

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: P321529

Luminaire Tested: **GAN-SA5C-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321529
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-SA5C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 22737 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

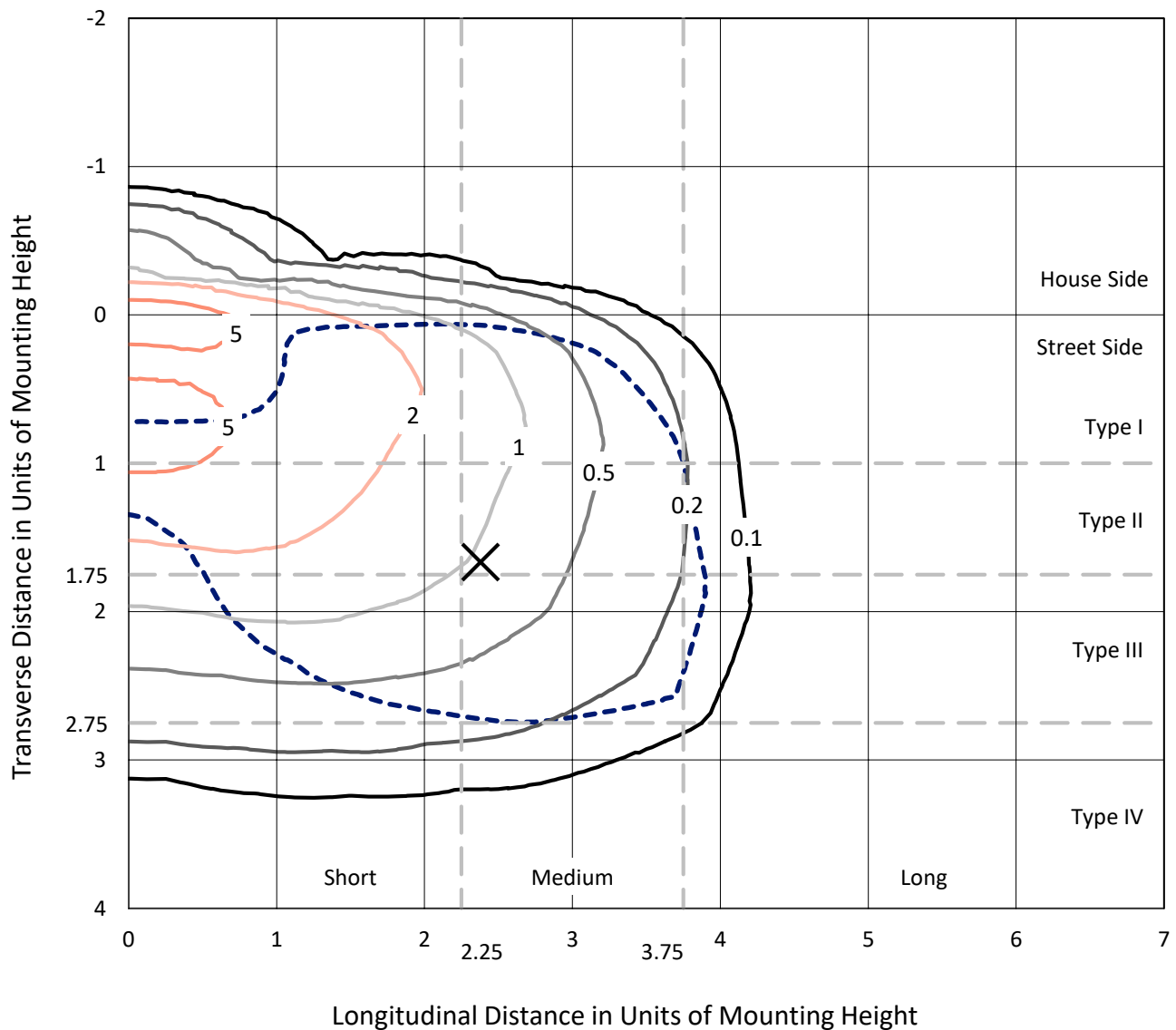
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

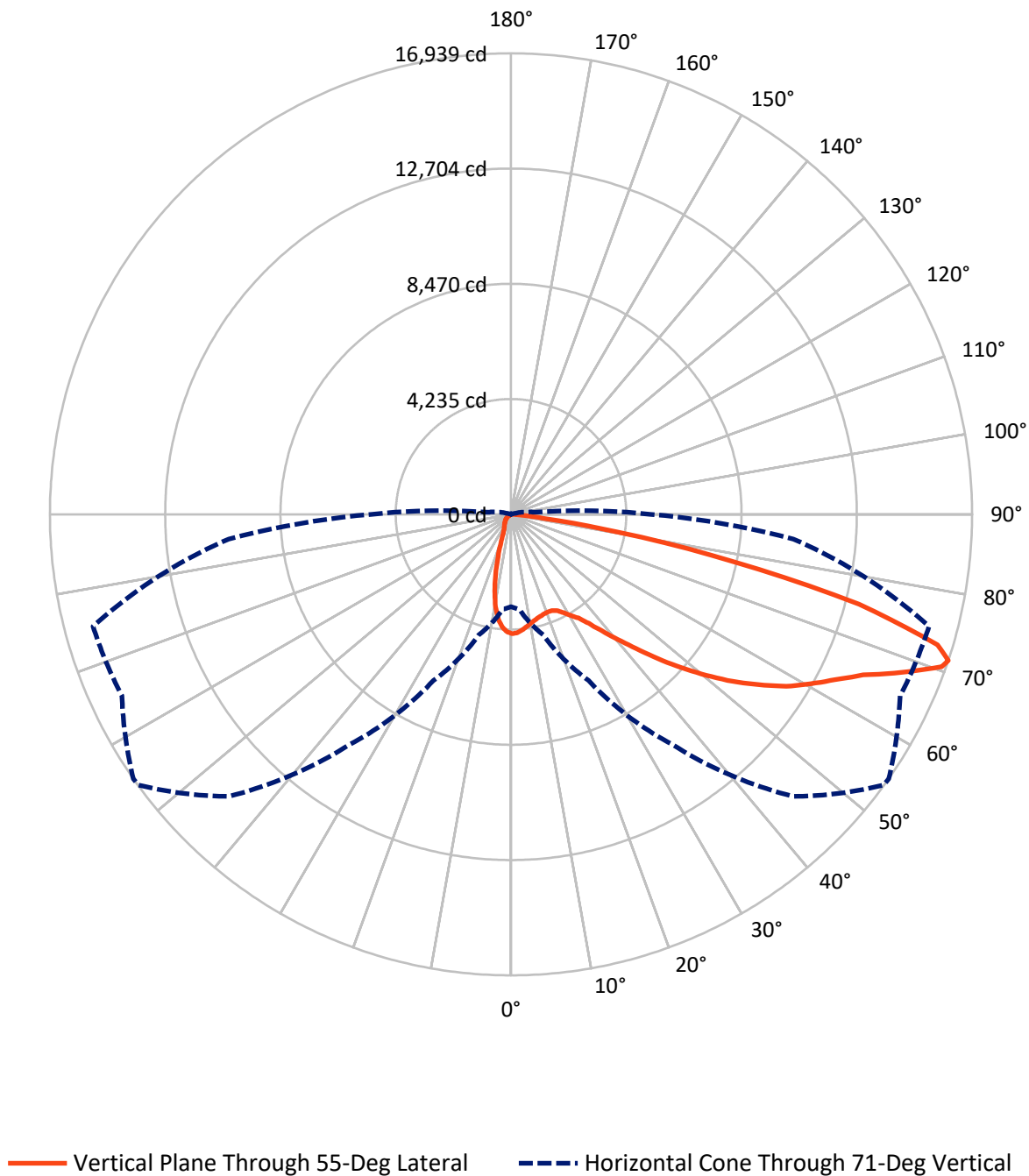
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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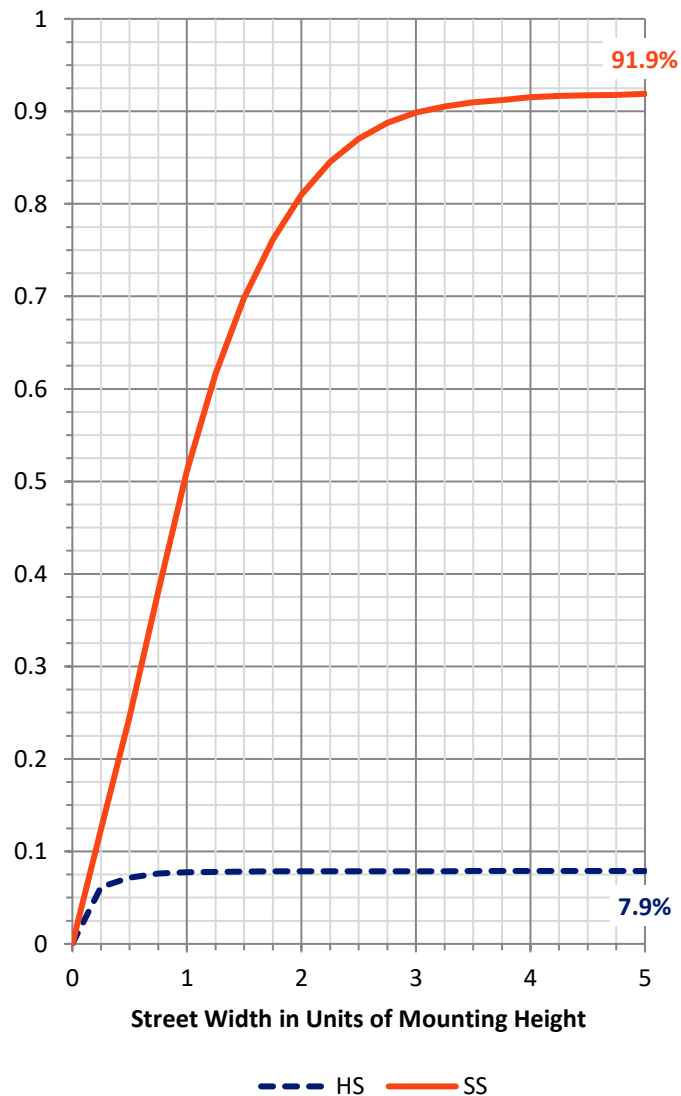
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1800.2	0.0	1800.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20936.9	0.0	20936.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	22737.0	0.0	22737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	1.6
10°-20°	844.0	3.7
20°-30°	1356.4	6.0
30°-40°	2304.6	10.1
40°-50°	3577.0	15.7
50°-60°	4809.2	21.2
60°-70°	5883.3	25.9
70°-80°	3439.8	15.1
80°-90°	148.7	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°	22737.0	100.0
0°-180°	22737.0	100.0

Coefficient of Utilization



