

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: P324970

Luminaire Tested: **GAN-SA6C-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324970
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-SA6C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 27519 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

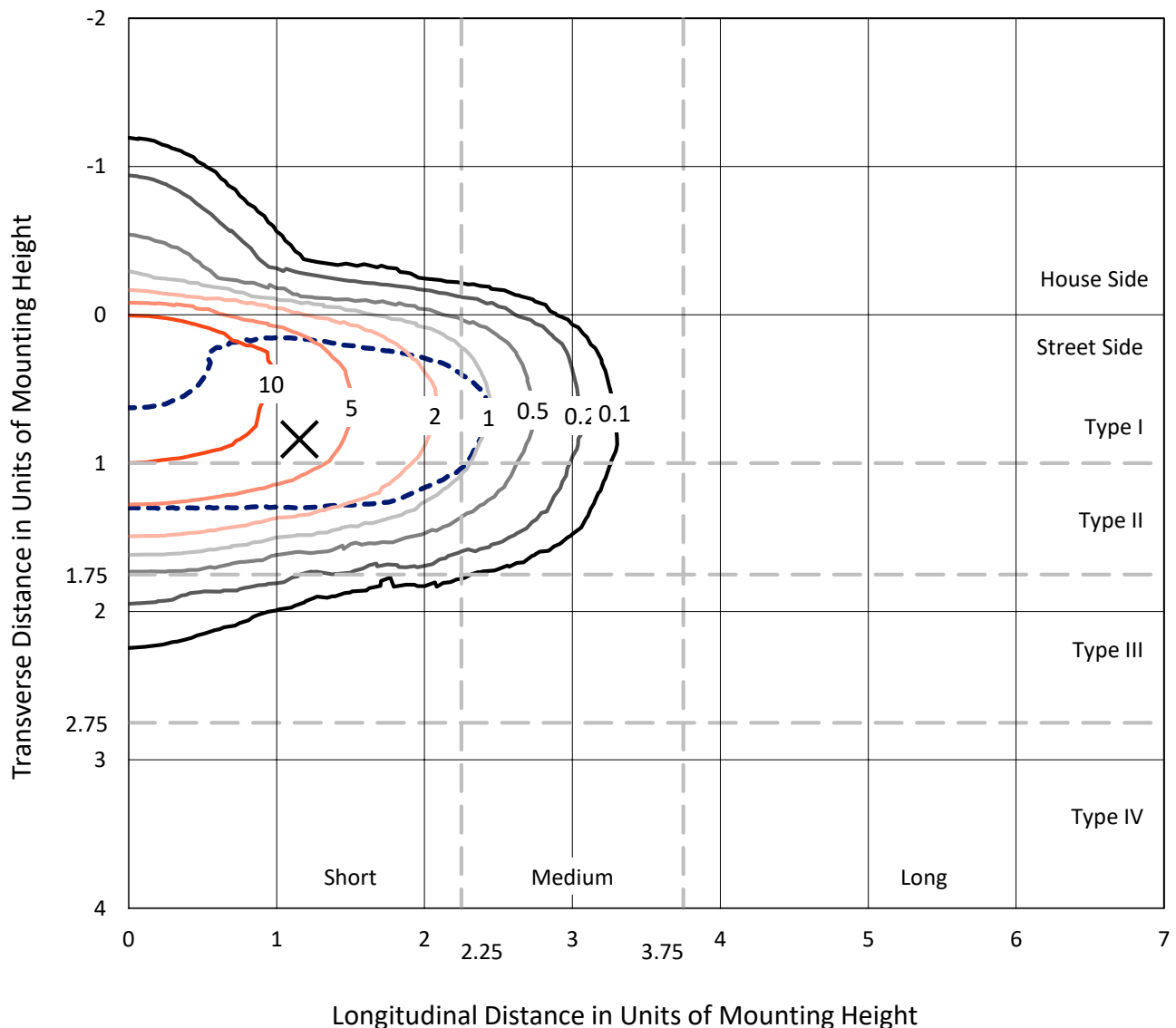
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

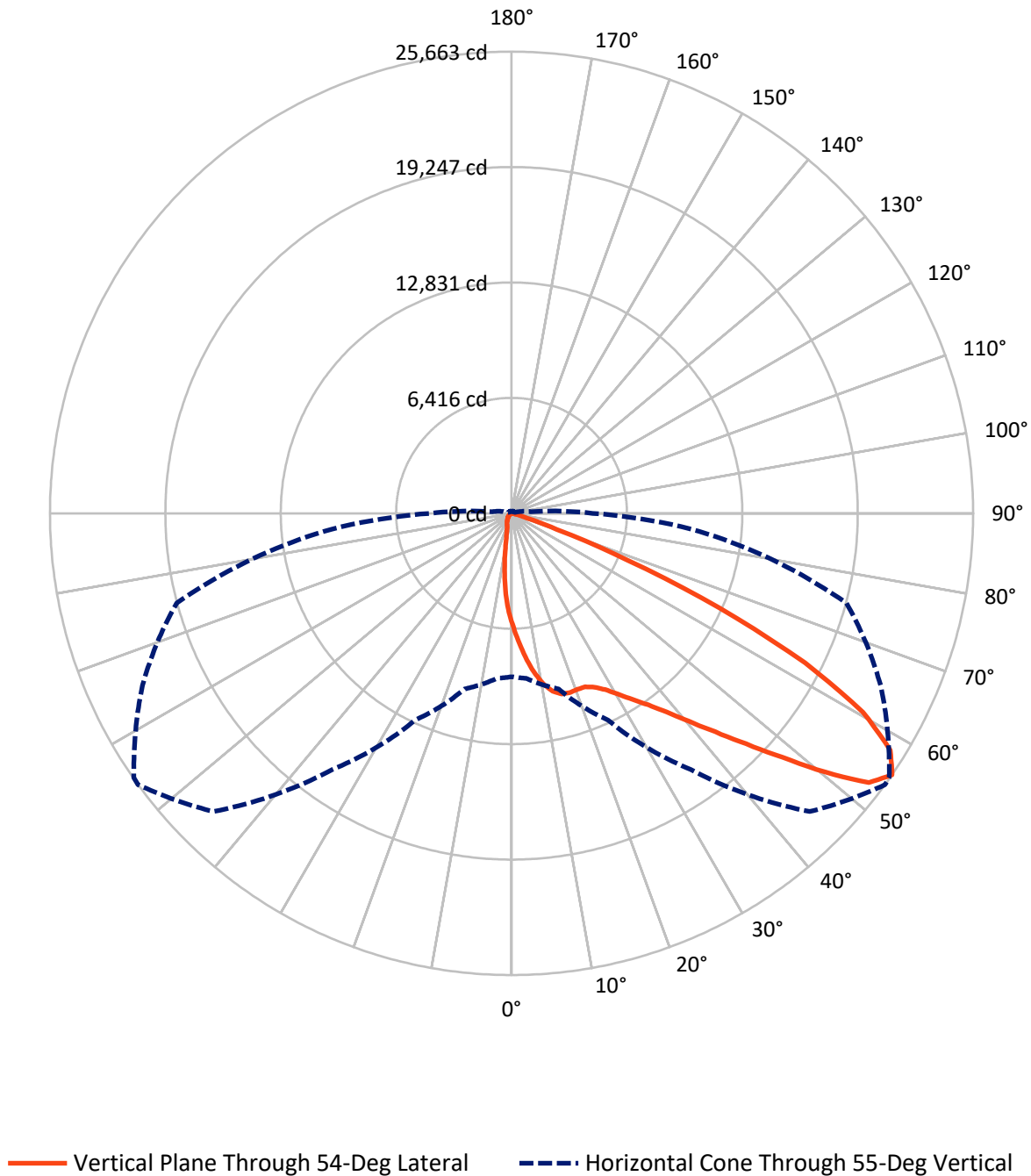
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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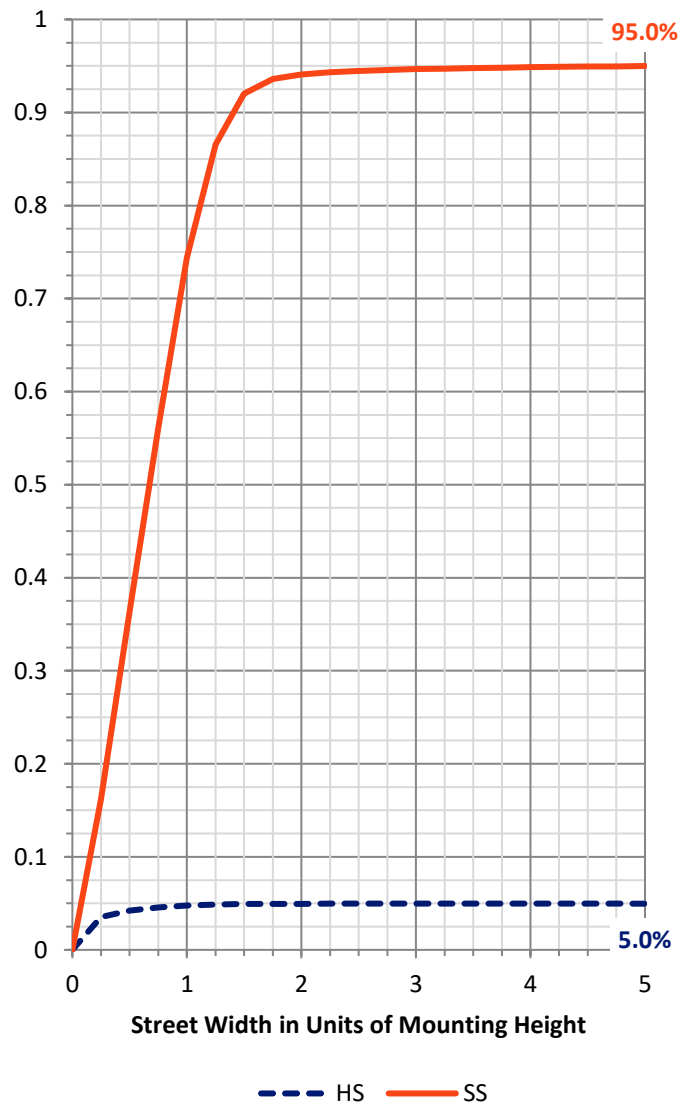
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.0	0.0	1373.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	26146.0	0.0	26146.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	27519.0	0.0	27519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	2.1
10°-20°	1556.5	5.7
20°-30°	2657.5	9.7
30°-40°	4264.9	15.5
40°-50°	6815.3	24.8
50°-60°	7302.8	26.5
60°-70°	3749.5	13.6
70°-80°	568.0	2.1
80°-90°	37.0	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°	27519.0	100.0
0°-180°	27519.0	100.0

Coefficient of Utilization



