

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: P321539

Luminaire Tested: **GAN-SA5D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24941 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

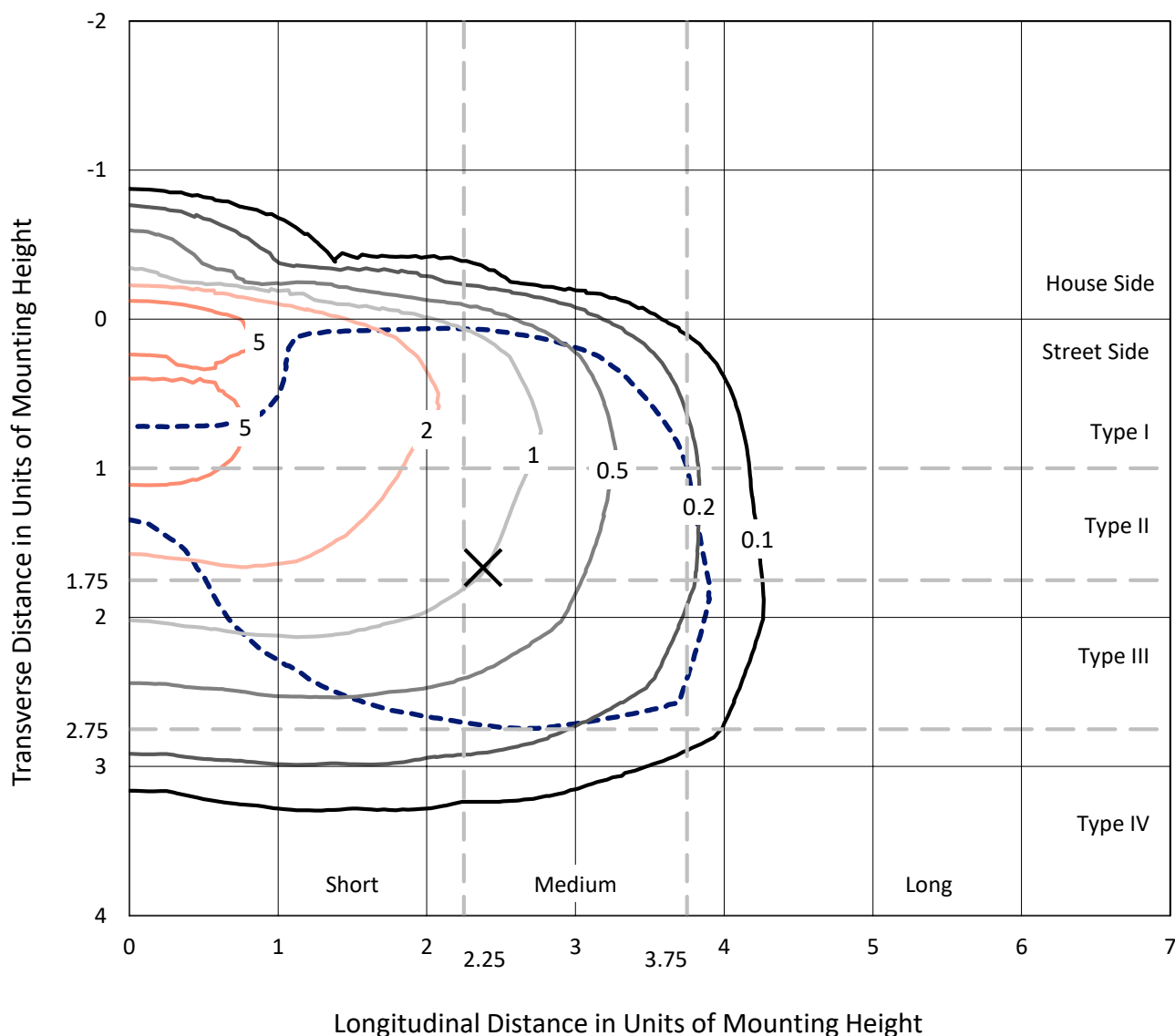
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

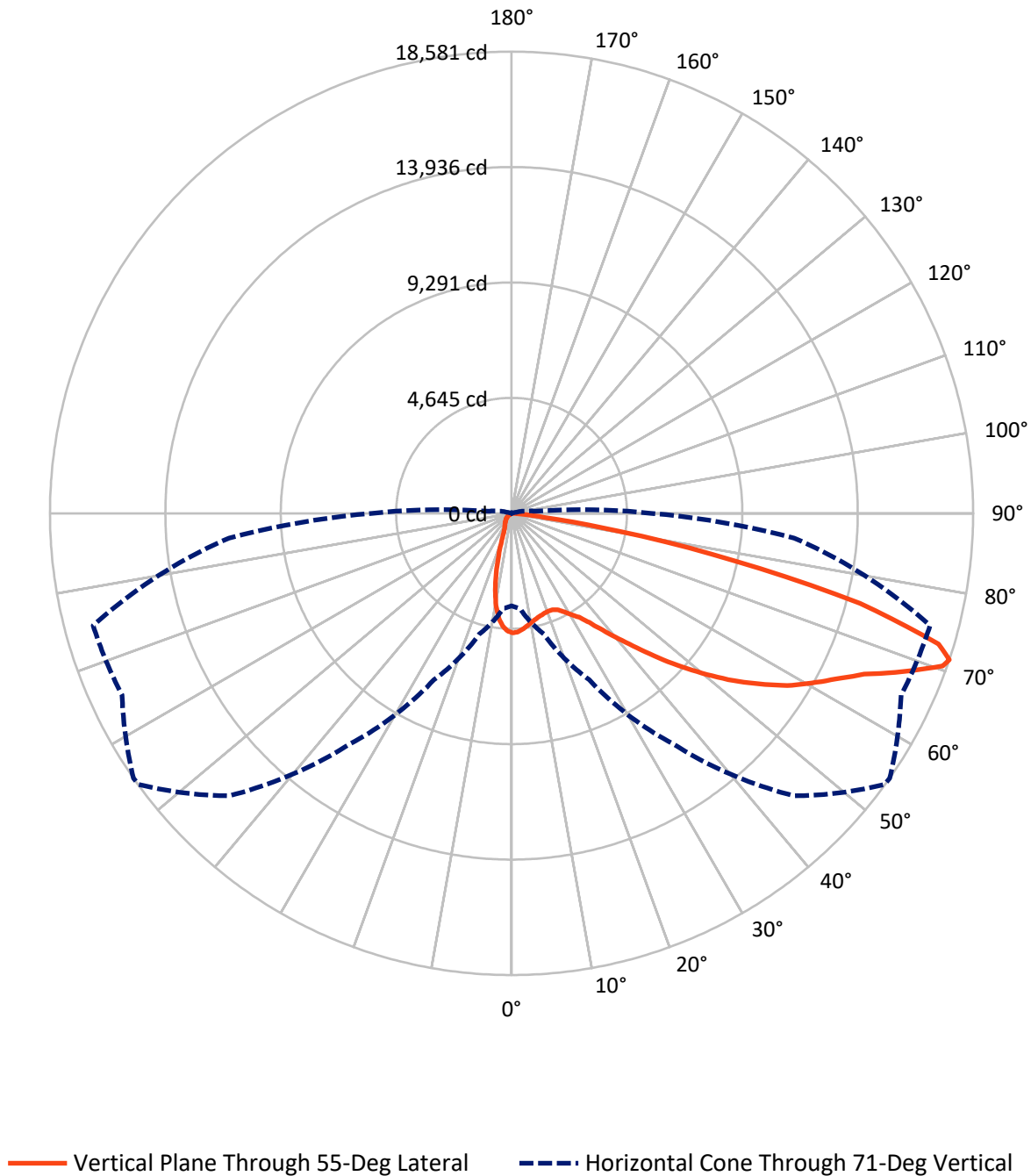
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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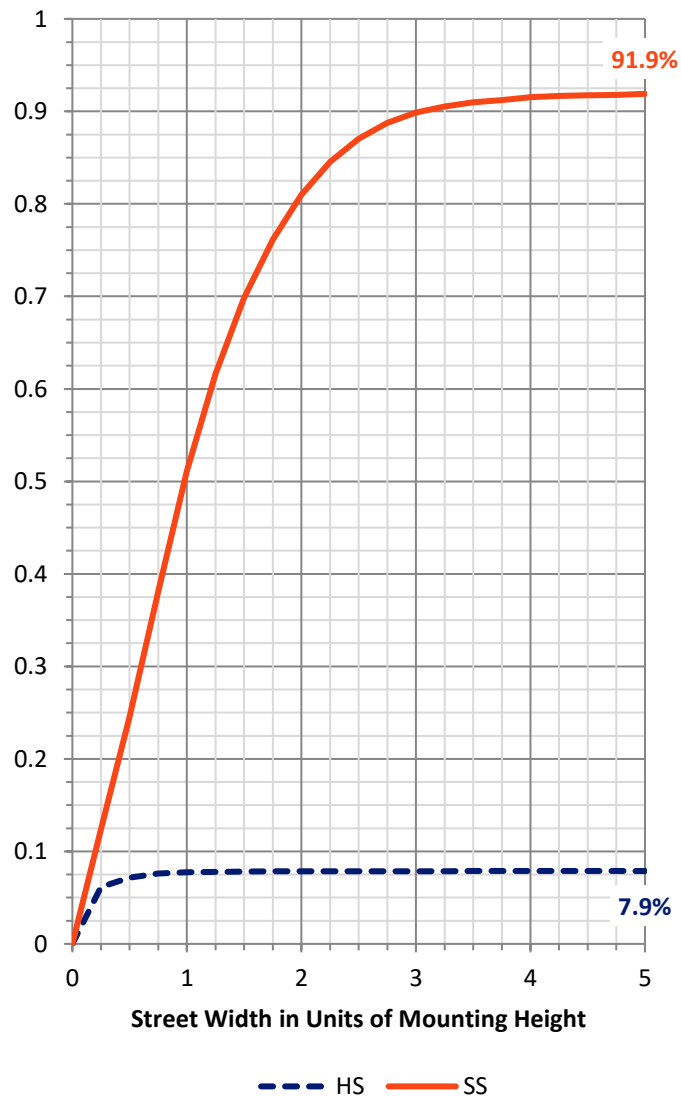
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.6	0.0	1974.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	22966.4	0.0	22966.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	24941.0	0.0	24941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	1.6
10°-20°	925.9	3.7
20°-30°	1487.9	6.0
30°-40°	2528.0	10.1
40°-50°	3923.8	15.7
50°-60°	5275.4	21.2
60°-70°	6453.6	25.9
70°-80°	3773.3	15.1
80°-90°	163.1	0.7
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°	24941.0	100.0
0°-180°	24941.0	100.0

Coefficient of Utilization



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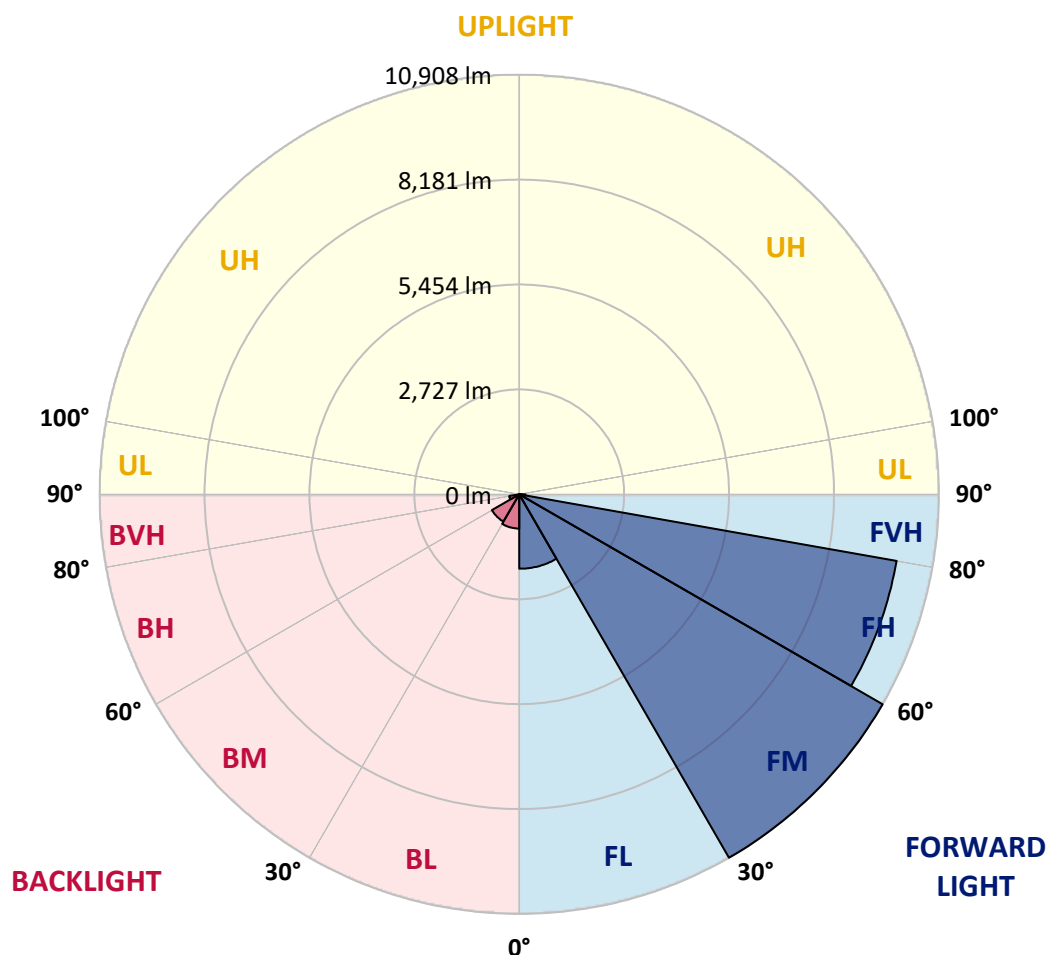
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1935.1	7.8			
