

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: P322702

Luminaire Tested: **GAN-SA8D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32463 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

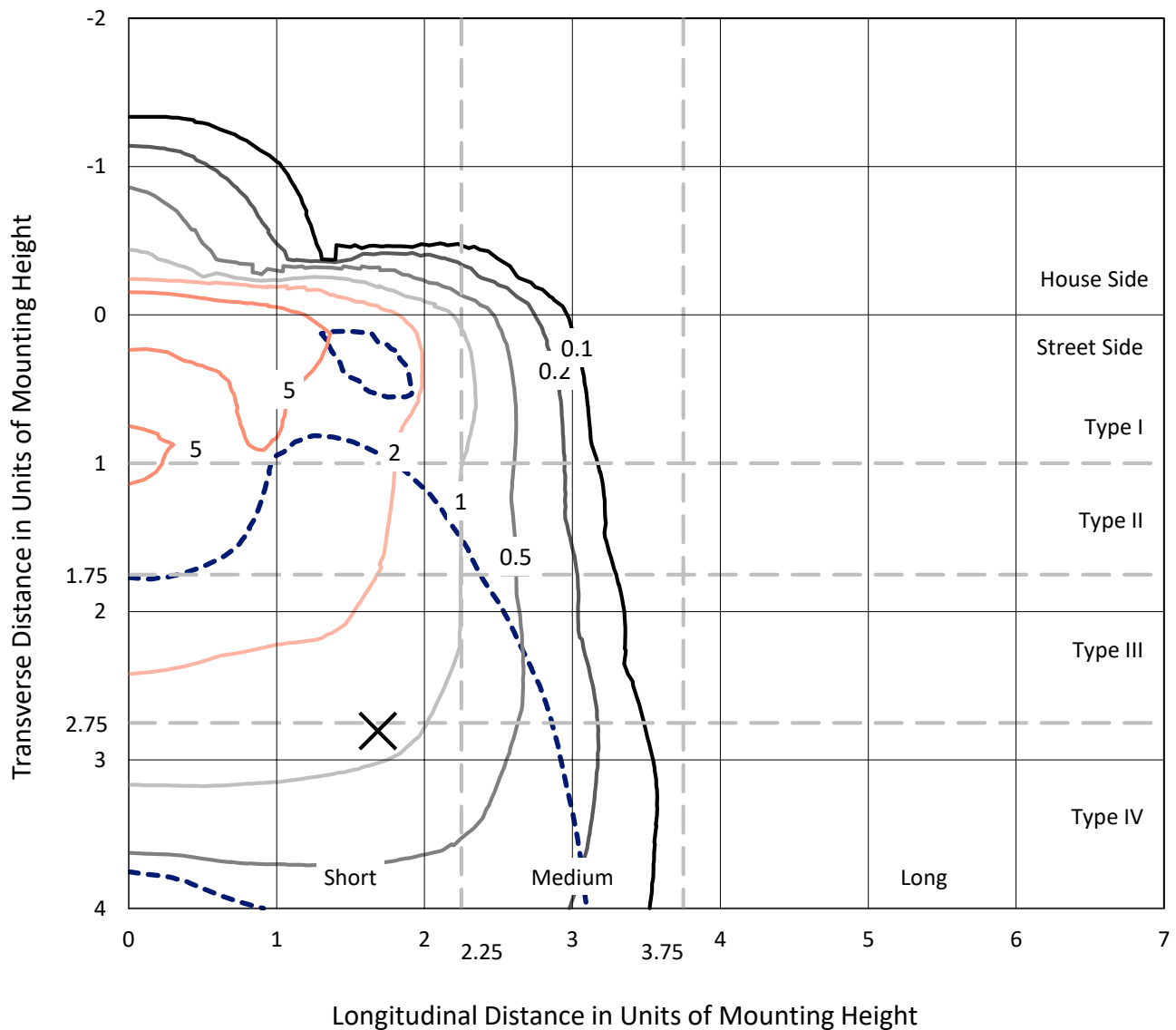
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

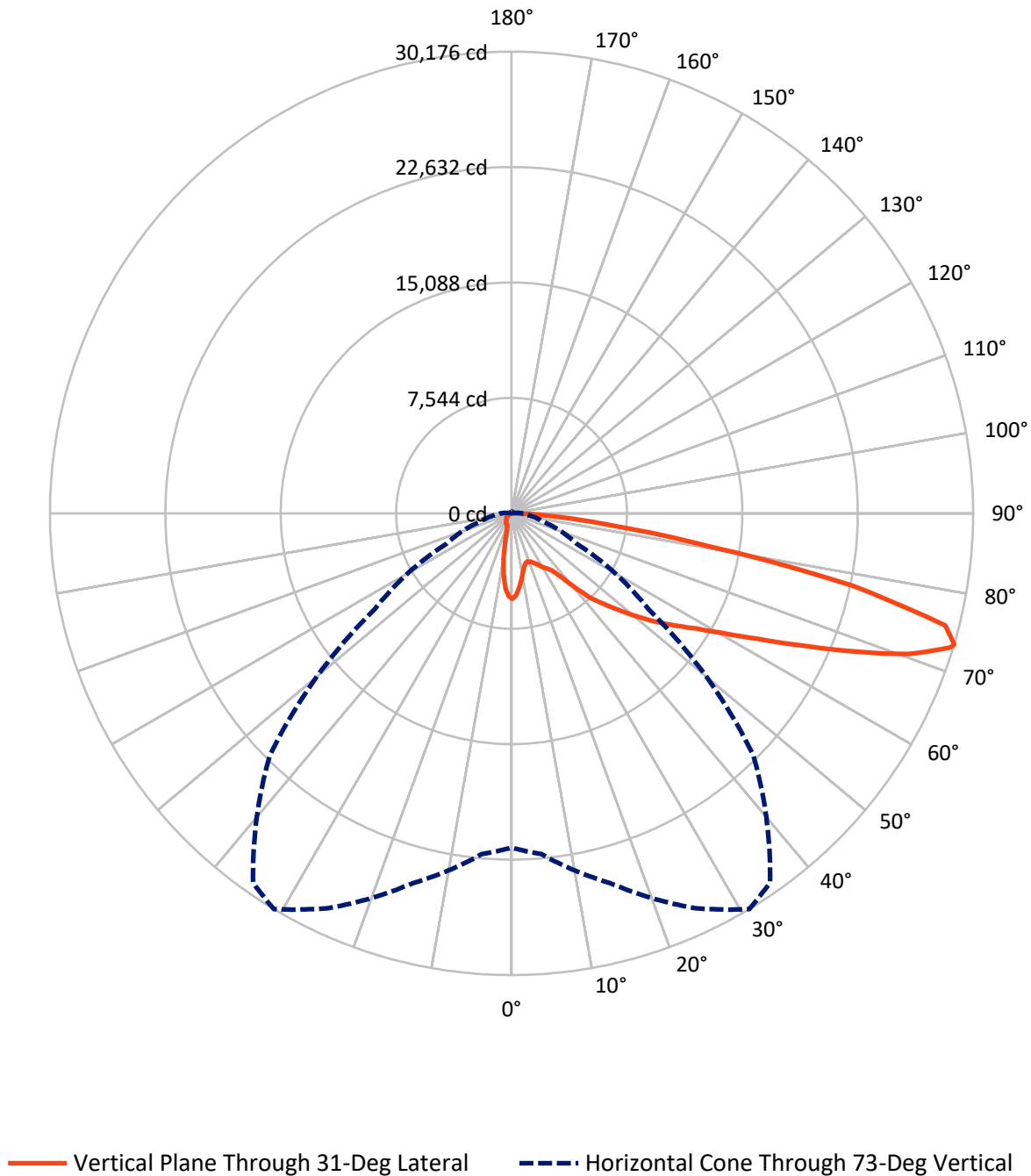
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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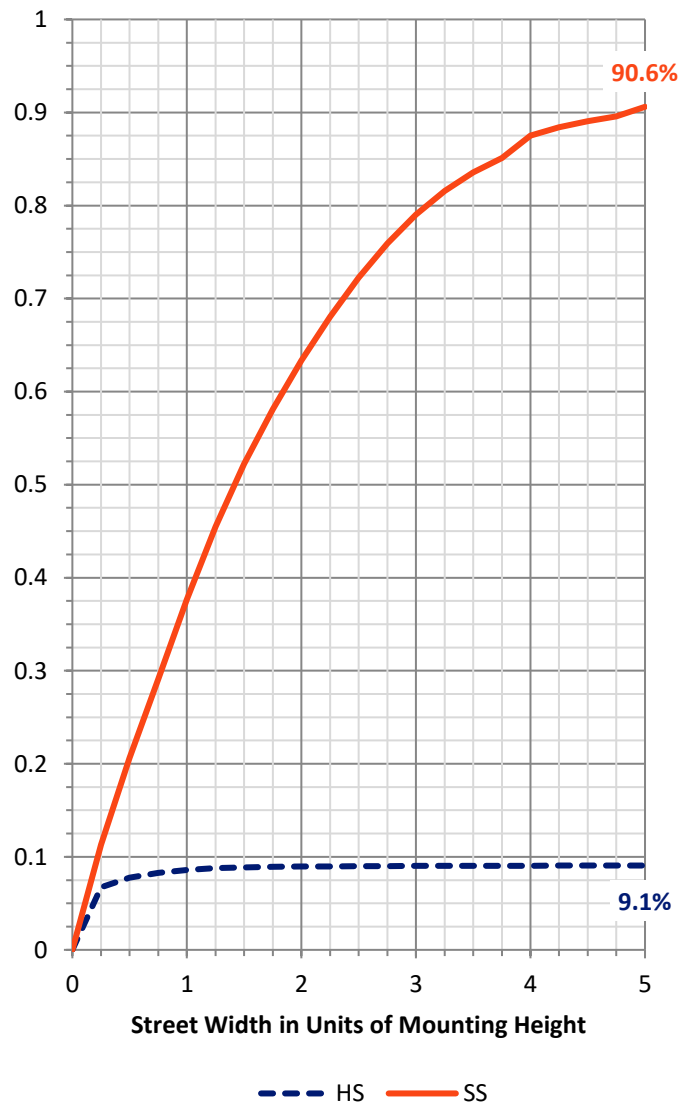
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2959.1	0.0	2959.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	29503.9	0.0	29503.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	32463.0	0.0	32463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	1.4
10°-20°	1005.5	3.1
20°-30°	1506.6	4.6
30°-40°	2397.0	7.4
40°-50°	4280.3	13.2
50°-60°	6641.8	20.5
60°-70°	8829.4	27.2
70°-80°	6641.5	20.5
80°-90°	697.9	2.1
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°	32463.0	100.0
0°-180°	32463.0	100.0

Coefficient of Utilization



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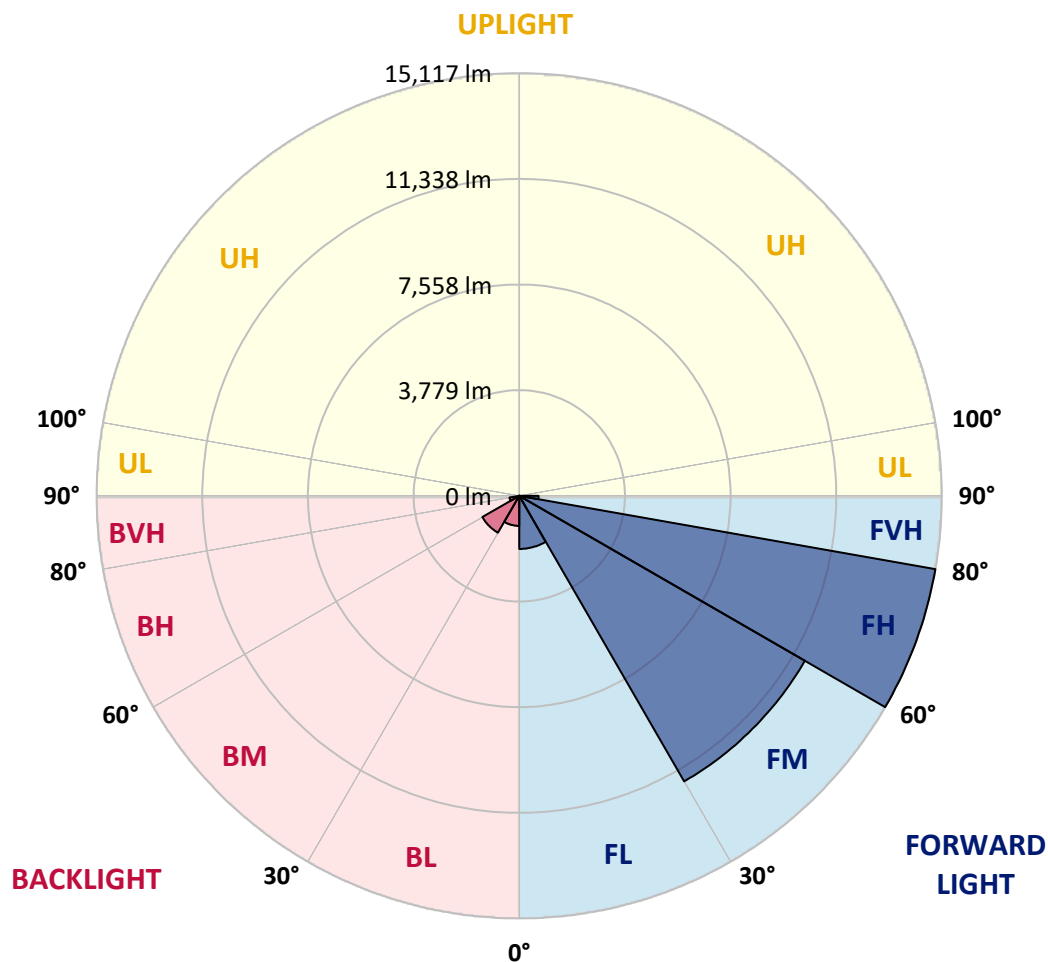
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1899.1	5.9			