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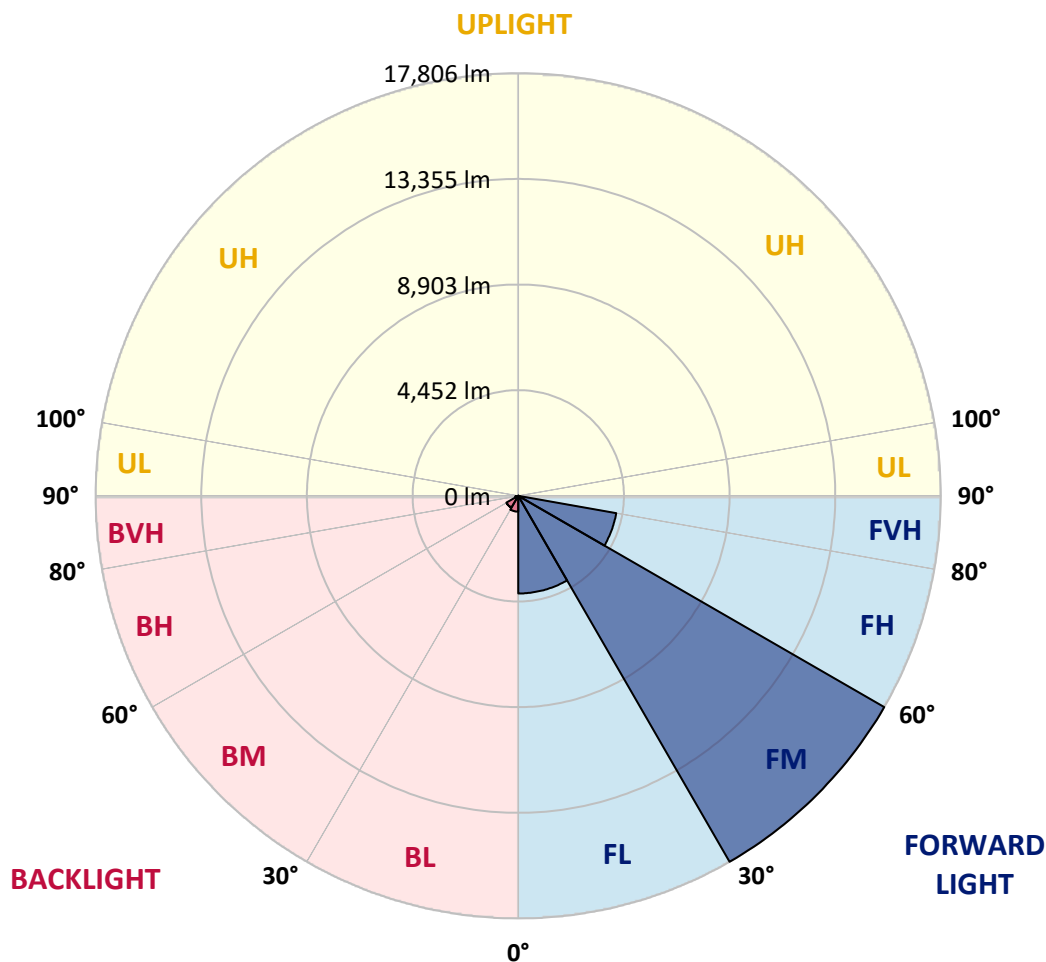
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4113.6	14.9			
FM	(30°-60°)	17806.0	64.7			
FH	(60°-80°)	4190.9	15.2			G2/5000
FVH	(80°-90°)	35.5	0.1			G1/100
BL	(0°-30°)	668.0	2.4	B2/1000		
BM	(30°-60°)	577.0	2.1	B1/1000		
BH	(60°-80°)	126.5	0.5	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2
2.5°	7734.2	7619.0	7622.5	7570.2	7378.9	7229.2	7073.5	7036.6	6794.2	6539.9	6295.1
5°	9071.2	8986.8	8966.6	8865.6	8599.4	8317.8	8015.9	7945.8	7471.6	6951.1	6438.9
7.5°	9758.1	9759.3	9742.7	9705.8	9539.5	9266.1	8897.7	8824.0	8178.7	7397.9	6588.6
10°	9558.5	9603.6	9696.3	9818.7	9945.9	9911.4	9634.5	9568.0	8866.8	7870.9	6755.0
12.5°	9092.6	9098.6	9201.9	9402.8	9768.8	10144.4	10149.1	10126.5	9524.0	8365.3	6938.0
15°	8860.9	8883.4	8921.5	9051.0	9398.0	9999.4	10429.6	10461.7	10126.5	8890.6	7132.9
17.5°	9013.0	9045.1	9013.0	9028.4	9229.3	9770.0	10478.3	10560.3	10653.0	9409.9	7317.1
20°	9425.4	9455.1	9398.0	9335.0	9374.3	9703.5	10443.8	10554.4	11065.4	9871.0	7471.6
22.5°	9981.5	9993.4	9906.7	9803.3	9774.8	9929.3	10472.4	10586.5	11395.8	10288.2	7569.1
25°	10593.6	10604.3	10496.1	10377.3	10309.6	10372.5	10706.5	10792.1	11686.9	10686.3	7624.9
