

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: P324921

Luminaire Tested: **GAN-SA7B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24324 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

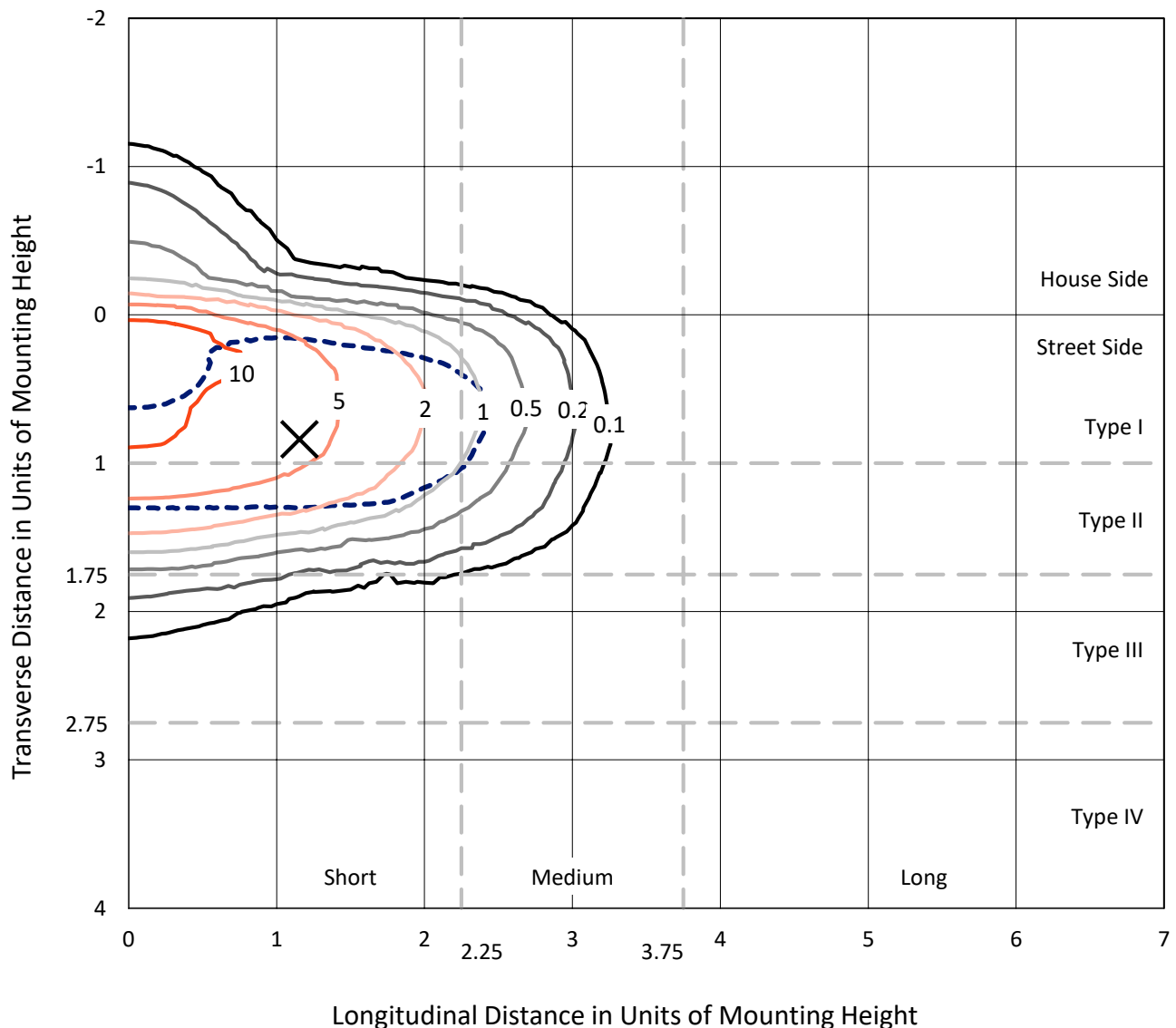
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

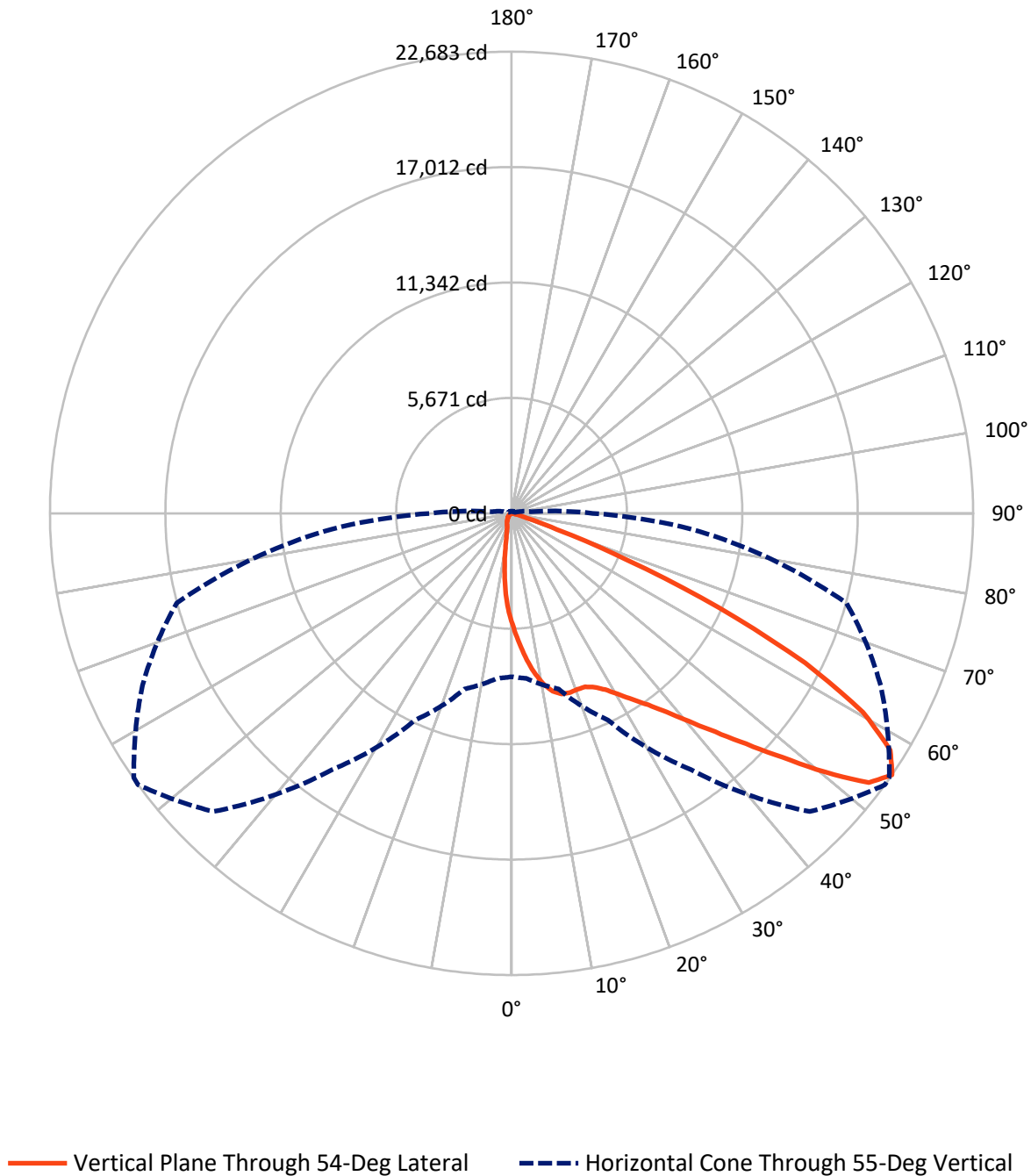
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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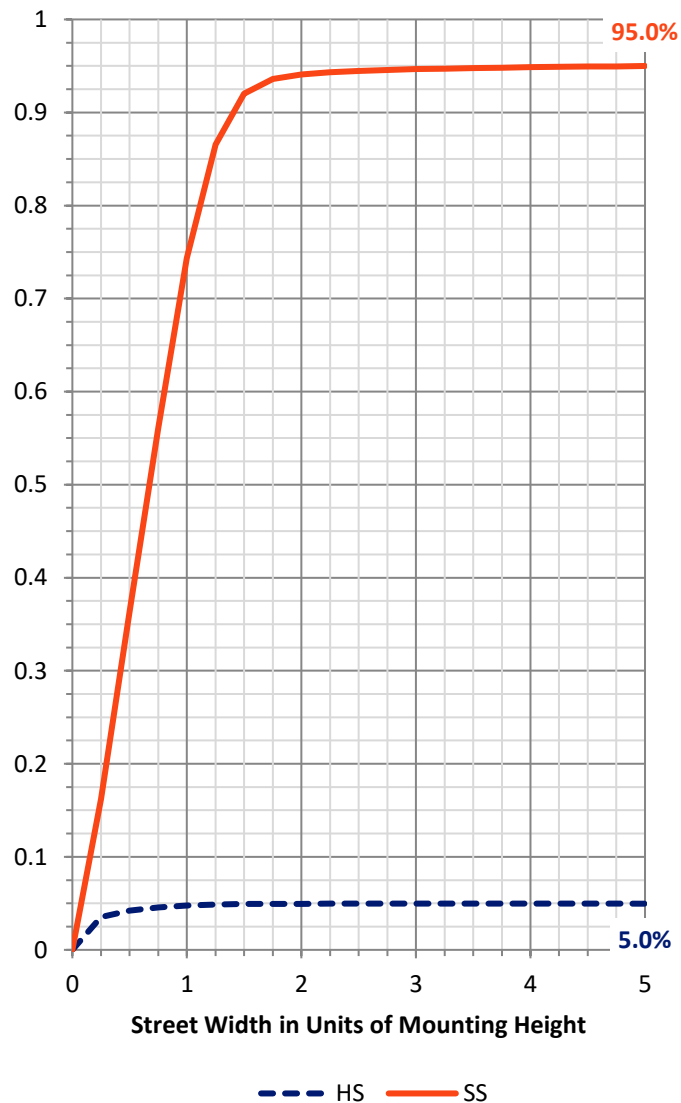
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1213.6	0.0	1213.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23110.4	0.0	23110.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	24324.0	0.0	24324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	2.1
10°-20°	1375.8	5.7
20°-30°	2349.0	9.7
30°-40°	3769.7	15.5
40°-50°	6024.0	24.8
50°-60°	6454.9	26.5
60°-70°	3314.2	13.6
70°-80°	502.0	2.1
80°-90°	32.7	0.1
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°	24324.0	100.0
0°-180°	24324.0	100.0

Coefficient of Utilization



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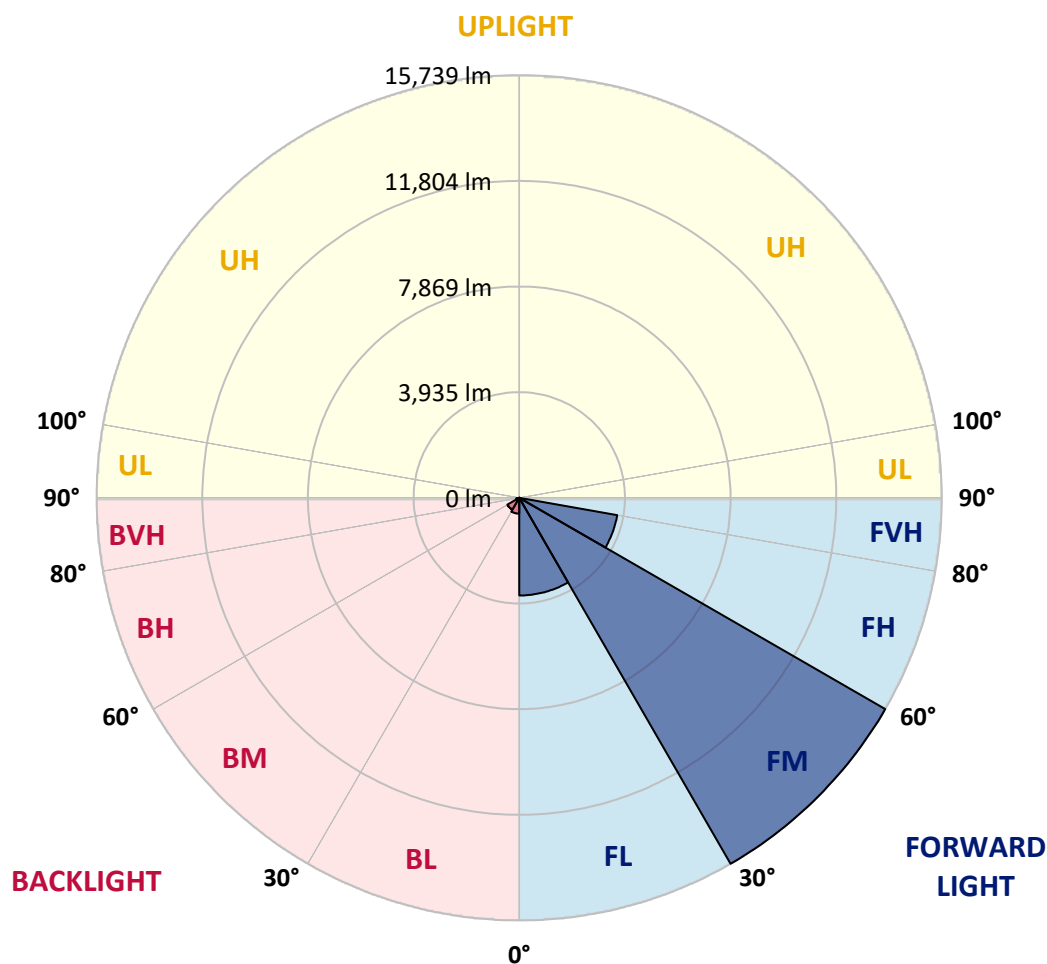
