

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: P322062

Luminaire Tested: **GAN-SA8D-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32520 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 511
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

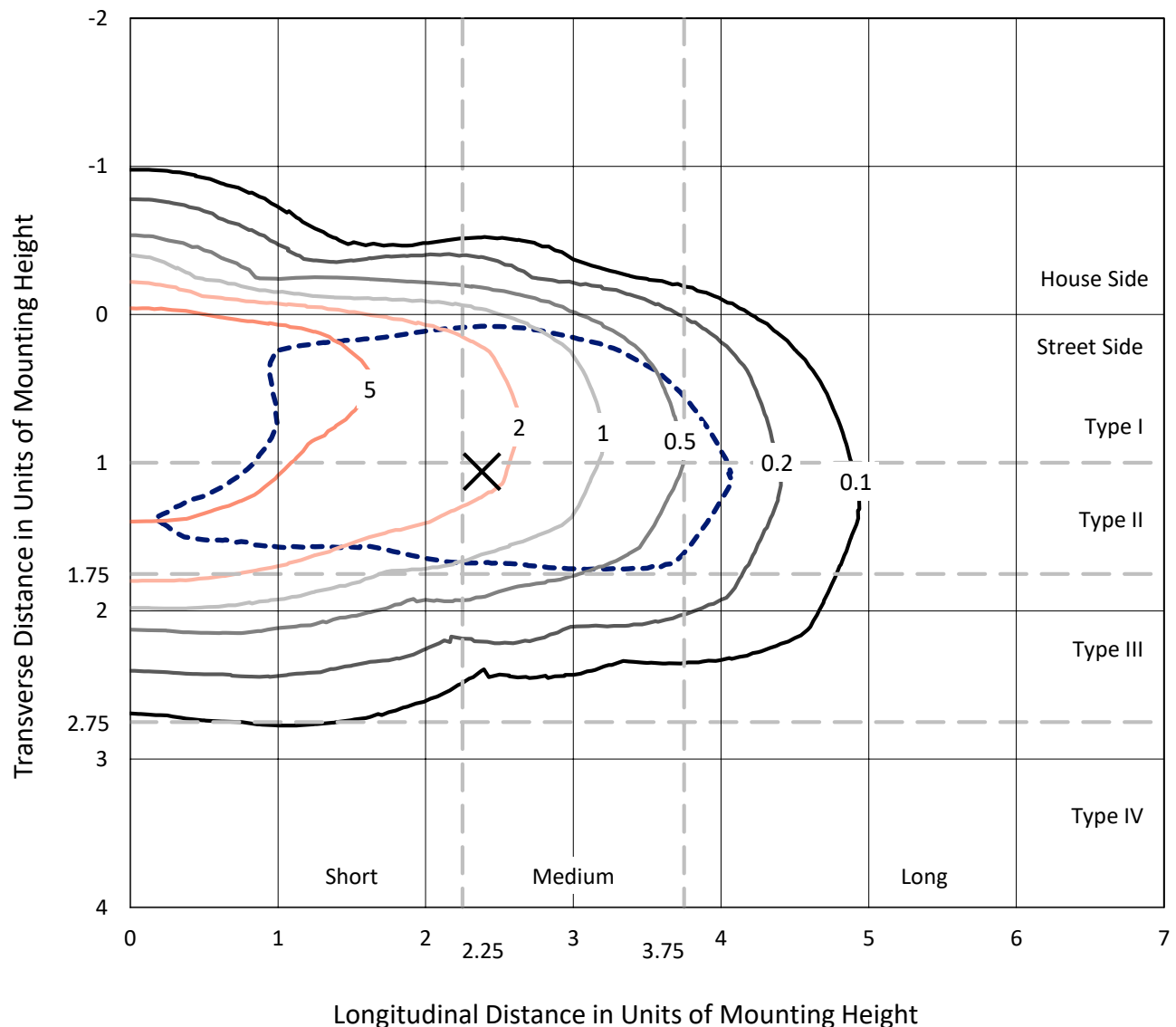


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Iso-Footcandle Lines of Horizontal Illumination

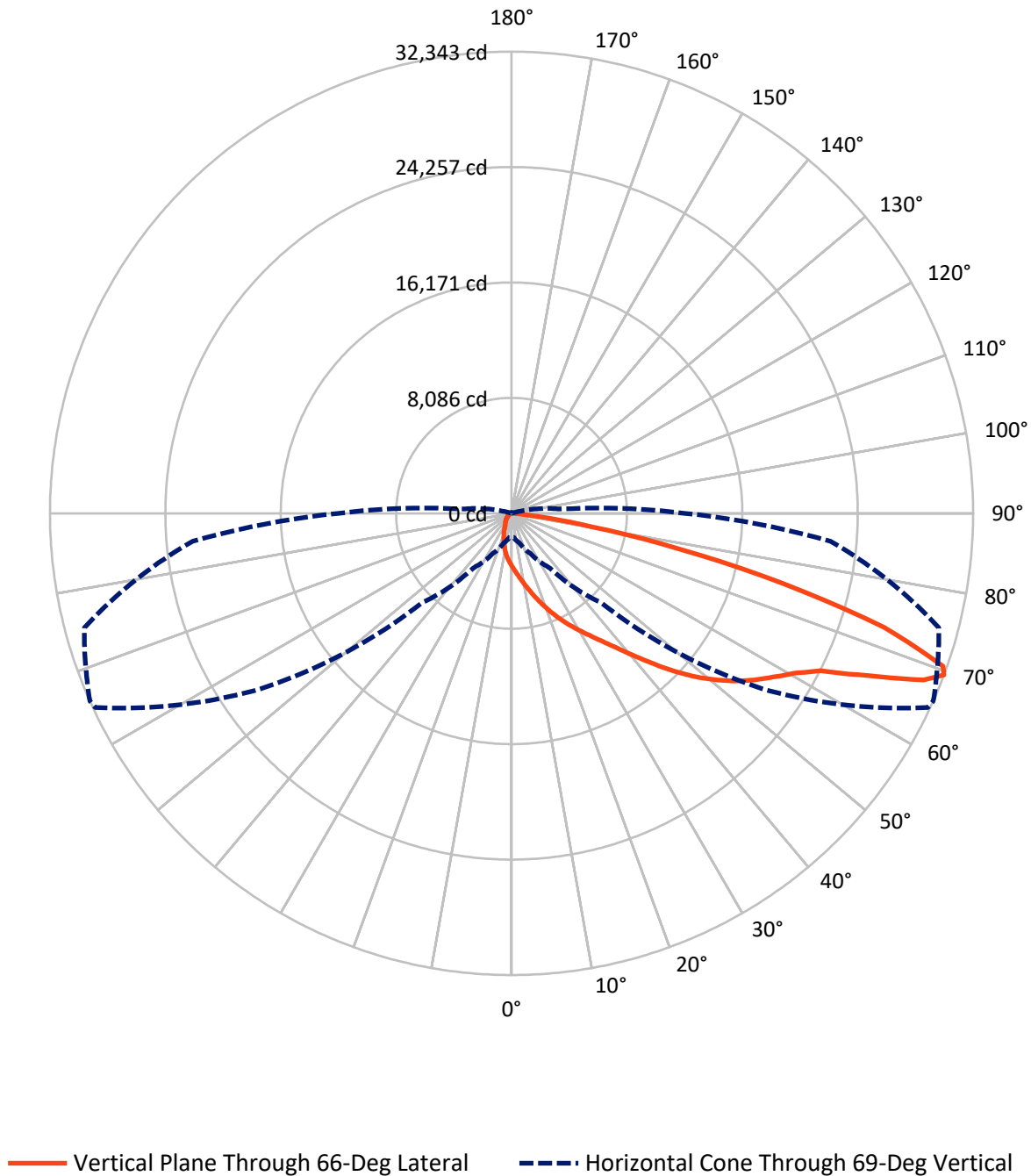
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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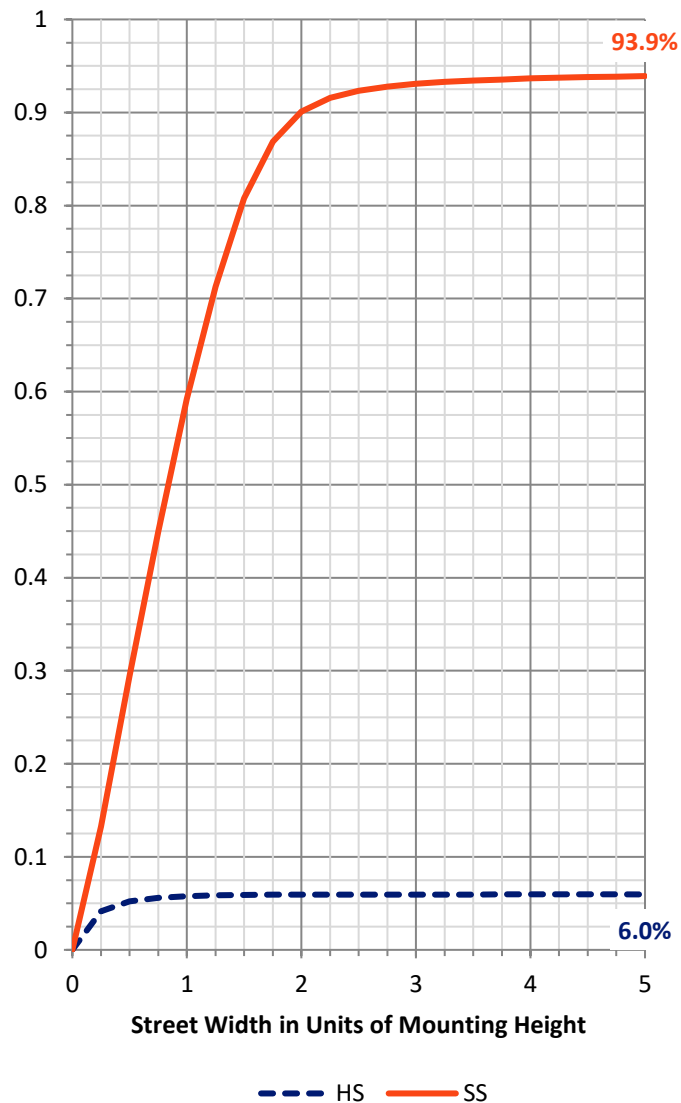
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1950.7	0.0	1950.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	30569.3	0.0	30569.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	32520.0	0.0	32520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.7	1.1
10°-20°	1064.7	3.3
20°-30°	1854.0	5.7
30°-40°	3252.9	10.0
40°-50°	5444.8	16.7
50°-60°	8003.4	24.6
60°-70°	8217.5	25.3
70°-80°	4056.7	12.5
80°-90°	268.2	0.8
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°	32520.0	100.0
0°-180°	32520.0	100.0

Coefficient of Utilization



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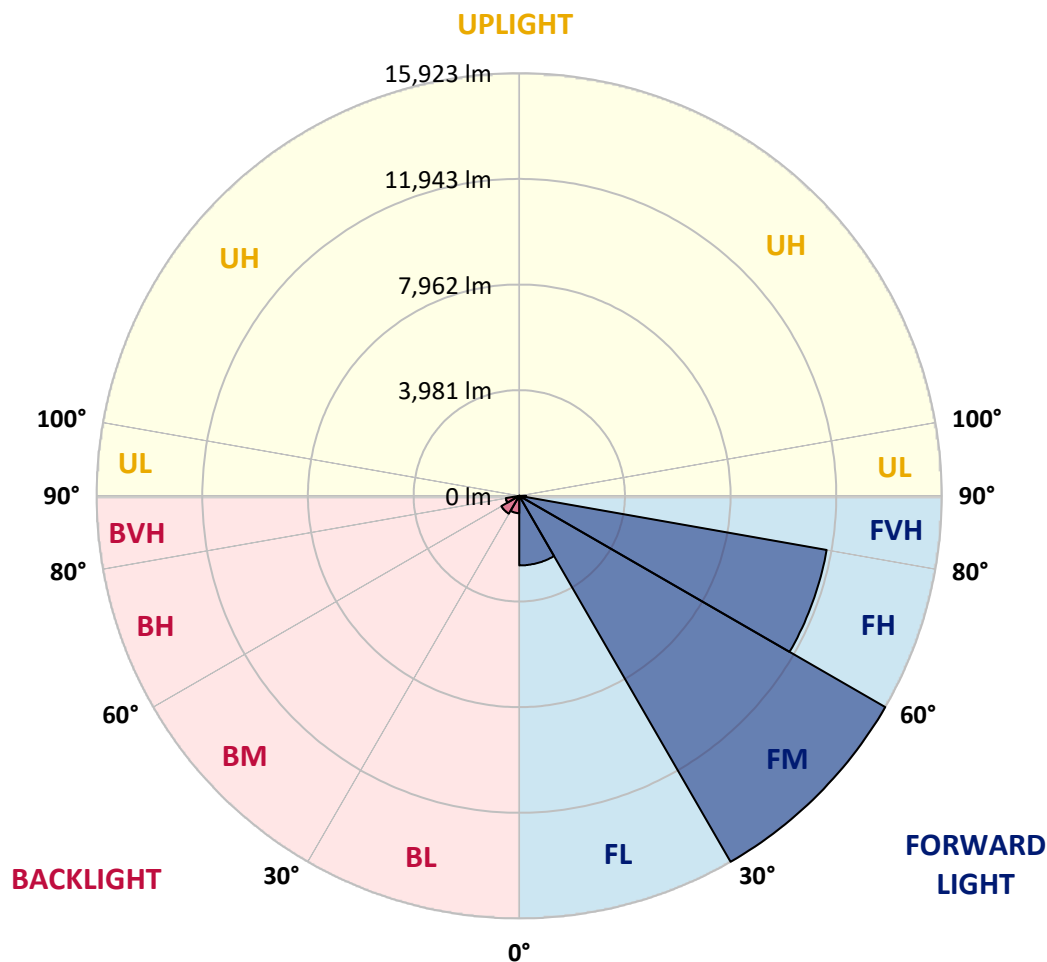
