

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: P321713

Luminaire Tested: **GAN-SA9A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321713
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-SA9A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 23555 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

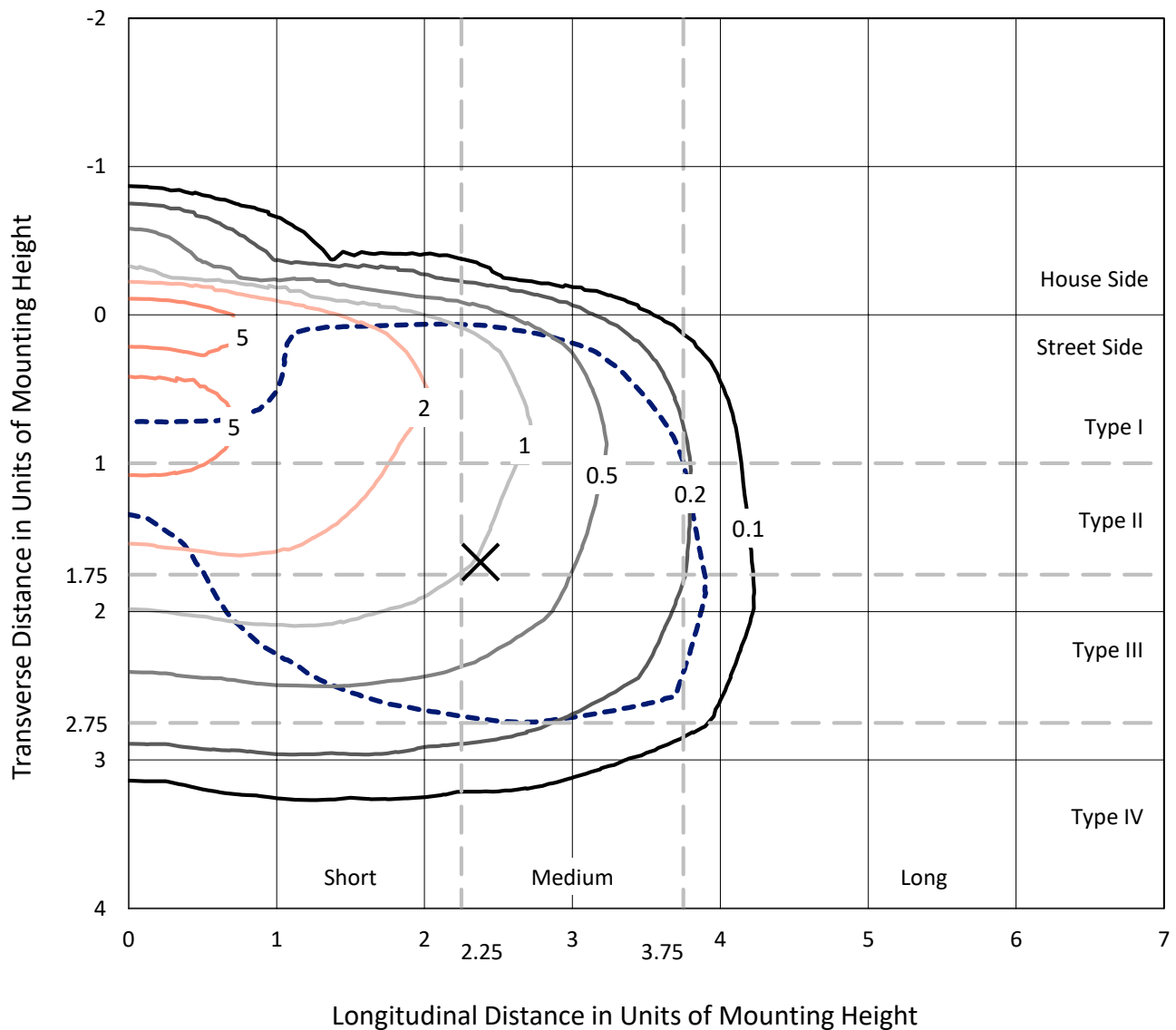
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

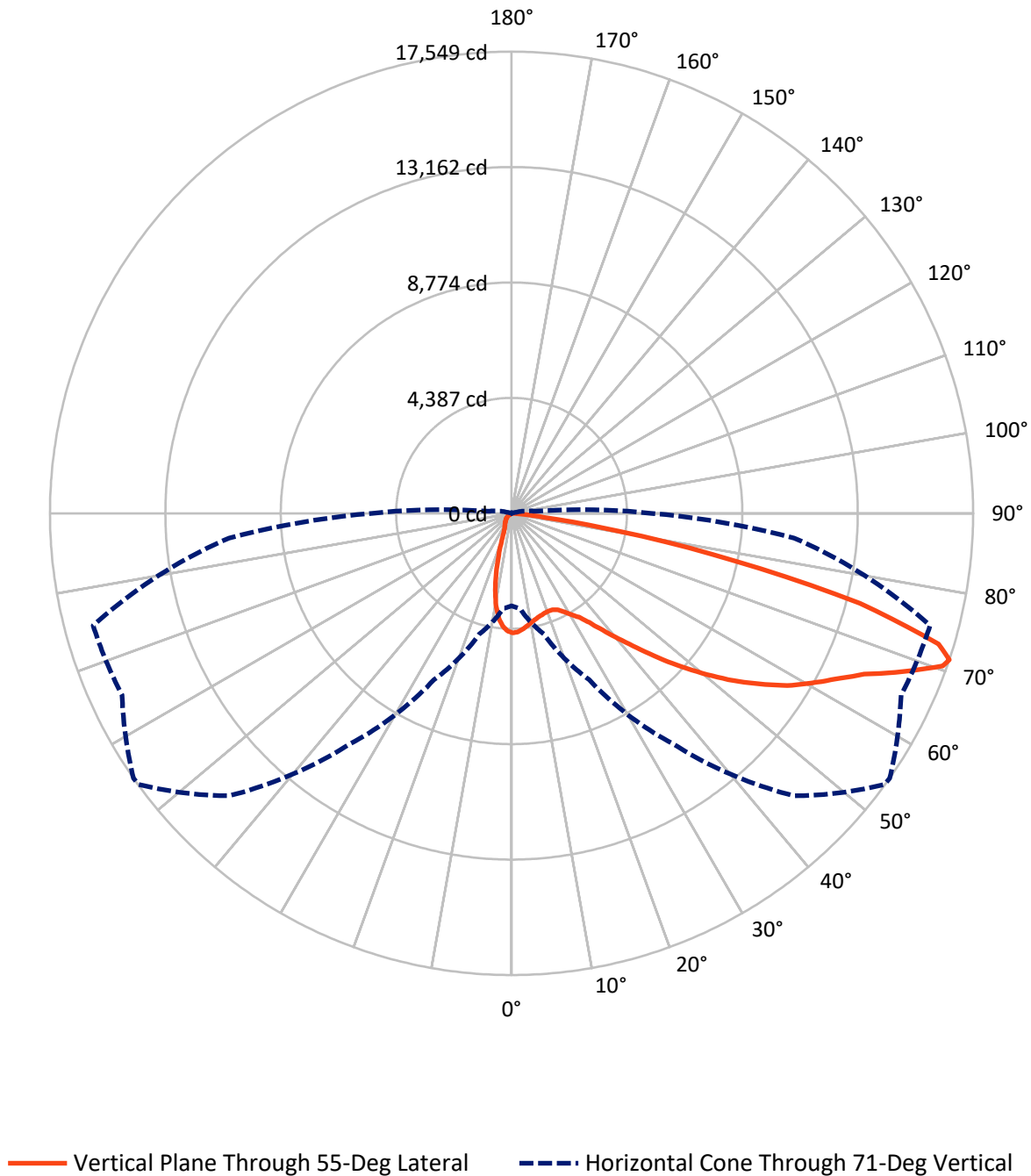
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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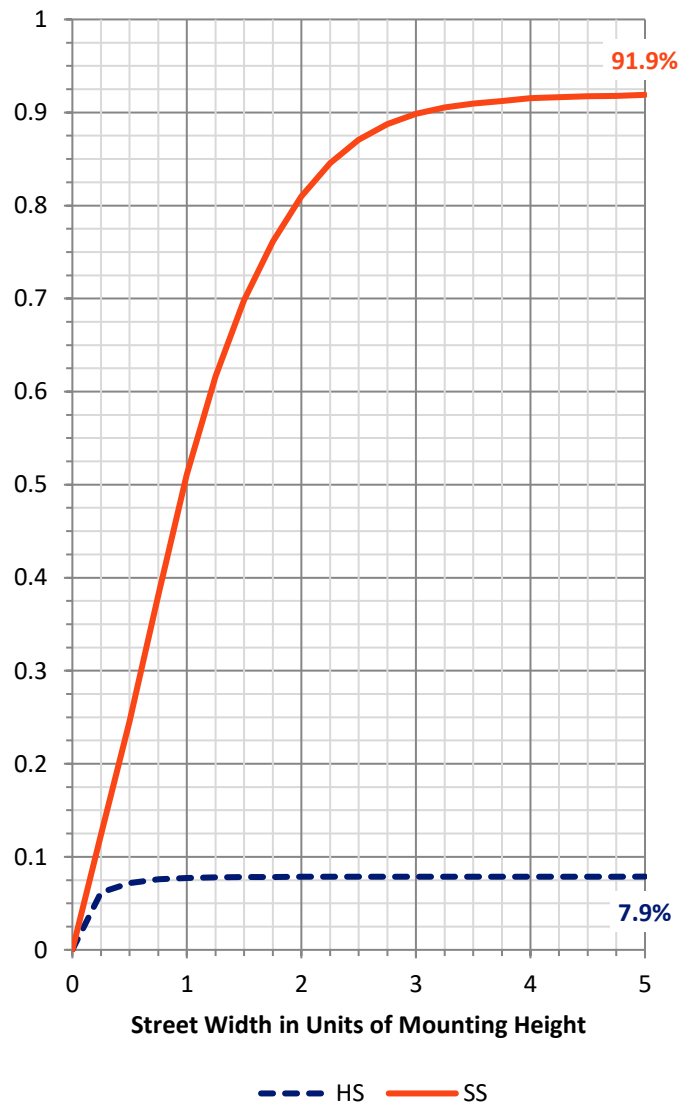
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.9	0.0	1864.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	21690.1	0.0	21690.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	23555.0	0.0	23555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.3	1.6
10°-20°	874.4	3.7
20°-30°	1405.2	6.0
30°-40°	2387.5	10.1
40°-50°	3705.7	15.7
50°-60°	4982.3	21.2
60°-70°	6094.9	25.9
70°-80°	3563.6	15.1
80°-90°	154.0	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°	23555.0	100.0
0°-180°	23555.0	100.0

Coefficient of Utilization



