

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: STREETWORKS

Report Number: P323349

Luminaire Tested: **GAN-SA5A-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15331 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

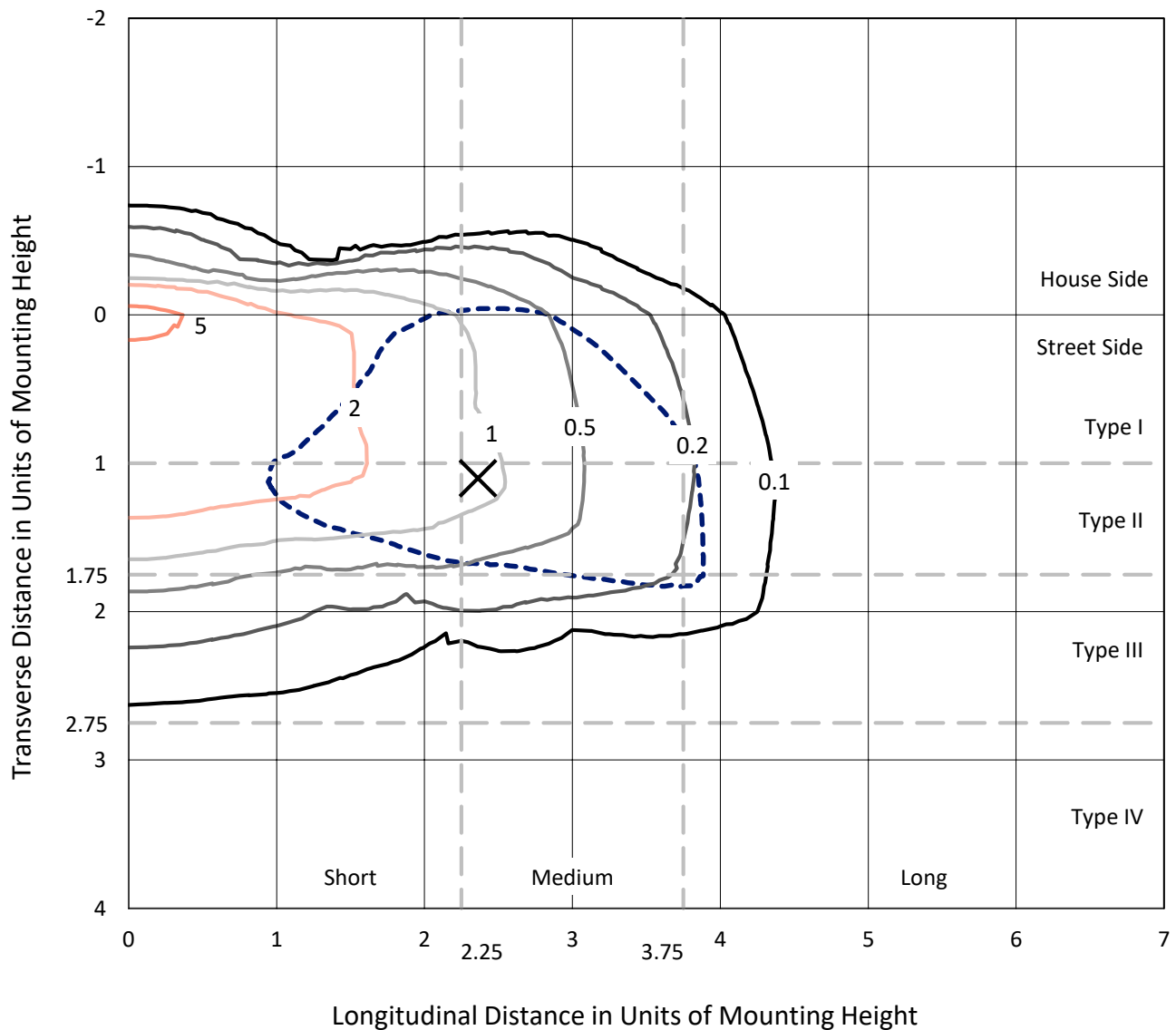
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

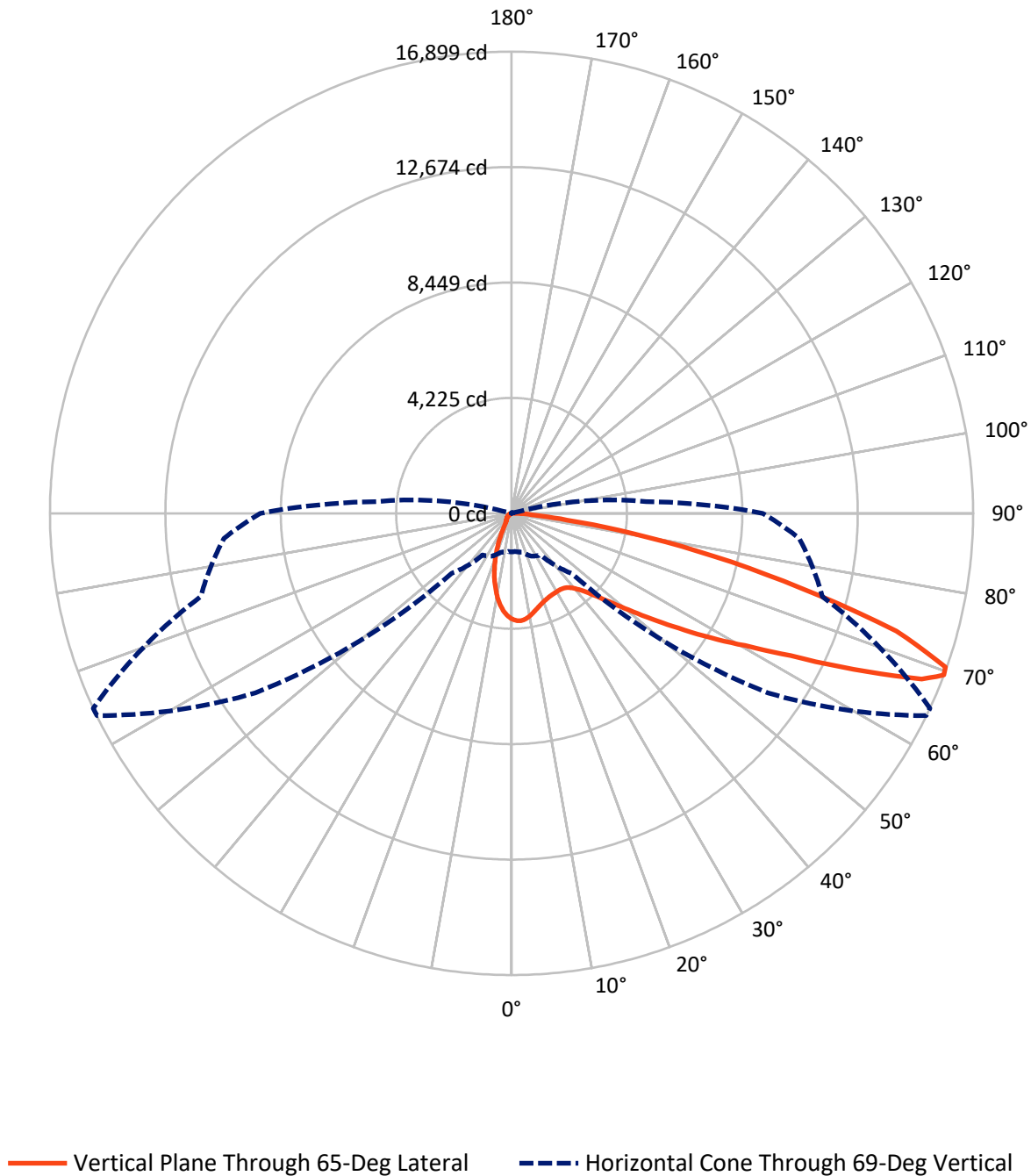
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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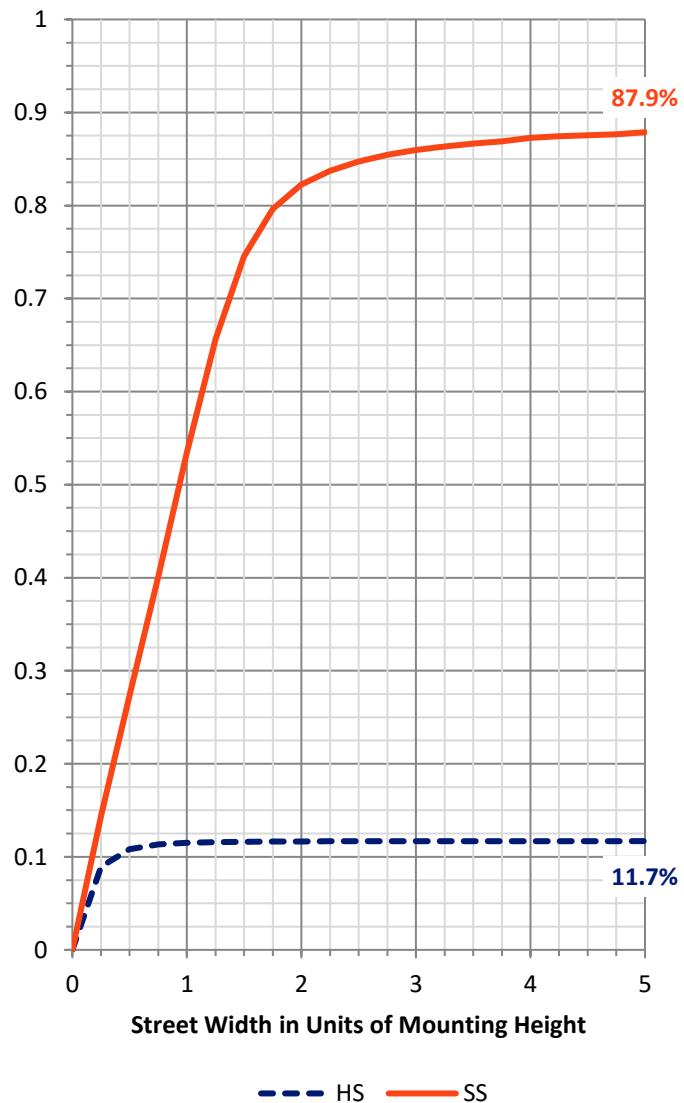
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1807.2	0.0	1807.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13523.8	0.0	13523.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	15331.0	0.0	15331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.0	2.1
10°-20°	709.2	4.6
20°-30°	982.2	6.4
30°-40°	1369.5	8.9
40°-50°	2128.7	13.9
50°-60°	3417.4	22.3
60°-70°	3865.6	25.2
70°-80°	2270.3	14.8
80°-90°	264.1	1.7
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°	15331.0	100.0
0°-180°	15331.0	100.0

Coefficient of Utilization



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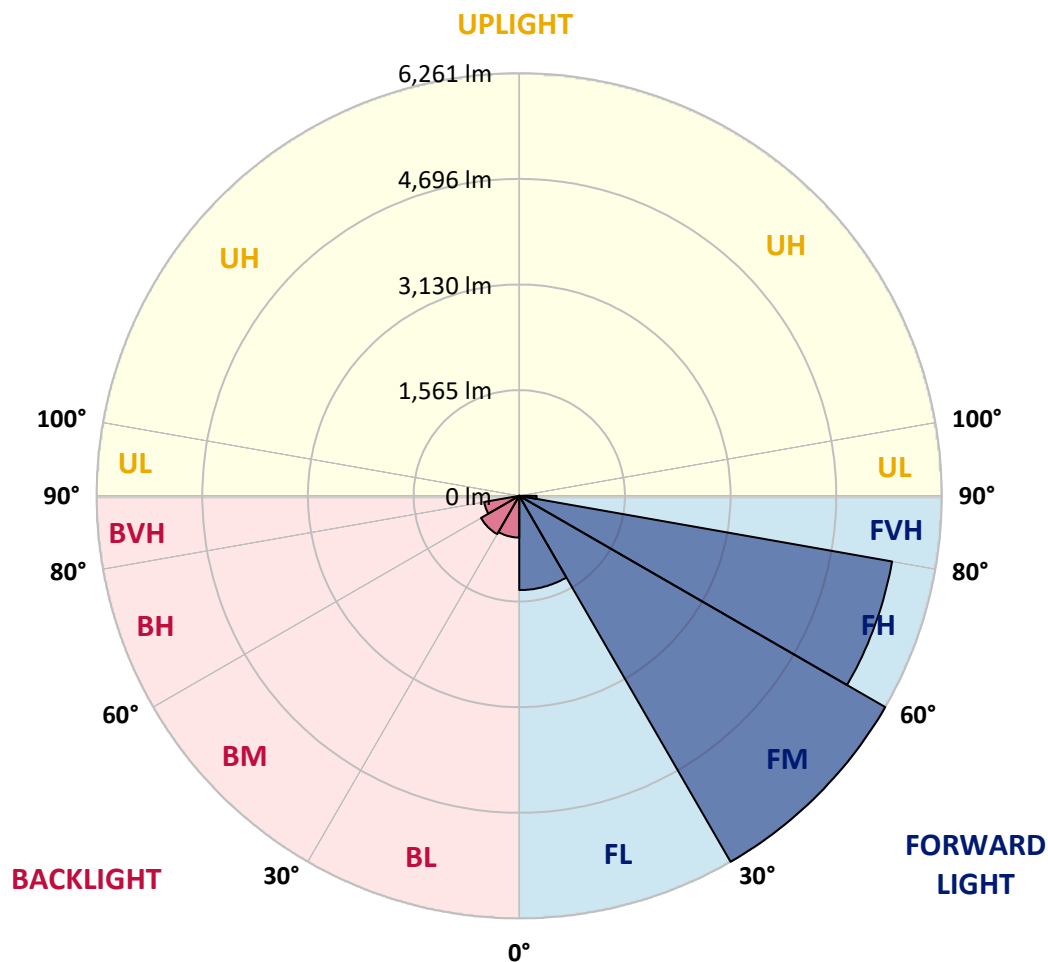