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2624.1	8.1			
FM	(30°-60°)	15923.3	49.0			
FH	(60°-80°)	11760.1	36.2			G4/12000
FVH	(80°-90°)	261.8	0.8			G3/500
BL	(0°-30°)	652.4	2.0	B2/1000		
BM	(30°-60°)	777.8	2.4	B1/1000		
BH	(60°-80°)	514.1	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9
2.5°	4355.8	4337.3	4329.5	4295.6	4236.9	4192.1	4105.6	4005.2	3986.6	3889.3	3770.4
5°	4921.1	4905.7	4894.9	4847.0	4786.7	4674.0	4516.4	4329.5	4294.0	4108.7	3870.8
7.5°	5315.0	5342.8	5342.8	5311.9	5236.2	5151.3	4958.2	4703.3	4658.5	4374.3	4005.2
10°	5545.1	5579.1	5605.4	5631.6	5620.8	5586.8	5404.6	5117.3	5063.2	4686.3	4161.2
12.5°	5566.8	5600.7	5674.9	5784.6	5891.1	5968.4	5854.1	5576.0	5514.3	5047.8	4346.5
15°	5446.3	5481.8	5596.1	5809.3	6067.2	6292.7	6329.8	6084.2	6020.9	5478.7	4578.2
17.5°	5236.2	5259.4	5423.1	5718.1	6122.8	6536.8	6760.7	6629.5	6570.8	5971.5	4836.2
20°	5080.2	5097.2	5240.9	5557.5	6088.8	6689.7	7168.5	7208.7	7146.9	6499.7	5115.7
22.5°	5347.4	5378.3	5383.0	5532.8	5996.2	6765.4	7526.9	7778.6	7732.3	7060.4	5390.7
25°	6078.0	6113.6	5996.2	5903.5	6074.9	6799.4	7834.3	8362.5	8325.4	7664.3	5667.2
27.5°	7043.4	7080.5	6929.1	6652.6	6487.4	6927.6	8107.6	8955.6	8954.1	8303.8	5965.3
