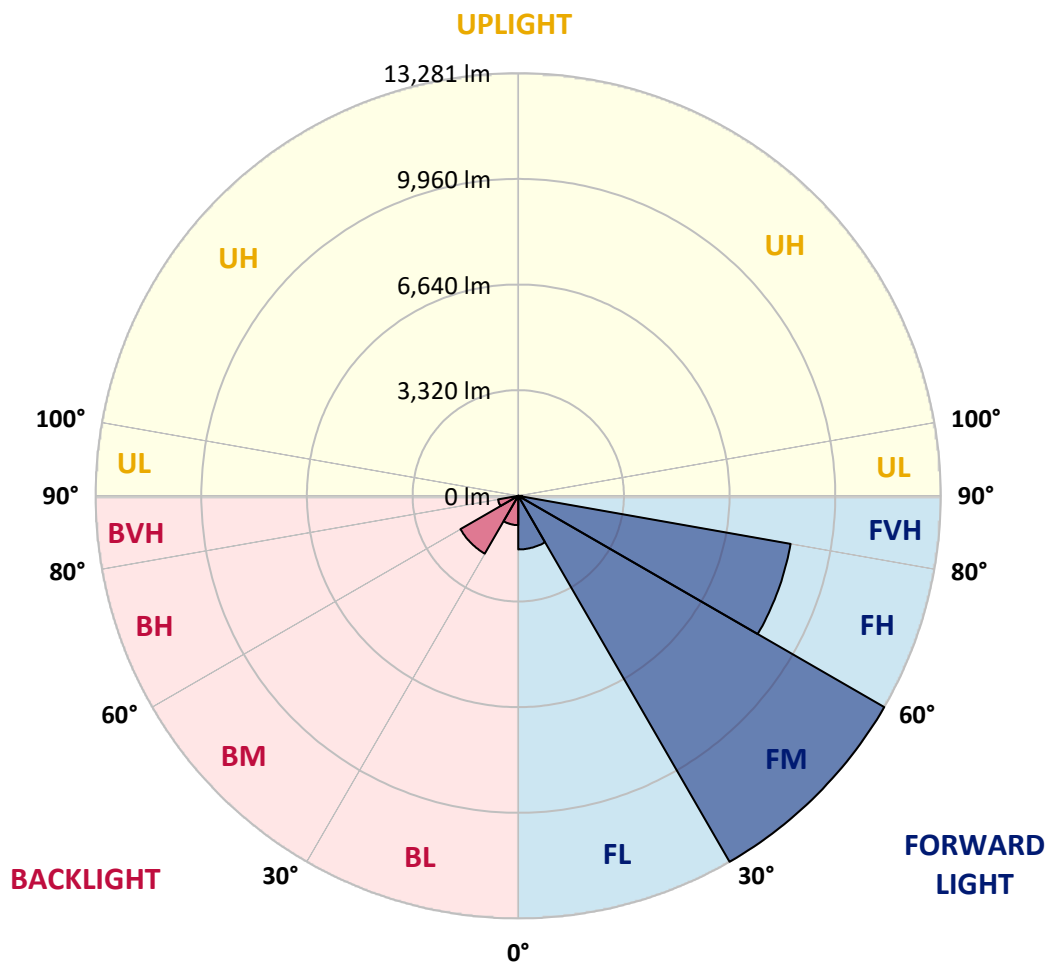
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1685.8	6.1			
FM	(30°-60°)	13280.5	48.4			
FH	(60°-80°)	8690.2	31.7			G4/12000
FVH	(80°-90°)	123.0	0.4			G2/225
BL	(0°-30°)	921.7	3.4	B2/1000		
BM	(30°-60°)	2098.7	7.6	B2/2500		
BH	(60°-80°)	644.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8
2.5°	3181.7	3203.8	3198.3	3192.8	3190.9	3194.6	3196.5	3194.6	3194.6	3194.6	3196.5
5°	3121.0	3139.4	3139.4	3152.3	3170.7	3192.8	3209.4	3213.1	3216.7	3222.2	3220.3
7.5°	3005.1	3019.8	3030.8	3073.2	3119.2	3178.0	3227.7	3253.6	3257.1	3277.4	3284.8
10°	2926.0	2944.3	2962.8	3006.9	3073.2	3161.5	3246.2	3308.7	3317.9	3365.8	3387.8
12.5°	2922.3	2940.6	2964.6	3012.5	3089.8	3183.5	3286.7	3376.8	3393.4	3463.3	3509.3
15°	2960.9	2983.0	3005.1	3063.9	3146.7	3260.8	3371.3	3483.6	3500.1	3599.5	3649.2
17.5°	3040.0	3069.5	3086.1	3144.9	3233.3	3360.3	3505.6	3634.4	3649.2	3765.1	3827.7
20°	3196.5	3231.4	3237.0	3284.8	3371.3	3507.4	3680.5	3840.6	3858.9	3991.5	4061.4
22.5°	3520.4	3570.1	3525.9	3549.8	3627.1	3763.3	3951.0	4153.4	4179.1	4330.0	4392.6
25°	4090.8	4160.8	4046.6	4006.1	4039.3	4181.0	4416.5	4672.4	4701.8	4823.2	4854.5
27.5°	5211.5	5121.3	4948.4	4779.1	4679.6	4760.6	5025.7	5342.2	5379.0	5496.8	5460.0
30°	6442.6	6363.5	6129.8	5754.3	5518.8	5505.9	5750.7	6104.0	6146.3	6258.5	6146.3
32.5°	7675.5	7600.1	7346.2	6884.3	6475.7	6273.3	6442.6	6834.6	6856.6	6928.4	6762.8
35°	8888.3	8811.0	8557.0	8084.1	7581.7	7121.7	7088.5	7530.2	7537.5	7613.0	7366.4
37.5°	10108.3	10043.9	9773.4	9309.7	8814.7	8179.8	7872.4	8188.9	8198.2	8271.8	8016.0
40°	10978.8	11006.3	10820.5	10461.7	10036.6	9342.8	8752.1	8890.1	8834.9	8958.2	8805.5
42.5°	11725.9	11781.0	11619.2	11438.8	11192.2	10581.3	9841.5	9817.6	9729.2	9795.5	9637.3
45°	12371.7	12417.8	12272.4	12230.1	12224.6	11795.8	11032.1	10888.6	10765.3	10752.4	10562.8
47.5°	12609.1	12697.5	12760.1	12901.8	13177.8	12997.5	12263.2	12040.6	11902.5	11801.3	11501.4
50°	12699.3	12793.2	13006.6	13418.9	14072.1	14149.4	13488.8	13238.5	13069.3	12885.2	12443.6
