

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: P322404

Luminaire Tested: **GAN-SA0B-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32755 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

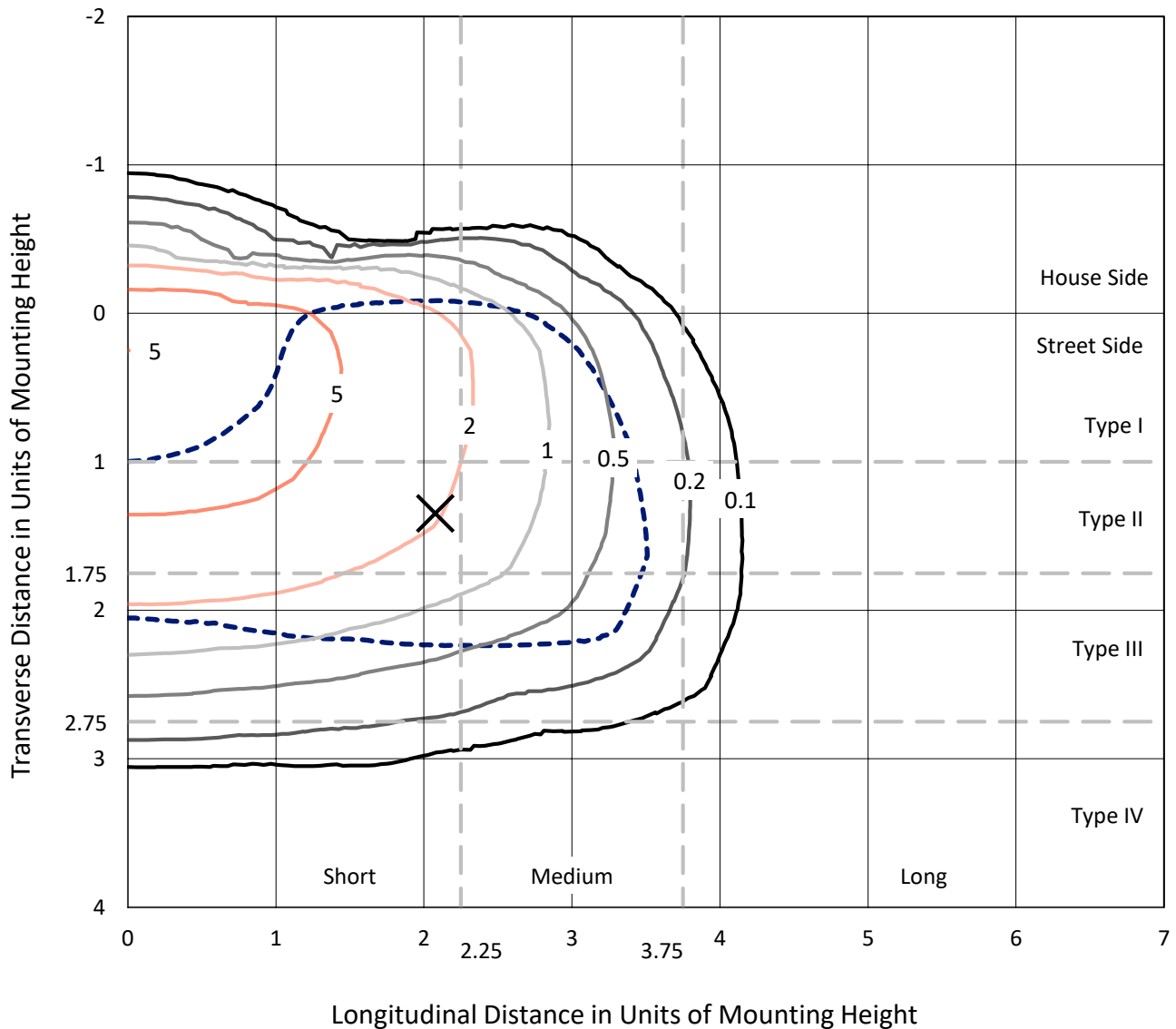
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

