Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: McGRAW-EDISON

Report Number: P941268

Luminaire Tested: **GALN-SB4D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P941268
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4D-722-U-T4FT-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25509 lumens
Efficiency:	N/A
Efficacy:	86.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G4

Input Watts (W):	293.6
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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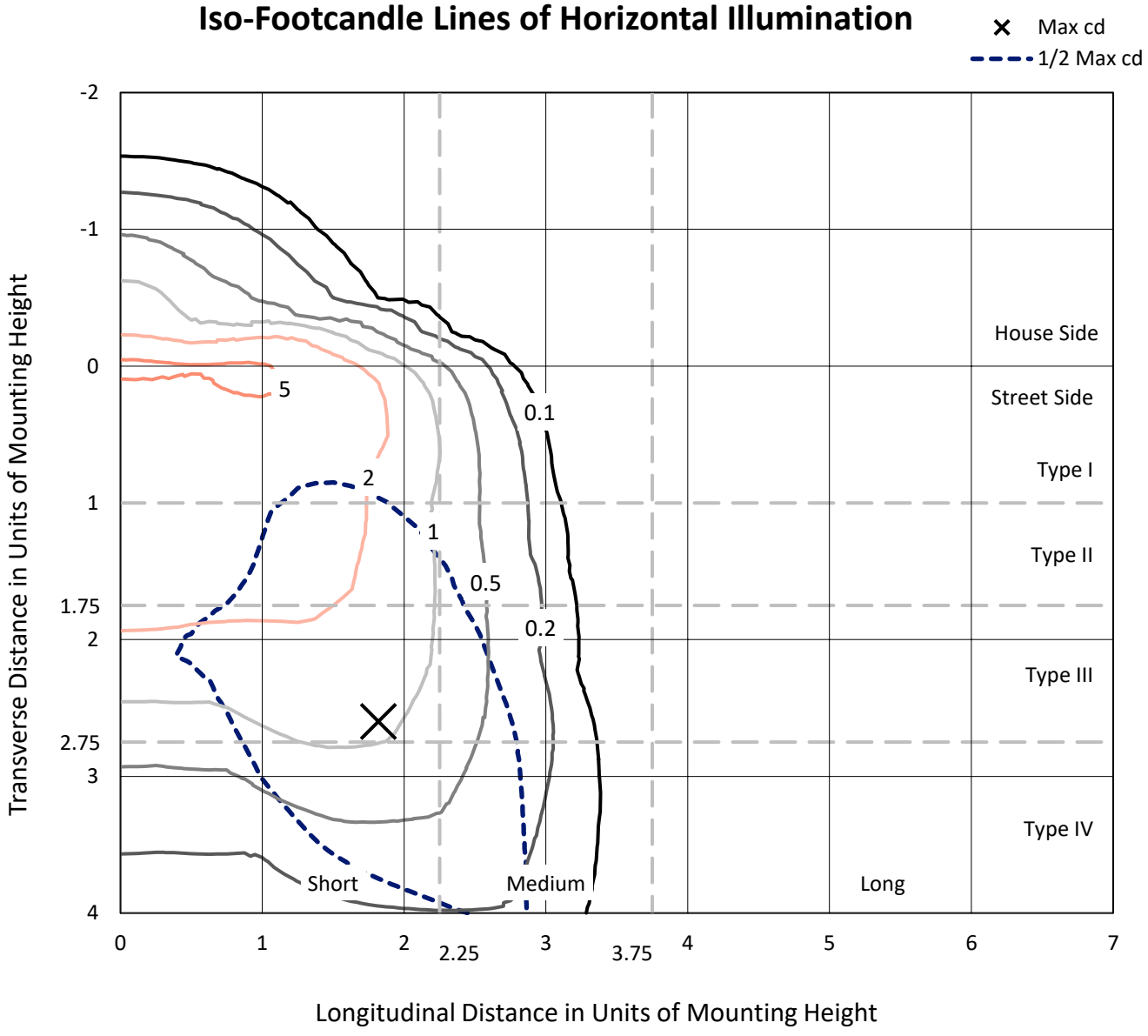
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - N/A

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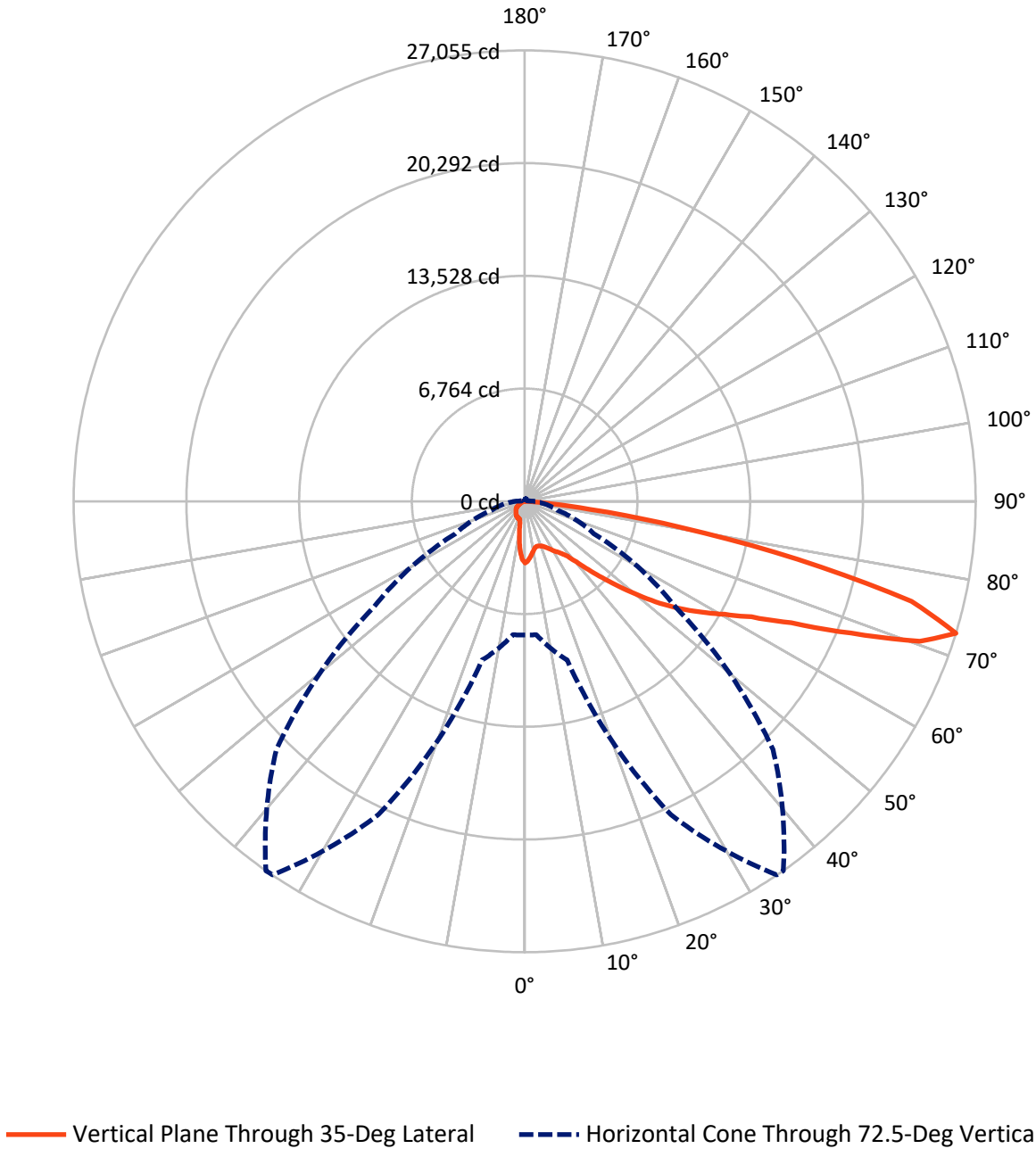
Luminous Intensity Polar Plot



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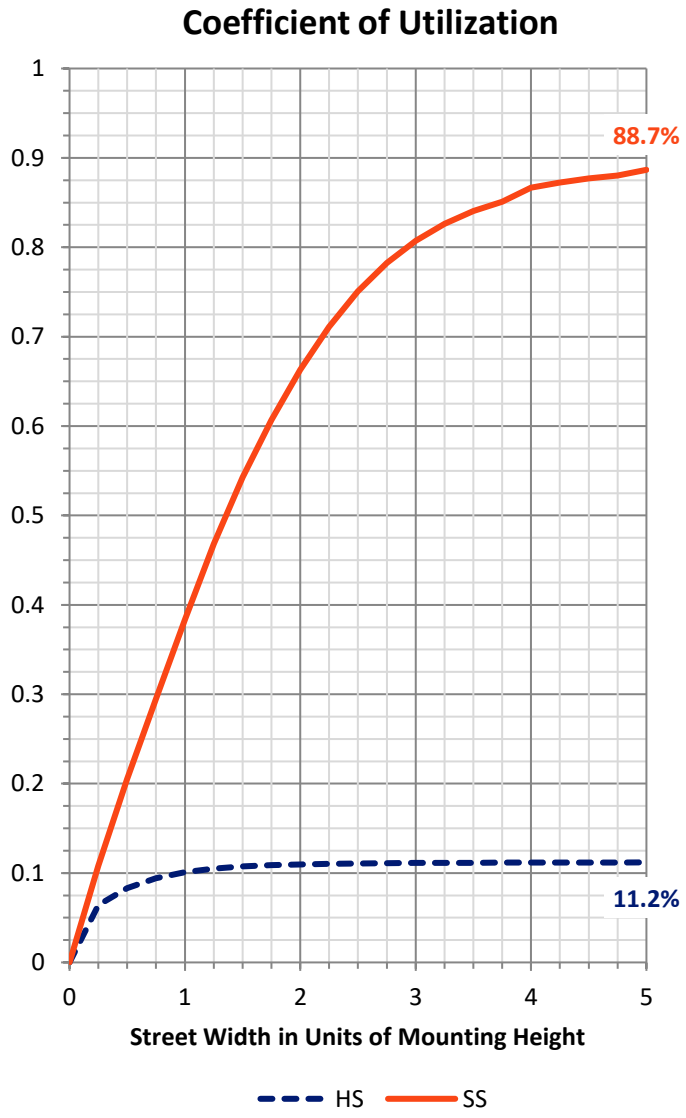
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2870.9	0.0	2870.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22638.1	0.0	22638.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	25509.0	0.0	25509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	1.2
10°-20°	710.7	2.8
20°-30°	1154.5	4.5
30°-40°	1926.3	7.6
40°-50°	3644.7	14.3
50°-60°	5791.4	22.7
60°-70°	7164.3	28.1
