

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: P324729

Luminaire Tested: **GAN-SA5C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324729
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-SA5C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 24201 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

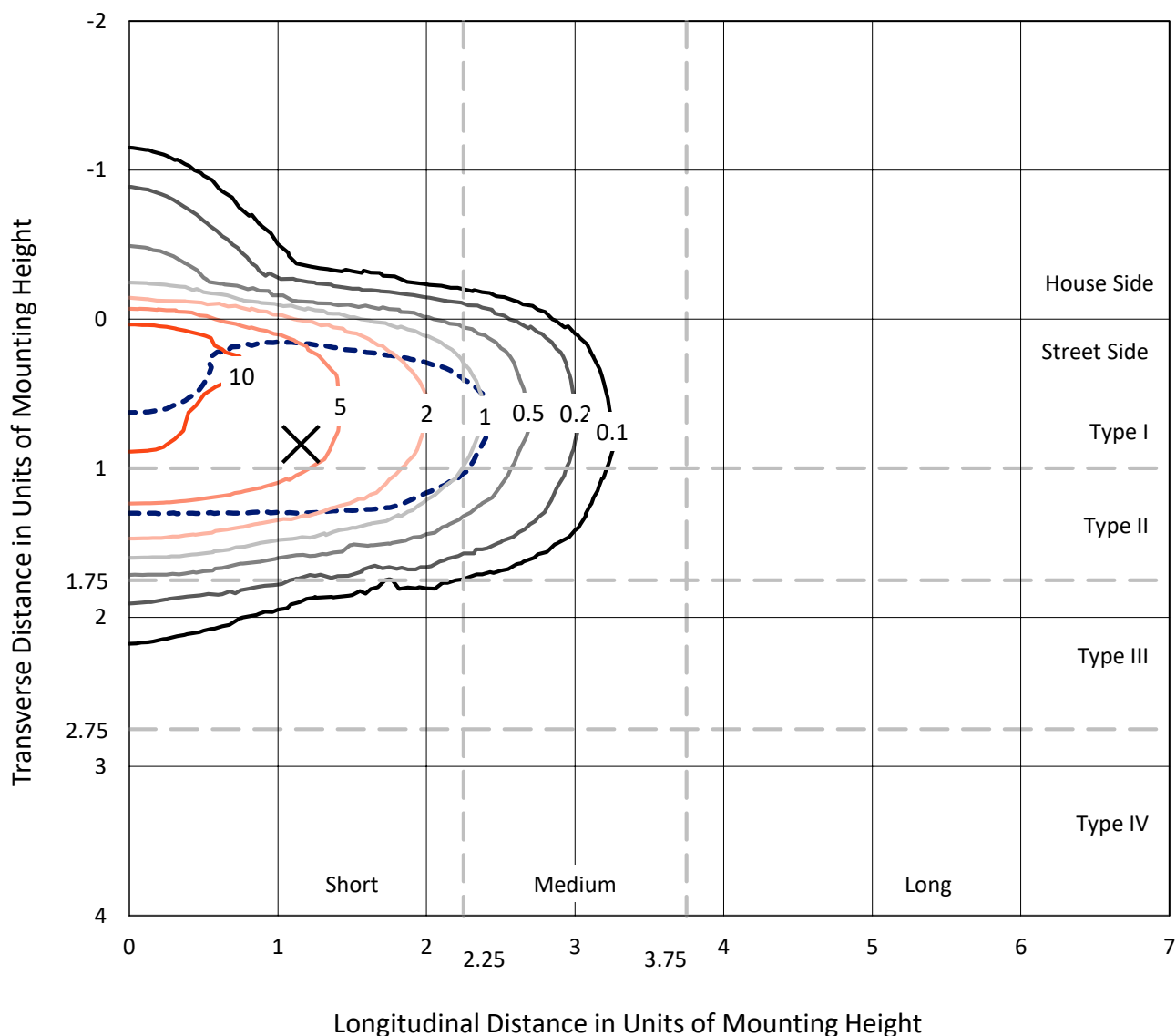
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

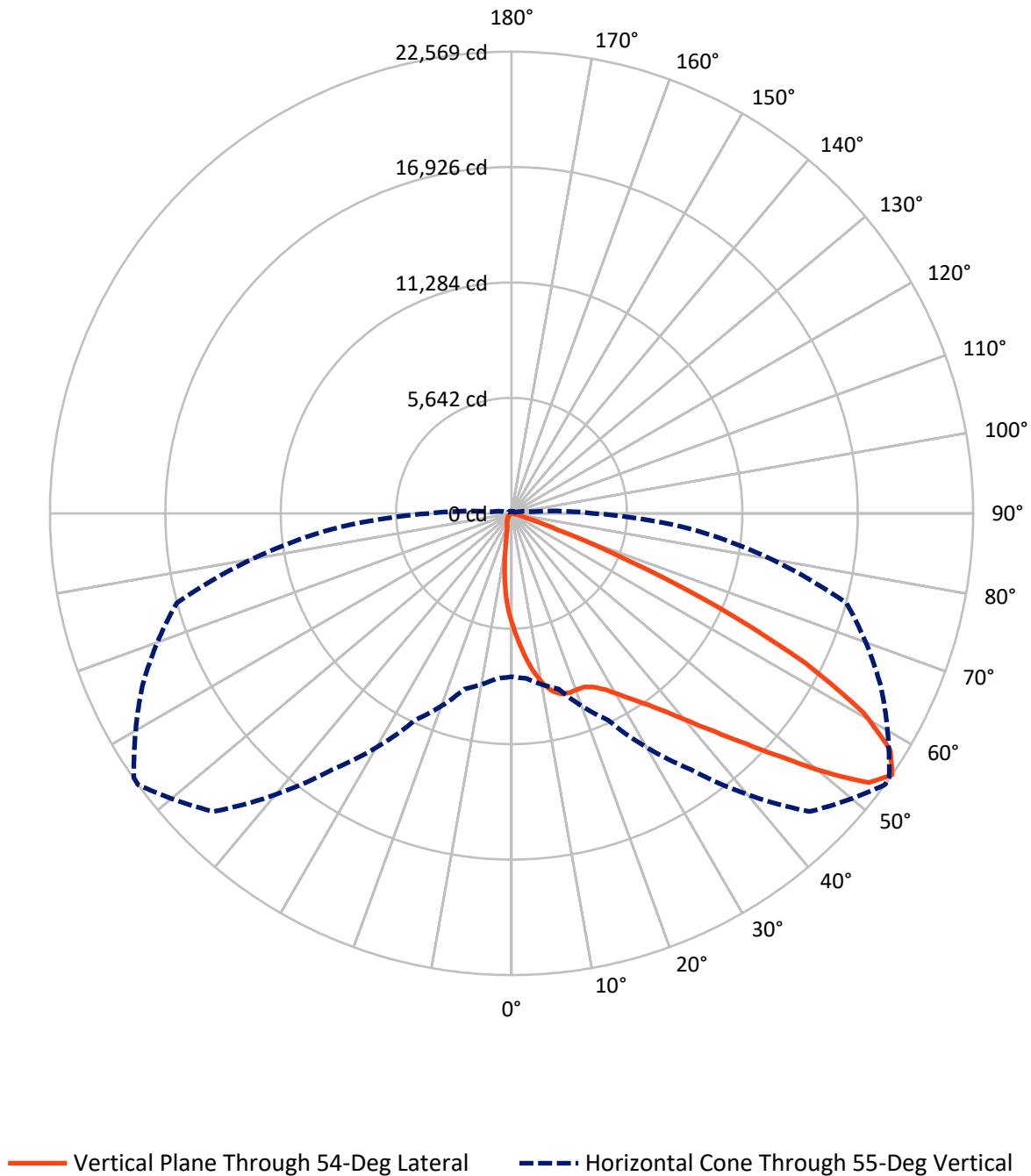
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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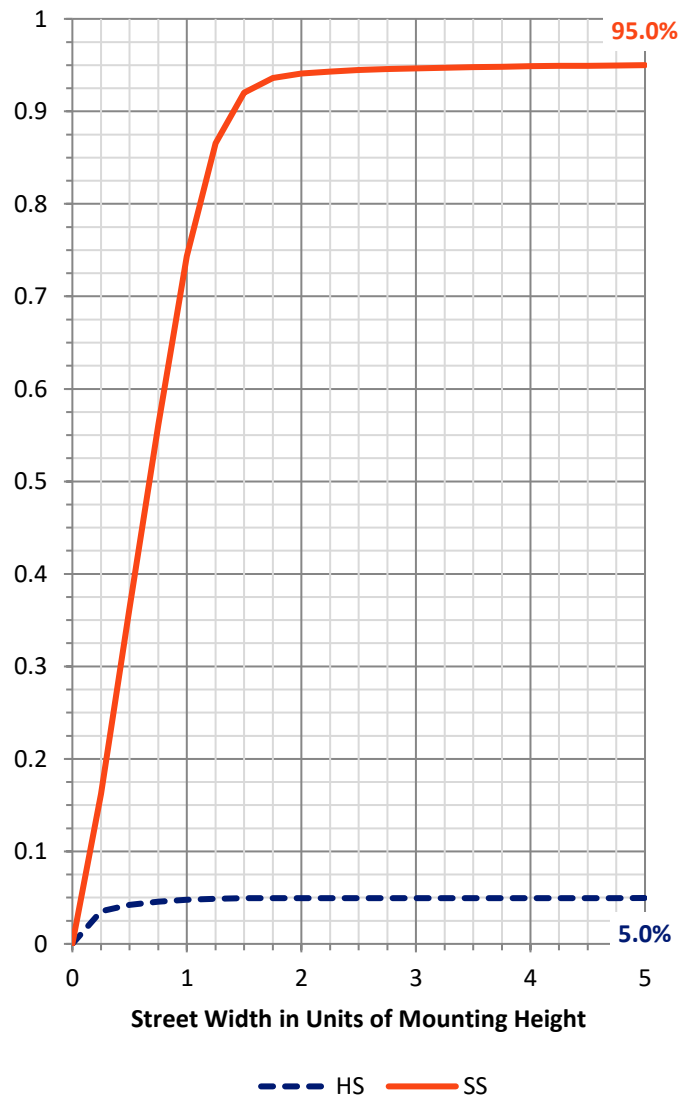
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1207.5	0.0	1207.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22993.5	0.0	22993.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	24201.0	0.0	24201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.1	2.1
10°-20°	1368.9	5.7
20°-30°	2337.1	9.7
30°-40°	3750.7	15.5
40°-50°	5993.6	24.8
50°-60°	6422.3	26.5
60°-70°	3297.4	13.6
70°-80°	499.5	2.1
80°-90°	32.5	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°	24201.0	100.0
0°-180°	24201.0	100.0

Coefficient of Utilization