27.5°	11260.3	11269.8	11134.3	10988.1	10909.7	10912.1	11092.7	11184.2	11997.1	11140.3	7670.1
30°	11965.0	11960.3	11835.5	11632.3	11532.4	11530.1	11648.9	11741.6	12446.3	11722.6	7731.9
32.5°	12756.5	12747.0	12569.9	12318.0	12205.1	12221.7	12327.5	12381.0	13003.7	12342.9	7842.4
35°	13798.8	13771.4	13504.0	13191.5	12983.5	12977.6	13066.7	13109.5	13714.4	13094.0	8026.6
37.5°	15151.2	15126.2	14763.8	14309.8	14017.4	13908.1	14013.9	14068.5	14728.1	14057.8	8322.5
40°	16484.6	16459.6	16244.5	15828.6	15378.2	15115.5	15198.7	15256.9	15993.8	15227.2	8695.7
42.5°	17404.4	17425.8	17500.7	17535.2	17113.3	16561.8	16599.9	16660.5	17323.6	16477.5	9122.3
45°	17646.9	17693.2	18116.3	18947.0	19105.1	18674.8	18276.7	18310.0	18674.8	17727.7	9549.0
47.5°	16918.4	17003.9	17820.4	19365.3	20703.5	21007.7	20254.3	20210.3	19971.4	18739.0	9852.0
50°	15262.9	15341.3	16399.0	18684.4	21188.4	23234.8	22624.0	22494.4	21108.7	19343.9	9959.0
52.5°	12867.0	12962.1	13821.3	16540.4	20274.5	24228.3	24867.7	24759.6	21943.0	19391.5	9976.8
55°	9086.7	9201.9	10111.1	12676.9	17378.3	23438.0	25662.8	25630.7	22635.9	19265.5	10014.8
