

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: P323638

Luminaire Tested: **GAN-SA4B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14477 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

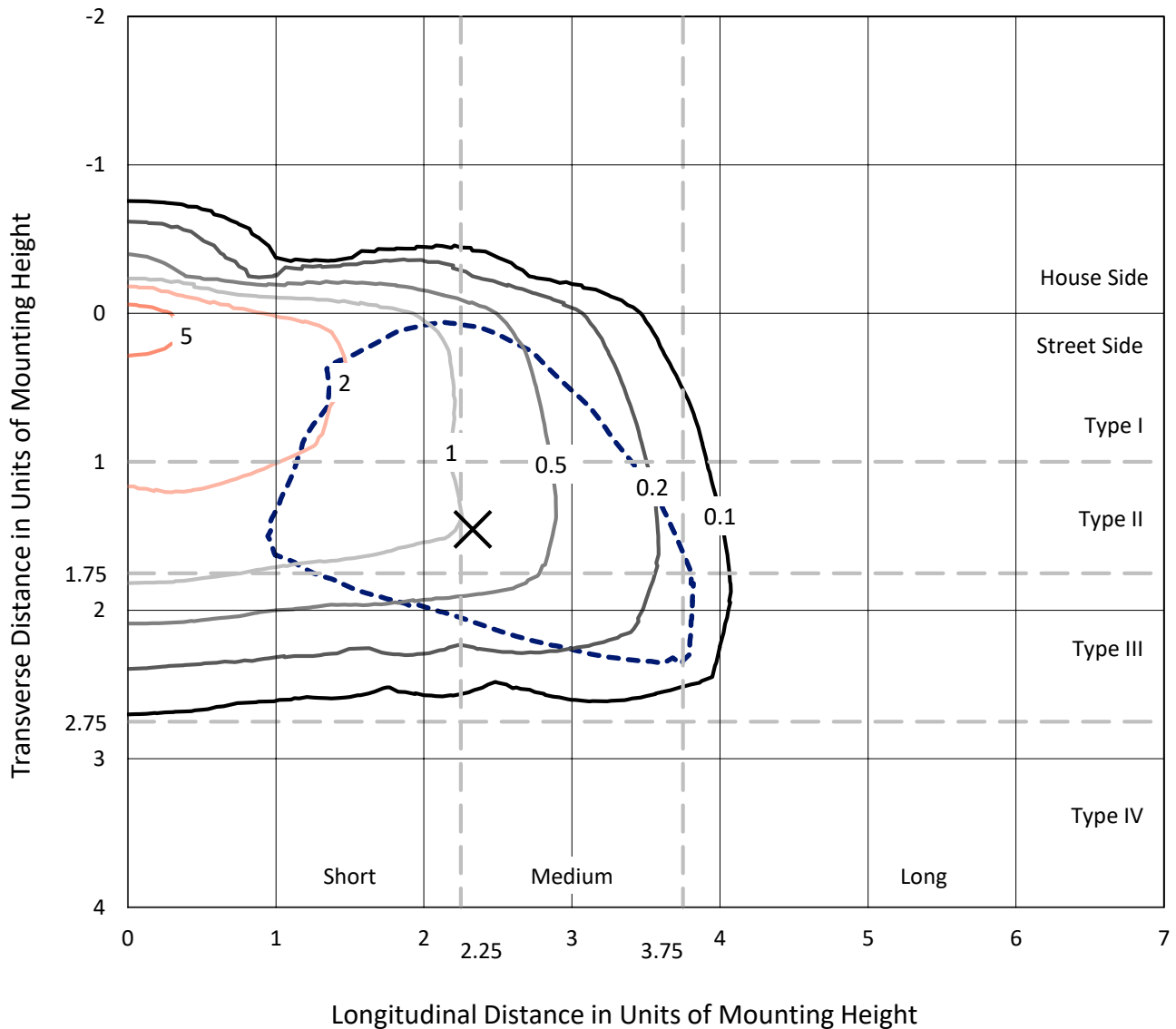
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

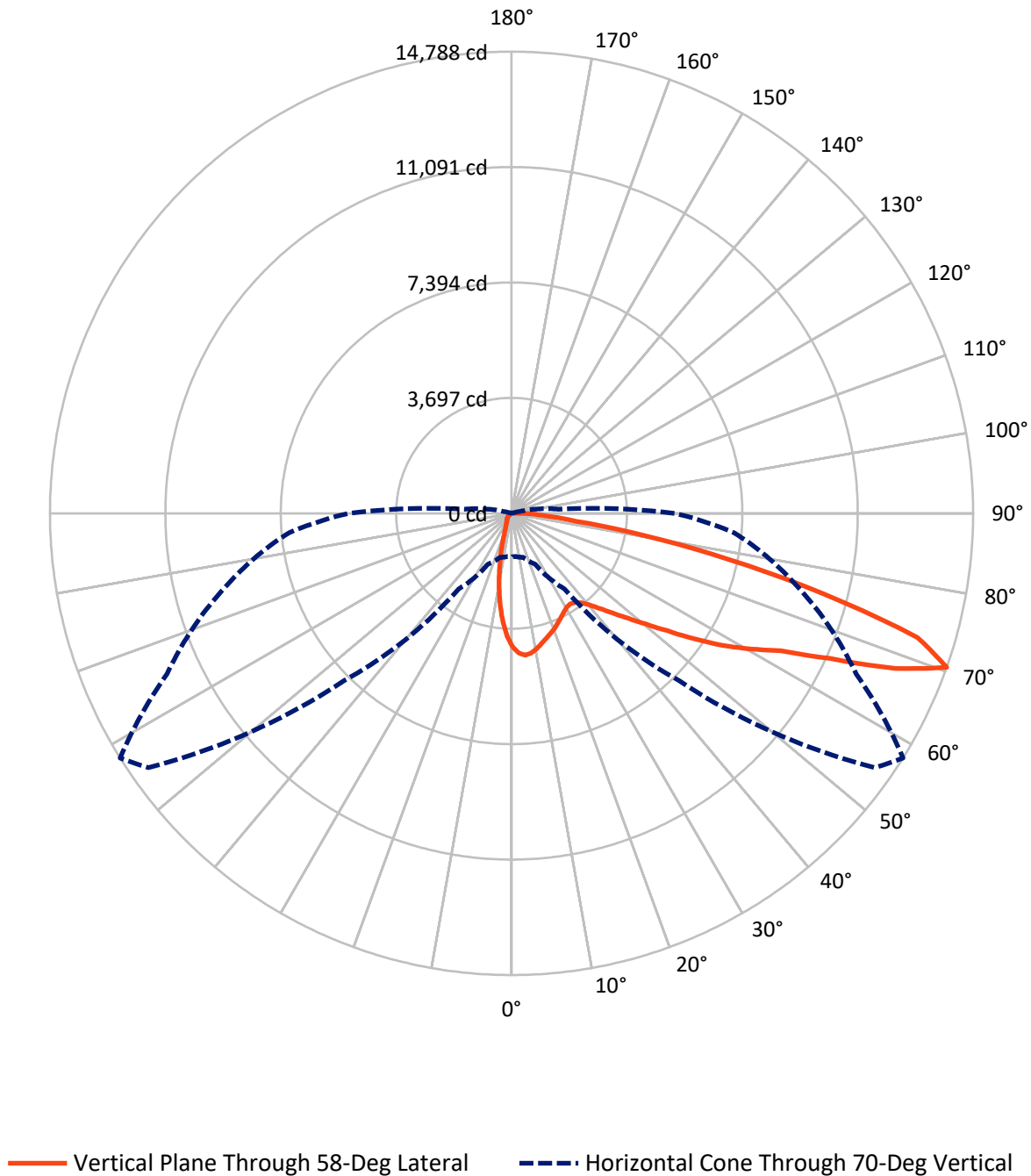
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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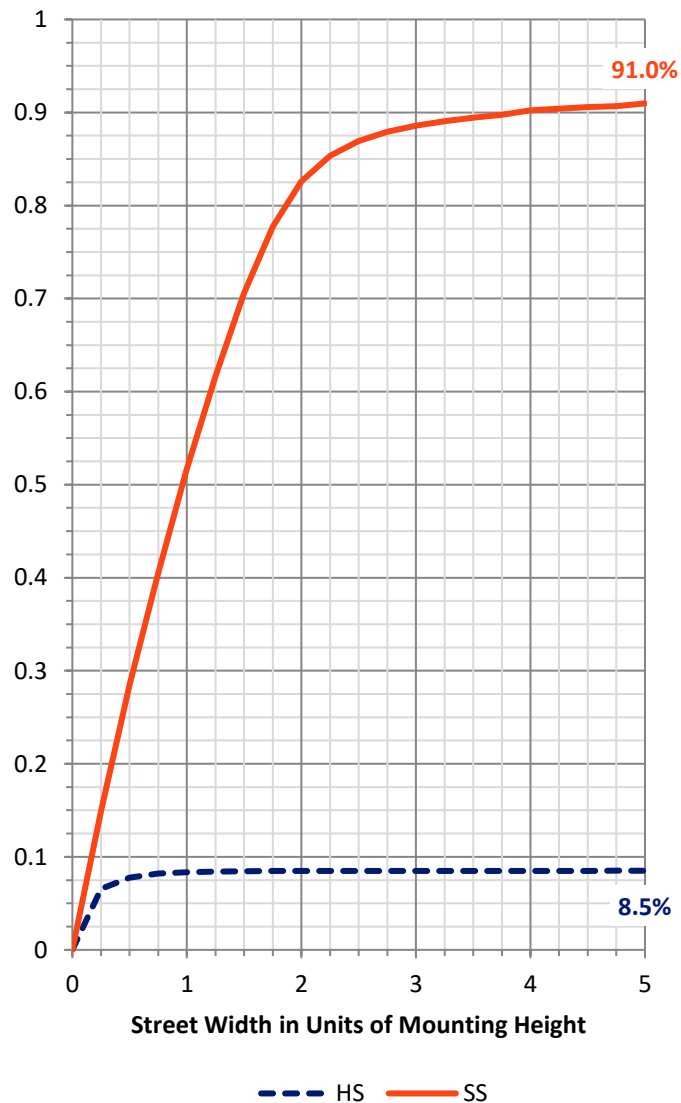
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1238.9	0.0	1238.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	13238.1	0.0	13238.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	14477.0	0.0	14477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	2.4
10°-20°	733.9	5.1
20°-30°	964.9	6.7
30°-40°	1277.9	8.8
40°-50°	1910.0	13.2
50°-60°	3059.8	21.1
60°-70°	3856.9	26.6
70°-80°	2080.4	14.4
80°-90°	243.5	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°	14477.0	100.0
0°-180°	14477.0	100.0

Coefficient of Utilization



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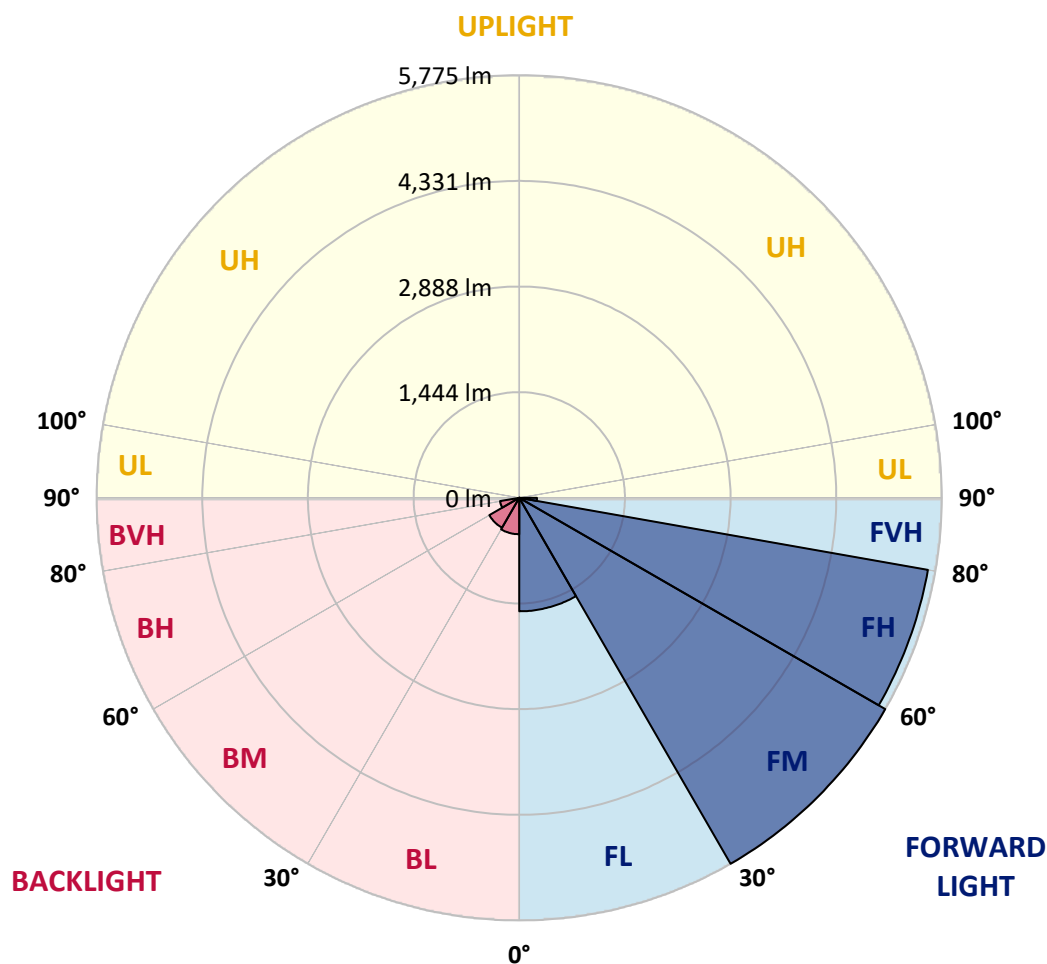