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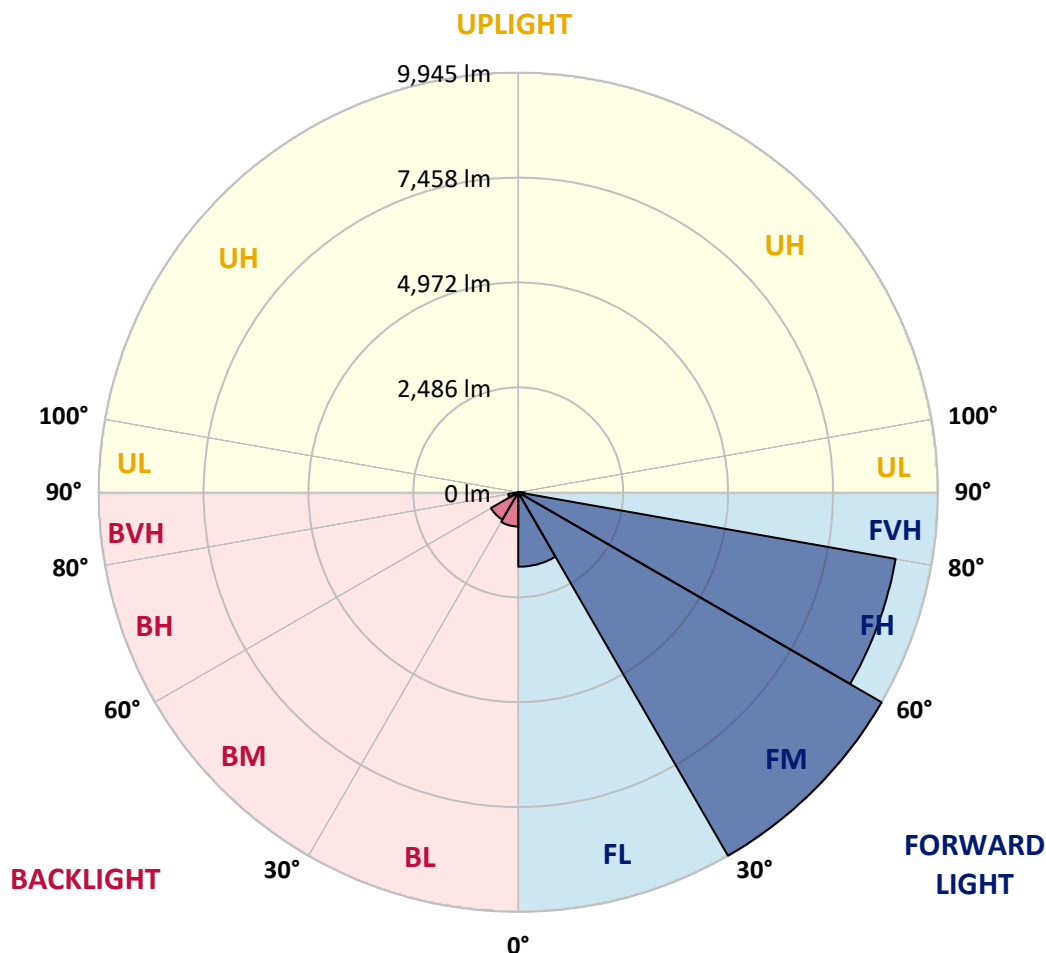
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1764.1	7.8			
FM	(30°-60°)	9944.5	43.7			
FH	(60°-80°)	9081.9	39.9			G4/12000
FVH	(80°-90°)	146.3	0.6			G2/225
BL	(0°-30°)	810.3	3.6	B2/1000		
BM	(30°-60°)	746.4	3.3	B1/1000		
BH	(60°-80°)	241.2	1.1	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9
2.5°	4256.3	4261.4	4279.8	4287.9	4307.3	4340.0	4356.3	4357.3	4383.9	4394.1	4402.3
5°	3955.1	3985.7	4016.4	4049.0	4108.2	4186.9	4264.4	4271.6	4357.3	4420.6	4454.3
7.5°	3695.8	3723.3	3760.1	3812.2	3895.9	4019.4	4149.1	4164.4	4326.7	4470.7	4546.2
10°	3429.3	3451.8	3504.9	3581.4	3696.8	3862.2	4036.8	4062.3	4299.2	4538.1	4670.8
12.5°	3144.5	3157.7	3222.1	3332.3	3501.8	3712.1	3941.8	3975.5	4281.8	4615.6	4817.8
15°	2928.0	2934.2	2995.4	3109.8	3303.7	3577.4	3868.3	3909.2	4285.9	4708.5	4978.1
17.5°	2872.9	2876.0	2908.6	2987.3	3158.8	3456.9	3810.1	3860.2	4298.1	4799.4	5139.4
20°	3096.5	3075.1	3041.4	3029.1	3102.6	3384.4	3775.4	3831.6	4314.5	4880.1	5284.4
22.5°	3710.1	3646.8	3506.9	3320.1	3206.8	3389.5	3784.6	3840.8	4366.5	4979.1	5451.8
25°	4620.7	4532.9	4295.1	3927.5	3574.3	3536.5	3861.2	3918.3	4467.6	5097.5	5612.1