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1397.0	9.1			
FM	(30°-60°)	6260.7	40.8			
FH	(60°-80°)	5607.9	36.6			G3/7500
FVH	(80°-90°)	258.2	1.7			G3/500
BL	(0°-30°)	618.3	4.0	B2/1000		
BM	(30°-60°)	654.9	4.3	B1/1000		
BH	(60°-80°)	528.0	3.4	B2/1000		G2/1000
BVH	(80°-90°)	5.9	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2
2.5°	3908.6	3898.8	3906.6	3923.5	3931.9	3931.9	3938.4	3930.6	3933.2	3914.4	3887.1
5°	3664.0	3649.1	3670.5	3717.8	3776.2	3826.2	3900.1	3939.0	3942.9	3943.6	3911.8
7.5°	3400.6	3387.0	3418.8	3474.6	3549.8	3642.6	3771.7	3884.6	3891.0	3952.0	3928.7
10°	3186.5	3176.8	3213.8	3273.5	3361.7	3465.5	3623.8	3780.8	3799.6	3934.5	3926.1
12.5°	3016.6	3008.8	3043.8	3112.6	3202.7	3317.6	3483.0	3665.3	3690.6	3894.9	3913.1
15°	2892.7	2891.4	2920.5	2986.7	3086.6	3193.7	3363.0	3558.2	3587.4	3852.1	3911.1
17.5°	2827.8	2829.7	2851.1	2907.6	2993.2	3099.6	3261.8	3468.1	3499.9	3813.8	3920.9
20°	2821.3	2823.2	2834.9	2866.7	2936.1	3030.2	3179.4	3392.2	3425.3	3785.3	3936.4
22.5°	2878.4	2877.1	2880.3	2877.1	2916.0	2987.4	3124.9	3333.8	3372.1	3766.5	3948.8
25°	2988.0	2986.1	2984.8	2960.8	2934.8	2973.1	3102.2	3300.7	3337.0	3752.9	3955.9