FM	(30°-60°)	11795.9	36.3			
FH	(60°-80°)	15116.8	46.6			G5
FVH	(80°-90°)	692.0	2.1			G4/750
BL	(0°-30°)	1076.1	3.3	B3/2500		
BM	(30°-60°)	1523.1	4.7	B2/2500		
BH	(60°-80°)	354.0	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3
2.5°	5293.0	5315.3	5339.1	5343.9	5383.6	5385.2	5442.4	5485.2	5528.1	5569.4	5583.7
5°	4749.8	4786.3	4829.2	4872.1	4956.3	4989.6	5129.4	5272.4	5409.0	5539.3	5602.8
7.5°	4169.9	4211.2	4271.6	4378.0	4471.8	4536.9	4757.7	5011.9	5266.0	5505.9	5644.1
10°	3640.9	3679.1	3742.6	3855.4	4000.0	4088.9	4386.0	4738.6	5111.9	5475.7	5706.1
12.5°	3304.2	3324.8	3359.8	3480.5	3610.8	3710.8	4060.3	4497.2	4984.9	5474.1	5806.1
15°	3242.2	3248.6	3220.0	3274.0	3375.7	3472.6	3826.8	4301.8	4888.0	5499.5	5936.4
17.5°	3340.7	3337.5	3242.2	3235.9	3316.9	3396.3	3712.4	4166.8	4819.6	5558.3	6104.8
20°	3490.0	3478.9	3313.7	3283.5	3369.3	3444.0	3704.5	4115.9	4794.2	5656.8	6309.7
22.5°	3688.6	3669.5	3410.6	3378.8	3471.0	3548.8	3803.0	4165.2	4816.5	5788.7	6548.0
25°	3934.8	3906.2	3577.4	3542.5	3636.2	3714.0	3979.3	4306.5	4883.2	5949.1	6849.8
27.5°	4212.8	4171.5	3844.3	3753.7	3860.2	3941.2	4214.4	4522.6	4988.0	6119.1	7219.9
30°	4474.9	4420.9	4125.5	3976.1	4106.4	4196.9	4468.6	4779.9	5156.4	6381.2	7726.7