30°	7991.8	8028.9	7874.4	7597.9	7218.0	7290.5	8344.0	9576.6	9585.8	8963.4	6281.9
32.5°	8986.5	9032.9	8873.8	8518.5	8121.5	7917.7	8676.1	10200.6	10253.1	9727.9	6638.7
35°	10117.2	10123.4	9899.4	9527.1	9069.9	8756.4	9209.0	10900.3	11025.4	10674.8	7091.3
37.5°	11226.2	11271.0	11087.2	10500.2	10080.1	9724.9	10001.3	11774.5	11952.2	11831.7	7682.9
40°	12047.9	12142.2	12115.9	11482.6	11084.1	10830.8	10985.3	12814.1	13039.6	13178.6	8428.9
42.5°	12563.8	12634.9	12755.4	12373.9	12012.4	12054.1	12146.8	14025.0	14303.1	14713.9	9286.2
45°	13155.4	13189.4	13289.8	13121.4	12877.4	13297.5	13379.4	15388.9	15680.9	16365.1	10237.7
47.5°	13878.3	13958.6	13986.4	13832.0	13720.8	14397.3	14567.2	16629.2	17038.6	18133.7	11244.7
50°	14798.9	14820.5	14868.4	14768.0	14656.8	15342.6	15633.0	17931.4	18303.6	19908.5	12237.9
52.5°	15699.4	15776.6	15943.4	15880.1	15835.3	16147.3	16582.9	19105.3	19520.8	21388.2	13229.6
55°	15958.9	16025.3	16601.4	16995.3	17359.8	17139.0	17491.1	20157.1	20606.6	22710.4	14184.1
57.5°	14922.5	15056.8	16054.7	17080.3	18592.4	18680.5	18739.2	21236.8	21640.0	23723.6	15177.3
60°	12302.8	12329.1	13966.3	15725.7	18388.6	20025.8	20561.8	22396.8	22735.1	24667.4	16366.7
