

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: P323441

Luminaire Tested: **GAN-SA7B-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323441
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-SA7B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 28879 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

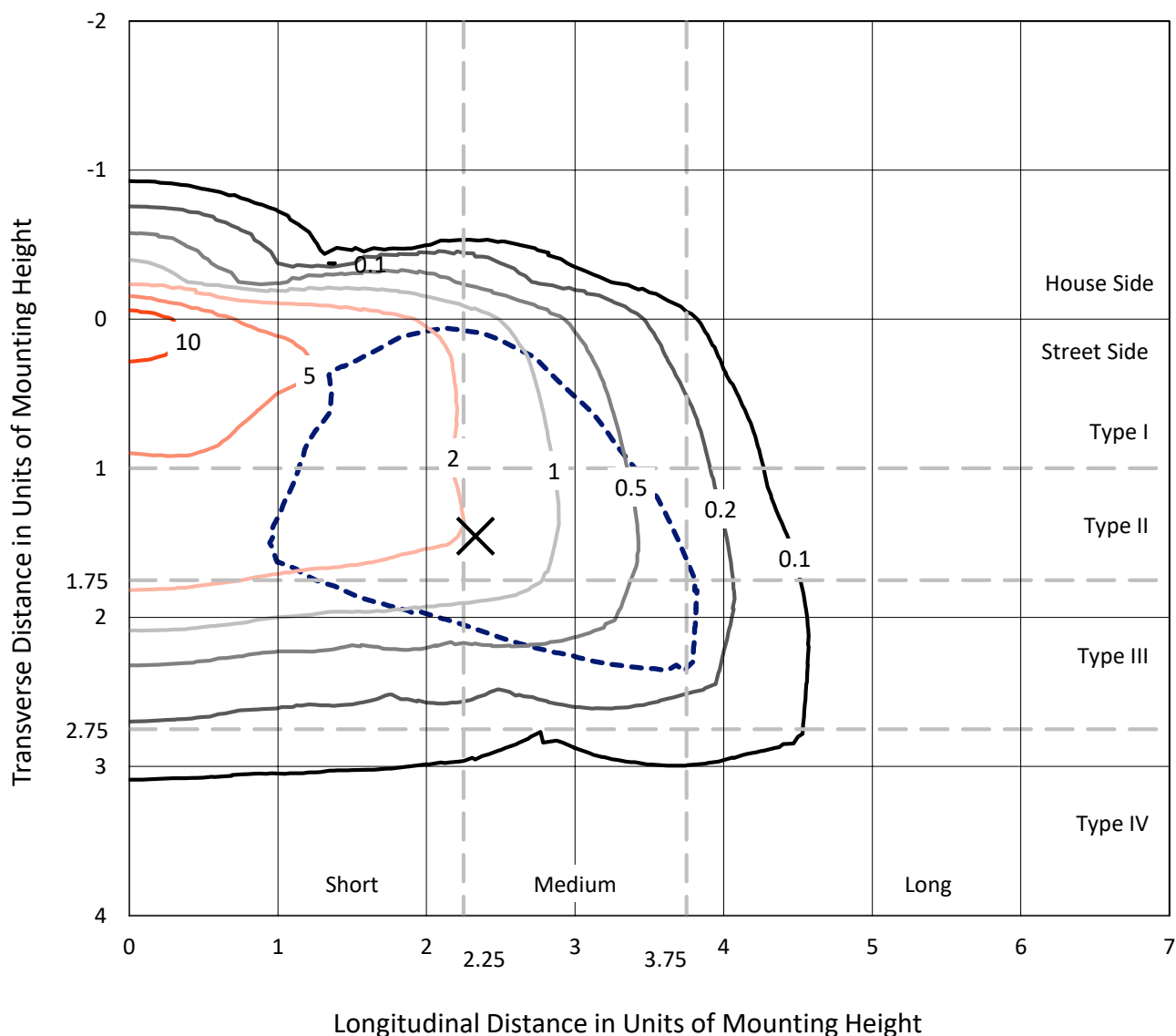
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

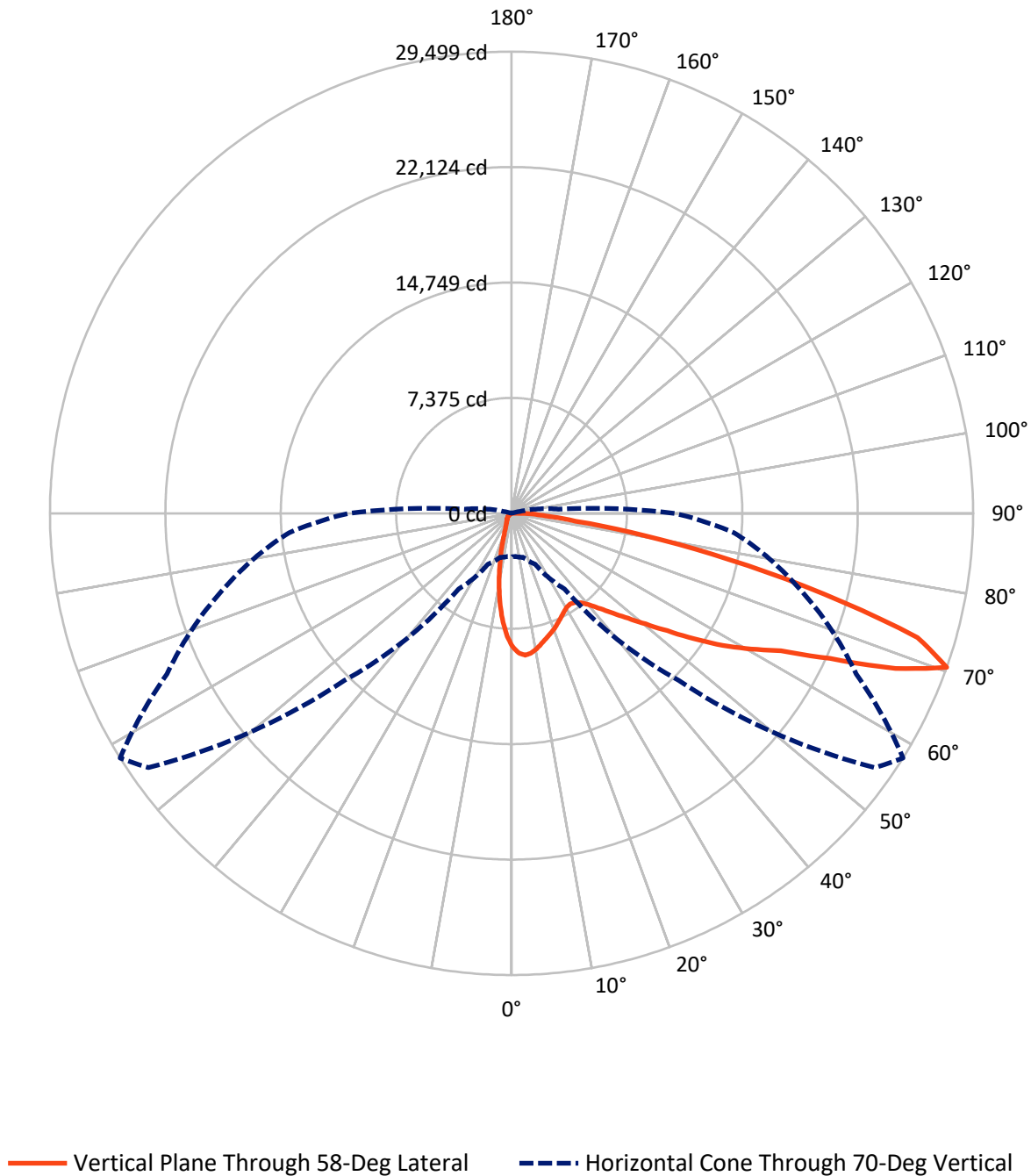
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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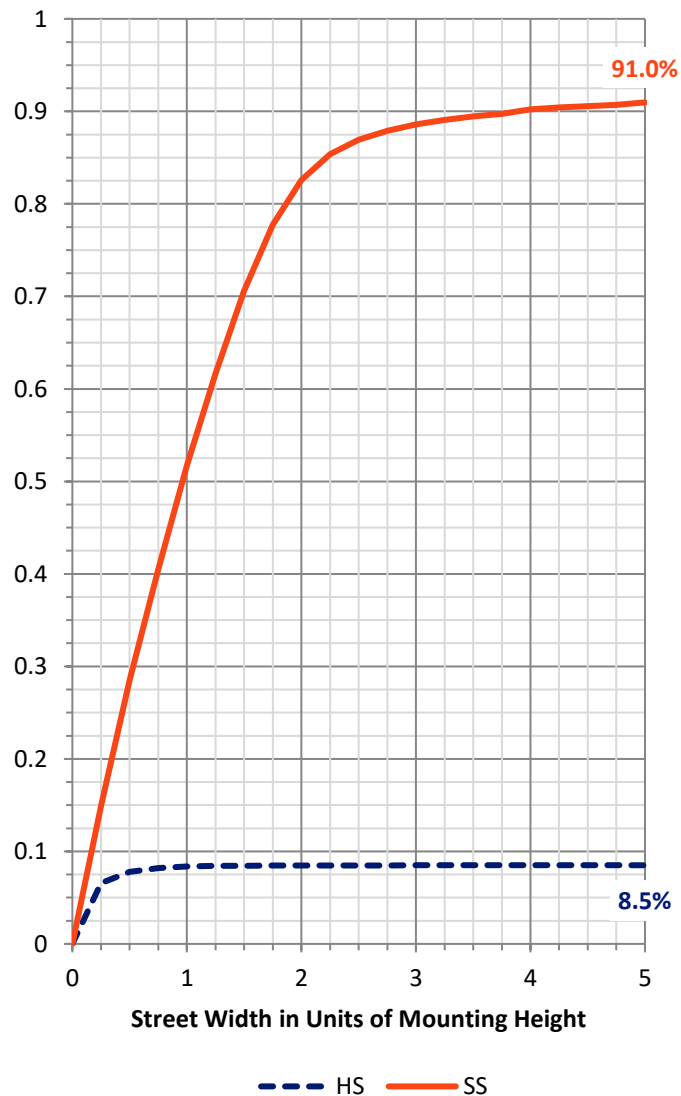
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.4	0.0	2471.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	26407.6	0.0	26407.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	28879.0	0.0	28879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.6	2.4
10°-20°	1464.1	5.1
20°-30°	1924.8	6.7
30°-40°	2549.1	8.8
40°-50°	3810.2	13.2
50°-60°	6103.8	21.1
60°-70°	7693.7	26.6
70°-80°	4150.0	14.4
80°-90°	485.8	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°	28879.0	100.0
0°-180°	28879.0	100.0

Coefficient of Utilization