32.5°	4738.6	4678.3	4376.4	4198.5	4316.1	4414.6	4730.7	5134.2	5472.5	6781.5	8400.2
35°	5345.5	5281.9	4911.8	4617.9	4616.3	4671.9	5097.6	5618.7	5890.3	7339.1	9204.0
37.5°	6366.9	6330.4	5977.7	5420.1	5270.8	5208.8	5598.0	6196.9	6490.8	8106.3	10111.1
40°	7485.2	7453.5	7057.9	6552.7	6325.6	6173.1	6316.1	7002.3	7339.1	9043.6	11037.2
42.5°	8748.1	8597.2	7891.9	7741.0	7537.6	7421.7	7293.0	7995.1	8381.2	10063.4	11955.4
45°	9895.0	9640.9	8725.9	8497.1	8451.1	8479.7	8551.1	9329.5	9553.5	11275.5	12870.4
47.5°	10578.1	10378.0	9675.8	9456.6	9443.9	9632.9	10173.0	10837.1	10721.1	12331.9	13675.8
50°	11227.8	11046.7	10463.7	10517.8	10576.5	10833.9	12014.2	12387.5	11787.0	13289.8	14414.5
52.5°	11753.6	11477.2	11172.2	11475.7	11764.8	12179.4	13914.1	13779.0	12543.2	14052.3	15046.7
55°	12057.1	11931.6	12079.3	12384.3	12927.6	13601.1	15707.5	14937.1	13096.0	14748.1	15467.7
57.5°	13169.0	12922.8	13216.7	13480.4	14188.9	15130.9	17243.7	15799.7	13494.7	15178.6	15564.6
60°	14514.5	14316.0	14489.1	14927.6	15883.9	16991.1	18679.7	16503.4	13702.8	15455.0	15313.6
62.5°	16655.9	16393.8	16285.8	16776.6	18044.3	19253.2	19769.4	16991.1	13656.7	15332.6	14452.6