62.5°	7825.0	8092.2	9888.6	12372.3	16232.3	19831.2	22766.0	24151.5	24275.1	25799.6	18071.9
65°	3727.1	3900.1	5194.5	7644.3	11757.6	17339.8	24287.4	27325.7	27381.3	28043.9	20350.2
67.5°	2063.6	2147.0	2763.3	4114.8	6873.5	12262.6	23672.7	31085.2	31137.7	30336.1	22348.9
69°	1614.1	1685.2	2170.2	3101.6	4660.1	8813.5	21422.2	32186.5	32342.5	30992.6	22420.0
70°	1370.1	1439.6	1869.0	2619.7	3747.2	6810.2	19068.2	31913.1	32078.4	30930.8	21890.2
72.5°	838.7	878.9	1245.0	1844.3	2511.5	3425.9	11759.1	26988.9	27268.5	28372.9	18813.3
75°	565.3	587.0	778.5	1272.8	1796.4	1763.9	6108.9	19023.4	19628.9	22070.9	13895.3
77.5°	404.7	424.8	522.1	823.3	1258.9	1164.6	2766.4	11822.4	11952.2	13237.3	7577.8
80°	230.1	248.7	369.2	489.6	854.2	776.9	1099.8	5647.1	5712.0	5676.4	2530.1
82.5°	120.5	135.9	202.3	322.8	548.3	508.2	457.2	1890.6	1899.9	1580.1	554.5
85°	23.2	27.8	100.4	220.9	282.7	220.9	186.9	443.3	452.6	400.1	137.5
87.5°	0.0	1.5	40.2	49.4	55.6	57.2	60.2	86.5	92.7	125.1	37.1
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°	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9	3700.9
2.5°	3717.9	3662.3	3555.7	3432.1	3336.4	3242.1	3168.0	3090.8	3063.0	3049.1	3047.5
5°	3754.9	3637.6	3412.0	3180.3	2990.4	2811.2	2683.0	2561.0	2503.8	2477.6	2466.7