70°-80°	4453.4	17.5
80°-90°	359.9	1.4
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°	25509.0	100.0
0°-180°	25509.0	100.0



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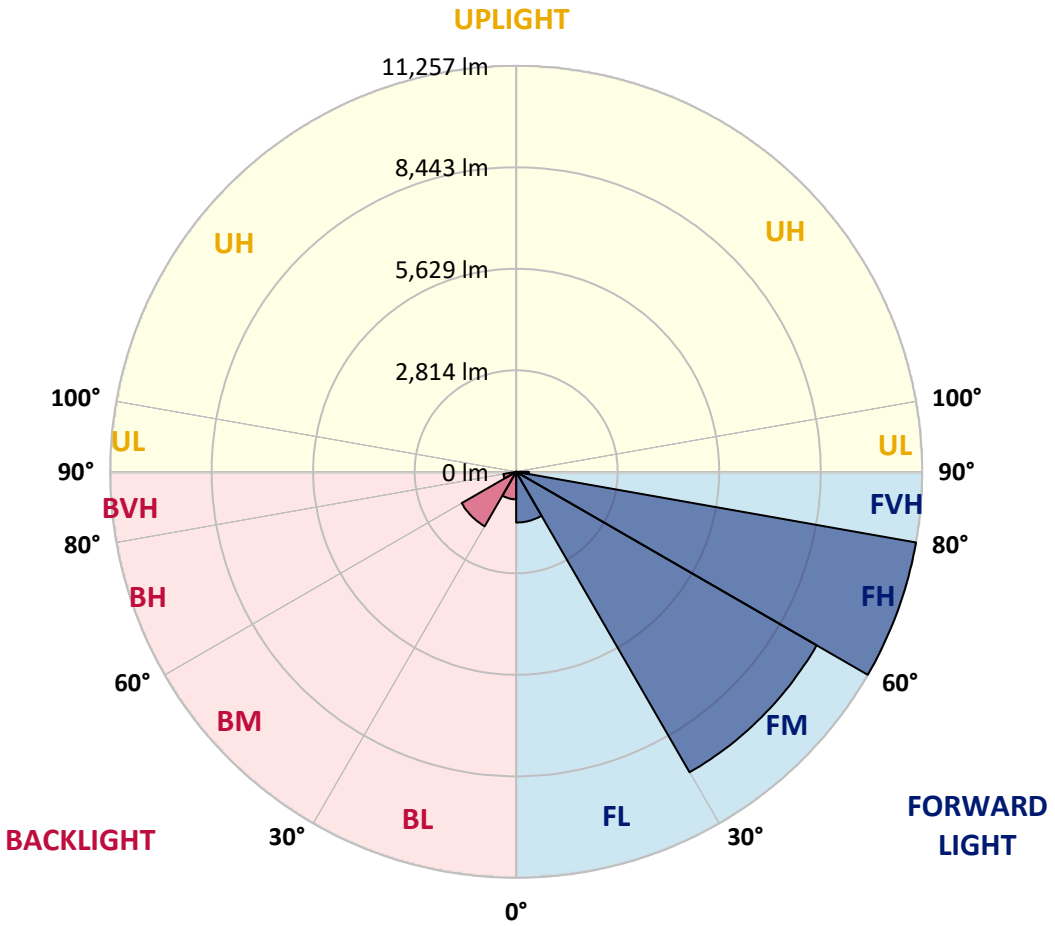
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1406.2	5.5			
FM	(30°-60°)	9619.4	37.7			
FH	(60°-80°)	11257.4	44.1			G4/12000
FVH	(80°-90°)	355.0	1.4			G3/500
BL	(0°-30°)	762.9	3.0	B2/1000		
BM	(30°-60°)	1742.9	6.8	B2/2500		
BH	(60°-80°)	360.3	1.4	B1/500		G1/500
BVH	(80°-90°)	4.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3532.6	3562.5	3568.1	3577.5	3577.5	3588.7	3607.4	3633.6	3676.5	3699.0	3713.9
5°	3256.0	3278.4	3306.5	3328.9	3371.9	3377.5	3450.4	3521.4	3620.5	3695.2	3747.6
7.5°	2977.5	3003.7	3041.1	3095.3	3151.3	3168.1	3278.4	3398.1	3555.1	3695.2	3783.1
10°	2781.2	2783.1	2816.8	2871.0	2960.7	2981.2	3115.8	3285.9	3482.2	3672.8	3816.7
12.5°	2671.0	2684.0	2699.0	2740.1	2826.1	2839.2	2983.1	3183.1	3409.3	3659.7	3856.0
15°	2671.0	2680.3	2689.7	2710.2	2779.4	2790.6	2917.7	3117.7	3371.9	3665.3	3919.5
17.5°	2699.0	2714.0	2706.5	2730.8	2803.7	2811.1	2923.3	3099.0	3370.0	3700.8	4016.7
20°	2766.3	2777.5	2762.6	2777.5	2850.4	2865.4	2981.2	3134.5	3401.8	3762.5	4138.2
