

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: P323268

Luminaire Tested: **GAN-SA4A-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323268
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-SA4A-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 15571 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

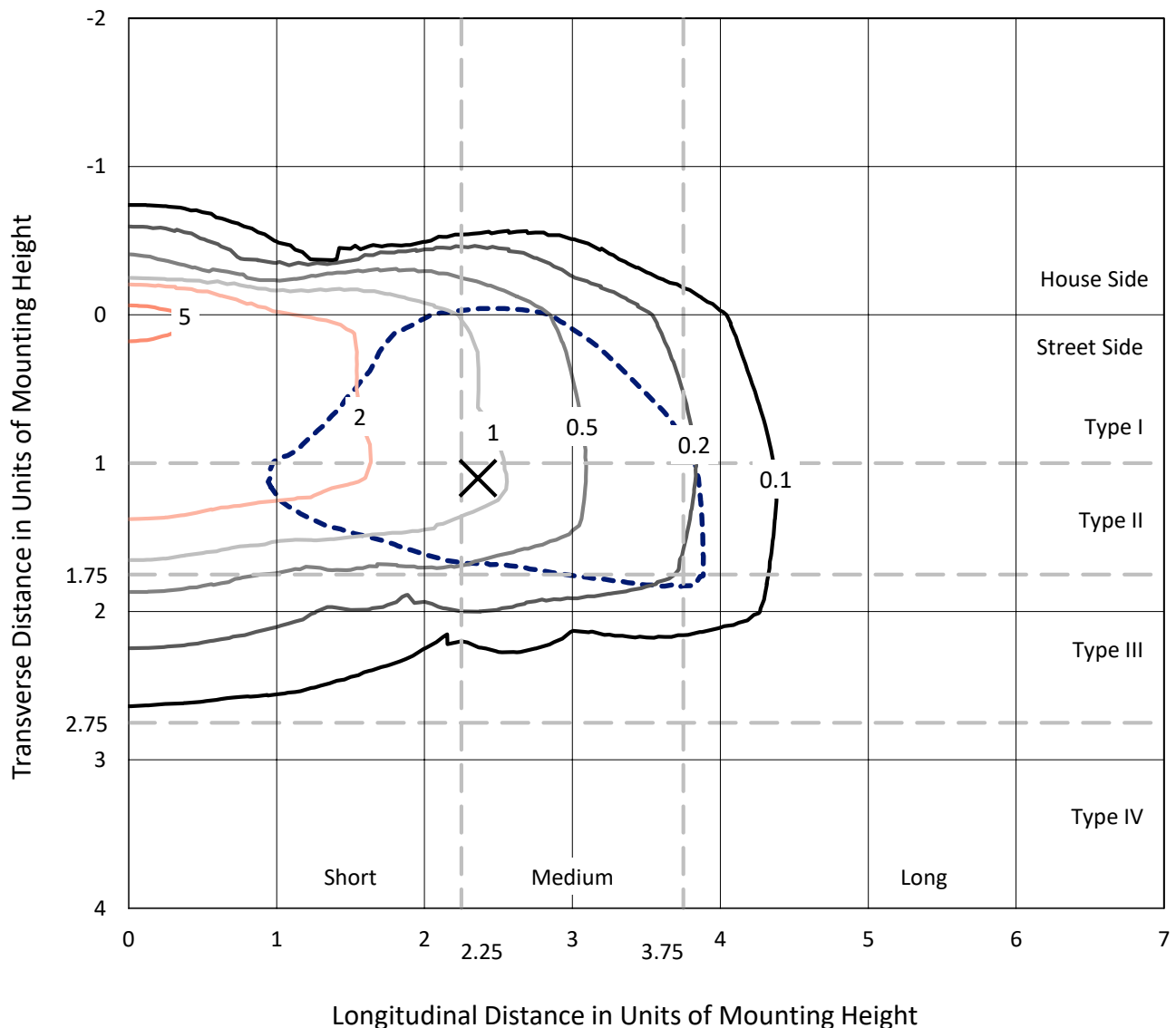
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

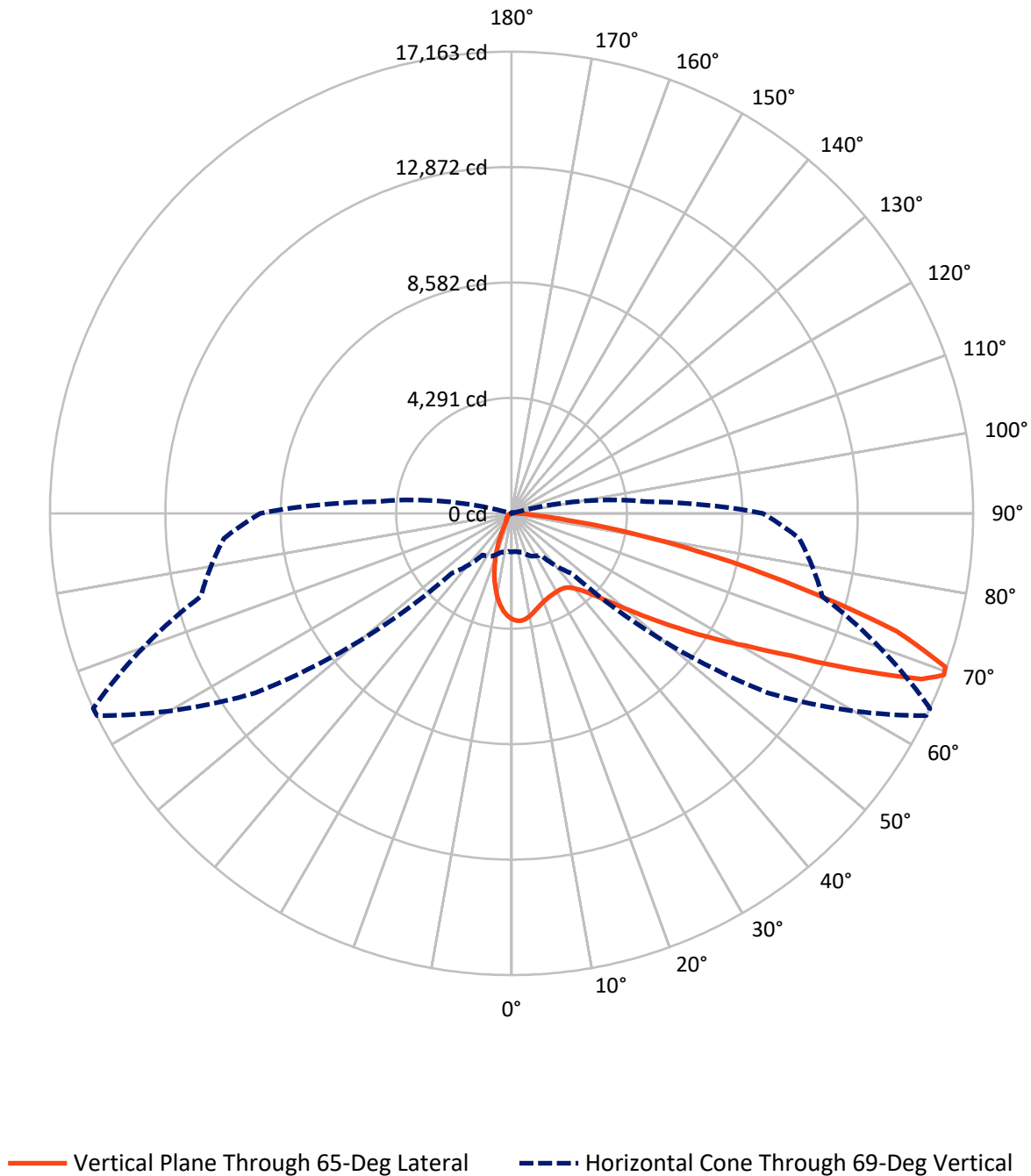
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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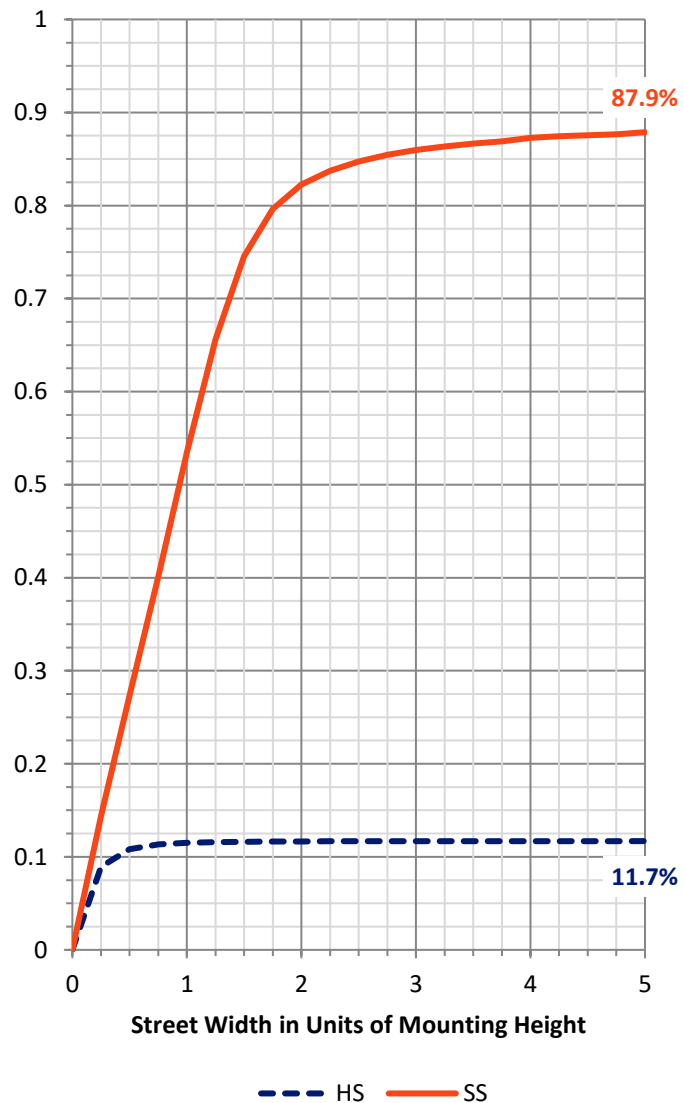
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1835.4	0.0	1835.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13735.6	0.0	13735.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	15571.0	0.0	15571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	2.1
10°-20°	720.3	4.6
20°-30°	997.6	6.4
30°-40°	1391.0	8.9
40°-50°	2162.0	13.9
50°-60°	3470.9	22.3
60°-70°	3926.1	25.2
70°-80°	2305.9	14.8
80°-90°	268.2	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°	15571.0	100.0
0°-180°	15571.0	100.0

Coefficient of Utilization