7.5°	3816.7	3628.3	3265.3	2911.6	2638.2	2414.2	2236.6	2103.8	2037.3	2009.5	1998.7
10°	3889.3	3615.9	3093.8	2627.4	2278.3	2046.6	1870.5	1739.2	1666.6	1635.7	1620.3
12.5°	3974.3	3594.3	2896.1	2340.1	1970.9	1739.2	1526.1	1363.9	1280.5	1245.0	1228.0
15°	4079.3	3572.7	2689.2	2069.8	1700.6	1418.0	1184.7	1075.0	1058.1	1051.9	1053.4
17.5°	4182.8	3538.7	2463.6	1802.6	1416.4	1107.5	988.5	982.4	985.5	985.5	985.5
20°	4275.5	3461.5	2218.1	1574.0	1146.1	934.5	909.8	899.0	891.2	885.1	877.3
22.5°	4348.1	3358.0	1981.7	1346.9	936.0	855.7	817.1	783.1	755.3	736.8	727.5
25°	4397.5	3220.5	1765.5	1129.1	841.8	778.5	709.0	651.8	608.6	582.3	571.5
27.5°	4434.6	3072.2	1572.4	945.3	776.9	688.9	597.8	529.8	485.0	461.8	452.6
30°	4460.8	2903.9	1402.5	831.0	704.3	594.7	497.4	430.9	398.5	386.2	380.0
32.5°	4485.5	2717.0	1241.9	776.9	636.4	508.2	417.0	366.1	346.0	330.5	325.9
35°	4547.3	2544.0	1088.9	719.8	566.9	434.0	358.3	321.3	301.2	291.9	288.8
37.5°	4694.1	2415.8	942.2	661.1	497.4	375.3	313.6	287.3	268.8	259.5	256.4
40°	4930.4	2350.9	818.6	597.8	429.4	330.5	284.2	259.5	239.4	225.5	222.4
42.5°	5277.9	2360.2	732.1	534.4	375.3	295.0	256.4	227.1	205.4	193.1	190.0
45°	5699.6	2428.1	671.9	472.7	330.5	267.2	225.5	194.6	174.5	163.7	160.6