22.5°	2872.8	2878.4	2842.9	2854.1	2928.9	2947.6	3082.2	3235.4	3478.4	3861.6	4300.8
25°	3007.4	3018.6	2964.4	2977.5	3048.5	3071.0	3226.1	3386.8	3599.9	3998.0	4508.3
27.5°	3162.5	3168.1	3121.4	3119.6	3211.1	3242.9	3399.9	3573.7	3762.5	4170.0	4770.0
30°	3340.1	3356.9	3312.1	3304.6	3420.5	3446.6	3601.8	3803.6	4001.8	4427.9	5141.9
32.5°	3480.3	3493.4	3467.2	3485.9	3603.7	3624.2	3846.6	4128.9	4377.5	4794.3	5648.5
35°	3682.2	3689.6	3629.8	3663.5	3798.0	3850.4	4181.2	4584.9	4850.4	5254.1	6310.1
37.5°	4413.0	4413.0	4158.8	3992.4	4121.4	4168.1	4639.1	5158.8	5433.5	5870.9	7143.8
40°	5424.2	5407.3	5035.4	4695.2	4678.4	4770.0	5291.5	5882.1	6186.8	6611.1	8082.1
42.5°	6502.7	6476.5	5970.0	5633.5	5577.4	5609.2	6044.7	6773.7	7083.9	7513.8	9091.4
45°	7459.6	7452.2	6988.6	6536.3	6435.4	6536.3	6984.9	7816.6	8039.1	8491.4	10098.8
47.5°	8261.5	8261.5	7923.2	7627.9	7575.5	7635.3	8257.7	8973.6	8953.1	9532.5	11080.1
50°	9184.8	9177.4	8855.9	8728.8	8783.0	8867.1	9723.1	10192.3	9898.8	10554.9	11956.7
52.5°	9831.5	9876.4	9766.1	9745.6	10022.2	10168.0	11211.0	11384.8	10745.5	11525.0	12612.8
55°	10343.7	10396.0	10523.1	10667.0	11199.7	11390.4	12652.0	12515.6	11453.9	12366.1	12990.3
57.5°	11068.9	10994.1	11190.4	11474.5	12336.2	12566.1	14048.3	13582.9	12024.0	13048.3	13031.5