65°	19524.8	19253.2	18770.3	19215.0	20827.4	21680.5	20987.9	17094.3	13339.0	14343.0	12276.3
67.5°	22463.6	22266.6	21853.6	22603.4	24058.5	24333.3	22276.2	16843.3	12316.0	11629.7	8673.5
70°	24404.8	24320.6	24589.1	26247.5	27545.4	27466.0	23458.1	15494.7	9599.6	7151.6	4290.7
72.5°	23005.3	23408.8	25391.3	28398.4	29983.8	29335.7	22851.2	11898.2	5486.8	2751.4	1240.7
73°	21845.7	22362.0	25030.7	28479.4	30176.0	29465.9	22341.3	10921.2	4676.7	2171.5	940.4
75°	15197.6	15831.4	20722.6	26523.9	29276.9	28074.4	18622.5	6684.6	2166.8	962.7	379.7
77.5°	7378.8	7847.4	11410.5	19164.2	22768.6	21934.6	11593.2	2490.8	978.5	602.1	174.7
80°	2754.5	3062.7	4953.1	9753.7	13157.9	13502.6	5099.2	942.0	651.3	484.5	89.0
82.5°	721.2	803.8	1826.8	4349.4	6743.4	7057.9	1607.6	475.0	476.6	398.7	54.0
85°	230.3	263.7	570.3	1952.3	3177.1	2789.5	419.4	230.3	346.3	297.1	30.2
87.5°	28.6	36.5	181.1	459.1	700.5	389.2	65.1	68.3	147.7	165.2	17.5
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°	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3	5585.3
2.5°	5598.0	5590.1	5591.7	5550.4	5523.4	5469.4	5413.8	5388.3	5361.3	5350.2	5361.3
5°	5626.6	5612.3	5571.0	5443.9	5308.9	5134.2	4970.6	4846.7	4691.0	4648.1	4692.6