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3636.0	14.9			
FM	(30°-60°)	15738.7	64.7			
FH	(60°-80°)	3704.3	15.2			G2/5000
FVH	(80°-90°)	31.4	0.1			G1/100
BL	(0°-30°)	590.5	2.4	B2/1000		
BM	(30°-60°)	510.0	2.1	B1/1000		
BH	(60°-80°)	111.8	0.5	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6
2.5°	6836.3	6734.4	6737.5	6691.3	6522.2	6389.8	6252.2	6219.7	6005.4	5780.6	5564.2
5°	8018.0	7943.5	7925.6	7836.3	7601.0	7352.1	7085.2	7023.3	6604.1	6144.0	5691.3
7.5°	8625.2	8626.2	8611.5	8579.0	8431.9	8190.3	7864.7	7799.5	7229.2	6539.0	5823.7
10°	8448.7	8488.6	8570.6	8678.8	8791.2	8760.7	8515.9	8457.1	7837.4	6957.1	5970.7
12.5°	8036.9	8042.2	8133.6	8311.1	8634.6	8966.6	8970.8	8950.8	8418.3	7394.1	6132.5
15°	7832.1	7852.1	7885.7	8000.2	8306.9	8838.4	9218.7	9247.1	8950.8	7858.4	6304.8
17.5°	7966.6	7994.9	7966.6	7980.2	8157.7	8635.7	9261.8	9334.2	9416.2	8317.4	6467.6
20°	8331.1	8357.3	8306.9	8251.2	8285.9	8576.9	9231.3	9329.0	9780.7	8725.0	6604.1
22.5°	8822.7	8833.2	8756.5	8665.1	8639.9	8776.5	9256.5	9357.4	10072.7	9093.7	6690.3
25°	9363.7	9373.1	9277.5	9172.5	9112.6	9168.3	9463.4	9539.1	10330.1	9445.6	6739.6
27.5°	9953.0	9961.4	9841.6	9712.4	9643.1	9645.2	9804.8	9885.7	10604.2	9846.9	6779.6