52.5°	12577.9	12745.4	13032.5	13726.2	14673.9	15073.2	14664.7	14445.7	14252.5	13952.5	13297.4
55°	11862.0	12029.5	12616.5	13722.5	14973.9	15721.0	15776.2	15678.7	15461.5	14988.6	13987.6
57.5°	10353.1	10601.5	11530.8	13255.1	14968.4	16278.5	16865.7	16935.6	16692.6	16015.4	14530.4
60°	8262.6	8599.3	9732.9	12219.0	14506.4	16580.4	17820.6	18170.4	17912.7	17027.5	14970.2
62.5°	5765.4	6155.5	7228.4	10595.9	13450.2	16363.2	18518.2	19164.0	18969.0	17933.0	15139.5
65°	3516.7	3641.8	4506.7	8338.1	11654.1	15454.1	18733.4	19701.4	19636.9	18486.8	14889.3
67.5°	2342.6	2447.5	2696.0	5717.6	9046.5	13637.8	18218.1	19607.5	19626.0	18396.7	13972.8
70°	1411.4	1501.6	1663.6	3325.3	5862.9	10794.7	16622.7	18411.4	18518.2	17191.3	12235.6
72.5°	581.5	642.3	789.5	1507.2	3036.4	6851.1	13236.7	15807.4	16055.9	14455.0	9390.6
75°	329.4	360.7	463.7	756.3	1317.6	3192.8	8017.9	11221.7	11587.8	9963.0	5649.5
77.5°	218.9	233.7	299.9	489.5	741.6	1089.4	3426.5	5846.4	6545.6	5441.5	2445.6
80°	147.2	160.1	206.1	327.6	482.2	467.4	1091.2	2165.9	2664.6	1869.7	596.2
82.5°	99.3	101.2	147.2	215.4	305.4	226.3	322.1	673.5	846.5	541.0	226.3
85°	57.1	55.2	108.5	125.2	136.2	93.9	97.6	202.4	265.0	228.2	128.8
87.5°	7.4	11.1	42.3	33.1	18.4	20.2	20.2	35.0	51.6	55.2	27.6
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°	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8	3192.8
2.5°	3196.5	3194.6	3189.1	3183.5	3170.7	3163.4	3167.0	3163.4	3161.5	3163.4	3170.7
5°	3220.3	3214.9	3200.2	3181.7	3156.0	3124.7	3104.4	3075.0	3047.4	3030.8	3034.5
7.5°	3284.8	3279.3	3259.0	3207.5	3124.7	2994.0	2874.4	2769.5	2690.4	2644.4	2646.2
10°	3387.8	3378.6	3347.3	3233.3	3016.2	2730.9	2493.5	2296.6	2167.8	2107.1	2101.6
12.5°	3509.3	3498.2	3443.1	3209.4	2810.0	2364.7	2037.1	1818.1	1698.5	1645.1	1639.6
15°	3652.8	3638.1	3529.6	3095.3	2510.0	1959.8	1659.9	1496.1	1418.8	1370.9	1372.8
17.5°	3831.3	3805.6	3594.0	2924.1	2184.4	1650.7	1428.0	1304.7	1236.7	1190.6	1186.9
20°	4063.2	4020.9	3645.5	2719.8	1884.4	1455.6	1271.6	1168.5	1117.0	1076.6	1069.2