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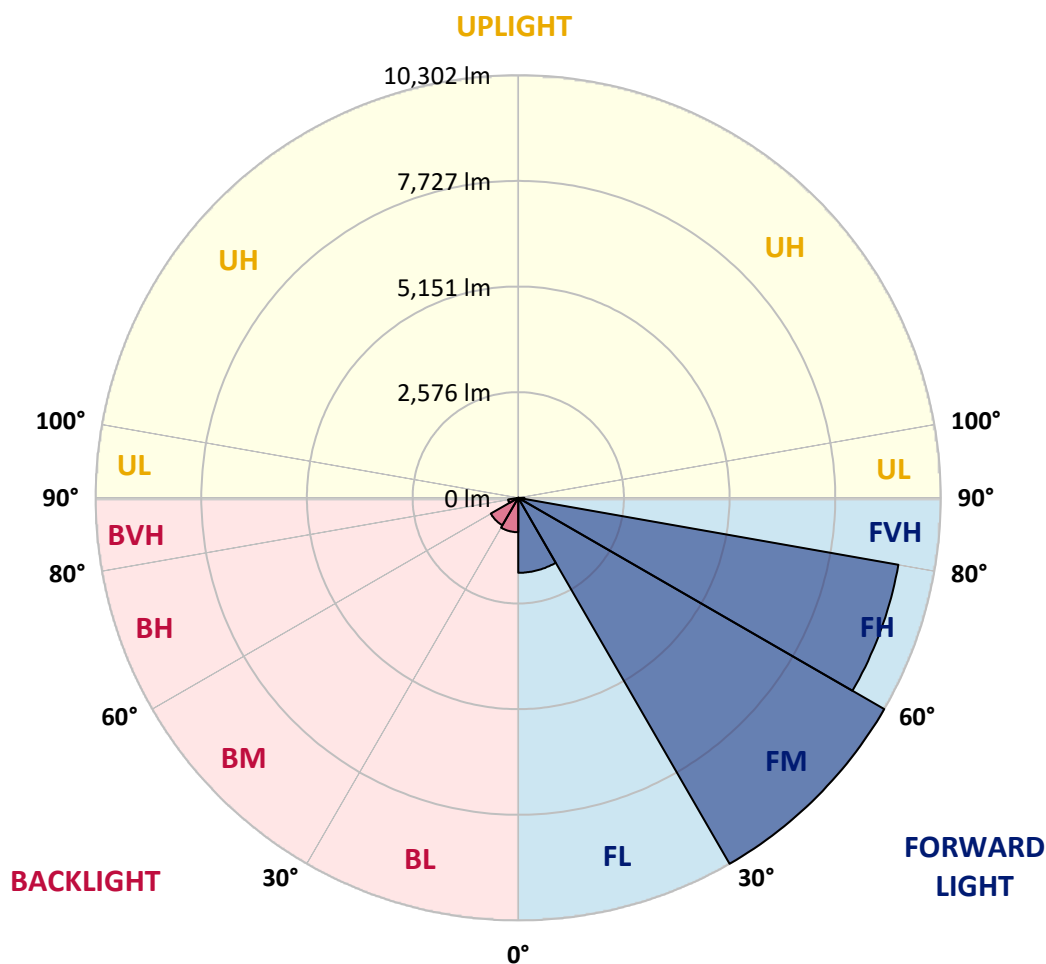
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1827.5	7.8			
FM	(30°-60°)	10302.3	43.7			
FH	(60°-80°)	9408.7	39.9			G4/12000
FVH	(80°-90°)	151.6	0.6			G2/225
BL	(0°-30°)	839.4	3.6	B2/1000		
BM	(30°-60°)	773.2	3.3	B1/1000		
BH	(60°-80°)	249.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7
2.5°	4409.4	4414.7	4433.7	4442.2	4462.3	4496.1	4513.1	4514.1	4541.6	4552.2	4560.6
5°	4097.4	4129.1	4160.8	4194.7	4256.0	4337.5	4417.9	4425.3	4514.1	4579.7	4614.6
7.5°	3828.7	3857.3	3895.4	3949.3	4036.0	4164.0	4298.3	4314.2	4482.4	4631.5	4709.8
10°	3552.7	3576.0	3631.0	3710.3	3829.8	4001.1	4182.0	4208.4	4453.8	4701.3	4838.8
12.5°	3257.6	3271.4	3338.0	3452.2	3627.8	3845.7	4083.6	4118.5	4435.8	4781.7	4991.1
15°	3033.4	3039.7	3103.2	3221.6	3422.6	3706.1	4007.5	4049.8	4440.1	4877.9	5157.2
17.5°	2976.3	2979.4	3013.3	3094.7	3272.4	3581.2	3947.2	3999.0	4452.8	4972.1	5324.3
20°	3207.9	3185.7	3150.8	3138.1	3214.2	3506.2	3911.2	3969.4	4469.7	5055.6	5474.5
22.5°	3843.6	3778.0	3633.1	3439.5	3322.1	3511.4	3920.8	3978.9	4523.6	5158.2	5647.9
25°	4787.0	4696.0	4449.6	4068.8	3702.9	3663.7	4000.1	4059.3	4628.3	5280.9	5814.0