27.5°	5657.0	5570.2	5279.3	4754.5	4152.1	3827.5	4036.8	4089.9	4617.7	5202.7	5734.6
30°	6649.3	6624.8	6281.8	5685.6	4879.0	4299.2	4263.4	4308.3	4729.0	5266.0	5831.6
32.5°	7490.6	7451.8	7176.1	6596.3	5711.1	4865.8	4529.9	4543.2	4812.7	5347.7	5958.2
35°	8270.6	8222.6	7980.6	7432.4	6564.6	5558.0	4940.3	4920.9	4995.4	5512.0	6141.9
37.5°	8951.6	8995.5	8726.9	8205.2	7330.3	6277.7	5493.6	5435.5	5281.3	5779.5	6408.4
40°	9521.2	9521.2	9381.4	8946.4	8157.3	7022.0	6119.5	6042.9	5711.1	6192.0	6746.3
42.5°	9726.4	9770.3	9822.4	9576.4	8897.4	7795.9	6816.8	6737.1	6316.5	6777.0	7173.1
45°	9738.7	9808.1	10074.6	10073.6	9566.2	8564.6	7602.9	7565.1	7092.4	7528.4	7701.9
47.5°	9566.2	9652.9	10091.9	10341.0	10096.0	9280.3	8462.5	8415.6	8004.1	8449.3	8255.3
50°	9299.7	9395.7	9906.1	10446.2	10456.4	9903.1	9368.1	9297.6	9007.7	9501.8	8827.0
52.5°	8822.9	9008.7	9739.7	10470.7	10693.3	10441.1	10229.8	10199.1	10130.7	10515.6	9282.3
55°	7803.0	8009.2	9322.1	10478.9	10912.8	10917.9	11037.3	11045.5	11183.3	11463.0	9621.3
57.5°	7321.1	7437.5	8593.2	10517.7	11238.4	11459.0	11860.2	11923.5	12136.9	12362.5	10008.2
60°	7017.9	7155.7	8233.8	10464.6	11749.9	12168.5	12622.8	12644.3	12873.0	13290.5	10532.0