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1550.8	10.7			
FM	(30°-60°)	5775.1	39.9			
FH	(60°-80°)	5670.8	39.2			G3/7500
FVH	(80°-90°)	241.4	1.7			G3/500
BL	(0°-30°)	497.7	3.4	B1/500		
BM	(30°-60°)	472.6	3.3	B1/1000		
BH	(60°-80°)	266.4	1.8	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4
2.5°	4631.0	4619.6	4615.3	4608.1	4580.4	4553.3	4499.8	4484.7	4451.0	4370.9	4286.1
5°	4634.6	4634.0	4646.7	4643.6	4634.0	4621.4	4582.8	4563.0	4505.8	4391.4	4236.1
7.5°	4411.3	4422.7	4451.0	4473.9	4500.4	4534.7	4539.5	4520.2	4473.3	4349.9	4144.0
10°	4111.5	4129.6	4169.3	4214.4	4283.7	4352.3	4413.7	4411.3	4395.0	4273.4	4033.2
12.5°	3811.1	3832.2	3877.9	3944.7	4042.9	4154.8	4264.4	4279.4	4306.5	4204.8	3930.9
15°	3548.0	3566.1	3611.3	3693.1	3814.7	3965.2	4125.9	4153.6	4223.5	4151.2	3845.4
17.5°	3324.7	3336.2	3369.3	3460.2	3601.0	3783.4	3992.3	4046.5	4150.6	4109.1	3771.4
20°	3168.8	3170.6	3192.3	3256.1	3397.0	3601.0	3853.9	3931.5	4073.6	4073.0	3694.9
22.5°	3091.7	3085.7	3089.9	3126.7	3230.2	3427.0	3715.4	3807.5	4004.3	4042.3	3617.3
25°	3077.3	3072.5	3060.4	3065.3	3127.9	3274.7	3575.7	3682.3	3943.5	4023.6	3549.9