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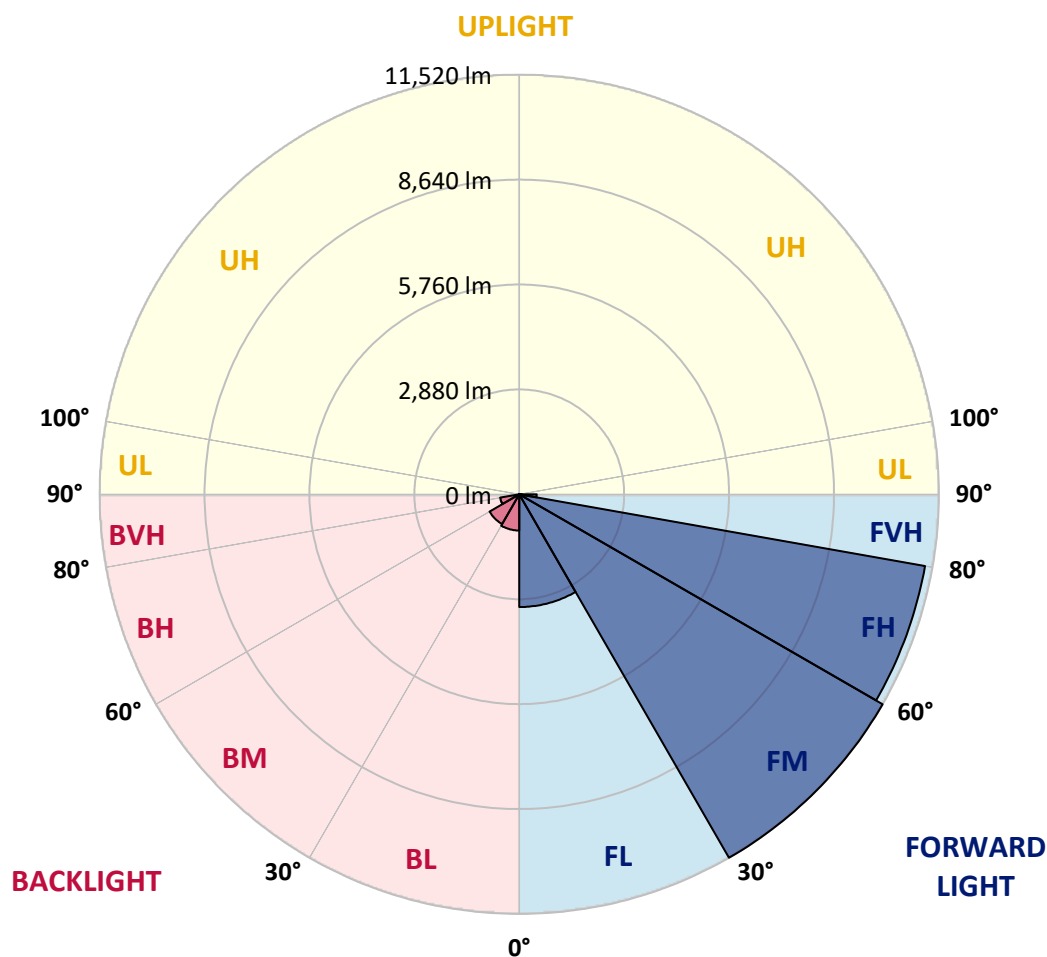
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3093.5	10.7			
FM	(30°-60°)	11520.3	39.9			
FH	(60°-80°)	11312.2	39.2			G4/12000
FVH	(80°-90°)	481.6	1.7			G3/500
BL	(0°-30°)	992.9	3.4	B2/1000		
BM	(30°-60°)	942.8	3.3	B1/1000		
BH	(60°-80°)	531.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	4.2	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7
2.5°	9238.0	9215.2	9206.8	9192.4	9137.1	9083.1	8976.2	8946.2	8879.0	8719.3	8549.9
5°	9245.2	9244.0	9269.2	9263.2	9244.0	9218.8	9141.9	9102.3	8988.2	8760.1	8450.3
7.5°	8799.7	8822.5	8879.0	8924.6	8977.4	9045.9	9055.5	9017.1	8923.4	8677.2	8266.5
10°	8201.7	8237.7	8317.0	8407.0	8545.1	8682.0	8804.5	8799.7	8767.3	8524.7	8045.6
12.5°	7602.5	7644.5	7735.8	7869.1	8064.8	8288.2	8506.7	8536.7	8590.8	8387.8	7841.4
15°	7077.7	7113.7	7203.8	7367.1	7609.7	7909.9	8230.5	8285.7	8425.0	8280.9	7670.9
17.5°	6632.2	6655.0	6721.1	6902.4	7183.4	7547.2	7963.9	8072.0	8279.7	8196.9	7523.2
20°	6321.2	6324.8	6368.0	6495.3	6776.3	7183.4	7687.7	7842.6	8126.0	8124.8	7370.7
22.5°	6167.5	6155.5	6163.9	6237.1	6443.7	6836.3	7411.5	7595.3	7987.9	8063.6	7215.8