62.5°	6775.9	6911.7	8007.2	10260.4	12324.7	13022.0	13368.1	13370.2	13541.7	14396.2	11127.2
65°	6178.7	6293.0	7548.8	10030.7	12704.5	13866.3	14233.9	14220.6	14360.5	15562.1	11818.3
67.5°	5315.0	5402.8	6612.6	9159.8	12561.6	14634.1	15540.7	15496.8	15327.3	16569.8	12089.9
70°	4109.3	4140.9	5211.9	7633.5	11222.1	14929.1	16803.6	16781.1	15920.4	16389.1	11094.5
71°	3396.6	3500.8	4593.2	6737.1	10324.7	14656.5	16926.1	16939.3	15771.4	15897.0	10409.4
72.5°	1972.4	2061.3	3329.3	5174.1	8765.7	13519.2	16291.0	16387.0	15075.1	14459.5	8891.3
75°	422.7	452.3	1234.3	2504.4	4821.9	9475.3	12858.7	13200.7	12286.9	9836.7	5358.9
77.5°	294.0	317.5	528.8	1136.3	1593.7	4682.0	7987.8	8373.7	7340.5	3696.8	1715.2
80°	232.8	259.3	412.5	561.5	430.8	1510.0	3741.7	3977.6	2448.2	824.9	288.9
82.5°	129.7	154.2	321.6	303.2	165.4	286.9	1047.5	1184.3	490.0	166.4	68.4
85°	37.8	45.9	207.2	220.5	70.4	55.1	178.7	221.5	92.9	43.9	30.6
87.5°	0.0	0.0	100.1	84.7	20.4	8.2	16.3	18.4	18.4	18.4	20.4
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°	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9	4384.9
2.5°	4402.3	4409.4	4383.9	4350.2	4314.5	4270.6	4224.6	4188.9	4187.9	4170.5	4153.2
5°	4456.4	4452.3	4381.8	4274.7	4148.1	4016.4	3890.8	3748.9	3701.9	3643.7	3624.3