57.5°	5106.6	5189.8	6170.3	8126.4	12728.0	20414.7	24832.1	25044.8	23054.2	19046.8	10071.9
60°	2267.5	2290.1	2797.5	4045.4	7451.4	15601.6	22454.0	22812.9	22695.3	18754.5	10168.1
62.5°	1257.3	1238.3	1238.3	1681.6	3238.4	9658.3	18310.0	18903.0	21163.4	18408.6	10172.9
65°	985.2	967.4	916.3	923.4	1233.6	4286.6	12679.3	13733.4	18254.1	17394.9	9830.6
67.5°	835.5	820.0	768.9	748.7	766.5	1414.2	6966.5	8061.1	13851.0	14760.2	8515.0
70°	705.9	695.2	669.1	644.1	599.0	698.8	2665.6	3409.6	8535.2	9818.7	5812.6
72.5°	568.1	563.3	572.8	551.4	496.8	465.9	911.5	1104.0	3833.8	4381.7	2394.7
75°	489.6	487.3	492.0	470.6	408.8	324.4	463.5	506.3	1081.5	1072.0	484.9
77.5°	318.5	322.1	407.6	398.1	351.8	216.3	240.1	259.1	328.0	246.0	147.4
80°	203.2	200.8	206.8	330.4	316.1	165.2	120.0	126.0	158.1	121.2	71.3
82.5°	123.6	121.2	135.5	154.5	159.2	115.3	73.7	74.9	98.6	78.4	38.0
85°	10.7	14.3	82.0	76.1	54.7	35.7	35.7	38.0	52.3	46.3	21.4
87.5°	0.0	0.0	14.3	21.4	11.9	13.1	13.1	14.3	20.2	20.2	10.7
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°	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2	6163.2
2.5°	6167.9	6044.3	5794.7	5554.7	5351.5	5155.4	4931.9	4710.9	4607.5	4565.9	4523.1