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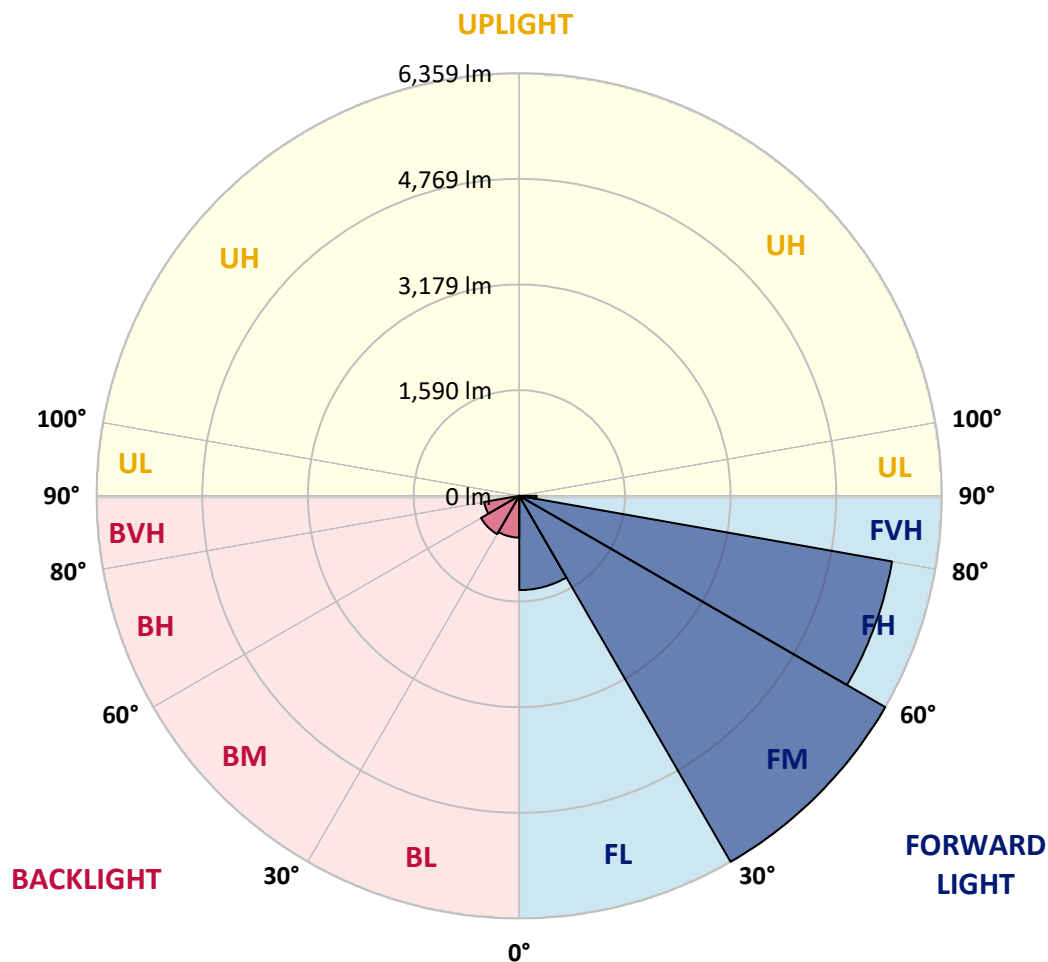
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1418.9	9.1			
FM	(30°-60°)	6358.8	40.8			
FH	(60°-80°)	5695.7	36.6			G3/7500
FVH	(80°-90°)	262.2	1.7			G3/500
BL	(0°-30°)	628.0	4.0	B2/1000		
BM	(30°-60°)	665.1	4.3	B1/1000		
BH	(60°-80°)	536.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	6.0	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°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	3969.7	3959.9	3967.8	3984.9	3993.5	3993.5	4000.0	3992.1	3994.8	3975.7	3948.0
5°	3721.3	3706.2	3727.9	3776.0	3835.3	3886.1	3961.2	4000.7	4004.7	4005.3	3973.0
7.5°	3453.8	3440.0	3472.3	3529.0	3605.4	3699.6	3830.7	3945.4	3951.9	4013.9	3990.2
10°	3236.4	3226.5	3264.1	3324.7	3414.3	3519.7	3680.5	3839.9	3859.0	3996.1	3987.5
12.5°	3063.8	3055.9	3091.5	3161.3	3252.9	3369.5	3537.5	3722.7	3748.4	3955.9	3974.4
15°	2937.9	2936.6	2966.3	3033.5	3134.9	3243.7	3415.6	3613.9	3643.6	3912.4	3972.4
17.5°	2872.0	2874.0	2895.8	2953.1	3040.1	3148.1	3312.8	3522.4	3554.6	3873.5	3982.3
20°	2865.5	2867.4	2879.3	2911.6	2982.1	3077.6	3229.2	3445.3	3478.9	3844.6	3998.1
22.5°	2923.4	2922.1	2925.4	2922.1	2961.7	3034.1	3173.8	3386.0	3424.8	3825.4	4010.6