27.5°	3122.4	3127.3	3106.8	3085.1	3089.9	3176.0	3451.7	3575.1	3894.2	4023.6	3502.3
30°	3213.3	3215.8	3200.7	3172.4	3134.5	3148.3	3365.6	3489.1	3869.5	4051.3	3472.2
32.5°	3313.9	3327.1	3325.3	3302.4	3248.3	3192.3	3345.2	3457.7	3867.7	4112.7	3469.2
35°	3438.5	3453.5	3478.8	3474.0	3417.4	3325.3	3415.0	3503.5	3903.2	4213.8	3501.7
37.5°	3570.9	3593.8	3648.0	3673.9	3637.1	3533.0	3571.5	3634.7	3998.3	4377.6	3584.2
40°	3699.1	3725.0	3823.8	3925.5	3897.8	3790.6	3808.7	3859.3	4167.5	4612.9	3740.7
42.5°	3825.0	3863.5	4008.6	4175.9	4209.0	4123.5	4133.2	4173.5	4418.5	4936.8	3996.5
45°	3975.4	4018.8	4233.7	4440.2	4528.7	4491.3	4532.3	4558.8	4746.6	5364.8	4341.5
47.5°	4196.4	4246.3	4510.0	4745.4	4900.7	4924.8	5007.2	5024.7	5161.3	5863.2	4791.1
50°	4627.4	4641.2	4879.6	5093.3	5317.3	5461.7	5555.6	5568.9	5663.4	6408.0	5352.8
52.5°	5169.8	5178.8	5313.6	5456.9	5711.5	6006.5	6226.2	6244.9	6264.8	6939.0	5907.2
55°	5708.5	5707.3	5796.4	5880.7	6172.1	6600.7	7077.4	7088.9	6946.2	7442.8	6331.0
57.5°	6045.0	6077.5	6213.0	6321.3	6728.3	7277.9	7939.5	7981.6	7662.0	7816.1	6750.0
60°	5937.9	5953.5	6253.9	6654.8	7421.2	8240.4	8811.7	8822.6	8200.1	8188.7	7279.7