27.5°	3140.5	3139.2	3137.2	3097.6	3019.8	2995.8	3104.8	3288.4	3318.9	3741.8	3954.6
30°	3340.9	3350.0	3347.4	3292.3	3171.0	3065.2	3132.0	3281.9	3308.5	3720.4	3941.0
32.5°	3576.4	3594.6	3608.8	3549.8	3398.0	3202.7	3195.0	3289.0	3308.5	3704.2	3916.3
35°	3821.0	3844.3	3896.9	3876.1	3676.3	3409.7	3303.3	3331.8	3348.1	3713.3	3904.7
37.5°	4061.7	4089.5	4203.7	4264.1	4040.9	3683.4	3472.0	3437.6	3446.0	3768.4	3917.6
40°	4341.3	4383.4	4556.6	4653.9	4476.2	4050.0	3724.3	3619.2	3622.5	3889.7	3978.0
42.5°	4708.4	4751.9	4939.4	5091.8	4966.6	4513.2	4066.8	3896.9	3893.6	4116.8	4120.0
45°	5156.0	5201.5	5395.4	5564.7	5508.3	5062.0	4505.4	4302.3	4298.4	4474.9	4389.3
47.5°	5663.3	5708.1	5881.3	6055.8	6116.8	5702.9	5063.9	4855.7	4846.6	4972.5	4805.1
50°	6098.6	6127.8	6287.4	6522.3	6797.3	6490.5	5758.7	5558.3	5548.5	5633.5	5415.5
52.5°	6256.9	6273.8	6436.0	6764.9	7451.2	7557.0	6671.5	6413.3	6406.1	6443.1	6228.4
55°	5936.5	5966.9	6166.1	6653.9	7805.4	8762.3	7823.6	7472.0	7418.1	7338.3	7078.2
57.5°	5063.3	5111.9	5326.0	5974.7	7640.0	9718.5	9516.8	8669.5	8590.4	8102.5	7769.1
60°	3793.7	3853.4	4031.2	4731.1	6757.1	10059.1	11366.9	10003.9	9825.6	8711.0	8404.2
62.5°	2603.3	2633.2	2753.8	3209.9	4976.4	9501.2	12914.8	11791.2	11465.5	9372.7	9091.2