30°	10575.9	10571.7	10461.4	10281.7	10193.5	10191.4	10296.4	10378.4	11001.3	10361.6	6834.2
32.5°	11275.5	11267.1	11110.5	10887.8	10788.1	10802.8	10896.2	10943.5	11494.0	10909.9	6931.9
35°	12196.7	12172.5	11936.2	11659.9	11476.1	11470.8	11549.6	11587.4	12122.1	11573.8	7094.7
37.5°	13392.1	13370.0	13049.7	12648.4	12390.0	12293.3	12386.8	12435.1	13018.1	12425.7	7356.3
40°	14570.7	14548.6	14358.5	13990.9	13592.7	13360.6	13434.1	13485.6	14136.9	13459.3	7686.1
42.5°	15383.7	15402.7	15468.8	15499.3	15126.4	14639.0	14672.6	14726.2	15312.3	14564.4	8063.2
45°	15598.0	15639.0	16013.0	16747.2	16886.9	16506.7	16154.8	16184.2	16506.7	15669.5	8440.3
47.5°	14954.1	15029.7	15751.4	17117.0	18299.8	18568.7	17902.7	17863.8	17652.7	16563.4	8708.2
50°	13490.8	13560.2	14495.1	16515.1	18728.4	20537.2	19997.3	19882.8	18658.0	17098.1	8802.7
52.5°	11373.2	11457.2	12216.7	14620.1	17920.6	21415.4	21980.5	21884.9	19395.4	17140.1	8818.5
55°	8031.7	8133.6	8937.2	11205.1	15360.6	20716.8	22683.3	22654.9	20007.8	17028.7	8852.1
57.5°	4513.8	4587.3	5453.9	7182.9	11250.2	18044.5	21949.0	22137.0	20377.6	16835.5	8902.5