60°	11949.3	11960.5	11994.1	12353.0	13470.7	13766.0	15423.9	14592.2	12390.4	13467.0	12575.4
62.5°	13007.2	13024.0	13093.2	13644.5	14994.0	15272.5	16889.3	15418.3	12558.6	13349.2	11397.9
65°	12934.3	13005.3	13777.2	15663.2	17309.9	17584.6	18599.6	15997.8	12304.4	12272.6	9280.2
67.5°	11782.9	11898.8	13190.3	18074.3	20801.4	21107.9	20666.8	16111.8	11207.2	9543.7	6054.1
70°	10272.7	10313.8	11867.0	20242.5	24844.3	25154.5	22517.2	14857.6	8504.5	5323.2	2712.1
72.5°	8022.2	8031.6	9854.0	20745.3	27038.6	27055.4	21064.9	11029.6	4573.7	2044.8	942.0
75°	5730.7	5674.6	6599.8	16823.9	23788.2	23978.9	15792.2	5173.7	1747.6	966.3	469.1
77.5°	3072.8	3134.5	3734.5	9977.3	16433.3	16758.5	8616.6	1491.6	889.7	657.9	310.3
80°	949.5	1001.8	1530.8	4568.1	9308.2	9504.4	3194.3	663.5	620.5	469.1	203.7
82.5°	299.1	310.3	714.0	1919.6	3863.5	3953.2	925.2	375.7	424.3	310.3	119.6
85°	86.0	87.8	317.7	715.9	955.1	973.8	259.8	145.8	243.0	192.5	61.7
87.5°	9.3	29.9	119.6	119.6	84.1	82.2	28.0	31.8	69.2	24.3	11.2
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°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3704.6	3706.5	3682.2	3641.0	3596.2	3558.8	3512.1	3474.7	3448.5	3441.0	3454.1
5°	3730.8	3717.7	3648.5	3523.3	3373.8	3244.8	3100.9	2986.8	2912.1	2880.3	2891.5