27.5°	5860.5	5770.6	5469.2	4925.5	4301.5	3965.2	4182.0	4237.0	4783.8	5389.9	5940.9
30°	6888.6	6863.2	6507.8	5890.1	5054.6	4453.8	4416.8	4463.3	4899.1	5455.4	6041.4
32.5°	7760.1	7719.9	7434.3	6833.6	5916.6	5040.8	4692.9	4706.6	4985.8	5540.0	6172.5
35°	8568.1	8518.4	8267.8	7699.8	6800.8	5757.9	5118.0	5097.9	5175.1	5710.3	6362.9
37.5°	9273.6	9319.1	9040.9	8500.4	7594.0	6503.6	5691.3	5631.0	5471.3	5987.4	6639.0
40°	9863.8	9863.8	9718.9	9268.3	8450.7	7274.6	6339.6	6260.3	5916.6	6414.7	6989.0
42.5°	10076.4	10121.8	10175.8	9920.9	9217.5	8076.3	7062.0	6979.5	6543.8	7020.8	7431.1
45°	10089.1	10161.0	10437.0	10436.0	9910.3	8872.7	7876.4	7837.3	7347.6	7799.2	7979.0
47.5°	9910.3	10000.2	10455.0	10713.1	10459.2	9614.2	8767.0	8718.3	8292.1	8753.2	8552.3
50°	9634.3	9733.7	10262.5	10822.0	10832.6	10259.3	9705.1	9632.1	9331.8	9843.7	9144.6
52.5°	9140.3	9332.8	10090.1	10847.4	11078.0	10816.7	10597.8	10566.1	10495.2	10893.9	9616.3
55°	8083.7	8297.4	9657.5	10855.9	11305.4	11310.7	11434.4	11442.9	11585.6	11875.4	9967.4
57.5°	7584.5	7705.1	8902.4	10896.1	11642.8	11871.2	12286.9	12352.5	12573.5	12807.3	10368.3
60°	7270.4	7413.2	8530.1	10841.1	12172.7	12606.3	13077.0	13099.2	13336.1	13768.7	10910.9