60°	2004.2	2024.2	2472.7	3575.7	6586.3	13790.2	19847.1	20164.3	20060.3	16577.0	8987.6
62.5°	1111.4	1094.6	1094.6	1486.4	2862.5	8537.0	16184.2	16708.4	18706.3	16271.4	8991.8
65°	870.8	855.1	809.9	816.2	1090.4	3788.9	11207.2	12138.9	16134.8	15375.3	8689.3
67.5°	738.5	724.8	679.6	661.8	677.5	1250.0	6157.7	7125.2	12242.9	13046.5	7526.4
70°	624.0	614.5	591.4	569.3	529.4	617.7	2356.1	3013.7	7544.3	8678.8	5137.7
72.5°	502.1	497.9	506.3	487.4	439.1	411.8	805.7	975.9	3388.7	3873.0	2116.6
75°	432.8	430.7	434.9	416.0	361.4	286.8	409.7	447.5	955.9	947.5	428.6
77.5°	281.5	284.7	360.3	351.9	310.9	191.2	212.2	229.0	289.9	217.4	130.3
80°	179.6	177.5	182.8	292.0	279.4	146.0	106.1	111.3	139.7	107.1	63.0
82.5°	109.2	107.1	119.8	136.6	140.8	101.9	65.1	66.2	87.2	69.3	33.6
85°	9.5	12.6	72.5	67.2	48.3	31.5	31.5	33.6	46.2	41.0	18.9
87.5°	0.0	0.0	12.6	18.9	10.5	11.6	11.6	12.6	17.9	17.9	9.5
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°	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6	5447.6
2.5°	5451.8	5342.6	5122.0	4909.8	4730.1	4556.8	4359.3	4164.0	4072.6	4035.8	3998.0
5°	5461.3	5236.5	4781.6	4323.6	3848.8	3421.3	3056.8	2682.8	2495.9	2413.9	2376.1