7.5°	3770.0	3732.6	3581.2	3334.5	3048.5	2794.3	2536.4	2336.4	2209.3	2145.7	2155.1
10°	3803.6	3728.9	3469.1	3061.6	2624.2	2239.2	1891.5	1650.4	1515.9	1452.3	1454.2
12.5°	3835.4	3727.0	3323.3	2738.3	2145.7	1674.7	1351.4	1231.7	1194.4	1181.3	1177.5
15°	3895.2	3732.6	3140.1	2368.2	1669.1	1265.4	1147.6	1145.8	1153.2	1149.5	1147.6
17.5°	3977.5	3738.2	2932.6	1975.7	1287.8	1115.9	1110.3	1127.1	1138.3	1132.7	1130.8
20°	4084.0	3760.7	2712.1	1586.9	1106.5	1078.5	1091.6	1106.5	1115.9	1106.5	1104.6
22.5°	4233.5	3799.9	2471.0	1274.7	1048.6	1056.0	1067.3	1084.1	1093.4	1080.3	1078.5
25°	4416.7	3861.6	2233.6	1108.4	1020.5	1029.9	1046.7	1065.4	1076.6	1063.5	1061.7
27.5°	4654.1	3960.7	2014.9	1071.0	992.5	998.1	1022.4	1050.4	1065.4	1048.6	1048.6
30°	4998.0	4123.3	1826.1	1087.8	975.7	962.6	996.2	1035.5	1052.3	1037.4	1035.5
32.5°	5454.1	4353.2	1710.2	1114.0	968.2	921.5	953.2	1003.7	1031.8	1022.4	1022.4
35°	6052.2	4702.7	1665.4	1143.9	962.6	878.5	900.9	955.1	1003.7	1013.1	1013.1
37.5°	6777.4	5188.7	1678.5	1157.0	945.8	843.0	854.2	900.9	964.5	994.4	1001.8
40°	7601.7	5755.0	1753.2	1143.9	927.1	813.1	814.9	850.4	906.5	951.4	966.3
42.5°	8452.1	6416.7	1891.5	1095.3	910.3	786.9	781.3	805.6	843.0	874.7	887.8