5°	6178.6	5924.3	5409.7	4891.5	4354.4	3870.7	3458.3	3035.2	2823.7	2731.0	2688.2
7.5°	6192.9	5805.4	4973.5	4103.6	3238.4	2582.4	2009.6	1641.2	1482.0	1457.0	1395.2
10°	6195.2	5661.6	4467.3	3233.7	2171.2	1556.8	1197.9	1007.8	937.7	925.8	905.6
12.5°	6200.0	5491.7	3905.2	2394.7	1447.5	1041.1	866.4	803.4	784.4	783.2	783.2
15°	6214.3	5313.4	3321.6	1725.6	1039.9	824.8	760.6	735.6	728.5	732.1	730.9
17.5°	6214.3	5103.1	2748.8	1285.9	840.2	741.6	705.9	689.3	686.9	690.5	691.7
20°	6169.1	4847.6	2223.5	1000.7	745.1	688.1	656.0	640.6	634.6	637.0	638.2
22.5°	6060.9	4533.8	1795.7	828.3	682.2	639.4	604.9	581.1	571.6	572.8	572.8
25°	5892.2	4161.9	1404.7	716.6	631.1	587.1	546.7	519.3	513.4	512.2	514.6
27.5°	5675.9	3750.7	1118.3	631.1	570.4	528.8	488.4	465.9	461.1	462.3	463.5
30°	5463.2	3324.0	881.8	558.6	502.7	463.5	432.6	421.9	421.9	425.5	426.6
32.5°	5268.3	2914.0	697.6	495.6	442.1	406.4	388.6	387.4	393.4	395.7	396.9
35°	5100.7	2534.9	577.6	446.8	394.6	363.7	357.7	362.5	369.6	374.4	375.5
37.5°	4981.9	2196.2	505.1	406.4	357.7	332.8	331.6	341.1	350.6	361.3	363.7
40°	4931.9	1909.8	455.2	370.8	328.0	309.0	305.4	318.5	336.3	351.8	354.1
42.5°	4890.4	1675.7	412.4	336.3	304.2	276.9	275.7	292.4	313.7	329.2	332.8