FM	(30°-60°)	10908.5	43.7			
FH	(60°-80°)	9962.3	39.9			G4/12000
FVH	(80°-90°)	160.5	0.6			G2/225
BL	(0°-30°)	888.8	3.6	B2/1000		
BM	(30°-60°)	818.7	3.3	B1/1000		
BH	(60°-80°)	264.6	1.1	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	54°	55°	65°	75°	85°
0°	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0
2.5°	4668.9	4674.5	4694.6	4703.6	4724.8	4760.7	4778.6	4779.7	4808.8	4820.0	4829.0
5°	4338.5	4372.1	4405.7	4441.5	4506.5	4592.7	4677.8	4685.7	4779.7	4849.2	4886.1
7.5°	4054.0	4084.3	4124.6	4181.7	4273.5	4409.0	4551.3	4568.1	4746.1	4904.0	4986.9
10°	3761.7	3786.4	3844.6	3928.6	4055.2	4236.6	4428.1	4456.1	4715.9	4977.9	5123.5
12.5°	3449.3	3463.8	3534.4	3655.3	3841.2	4071.9	4323.9	4360.9	4696.9	5063.1	5284.8
15°	3211.9	3218.6	3285.8	3411.2	3624.0	3924.1	4243.3	4288.1	4701.3	5165.0	5460.6
17.5°	3151.4	3154.8	3190.6	3276.8	3465.0	3792.0	4179.5	4234.3	4714.8	5264.6	5637.6
20°	3396.7	3373.1	3336.2	3322.7	3403.4	3712.5	4141.4	4203.0	4732.7	5353.1	5796.6
22.5°	4069.7	4000.3	3846.8	3641.9	3517.6	3718.1	4151.5	4213.1	4789.8	5461.7	5980.3
25°	5068.7	4972.3	4711.4	4308.2	3920.8	3879.3	4235.5	4298.2	4900.7	5591.7	6156.1
27.5°	6205.4	6110.2	5791.0	5215.4	4554.6	4198.5	4428.1	4486.3	5065.3	5707.0	6290.5