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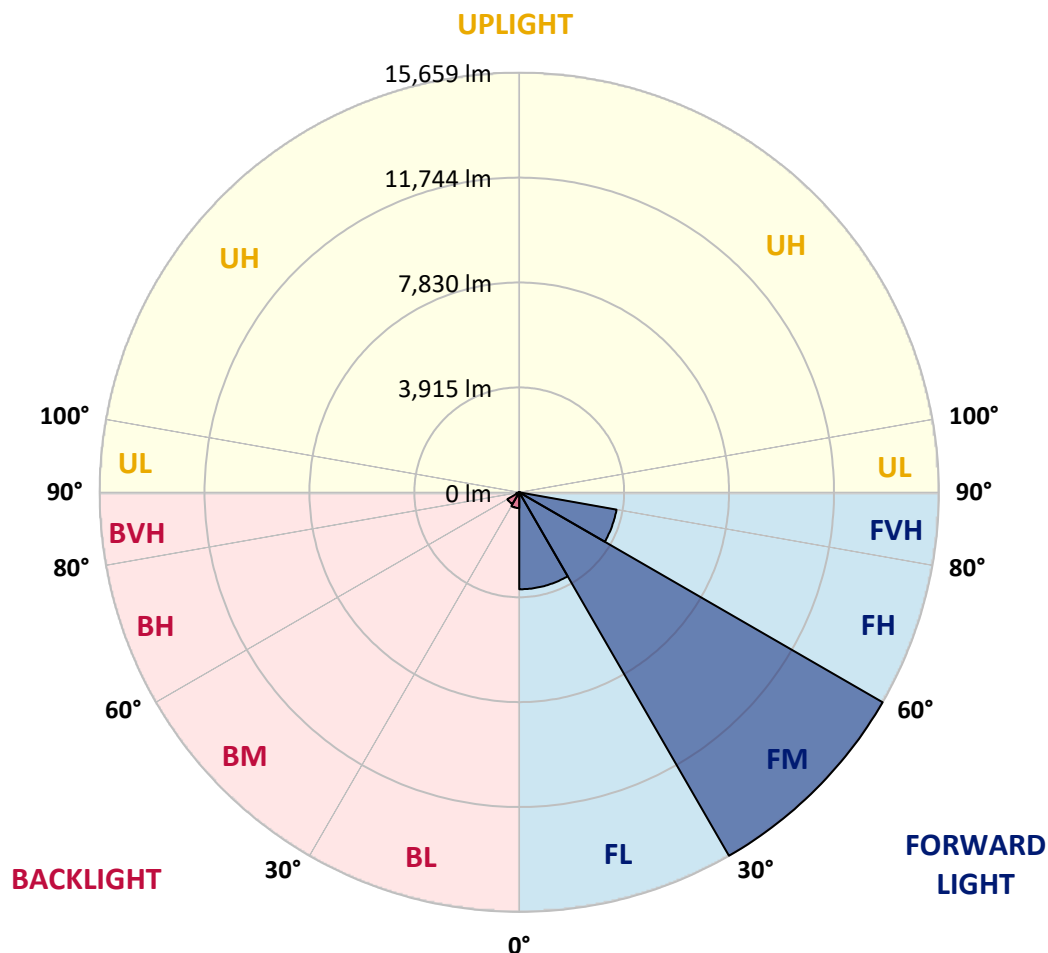
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3617.6	14.9			
FM	(30°-60°)	15659.1	64.7			
FH	(60°-80°)	3685.6	15.2			G2/5000
FVH	(80°-90°)	31.2	0.1			G1/100
BL	(0°-30°)	587.5	2.4	B2/1000		
BM	(30°-60°)	507.4	2.1	B1/1000		
BH	(60°-80°)	111.3	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°	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1
2.5°	6801.7	6700.3	6703.5	6657.5	6489.2	6357.5	6220.6	6188.2	5975.0	5751.4	5536.1
5°	7977.5	7903.3	7885.5	7796.7	7562.6	7314.9	7049.4	6987.8	6570.7	6113.0	5662.5
7.5°	8581.6	8582.6	8568.0	8535.6	8389.3	8148.9	7824.9	7760.1	7192.6	6505.9	5794.2
10°	8406.0	8445.7	8527.2	8634.9	8746.7	8716.4	8472.9	8414.4	7797.7	6921.9	5940.5
12.5°	7996.3	8001.5	8092.5	8269.1	8591.0	8921.2	8925.4	8905.6	8375.7	7356.7	6101.5
15°	7792.5	7812.4	7845.8	7959.7	8264.9	8793.7	9172.1	9200.3	8905.6	7818.6	6272.9
17.5°	7926.3	7954.5	7926.3	7939.9	8116.5	8592.0	9214.9	9287.0	9368.6	8275.4	6434.9
20°	8288.9	8315.1	8264.9	8209.5	8244.0	8533.5	9184.6	9281.8	9731.2	8680.9	6570.7
22.5°	8778.1	8788.5	8712.2	8621.3	8596.2	8732.1	9209.7	9310.0	10021.8	9047.7	6656.4