47.5°	6156.8	2537.8	622.5	417.0	295.0	241.0	194.6	162.2	145.2	135.9	134.4
50°	6638.7	2644.4	571.5	363.0	264.1	214.7	163.7	134.4	120.5	112.8	109.7
52.5°	7126.8	2767.9	525.2	313.6	237.9	183.8	135.9	109.7	98.9	92.7	89.6
55°	7652.0	2860.6	480.4	274.9	211.6	156.0	112.8	91.1	81.9	74.1	72.6
57.5°	8269.8	3004.3	434.0	237.9	180.7	129.7	92.7	72.6	64.9	57.2	55.6
60°	9103.9	3172.6	384.6	210.1	148.3	106.6	75.7	58.7	49.4	43.2	41.7
62.5°	10203.7	3359.5	322.8	183.8	120.5	86.5	60.2	46.3	35.5	27.8	27.8
65°	11598.5	3663.8	264.1	154.5	98.9	71.1	46.3	34.0	20.1	12.4	12.4
67.5°	12412.5	3716.3	213.2	126.7	80.3	60.2	38.6	23.2	6.2	1.5	0.0
69°	12151.4	3412.0	180.7	108.1	69.5	57.2	35.5	17.0	3.1	0.0	0.0
70°	11660.2	3120.1	159.1	95.8	63.3	54.1	34.0	12.4	3.1	0.0	0.0
72.5°	9635.3	2221.1	120.5	71.1	46.3	47.9	30.9	7.7	3.1	0.0	0.0
75°	7018.7	1350.0	86.5	49.4	29.3	35.5	21.6	3.1	1.5	0.0	0.0
77.5°	3904.8	636.4	54.1	27.8	18.5	21.6	10.8	0.0	0.0	0.0	0.0
80°	1268.1	173.0	24.7	15.4	10.8	12.4	4.6	0.0	0.0	0.0	0.0
82.5°	234.8	49.4	13.9	7.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	51.0	20.1	7.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	6.2	1.5	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)