22.5°	4387.1	4326.3	3708.0	2499.1	1672.8	1321.3	1155.7	1080.2	1037.9	991.9	984.5
25°	4788.3	4716.4	3785.3	2294.8	1527.4	1205.3	1071.0	1008.4	958.8	905.4	899.8
27.5°	5349.5	5220.7	3877.4	2127.3	1402.2	1106.0	993.7	923.8	866.7	822.6	813.3
30°	5975.2	5763.6	3958.3	2026.1	1288.1	1013.9	892.5	822.6	769.3	737.9	732.4
32.5°	6567.8	6280.7	4011.6	1981.9	1185.1	909.1	782.1	706.6	666.1	656.9	662.5
35°	7127.1	6748.1	4006.1	1939.6	1093.1	804.2	673.5	596.2	565.0	570.5	570.5
37.5°	7771.2	7246.7	3967.5	1873.4	1017.6	708.5	579.6	511.6	484.0	485.8	493.2
40°	8520.2	7822.8	3943.6	1748.2	934.8	620.1	502.4	447.2	426.9	419.5	417.7
42.5°	9318.9	8380.4	3947.3	1606.5	831.8	541.0	449.1	403.0	384.6	379.0	377.2
45°	10121.2	8912.2	3952.8	1459.3	723.2	480.3	410.4	371.8	360.7	353.3	353.3
47.5°	10875.7	9364.9	3849.7	1301.0	616.4	434.3	379.0	353.3	344.1	335.0	335.0
50°	11578.7	9666.7	3601.3	1117.0	531.9	397.5	355.2	336.7	327.6	318.4	318.4
52.5°	12125.2	9714.5	3190.9	927.4	472.9	369.9	340.4	323.9	312.8	303.6	301.8
55°	12368.2	9414.5	2607.6	750.8	426.9	345.9	325.7	309.1	296.2	287.1	285.3
57.5°	12305.5	8783.3	2033.4	603.6	382.7	322.1	307.3	296.2	281.6	266.8	265.0
60°	11998.2	7938.7	1532.9	502.4	342.2	296.2	287.1	277.9	257.6	235.5	231.9
62.5°	11466.4	6876.9	1093.1	415.8	298.1	266.8	263.1	255.8	226.3	185.8	182.1
65°	10653.0	5586.9	736.1	345.9	255.8	233.7	235.5	222.6	184.0	138.1	134.4
67.5°	9464.2	4085.2	471.1	283.4	213.5	195.1	196.9	189.5	156.4	117.8	112.2
70°	7949.8	2705.1	307.3	215.4	171.2	150.9	162.0	163.8	132.5	95.7	92.0
72.5°	5827.9	1597.4	215.4	160.1	125.2	104.9	132.5	136.2	106.7	71.8	68.1
75°	3321.6	758.2	162.0	115.9	77.3	73.6	103.0	103.0	73.6	47.9	44.2
77.5°	1394.9	316.5	114.1	75.4	44.2	42.3	69.9	64.4	36.8	22.0	22.0
80°	403.0	141.7	60.7	36.8	18.4	16.6	27.6	20.2	9.2	3.7	3.7
82.5°	158.3	62.5	23.9	14.8	7.4	7.4	3.7	0.0	0.0	0.0	0.0
85°	93.9	25.7	11.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.9	5.5	3.7	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)