25°	9316.3	9325.7	9230.6	9126.1	9066.5	9121.9	9415.6	9490.8	10277.8	9397.8	6705.6
27.5°	9902.6	9911.0	9791.8	9663.3	9594.3	9596.4	9755.3	9835.7	10550.6	9797.1	6745.3
30°	10522.4	10518.2	10408.5	10229.7	10142.0	10139.9	10244.4	10325.9	10945.7	10309.2	6799.6
32.5°	11218.4	11210.1	11054.4	10832.8	10733.5	10748.1	10841.2	10888.2	11435.8	10854.7	6896.8
35°	12135.0	12111.0	11875.8	11601.0	11418.1	11412.8	11491.2	11528.8	12060.8	11515.3	7058.8
37.5°	13324.4	13302.4	12983.7	12584.4	12327.3	12231.2	12324.2	12372.3	12952.3	12362.9	7319.1
40°	14497.0	14475.1	14285.9	13920.1	13524.0	13293.0	13366.2	13417.4	14065.4	13391.3	7647.2
42.5°	15306.0	15324.8	15390.6	15420.9	15049.9	14565.0	14598.4	14651.7	15234.9	14490.8	8022.4
45°	15519.2	15559.9	15932.0	16662.5	16801.5	16423.2	16073.1	16102.3	16423.2	15590.2	8397.6
47.5°	14878.5	14953.7	15671.7	17030.4	18207.2	18474.8	17812.2	17773.5	17563.4	16479.6	8664.1
50°	13422.6	13491.6	14421.8	16431.6	18633.7	20433.4	19896.2	19782.3	18563.6	17011.6	8758.2
52.5°	11315.6	11399.3	12154.9	14546.1	17829.9	21307.1	21869.4	21774.3	19297.3	17053.4	8773.9
55°	7991.1	8092.5	8892.0	11148.4	15283.0	20612.1	22568.6	22540.4	19906.6	16942.6	8807.3