7.5°	5671.1	5642.5	5521.8	5262.9	4962.6	4629.0	4254.1	3980.9	3756.9	3612.4	3664.8
10°	5736.2	5682.2	5439.2	4999.2	4462.2	3871.3	3339.1	2924.5	2630.6	2509.9	2505.1
12.5°	5845.8	5744.2	5337.5	4656.0	3850.6	3062.7	2365.3	1915.8	1677.5	1523.4	1520.2
15°	5966.6	5817.3	5208.8	4244.6	3139.0	2193.8	1523.4	1181.9	1027.8	978.5	972.2
17.5°	6114.3	5901.4	5042.0	3737.8	2393.9	1453.5	994.4	895.9	889.6	884.8	884.8
20°	6300.2	6001.5	4827.6	3158.0	1698.2	970.6	845.1	851.5	854.6	848.3	849.9
22.5°	6516.2	6103.2	4571.8	2535.3	1148.5	811.7	808.6	816.5	819.7	816.5	818.1
25°	6767.2	6220.7	4260.5	1882.4	829.2	770.4	778.4	789.5	797.4	797.4	797.4
27.5°	7078.6	6363.7	3885.6	1313.7	716.4	727.6	749.8	770.4	781.6	784.7	784.7
30°	7483.6	6541.6	3436.0	900.7	651.3	670.4	711.7	751.4	772.0	775.2	776.8
32.5°	7995.1	6741.8	2915.0	665.6	595.7	610.0	654.5	721.2	760.9	767.3	767.3
35°	8581.3	6973.7	2354.2	579.8	556.0	560.8	595.7	672.0	741.9	759.3	760.9
37.5°	9223.1	7202.5	1790.3	541.7	522.6	522.6	548.0	613.2	695.8	749.8	756.1
40°	9822.0	7340.7	1255.0	511.5	492.4	492.4	514.7	562.3	640.2	721.2	738.7
42.5°	10374.8	7388.3	873.7	482.9	463.9	468.6	487.7	525.8	584.6	665.6	681.5
45°	10943.5	7380.4	637.0	449.6	435.3	449.6	463.9	492.4	535.3	581.4	584.6