62.5°	7019.7	7160.4	8295.3	10629.5	12768.1	13490.5	13849.1	13851.2	14028.9	14914.1	11527.5
65°	6401.0	6519.4	7820.4	10391.5	13161.6	14365.2	14745.9	14732.2	14877.1	16122.0	12243.5
67.5°	5506.2	5597.2	6850.5	9489.4	13013.5	15160.6	16099.8	16054.3	15878.7	17165.9	12524.9
70°	4257.1	4289.9	5399.4	7908.2	11625.8	15466.2	17408.1	17384.8	16493.2	16978.7	11493.6
71°	3518.8	3626.7	4758.4	6979.5	10696.2	15183.8	17535.0	17548.8	16338.8	16468.9	10783.9
72.5°	2043.4	2135.4	3449.0	5360.2	9081.1	14005.6	16877.1	16976.6	15617.5	14979.7	9211.2
75°	437.9	468.5	1278.7	2594.4	4995.3	9816.2	13321.3	13675.6	12729.0	10190.6	5551.7
77.5°	304.6	328.9	547.9	1177.2	1651.0	4850.4	8275.2	8675.0	7604.6	3829.8	1776.9
80°	241.1	268.6	427.3	581.7	446.3	1564.3	3876.3	4120.7	2536.3	854.6	299.3
82.5°	134.3	159.7	333.2	314.1	171.3	297.2	1085.2	1226.9	507.7	172.4	70.9
85°	39.1	47.6	214.7	228.5	73.0	57.1	185.1	229.5	96.2	45.5	31.7
87.5°	0.0	0.0	103.7	87.8	21.2	8.5	16.9	19.0	19.0	19.0	21.2
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°	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7	4542.7
2.5°	4560.6	4568.1	4541.6	4506.7	4469.7	4424.2	4376.6	4339.6	4338.5	4320.6	4302.6