25°	3034.8	3032.8	3031.5	3007.1	2980.8	3019.6	3150.8	3352.4	3389.3	3811.6	4017.8
27.5°	3189.6	3188.3	3186.3	3146.1	3067.1	3042.7	3153.4	3339.9	3370.8	3800.4	4016.5
30°	3393.2	3402.4	3399.8	3343.8	3220.6	3113.2	3181.1	3333.3	3360.3	3778.7	4002.7
32.5°	3632.4	3650.8	3665.3	3605.4	3451.2	3252.9	3245.0	3340.5	3360.3	3762.2	3977.6
35°	3880.8	3904.5	3957.9	3936.8	3733.9	3463.1	3355.0	3384.0	3400.5	3771.4	3965.8
37.5°	4125.2	4153.6	4269.5	4330.8	4104.2	3741.1	3526.3	3491.4	3500.0	3827.4	3979.0
40°	4409.2	4452.0	4628.0	4726.8	4546.3	4113.4	3782.6	3675.9	3679.2	3950.6	4040.2
42.5°	4782.1	4826.3	5016.7	5171.5	5044.4	4583.8	4130.5	3957.9	3954.6	4181.2	4184.5
45°	5236.8	5282.9	5479.9	5651.9	5594.5	5141.2	4575.9	4369.7	4365.7	4544.9	4458.0
47.5°	5752.0	5797.5	5973.4	6150.6	6212.6	5792.2	5143.2	4931.7	4922.5	5050.3	4880.3
50°	6194.1	6223.8	6385.8	6624.4	6903.7	6592.1	5848.9	5645.3	5635.4	5721.7	5500.3
52.5°	6354.9	6372.0	6536.7	6870.8	7567.9	7675.3	6775.9	6513.7	6506.4	6544.0	6325.9
55°	6029.4	6060.4	6262.6	6758.1	7927.6	8899.5	7946.1	7589.0	7534.3	7453.2	7189.0
57.5°	5142.5	5192.0	5409.4	6068.3	7759.6	9870.7	9665.7	8805.2	8724.9	8229.4	7890.7
60°	3853.1	3913.7	4094.3	4805.2	6862.9	10216.6	11544.9	10160.6	9979.4	8847.4	8535.8