47.5°	11372.4	7313.7	505.2	417.8	408.3	427.3	440.0	459.1	482.9	479.7	479.7
50°	11774.3	7151.6	406.7	374.9	381.3	403.5	409.8	416.2	417.8	387.6	384.4
52.5°	12079.3	6899.1	325.7	328.8	354.2	376.5	370.1	360.6	344.7	308.2	301.8
55°	12181.0	6413.0	255.8	271.6	314.5	343.1	319.3	298.6	268.5	238.3	231.9
57.5°	11996.7	5785.5	208.1	211.3	265.3	289.1	262.1	238.3	204.9	179.5	174.7
60°	11605.9	5088.1	171.6	158.9	204.9	225.6	208.1	184.3	154.1	135.0	133.4
62.5°	10830.7	4344.7	141.4	123.9	155.7	173.2	162.0	144.6	119.1	106.4	104.8
65°	9200.9	3475.7	114.4	100.1	120.7	135.0	125.5	112.8	93.7	84.2	82.6
67.5°	6422.5	2349.5	93.7	82.6	95.3	106.4	98.5	92.1	74.7	73.1	74.7
70°	3097.7	1132.6	77.8	66.7	74.7	82.6	79.4	74.7	71.5	82.6	95.3
72.5°	888.0	379.7	62.0	55.6	60.4	65.1	68.3	66.7	77.8	100.1	116.0
73°	683.1	306.6	58.8	52.4	57.2	63.5	66.7	65.1	79.4	101.7	116.0
75°	292.3	147.7	44.5	42.9	47.7	55.6	58.8	58.8	79.4	103.3	111.2
77.5°	131.8	79.4	28.6	33.4	41.3	44.5	49.2	49.2	63.5	79.4	79.4
80°	74.7	42.9	22.2	25.4	30.2	30.2	30.2	27.0	28.6	31.8	34.9
82.5°	47.7	28.6	17.5	20.7	19.1	15.9	12.7	12.7	11.1	12.7	15.9
85°	27.0	15.9	15.9	12.7	7.9	6.4	7.9	6.4	1.6	0.0	1.6
87.5°	15.9	9.5	4.8	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)