30°	7293.9	7267.0	6890.7	6236.7	5352.0	4715.9	4676.7	4726.0	5187.4	5776.4	6396.9
32.5°	8216.7	8174.1	7871.8	7235.7	6264.7	5337.4	4969.0	4983.5	5279.2	5866.0	6535.7
35°	9072.3	9019.7	8754.2	8152.9	7200.9	6096.7	5419.2	5397.9	5479.7	6046.3	6737.3
37.5°	9819.3	9867.4	9572.9	9000.6	8040.9	6886.3	6026.2	5962.3	5793.2	6339.7	7029.6
40°	10444.2	10444.2	10290.7	9813.7	8948.0	7702.7	6712.7	6628.7	6264.7	6792.2	7400.3
42.5°	10669.3	10717.4	10774.5	10504.6	9759.9	8551.5	7477.6	7390.2	6928.8	7433.9	7868.4
45°	10682.7	10758.9	11051.2	11050.0	10493.4	9394.8	8339.9	8298.4	7779.9	8258.1	8448.5
47.5°	10493.4	10588.6	11070.2	11343.4	11074.7	10179.9	9282.8	9231.3	8780.0	9268.3	9055.5
50°	10201.1	10306.4	10866.4	11458.8	11470.0	10863.0	10276.2	10198.9	9880.9	10422.9	9682.6
52.5°	9678.2	9882.0	10683.8	11485.7	11729.8	11453.2	11221.4	11187.8	11112.7	11534.9	10182.1
55°	8559.4	8785.6	10225.8	11494.6	11970.6	11976.2	12107.2	12116.2	12267.4	12574.2	10553.9
57.5°	8030.8	8158.5	9426.2	11537.2	12327.8	12569.7	13009.9	13079.3	13313.3	13560.8	10978.4
60°	7698.2	7849.4	9032.0	11479.0	12888.9	13348.1	13846.4	13869.9	14120.8	14578.8	11552.9