25°	6138.7	6129.1	6105.0	6114.6	6239.5	6532.5	7132.9	7345.5	7866.7	8026.4	7081.3
27.5°	6228.7	6238.3	6197.5	6154.3	6163.9	6335.6	6885.6	7131.7	7768.2	8026.4	6986.4
30°	6410.0	6414.9	6384.8	6328.4	6252.7	6280.4	6713.9	6960.0	7719.0	8081.6	6926.4
32.5°	6610.6	6637.0	6633.4	6587.8	6479.7	6368.0	6673.0	6897.6	7715.4	8204.1	6920.4
35°	6859.2	6889.2	6939.6	6930.0	6817.1	6633.4	6812.3	6988.8	7786.2	8405.8	6985.2
37.5°	7123.3	7169.0	7277.0	7328.7	7255.4	7047.7	7124.5	7250.6	7975.9	8732.5	7149.8
40°	7379.1	7430.8	7627.7	7830.6	7775.4	7561.6	7597.7	7698.5	8313.4	9202.0	7462.0
42.5°	7630.1	7706.9	7996.3	8330.2	8396.2	8225.7	8244.9	8325.4	8814.1	9848.0	7972.3
45°	7930.3	8016.8	8445.5	8857.3	9033.9	8959.4	9041.1	9093.9	9468.6	10701.8	8660.4
47.5°	8371.0	8470.7	8996.6	9466.2	9776.0	9824.0	9988.5	10023.4	10295.9	11696.1	9557.4
50°	9230.8	9258.4	9734.0	10160.3	10607.0	10895.2	11082.5	11108.9	11297.4	12782.9	10677.8
52.5°	10312.8	10330.8	10599.8	10885.6	11393.5	11981.9	12420.2	12457.4	12497.1	13842.0	11783.8
55°	11387.5	11385.1	11562.8	11730.9	12312.1	13167.1	14118.2	14141.0	13856.4	14847.1	12629.2
57.5°	12058.8	12123.6	12393.8	12610.0	13421.7	14518.1	15837.8	15921.8	15284.2	15591.6	13464.9