7.5°	5473.9	5131.4	4396.1	3627.2	2862.5	2282.6	1776.3	1450.7	1309.9	1287.8	1233.2
10°	5476.0	5004.3	3948.6	2858.3	1919.2	1376.1	1058.8	890.8	828.8	818.3	800.4
12.5°	5480.2	4854.1	3451.8	2116.6	1279.4	920.2	765.8	710.1	693.3	692.2	692.2
15°	5492.8	4696.5	2936.0	1525.2	919.1	729.0	672.3	650.2	643.9	647.1	646.0
17.5°	5492.8	4510.6	2429.7	1136.6	742.7	655.5	624.0	609.3	607.2	610.3	611.4
20°	5452.9	4284.8	1965.4	884.5	658.6	608.2	579.8	566.2	560.9	563.0	564.1
22.5°	5357.3	4007.4	1587.2	732.2	603.0	565.1	534.7	513.7	505.3	506.3	506.3
25°	5208.1	3678.7	1241.6	633.4	557.8	518.9	483.2	459.0	453.8	452.7	454.8
27.5°	5016.9	3315.2	988.5	557.8	504.2	467.4	431.7	411.8	407.6	408.6	409.7
30°	4828.9	2938.1	779.4	493.7	444.3	409.7	382.4	372.9	372.9	376.1	377.1
32.5°	4656.6	2575.7	616.6	438.0	390.8	359.3	343.5	342.4	347.7	349.8	350.8
35°	4508.5	2240.6	510.5	395.0	348.7	321.4	316.2	320.4	326.7	330.9	331.9
37.5°	4403.5	1941.2	446.4	359.3	316.2	294.1	293.1	301.5	309.9	319.3	321.4
40°	4359.3	1688.1	402.3	327.7	289.9	273.1	270.0	281.5	297.3	310.9	313.0
42.5°	4322.6	1481.1	364.5	297.3	268.9	244.8	243.7	258.4	277.3	291.0	294.1
45°	4291.1	1315.2	329.8	264.7	241.6	210.1	213.2	232.1	246.9	261.6	264.7