57.5°	4490.9	4564.1	5426.3	7146.6	11193.4	17953.3	21838.0	22025.1	20274.5	16750.3	8857.5
60°	1994.1	2014.0	2460.2	3557.6	6553.0	13720.5	19746.7	20062.3	19958.9	16493.2	8942.1
62.5°	1105.7	1089.0	1089.0	1478.9	2848.0	8493.8	16102.3	16623.9	18611.7	16189.1	8946.3
65°	866.4	850.7	805.8	812.1	1084.8	3769.8	11150.5	12077.5	16053.2	15297.6	8645.3
67.5°	734.7	721.1	676.2	658.4	674.1	1243.7	6126.6	7089.1	12181.0	12980.5	7488.4
70°	620.8	611.4	588.4	566.5	526.7	614.5	2344.2	2998.5	7506.1	8634.9	5111.7
72.5°	499.6	495.4	503.8	484.9	436.9	409.7	801.6	970.9	3371.6	3853.4	2105.9
75°	430.6	428.5	432.7	413.9	359.5	285.3	407.6	445.2	951.1	942.7	426.4
77.5°	280.1	283.2	358.5	350.1	309.4	190.2	211.1	227.8	288.5	216.3	129.6
80°	178.7	176.6	181.9	290.5	278.0	145.3	105.6	110.8	139.0	106.6	62.7
82.5°	108.7	106.6	119.1	135.9	140.0	101.4	64.8	65.8	86.7	69.0	33.4
85°	9.4	12.5	72.1	66.9	48.1	31.4	31.4	33.4	46.0	40.8	18.8
87.5°	0.0	0.0	12.5	18.8	10.5	11.5	11.5	12.5	17.8	17.8	9.4
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°	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1	5420.1
2.5°	5424.2	5315.5	5096.1	4884.9	4706.2	4533.8	4337.3	4142.9	4052.0	4015.4	3977.8
5°	5433.6	5210.0	4757.4	4301.8	3829.4	3404.0	3041.3	2669.3	2483.2	2401.7	2364.1