60°	11845.0	11876.2	12475.5	13275.2	14803.9	16438.2	17577.8	17599.4	16357.8	16334.9	14521.7
62.5°	10091.8	10108.6	11050.1	12698.8	15504.0	18928.7	19676.9	19325.0	17592.2	17366.5	15786.2
65°	6916.8	7026.1	7812.6	9850.4	14217.9	20491.0	22926.3	22343.9	19473.9	18853.1	16929.3
67.5°	4073.2	4050.4	4439.5	5940.5	10442.4	19453.5	27036.8	26458.0	22040.1	19848.6	16594.3
70°	2782.3	2766.7	2915.6	3596.5	5894.9	15090.9	28330.1	29498.5	24306.1	19178.5	14281.5
72.5°	1986.2	1994.6	2214.3	2794.3	3701.0	8792.5	24362.5	27128.0	23596.4	16719.2	10855.5
75°	1348.5	1371.4	1686.0	2292.4	3244.7	4473.1	17288.4	20621.9	19214.5	12151.2	6239.5
77.5°	725.3	750.5	1121.6	1846.9	2933.6	3107.8	11120.9	14192.6	12069.6	5462.6	1808.5
80°	302.6	317.0	524.8	1342.5	2535.0	2729.5	6543.3	8606.4	5143.2	1077.1	403.5
82.5°	130.9	138.1	218.6	801.0	1894.9	2304.4	3464.4	4140.5	1558.7	236.6	202.9
85°	25.2	26.4	90.1	423.9	1209.2	1300.5	2245.6	2201.1	700.1	102.1	147.7
87.5°	0.0	0.0	21.6	133.3	355.4	708.5	1370.2	1353.3	237.8	49.2	55.2
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°	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7	8530.7
2.5°	8463.5	8380.6	8206.5	7991.5	7827.0	7645.7	7501.6	7319.1	7239.8	7243.4	7200.2