45°	9261.5	7097.0	2028.0	1028.0	889.7	760.7	747.6	757.0	764.5	777.6	785.0
47.5°	9968.0	7575.5	1988.7	966.3	861.7	730.8	708.4	704.7	682.2	680.4	678.5
50°	10455.8	7680.2	1766.3	904.7	820.5	697.2	661.7	639.2	600.0	581.3	583.2
52.5°	10611.0	7267.1	1443.0	843.0	753.3	652.3	601.9	566.3	517.7	500.9	499.1
55°	10405.4	6457.8	1153.2	768.2	659.8	592.5	536.4	489.7	450.5	429.9	429.9
57.5°	9902.6	5427.9	912.1	680.4	560.7	525.2	469.1	422.4	388.8	368.2	364.5
60°	9068.9	4310.2	721.5	575.7	478.5	452.3	394.4	364.5	334.6	310.3	304.7
62.5°	7803.6	3076.6	566.3	456.1	400.0	370.1	336.4	314.0	278.5	244.9	239.2
65°	6089.6	1882.2	437.4	334.6	321.5	306.5	286.0	265.4	222.4	188.8	183.2
67.5°	3841.0	891.6	312.1	252.3	254.2	246.7	237.4	220.6	188.8	158.9	155.1
70°	1691.5	431.8	205.6	192.5	188.8	188.8	196.3	190.6	160.7	132.7	127.1
72.5°	*575.7*	*231.8*	*153.3*	*145.8*	*136.4*	*134.6*	*164.5*	*158.9*	*129.0*	*102.8*	*97.2*
75°	300.9	155.1	112.1	104.7	82.2	99.1	130.8	123.4	91.6	67.3	61.7
77.5°	196.3	110.3	76.6	67.3	46.7	65.4	97.2	86.0	54.2	33.6	29.9
80°	123.4	72.9	44.9	31.8	22.4	35.5	52.3	37.4	20.6	7.5	5.6
82.5°	65.4	37.4	16.8	11.2	9.3	11.2	13.1	9.3	3.7	0.0	0.0
85°	26.2	13.1	5.6	3.7	1.9	0.0	3.7	1.9	0.0	0.0	0.0
87.5°	9.3	1.9	0.0	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)