62.5°	7432.8	7581.7	8783.4	11255.0	13519.4	14284.3	14663.9	14666.2	14854.3	15791.7	12205.8
65°	6777.6	6903.1	8280.5	11003.0	13936.0	15210.5	15613.6	15599.1	15752.5	17070.6	12963.9
67.5°	5830.2	5926.5	7253.6	10047.7	13779.2	16052.6	17047.1	16998.9	16813.0	18175.9	13261.8
70°	4507.6	4542.3	5717.1	8373.5	12309.9	16376.3	18432.4	18407.8	17463.7	17977.7	12169.9
71°	3725.9	3840.1	5038.4	7390.2	11325.5	16077.3	18566.8	18581.3	17300.2	17437.9	11418.5
72.5°	2163.6	2261.1	3652.0	5675.6	9615.4	14829.7	17870.2	17975.5	16536.4	15861.1	9753.2
75°	463.6	496.1	1354.0	2747.1	5289.3	10393.8	14105.1	14480.3	13478.0	10790.2	5878.3
77.5°	322.5	348.3	580.1	1246.4	1748.2	5135.9	8762.1	9185.4	8052.1	4055.2	1881.4
80°	255.3	284.5	452.4	615.9	472.6	1656.3	4104.4	4363.1	2685.5	904.9	316.9
82.5°	142.2	169.1	352.8	332.6	181.4	314.7	1149.0	1299.1	537.6	182.5	75.0
85°	41.4	50.4	227.3	241.9	77.3	60.5	196.0	243.0	101.9	48.2	33.6
87.5°	0.0	0.0	109.7	93.0	22.4	9.0	17.9	20.2	20.2	20.2	22.4
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°	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0	4810.0
2.5°	4829.0	4836.8	4808.8	4771.9	4732.7	4684.5	4634.1	4594.9	4593.8	4574.8	4555.7
5°	4888.4	4883.9	4806.6	4689.0	4550.1	4405.7	4267.9	4112.3	4060.7	3996.9	3975.6