5°	8273.7	8103.2	7717.8	7231.4	6856.8	6470.1	6137.5	5806.0	5610.3	5546.6	5486.6
7.5°	8002.4	7732.2	7117.3	6368.0	5734.0	5114.3	4575.2	4100.8	3800.6	3654.1	3600.1
10°	7696.1	7316.7	6426.9	5439.8	4534.3	3696.2	2997.3	2389.7	2147.1	1982.6	1940.5
12.5°	7427.2	6913.2	5752.0	4487.5	3412.8	2401.7	1735.2	1356.9	1192.4	1127.6	1116.8
15°	7173.8	6536.1	5102.3	3625.3	2363.2	1478.2	1103.6	975.1	936.6	925.8	925.8
17.5°	6934.8	6177.1	4467.1	2776.3	1563.5	1036.3	913.8	885.0	873.0	871.8	873.0
20°	6685.0	5818.0	3842.7	2034.2	1091.6	877.8	844.2	828.6	825.0	825.0	825.0
22.5°	6446.1	5459.0	3235.0	1453.0	875.4	801.0	784.1	773.3	769.7	768.5	766.1
25°	6216.7	5118.0	2641.8	1026.7	768.5	733.7	719.3	704.9	694.1	688.1	684.5
27.5°	6028.2	4814.1	2089.4	823.8	694.1	664.1	646.0	624.4	598.0	586.0	581.2
30°	5878.1	4536.7	1610.3	695.3	624.4	594.4	566.8	529.6	491.1	470.7	469.5
32.5°	5760.4	4264.2	1222.4	614.8	562.0	524.8	485.1	438.3	393.9	371.1	369.9
35°	5702.8	4024.0	934.2	556.0	506.8	459.9	410.7	359.0	315.8	294.2	291.8
37.5°	5741.2	3821.1	728.9	506.8	459.9	405.9	348.2	294.2	255.8	236.6	235.4
40°	5881.7	3691.4	592.0	464.7	420.3	354.2	291.8	241.4	208.9	193.3	192.1
42.5°	6180.7	3643.3	505.6	429.9	381.9	306.2	242.6	199.3	169.3	158.5	156.1