47.5°	4225.9	1178.6	292.0	230.0	199.6	179.6	185.9	202.7	214.3	236.3	239.5
50°	4109.3	1067.3	253.2	188.0	162.8	155.5	164.9	176.5	191.2	210.1	212.2
52.5°	4030.6	983.2	219.5	157.6	134.5	136.6	146.0	150.2	158.6	166.0	163.9
55°	3985.4	937.0	192.2	136.6	114.5	120.8	122.9	117.6	113.4	106.1	102.9
57.5°	3980.1	895.0	171.2	118.7	100.8	104.0	96.6	78.8	64.1	55.7	53.6
60°	3971.7	843.5	154.4	99.8	89.3	85.1	69.3	43.1	30.5	28.4	28.4
62.5°	3880.3	763.7	141.8	84.0	75.6	64.1	39.9	20.0	16.8	17.9	17.9
65°	3589.4	652.3	129.2	68.3	59.9	46.2	20.0	11.6	6.3	7.4	7.4
67.5°	3051.5	520.0	115.5	52.5	45.2	29.4	11.6	5.3	0.0	0.0	0.0
70°	2043.1	322.5	97.7	36.8	29.4	17.9	8.4	1.1	0.0	0.0	0.0
72.5°	783.6	174.4	78.8	22.1	18.9	12.6	5.3	0.0	0.0	0.0	0.0
75°	176.5	114.5	54.6	15.8	13.7	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	67.2	83.0	31.5	10.5	9.5	5.3	0.0	0.0	0.0	0.0	0.0
80°	32.6	49.4	14.7	6.3	5.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	18.9	6.3	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	9.5	3.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.2	1.1	1.1	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)