7.5°	4998.1	4966.7	4803.2	4545.7	4241.1	3938.7	3626.2	3311.5	3177.2	3056.2	3034.9
10°	5135.9	5076.5	4782.0	4330.6	3771.8	3214.1	2742.6	2314.8	2126.7	1982.2	1975.5
12.5°	5279.2	5188.5	4722.6	4005.9	3157.0	2373.1	1829.9	1408.8	1252.0	1151.3	1160.2
15°	5429.3	5293.8	4594.9	3568.0	2457.1	1610.4	1124.4	876.9	814.2	788.4	795.1
17.5°	5582.7	5366.6	4416.9	3040.5	1766.1	1039.3	778.3	708.9	708.9	714.5	716.7
20°	5716.0	5405.7	4154.8	2449.2	1197.2	757.1	680.9	670.8	676.4	685.4	686.5
22.5°	5848.1	5408.0	3813.3	1850.1	837.7	663.0	648.4	643.9	647.3	657.4	658.5
25°	5955.6	5381.1	3385.5	1315.9	668.6	624.9	618.2	615.9	618.2	630.5	630.5
27.5°	5999.3	5283.7	2863.6	925.0	599.1	582.3	580.1	582.3	585.7	594.7	595.8
30°	6003.8	5113.5	2294.7	669.7	543.2	525.2	529.7	537.6	534.2	532.0	534.2
32.5°	6015.0	4916.4	1740.3	551.0	496.1	468.1	462.5	462.5	449.1	441.2	436.8
35°	6051.9	4684.5	1262.1	495.0	448.0	415.5	394.2	369.6	343.8	330.4	327.0
37.5°	6110.2	4441.5	903.8	458.0	405.4	368.4	328.1	284.5	247.5	237.4	237.4
40°	6216.6	4190.7	668.6	428.9	371.8	325.9	265.4	208.3	174.7	169.1	169.1
42.5°	6384.5	3926.4	533.1	403.2	342.7	282.2	202.7	151.2	126.5	123.2	122.1