45°	6680.2	3714.2	446.7	396.3	342.2	260.6	200.5	163.3	136.9	128.5	127.3
47.5°	7345.5	3900.3	404.7	363.9	306.2	219.8	166.9	132.1	111.7	103.3	102.1
50°	8202.9	4195.7	369.9	331.4	272.6	186.1	138.1	104.5	86.5	80.5	80.5
52.5°	9135.9	4547.6	338.6	301.4	239.0	154.9	111.7	80.5	68.4	61.2	61.2
55°	9906.9	4855.0	305.0	278.6	198.1	128.5	85.3	61.2	50.4	46.8	46.8
57.5°	10676.6	5182.8	266.6	239.0	158.5	104.5	64.8	45.6	37.2	34.8	34.8
60°	11674.5	5583.9	229.4	194.5	124.9	79.3	48.0	32.4	27.6	26.4	26.4
62.5°	12772.1	5819.2	195.7	156.1	97.3	58.8	34.8	21.6	20.4	20.4	19.2
65°	13443.3	5486.6	164.5	124.9	75.7	44.4	22.8	15.6	18.0	16.8	14.4
67.5°	12587.1	4295.4	134.5	97.3	58.8	33.6	14.4	10.8	19.2	15.6	12.0
70°	10422.0	3006.9	104.5	68.4	46.8	28.8	9.6	7.2	20.4	15.6	9.6
72.5°	7799.4	2012.6	82.9	45.6	34.8	25.2	8.4	3.6	18.0	13.2	8.4
75°	4261.8	810.6	66.0	28.8	21.6	18.0	6.0	2.4	12.0	9.6	6.0
77.5°	1121.6	213.7	48.0	19.2	12.0	7.2	3.6	1.2	6.0	4.8	2.4
80°	285.8	82.9	31.2	13.2	8.4	3.6	0.0	0.0	1.2	0.0	0.0
82.5°	152.5	34.8	19.2	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	115.3	22.8	10.8	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.4	7.2	3.6	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)