5°	4616.7	4612.5	4539.5	4428.4	4297.3	4160.8	4030.8	3883.7	3835.1	3774.8	3754.7
7.5°	4720.4	4690.7	4536.3	4293.1	4005.4	3719.8	3424.7	3127.5	3000.6	2886.4	2866.3
10°	4850.4	4794.4	4516.2	4090.0	3562.2	3035.5	2590.2	2186.2	2008.5	1872.1	1865.7
12.5°	4985.8	4900.2	4460.2	3783.3	2981.6	2241.2	1728.2	1330.5	1182.5	1087.3	1095.7
15°	5127.6	4999.6	4339.6	3369.7	2320.5	1520.9	1061.9	828.2	768.9	744.6	750.9
17.5°	5272.5	5068.3	4171.4	2871.6	1667.9	981.5	735.1	669.5	669.5	674.8	676.9
20°	5398.3	5105.3	3923.9	2313.1	1130.6	715.0	643.1	633.5	638.8	647.3	648.3
22.5°	5523.1	5107.5	3601.3	1747.3	791.1	626.1	612.4	608.2	611.3	620.8	621.9
25°	5624.7	5082.1	3197.3	1242.8	631.4	590.2	583.8	581.7	583.8	595.5	595.5
27.5°	5665.9	4990.1	2704.4	873.6	565.9	550.0	547.9	550.0	553.2	561.6	562.7
30°	5670.1	4829.3	2167.2	632.5	513.0	496.0	500.3	507.7	504.5	502.4	504.5
32.5°	5680.7	4643.1	1643.6	520.4	468.5	442.1	436.8	436.8	424.1	416.7	412.5
35°	5715.6	4424.2	1192.0	467.5	423.1	392.4	372.3	349.0	324.7	312.0	308.8
37.5°	5770.6	4194.7	853.5	432.6	382.9	348.0	309.9	268.6	233.7	224.2	224.2
40°	5871.1	3957.8	631.4	405.1	351.1	307.8	250.7	196.7	165.0	159.7	159.7
42.5°	6029.7	3708.2	503.4	380.8	323.6	266.5	191.4	142.8	119.5	116.3	115.3