62.5°	5059.0	5067.4	5539.4	6365.9	7772.1	9488.9	9864.0	9687.6	8818.9	8705.8	7913.6
65°	3467.4	3522.2	3916.5	4938.0	7127.4	10272.1	11492.9	11201.0	9762.2	9451.0	8486.7
67.5°	2041.9	2030.5	2225.5	2978.0	5234.8	9752.0	13553.5	13263.3	11048.7	9950.1	8318.7
70°	1394.8	1387.0	1461.6	1802.9	2955.1	7565.0	14201.8	14787.5	12184.6	9614.2	7159.3
72.5°	995.7	999.9	1110.0	1400.8	1855.3	4407.7	12212.9	13599.2	11828.8	8381.3	5441.9
75°	676.0	687.5	845.2	1149.2	1626.5	2242.4	8666.6	10337.7	9632.2	6091.4	3127.9
77.5°	363.6	376.2	562.2	925.8	1470.6	1557.9	5574.9	7114.8	6050.5	2738.4	906.6
80°	151.7	158.9	263.1	673.0	1270.8	1368.3	3280.2	4314.4	2578.3	540.0	202.3
82.5°	65.6	69.2	109.6	401.5	949.9	1155.2	1736.7	2075.6	781.4	118.6	101.7
85°	12.6	13.2	45.1	212.5	606.2	651.9	1125.7	1103.4	351.0	51.2	74.0
87.5°	0.0	0.0	10.8	66.8	178.2	355.2	686.9	678.4	119.2	24.7	27.7
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°	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4	4276.4
2.5°	4242.7	4201.2	4113.9	4006.2	3923.7	3832.8	3760.5	3669.0	3629.3	3631.1	3609.4
5°	4147.6	4062.1	3868.9	3625.1	3437.3	3243.4	3076.7	2910.6	2812.4	2780.5	2750.4