45°	4854.7	1487.9	373.2	299.5	273.3	237.7	241.2	262.6	279.3	295.9	299.5
47.5°	4781.0	1333.4	330.4	260.3	225.8	203.2	210.4	229.4	242.4	267.4	271.0
50°	4649.1	1207.4	286.4	212.7	184.2	175.9	186.6	199.7	216.3	237.7	240.1
52.5°	4560.0	1112.4	248.4	178.3	152.1	154.5	165.2	169.9	179.5	187.8	185.4
55°	4508.9	1060.1	217.5	154.5	129.5	136.7	139.0	133.1	128.3	120.0	116.5
57.5°	4502.9	1012.5	193.7	134.3	114.1	117.7	109.3	89.1	72.5	63.0	60.6
60°	4493.4	954.3	174.7	112.9	101.0	96.3	78.4	48.7	34.5	32.1	32.1
62.5°	4390.0	864.0	160.4	95.1	85.6	72.5	45.2	22.6	19.0	20.2	20.2
65°	4060.8	738.0	146.2	77.2	67.7	52.3	22.6	13.1	7.1	8.3	8.3
67.5°	3452.4	588.3	130.7	59.4	51.1	33.3	13.1	5.9	0.0	0.0	0.0
70°	2311.5	364.8	110.5	41.6	33.3	20.2	9.5	1.2	0.0	0.0	0.0
72.5°	886.6	197.3	89.1	25.0	21.4	14.3	5.9	0.0	0.0	0.0	0.0
75°	199.7	129.5	61.8	17.8	15.4	9.5	2.4	0.0	0.0	0.0	0.0
77.5°	76.1	93.9	35.7	11.9	10.7	5.9	0.0	0.0	0.0	0.0	0.0
80°	36.8	55.9	16.6	7.1	5.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	21.4	7.1	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	10.7	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.6	1.2	1.2	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)