65°	1988.3	1998.7	2048.0	2205.0	2963.4	7717.9	13530.4	14149.3	13755.5	10164.2	9804.1
67.5°	1602.3	1593.9	1662.0	1886.5	1984.4	4708.4	12812.3	16380.2	16196.0	11222.2	10521.6
69°	1412.9	1401.2	1470.7	1731.4	1863.8	3112.6	11453.8	16886.9	16898.6	11780.8	10570.9
70°	1271.5	1279.3	1348.0	1639.3	1822.9	2443.1	10156.4	16757.8	16849.9	11989.7	10275.1
72.5°	849.2	869.9	1008.1	1361.0	1752.8	1848.9	6132.4	14380.2	14734.4	11519.4	8815.5
75°	478.8	494.3	658.5	1026.3	1651.6	1760.6	3239.1	10594.3	10936.8	9632.9	6798.0
77.5°	234.8	243.3	372.4	662.3	1381.1	1677.6	1837.2	7196.3	7587.5	6287.4	3845.0
80°	99.3	103.8	186.2	408.7	987.4	1601.0	1364.3	4428.8	4477.5	2463.2	1024.3
82.5°	38.3	39.6	78.5	254.9	627.3	1248.1	1141.1	2099.9	2049.3	463.8	233.5
85°	4.5	5.2	28.5	153.1	349.0	642.2	927.0	905.0	837.5	92.1	120.0
87.5°	0.0	0.0	1.9	46.7	103.8	301.0	482.0	375.6	338.6	29.8	62.3
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°	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2	3874.2
2.5°	3864.4	3858.0	3822.9	3772.3	3724.3	3664.6	3607.5	3573.2	3545.9	3527.8	3549.2
5°	3874.8	3846.3	3739.9	3603.7	3470.0	3319.5	3179.4	3060.7	3014.0	2962.1	2985.4