62.5°	2644.1	2674.4	2796.9	3260.1	5054.3	9649.9	13116.9	11975.8	11645.0	9519.5	9233.5
65°	2019.5	2030.0	2080.1	2239.5	3009.8	7838.7	13742.2	14370.8	13970.8	10323.3	9957.6
67.5°	1627.4	1618.9	1688.0	1916.0	2015.5	4782.1	13012.8	16636.7	16449.5	11397.9	10686.3
69°	1435.0	1423.2	1493.7	1758.5	1893.0	3161.3	11633.1	17151.3	17163.1	11965.2	10736.4
70°	1291.4	1299.3	1369.1	1665.0	1851.4	2481.3	10315.4	17020.1	17113.7	12177.4	10436.0
72.5°	862.5	883.6	1023.9	1382.3	1780.3	1877.8	6228.4	14605.3	14965.1	11699.7	8953.5
75°	486.3	502.1	668.8	1042.3	1677.5	1788.2	3289.8	10760.1	11108.0	9783.7	6904.4
77.5°	238.5	247.1	378.2	672.7	1402.8	1703.9	1865.9	7308.9	7706.2	6385.8	3905.2
80°	100.8	105.4	189.1	415.1	1002.8	1626.1	1385.6	4498.2	4547.6	2501.8	1040.4
82.5°	38.9	40.2	79.7	258.9	637.1	1267.7	1159.0	2132.8	2081.4	471.1	237.2
85°	4.6	5.3	29.0	155.5	354.5	652.3	941.5	919.1	850.6	93.6	121.9
87.5°	0.0	0.0	2.0	47.4	105.4	305.7	489.5	381.5	343.9	30.3	63.3
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°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	3924.9	3918.3	3882.8	3831.4	3782.6	3722.0	3664.0	3629.1	3601.4	3583.0	3604.7