7.5°	5446.2	5105.5	4373.9	3608.8	2848.0	2271.1	1767.3	1443.3	1303.3	1281.3	1227.0
10°	5448.3	4979.0	3928.6	2843.8	1909.5	1369.1	1053.5	886.3	824.6	814.2	796.4
12.5°	5452.5	4829.6	3434.3	2105.9	1273.0	915.5	761.9	706.5	689.8	688.7	688.7
15°	5465.0	4672.8	2921.1	1517.5	914.5	725.3	668.9	646.9	640.7	643.8	642.8
17.5°	5465.0	4487.8	2417.4	1130.8	738.9	652.2	620.8	606.2	604.1	607.2	608.3
20°	5425.3	4263.1	1955.4	880.0	655.3	605.1	576.9	563.3	558.1	560.2	561.2
22.5°	5330.2	3987.2	1579.2	728.5	599.9	562.3	532.0	511.1	502.7	503.8	503.8
25°	5181.8	3660.1	1235.3	630.2	555.0	516.3	480.8	456.7	451.5	450.5	452.5
27.5°	4991.5	3298.4	983.5	555.0	501.7	465.1	429.5	409.7	405.5	406.6	407.6
30°	4804.5	2923.2	775.5	491.2	442.1	407.6	380.4	371.0	371.0	374.2	375.2
32.5°	4633.1	2562.7	613.5	435.8	388.8	357.4	341.8	340.7	345.9	348.0	349.1
35°	4485.7	2229.3	507.9	393.0	347.0	319.8	314.6	318.8	325.0	329.2	330.3
37.5°	4381.2	1931.4	444.2	357.4	314.6	292.6	291.6	300.0	308.3	317.7	319.8
40°	4337.3	1679.5	400.3	326.1	288.5	271.7	268.6	280.1	295.8	309.4	311.4
42.5°	4300.7	1473.6	362.7	295.8	267.6	243.5	242.5	257.1	275.9	289.5	292.6