45°	6559.2	3635.2	465.9	378.5	311.3	231.8	150.1	112.0	97.4	94.1	94.1
47.5°	6733.9	3325.0	433.4	355.0	281.1	180.3	112.0	88.5	81.8	81.8	82.9
50°	6881.8	3001.3	409.9	329.2	241.9	136.6	88.5	75.0	72.8	77.3	78.4
52.5°	6918.7	2683.3	380.8	296.8	193.7	104.2	72.8	66.1	66.1	66.1	66.1
55°	6896.3	2436.9	342.7	256.5	143.3	82.9	62.7	58.2	57.1	57.1	57.1
57.5°	6972.5	2291.3	274.4	199.3	103.0	67.2	54.9	51.5	49.3	48.2	48.2
60°	7125.9	2196.1	196.0	143.3	77.3	56.0	47.0	43.7	40.3	38.1	38.1
62.5°	7329.7	2113.2	145.6	106.4	59.4	44.8	39.2	35.8	31.4	29.1	29.1
65°	7486.5	1965.4	110.9	79.5	44.8	35.8	30.2	29.1	22.4	20.2	19.0
67.5°	7246.9	1640.7	89.6	58.2	33.6	28.0	23.5	22.4	13.4	11.2	11.2
70°	6215.4	1142.3	71.7	42.6	24.6	22.4	19.0	14.6	10.1	9.0	9.0
71°	5636.4	954.2	65.0	35.8	21.3	21.3	17.9	12.3	9.0	7.8	7.8
72.5°	4682.3	677.5	54.9	28.0	19.0	22.4	19.0	11.2	9.0	7.8	6.7
75°	2718.0	283.3	38.1	19.0	14.6	26.9	24.6	10.1	6.7	5.6	5.6
77.5°	817.5	104.2	21.3	12.3	11.2	23.5	28.0	9.0	3.4	1.1	1.1
80°	148.9	44.8	13.4	7.8	7.8	14.6	21.3	4.5	0.0	0.0	0.0
82.5°	52.6	22.4	7.8	4.5	3.4	6.7	10.1	0.0	0.0	0.0	0.0
85°	30.2	15.7	4.5	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	20.2	4.5	0.0	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)