7.5°	3871.6	3817.7	3626.4	3383.7	3138.5	2884.9	2644.8	2460.0	2363.9	2269.9	2293.9
10°	3855.4	3764.5	3474.6	3115.2	2748.0	2383.4	2042.8	1784.0	1639.3	1508.3	1527.1
12.5°	3819.7	3693.2	3295.5	2807.7	2316.6	1835.9	1436.9	1105.4	927.7	849.2	858.9
15°	3798.3	3623.8	3106.1	2496.3	1856.0	1278.6	878.4	653.3	572.2	546.2	549.5
17.5°	3787.9	3556.9	2910.2	2140.1	1385.0	814.1	567.6	500.8	483.3	478.8	480.1
20°	3777.5	3489.5	2708.4	1787.9	954.3	547.5	466.4	447.0	440.5	434.6	435.9
22.5°	3760.0	3424.6	2491.7	1431.1	643.5	444.4	420.4	401.6	387.9	380.8	382.1
25°	3738.6	3356.5	2270.5	1065.9	469.7	396.4	373.7	347.1	330.8	317.9	318.5
27.5°	3704.2	3272.8	2042.2	775.9	394.4	354.9	324.4	295.2	267.9	253.0	253.0
30°	3656.2	3178.1	1788.5	555.3	353.6	314.0	277.0	240.7	211.5	197.9	196.6
32.5°	3603.0	3079.5	1532.3	421.0	321.1	275.7	233.5	195.3	169.3	158.3	157.6
35°	3557.6	2973.1	1276.7	352.9	288.7	238.7	192.7	160.2	139.5	130.4	129.7
37.5°	3528.4	2866.7	1027.6	315.3	259.5	204.3	161.5	132.3	117.4	110.3	109.6
40°	3523.9	2787.6	799.9	286.7	232.2	173.9	134.9	112.2	98.6	90.8	90.2
42.5°	3582.9	2742.1	613.7	262.7	204.3	147.3	114.8	96.0	81.7	74.0	73.3
45°	3737.9	2756.4	472.3	241.3	176.5	124.6	97.3	79.8	66.8	61.0	59.7