45°	4269.4	1308.5	328.2	263.4	240.4	209.0	212.2	231.0	245.6	260.2	263.4
47.5°	4204.6	1172.6	290.5	228.9	198.6	178.7	185.0	201.7	213.2	235.2	238.3
50°	4088.6	1061.9	251.9	187.1	162.0	154.7	164.1	175.6	190.2	209.0	211.1
52.5°	4010.2	978.2	218.4	156.8	133.8	135.9	145.3	149.5	157.8	165.1	163.0
55°	3965.2	932.3	191.3	135.9	113.9	120.2	122.3	117.1	112.9	105.6	102.4
57.5°	3960.0	890.5	170.4	118.1	100.3	103.5	96.2	78.4	63.8	55.4	53.3
60°	3951.6	839.2	153.6	99.3	88.8	84.7	69.0	42.9	30.3	28.2	28.2
62.5°	3860.7	759.8	141.1	83.6	75.2	63.8	39.7	19.9	16.7	17.8	17.8
65°	3571.2	649.0	128.6	67.9	59.6	46.0	19.9	11.5	6.3	7.3	7.3
67.5°	3036.1	517.3	115.0	52.3	44.9	29.3	11.5	5.2	0.0	0.0	0.0
70°	2032.8	320.9	97.2	36.6	29.3	17.8	8.4	1.0	0.0	0.0	0.0
72.5°	779.7	173.5	78.4	21.9	18.8	12.5	5.2	0.0	0.0	0.0	0.0
75°	175.6	113.9	54.3	15.7	13.6	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	66.9	82.6	31.4	10.5	9.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	32.4	49.1	14.6	6.3	5.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	18.8	6.3	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	9.4	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	3.1	1.0	1.0	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)