7.5°	4556.4	4527.8	4378.8	4144.0	3866.3	3590.6	3305.8	3018.9	2896.4	2786.1	2766.7
10°	4682.0	4627.9	4359.4	3948.0	3438.5	2930.1	2500.3	2110.3	1938.8	1807.1	1800.9
12.5°	4812.7	4730.0	4305.3	3651.9	2878.0	2163.4	1668.2	1284.3	1141.4	1049.5	1057.7
15°	4949.5	4826.0	4188.9	3252.7	2239.9	1468.1	1025.0	799.4	742.2	718.7	724.9
17.5°	5089.4	4892.3	4026.6	2771.8	1610.0	947.4	709.5	646.3	646.3	651.4	653.4
20°	5210.8	4928.0	3787.7	2232.8	1091.4	690.2	620.7	611.5	616.6	624.8	625.8
22.5°	5331.3	4930.1	3476.3	1686.6	763.7	604.4	591.1	587.0	590.1	599.3	600.3
25°	5429.3	4905.6	3086.3	1199.6	609.5	569.7	563.6	561.5	563.6	574.8	574.8
27.5°	5469.1	4816.8	2610.5	843.3	546.2	530.9	528.8	530.9	533.9	542.1	543.1
30°	5473.2	4661.6	2091.9	610.5	495.2	478.8	482.9	490.0	487.0	484.9	487.0
32.5°	5483.4	4481.9	1586.5	502.3	452.3	426.8	421.6	421.6	409.4	402.2	398.2
35°	5517.1	4270.6	1150.6	451.3	408.4	378.8	359.4	336.9	313.4	301.2	298.1
37.5°	5570.2	4049.0	823.9	417.6	369.6	335.9	299.1	259.3	225.6	216.4	216.4
40°	5667.2	3820.3	609.5	391.0	339.0	297.1	242.0	189.9	159.3	154.2	154.2
42.5°	5820.3	3579.4	486.0	367.5	312.4	257.3	184.8	137.8	115.4	112.3	111.3