7.5°	4011.6	3876.1	3567.9	3192.3	2874.4	2563.8	2293.5	2055.7	1905.3	1831.8	1804.7
10°	3858.1	3667.8	3221.8	2727.0	2273.1	1852.9	1502.5	1197.9	1076.3	993.9	972.8
12.5°	3723.2	3465.6	2883.5	2249.6	1710.8	1204.0	869.9	680.2	597.8	565.3	559.8
15°	3596.2	3276.6	2557.8	1817.4	1184.7	741.0	553.2	488.8	469.5	464.1	464.1
17.5°	3476.4	3096.6	2239.4	1391.8	783.8	519.5	458.1	443.7	437.6	437.0	437.6
20°	3351.2	2916.6	1926.3	1019.7	547.2	440.0	423.2	415.4	413.6	413.6	413.6
22.5°	3231.4	2736.6	1621.7	728.4	438.8	401.5	393.1	387.7	385.9	385.3	384.1
25°	3116.4	2565.6	1324.3	514.7	385.3	367.8	360.6	353.4	347.9	344.9	343.1
27.5°	3021.9	2413.3	1047.4	413.0	347.9	332.9	323.9	313.0	299.8	293.8	291.4
30°	2946.7	2274.3	807.2	348.5	313.0	298.0	284.1	265.5	246.2	236.0	235.4
32.5°	2887.7	2137.6	612.8	308.2	281.7	263.1	243.2	219.7	197.4	186.0	185.4
35°	2858.8	2017.2	468.3	278.7	254.0	230.6	205.9	180.0	158.3	147.5	146.3
37.5°	2878.0	1915.5	365.4	254.0	230.6	203.5	174.6	147.5	128.2	118.6	118.0
40°	2948.5	1850.5	296.8	233.0	210.7	177.6	146.3	121.0	104.7	96.9	96.3
42.5°	3098.4	1826.4	253.4	215.5	191.4	153.5	121.6	99.9	84.9	79.5	78.3