5°	3935.5	3906.5	3798.4	3660.1	3524.3	3371.5	3229.2	3108.6	3061.1	3008.4	3032.2
7.5°	3932.2	3877.5	3683.1	3436.7	3187.7	2930.0	2686.2	2498.5	2401.0	2305.4	2329.8
10°	3915.7	3823.5	3529.0	3163.9	2791.0	2420.7	2074.8	1811.9	1665.0	1531.9	1551.0
12.5°	3879.5	3751.0	3347.1	2851.6	2352.9	1864.6	1459.4	1122.7	942.2	862.5	872.4
15°	3857.7	3680.5	3154.7	2535.4	1885.0	1298.6	892.1	663.5	581.1	554.8	558.1
17.5°	3847.2	3612.6	2955.7	2173.6	1406.7	826.9	576.5	508.7	490.9	486.3	487.6
20°	3836.6	3544.1	2750.8	1815.9	969.2	556.1	473.7	454.0	447.4	441.4	442.8
22.5°	3818.9	3478.2	2530.8	1453.5	653.6	451.3	427.0	407.8	394.0	386.8	388.1
25°	3797.1	3409.0	2306.1	1082.5	477.0	402.6	379.5	352.5	336.0	322.9	323.5
27.5°	3762.2	3324.0	2074.1	788.0	400.6	360.4	329.4	299.8	272.1	257.0	257.0
30°	3713.4	3227.8	1816.5	564.0	359.1	318.9	281.3	244.4	214.8	201.0	199.6
32.5°	3659.4	3127.7	1556.3	427.6	326.1	280.0	237.2	198.3	172.0	160.8	160.1
35°	3613.3	3019.6	1296.7	358.4	293.2	242.5	195.7	162.7	141.7	132.4	131.8
37.5°	3583.6	2911.6	1043.7	320.2	263.6	207.5	164.1	134.4	119.3	112.0	111.4
40°	3579.0	2831.2	812.4	291.2	235.9	176.6	137.0	114.0	100.1	92.2	91.6
42.5°	3639.0	2785.1	623.3	266.8	207.5	149.6	116.6	97.5	83.0	75.1	74.5