47.5°	4020.8	2855.0	375.6	219.9	149.9	105.7	83.0	66.2	55.1	49.3	48.7
50°	4524.2	3086.6	314.0	196.6	125.2	90.2	68.8	53.8	44.8	39.6	38.9
52.5°	5192.4	3499.2	280.2	173.9	103.8	76.5	56.4	42.8	35.0	31.1	30.5
55°	5929.3	3998.7	258.2	149.2	85.0	63.6	44.8	33.7	27.2	24.0	22.7
57.5°	6648.8	4431.4	237.4	125.2	70.7	51.9	35.7	26.6	21.4	18.2	17.5
60°	7309.8	4829.1	213.4	100.6	57.7	40.9	27.9	20.8	16.9	13.6	13.6
62.5°	8017.6	5136.6	180.3	78.5	47.4	31.1	22.7	18.8	13.6	11.7	11.0
65°	8767.5	5364.9	141.4	61.0	37.0	23.4	18.8	19.5	11.0	8.4	7.8
67.5°	9321.5	5319.5	104.4	48.0	28.5	18.2	18.2	20.8	9.7	6.5	5.8
69°	9199.5	4950.4	87.6	41.5	24.7	15.6	16.9	20.8	9.1	5.8	5.2
70°	8846.0	4541.7	77.2	37.0	22.1	14.3	16.2	20.1	8.4	5.8	5.2
72.5°	7366.9	3420.7	60.3	27.9	17.5	11.7	13.6	17.5	8.4	5.8	4.5
75°	5541.4	2189.4	46.1	20.1	13.0	9.1	10.4	13.0	8.4	5.2	4.5
77.5°	3015.3	789.5	33.1	13.6	9.1	7.1	7.1	9.7	7.8	3.9	2.6
80°	775.2	198.5	20.8	9.1	7.1	5.2	4.5	6.5	4.5	0.6	0.0
82.5°	191.4	44.8	11.0	6.5	5.2	1.9	1.9	3.2	1.9	0.0	0.0
85°	105.1	22.1	7.1	4.5	2.6	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	53.8	6.5	1.9	1.3	0.6	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)