45°	6194.7	3433.2	440.0	357.5	294.0	218.9	141.7	105.8	92.0	88.8	88.8
47.5°	6359.7	3140.2	409.3	335.3	265.5	170.3	105.8	83.6	77.2	77.2	78.3
50°	6499.3	2834.5	387.1	311.0	228.5	129.0	83.6	70.9	68.7	73.0	74.0
52.5°	6534.2	2534.2	359.6	280.3	183.0	98.4	68.7	62.4	62.4	62.4	62.4
55°	6513.1	2301.5	323.6	242.2	135.4	78.3	59.2	55.0	53.9	53.9	53.9
57.5°	6585.0	2164.0	259.1	188.3	97.3	63.5	51.8	48.7	46.5	45.5	45.5
60°	6729.9	2074.1	185.1	135.4	73.0	52.9	44.4	41.2	38.1	36.0	36.0
62.5°	6922.4	1995.8	137.5	100.5	56.1	42.3	37.0	33.8	29.6	27.5	27.5
65°	7070.5	1856.2	104.7	75.1	42.3	33.8	28.6	27.5	21.2	19.0	18.0
67.5°	6844.1	1549.5	84.6	55.0	31.7	26.4	22.2	21.2	12.7	10.6	10.6
70°	5870.0	1078.8	67.7	40.2	23.3	21.2	18.0	13.7	9.5	8.5	8.5
71°	5323.2	901.1	61.3	33.8	20.1	20.1	16.9	11.6	8.5	7.4	7.4
72.5°	4422.1	639.9	51.8	26.4	18.0	21.2	18.0	10.6	8.5	7.4	6.3
75°	2567.0	267.6	36.0	18.0	13.7	25.4	23.3	9.5	6.3	5.3	5.3
77.5°	772.1	98.4	20.1	11.6	10.6	22.2	26.4	8.5	3.2	1.1	1.1
80°	140.7	42.3	12.7	7.4	7.4	13.7	20.1	4.2	0.0	0.0	0.0
82.5°	49.7	21.2	7.4	4.2	3.2	6.3	9.5	0.0	0.0	0.0	0.0
85°	28.6	14.8	4.2	2.1	0.0	1.1	2.1	0.0	0.0	0.0	0.0
87.5°	19.0	4.2	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)