45°	3796.5	2799.6	479.7	245.1	179.2	126.5	98.8	81.0	67.9	61.9	60.6
47.5°	4083.7	2899.7	381.5	223.4	152.2	107.4	84.3	67.2	56.0	50.1	49.4
50°	4595.0	3134.9	318.9	199.6	127.2	91.6	69.8	54.7	45.5	40.2	39.5
52.5°	5273.7	3554.0	284.6	176.6	105.4	77.7	57.3	43.5	35.6	31.6	31.0
55°	6022.1	4061.3	262.2	151.5	86.3	64.6	45.5	34.3	27.7	24.4	23.1
57.5°	6752.8	4500.8	241.1	127.2	71.8	52.7	36.2	27.0	21.7	18.4	17.8
60°	7424.2	4904.7	216.8	102.1	58.6	41.5	28.3	21.1	17.1	13.8	13.8
62.5°	8143.1	5217.0	183.2	79.7	48.1	31.6	23.1	19.1	13.8	11.9	11.2
65°	8904.7	5448.9	143.6	61.9	37.6	23.7	19.1	19.8	11.2	8.6	7.9
67.5°	9467.4	5402.8	106.1	48.8	29.0	18.4	18.4	21.1	9.9	6.6	5.9
69°	9343.5	5027.9	88.9	42.2	25.0	15.8	17.1	21.1	9.2	5.9	5.3
70°	8984.5	4612.8	78.4	37.6	22.4	14.5	16.5	20.4	8.6	5.9	5.3
72.5°	7482.2	3474.3	61.3	28.3	17.8	11.9	13.8	17.8	8.6	5.9	4.6
75°	5628.1	2223.7	46.8	20.4	13.2	9.2	10.5	13.2	8.6	5.3	4.6
77.5°	3062.5	801.9	33.6	13.8	9.2	7.2	7.2	9.9	7.9	4.0	2.6
80°	787.4	201.6	21.1	9.2	7.2	5.3	4.6	6.6	4.6	0.7	0.0
82.5°	194.4	45.5	11.2	6.6	5.3	2.0	2.0	3.3	2.0	0.0	0.0
85°	106.7	22.4	7.2	4.6	2.6	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	54.7	6.6	2.0	1.3	0.7	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)