45°	5979.6	3314.0	424.7	345.1	283.8	211.3	136.8	102.1	88.8	85.8	85.8
47.5°	6138.9	3031.2	395.1	323.6	256.3	164.4	102.1	80.7	74.5	74.5	75.5
50°	6273.6	2736.1	373.7	300.2	220.5	124.6	80.7	68.4	66.4	70.4	71.5
52.5°	6307.3	2446.2	347.1	270.5	176.6	94.9	66.4	60.2	60.2	60.2	60.2
55°	6286.9	2221.6	312.4	233.8	130.7	75.5	57.2	53.1	52.1	52.1	52.1
57.5°	6356.3	2088.8	250.1	181.7	93.9	61.3	50.0	47.0	44.9	43.9	43.9
60°	6496.2	2002.1	178.7	130.7	70.4	51.0	42.9	39.8	36.8	34.7	34.7
62.5°	6682.0	1926.5	132.7	97.0	54.1	40.8	35.7	32.7	28.6	26.5	26.5
65°	6824.9	1791.7	101.1	72.5	40.8	32.7	27.6	26.5	20.4	18.4	17.4
67.5°	6606.5	1495.7	81.7	53.1	30.6	25.5	21.4	20.4	12.3	10.2	10.2
70°	5666.2	1041.4	65.3	38.8	22.5	20.4	17.4	13.3	9.2	8.2	8.2
71°	5138.4	869.8	59.2	32.7	19.4	19.4	16.3	11.2	8.2	7.1	7.1
72.5°	4268.5	617.7	50.0	25.5	17.4	20.4	17.4	10.2	8.2	7.1	6.1
75°	2477.8	258.3	34.7	17.4	13.3	24.5	22.5	9.2	6.1	5.1	5.1
77.5°	745.3	94.9	19.4	11.2	10.2	21.4	25.5	8.2	3.1	1.0	1.0
80°	135.8	40.8	12.3	7.1	7.1	13.3	19.4	4.1	0.0	0.0	0.0
82.5°	48.0	20.4	7.1	4.1	3.1	6.1	9.2	0.0	0.0	0.0	0.0
85°	27.6	14.3	4.1	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	18.4	4.1	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)