45°	3348.8	1861.9	223.9	198.7	171.6	130.6	100.5	81.9	68.6	64.4	63.8
47.5°	3682.3	1955.2	202.9	182.4	153.5	110.2	83.7	66.2	56.0	51.8	51.2
50°	4112.1	2103.3	185.4	166.1	136.6	93.3	69.2	52.4	43.3	40.3	40.3
52.5°	4579.8	2279.7	169.8	151.1	119.8	77.7	56.0	40.3	34.3	30.7	30.7
55°	4966.3	2433.8	152.9	139.7	99.3	64.4	42.7	30.7	25.3	23.5	23.5
57.5°	5352.2	2598.1	133.6	119.8	79.5	52.4	32.5	22.9	18.7	17.5	17.5
60°	5852.4	2799.2	115.0	97.5	62.6	39.7	24.1	16.3	13.8	13.2	13.2
62.5°	6402.6	2917.2	98.1	78.3	48.8	29.5	17.5	10.8	10.2	10.2	9.6
65°	6739.1	2750.4	82.5	62.6	37.9	22.3	11.4	7.8	9.0	8.4	7.2
67.5°	6309.9	2153.3	67.4	48.8	29.5	16.9	7.2	5.4	9.6	7.8	6.0
70°	5224.5	1507.3	52.4	34.3	23.5	14.4	4.8	3.6	10.2	7.8	4.8
72.5°	3909.8	1008.9	41.5	22.9	17.5	12.6	4.2	1.8	9.0	6.6	4.2
75°	2136.4	406.3	33.1	14.4	10.8	9.0	3.0	1.2	6.0	4.8	3.0
77.5°	562.2	107.2	24.1	9.6	6.0	3.6	1.8	0.6	3.0	2.4	1.2
80°	143.3	41.5	15.7	6.6	4.2	1.8	0.0	0.0	0.6	0.0	0.0
82.5°	76.5	17.5	9.6	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.8	11.4	5.4	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.3	3.6	1.8	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)