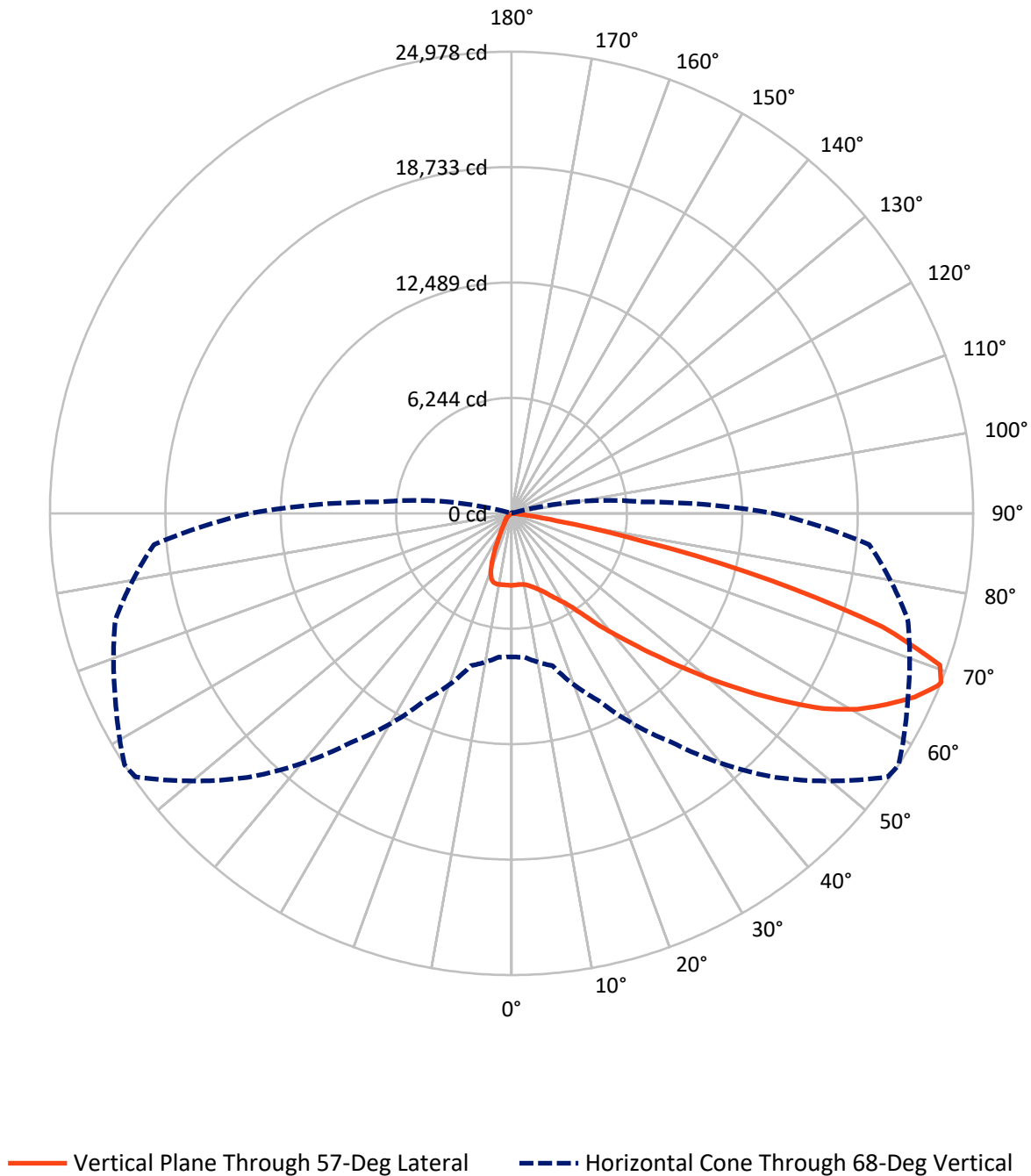
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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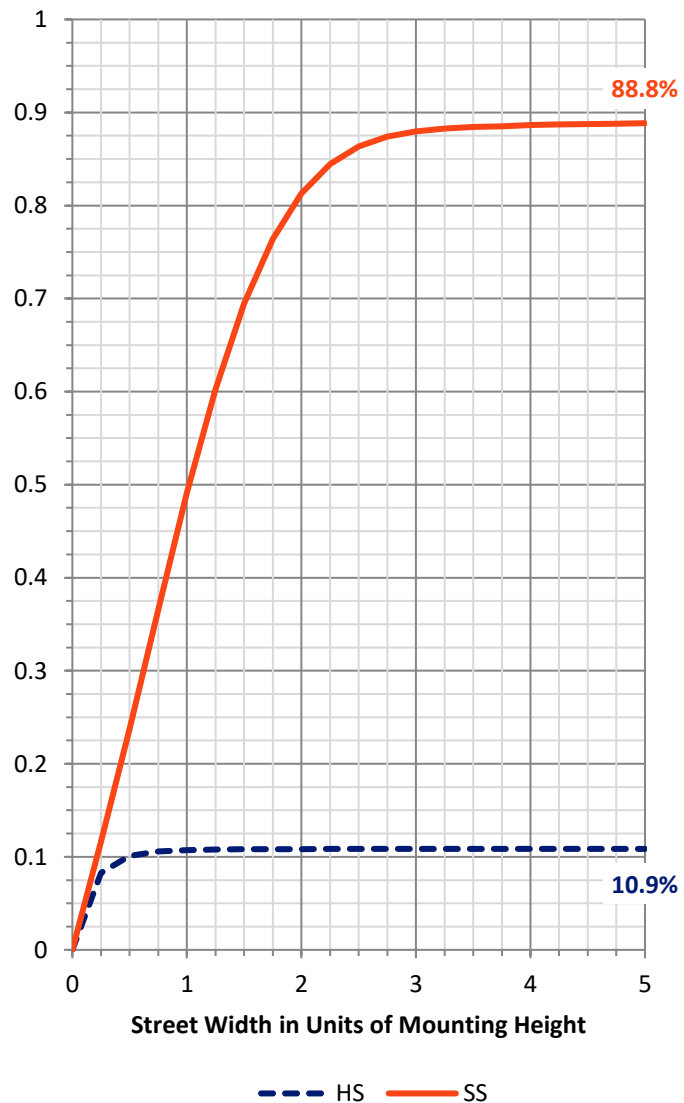
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.8	0.0	3591.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	29163.2	0.0	29163.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	32755.0	0.0	32755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	1.1
10°-20°	1009.4	3.1
20°-30°	1741.2	5.3
30°-40°	3005.3	9.2
40°-50°	5140.6	15.7
50°-60°	8224.5	25.1
60°-70°	9502.5	29.0
70°-80°	3631.0	11.1
80°-90°	136.1	0.4
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°	32755.0	100.0
0°-180°	32755.0	100.0

Coefficient of Utilization



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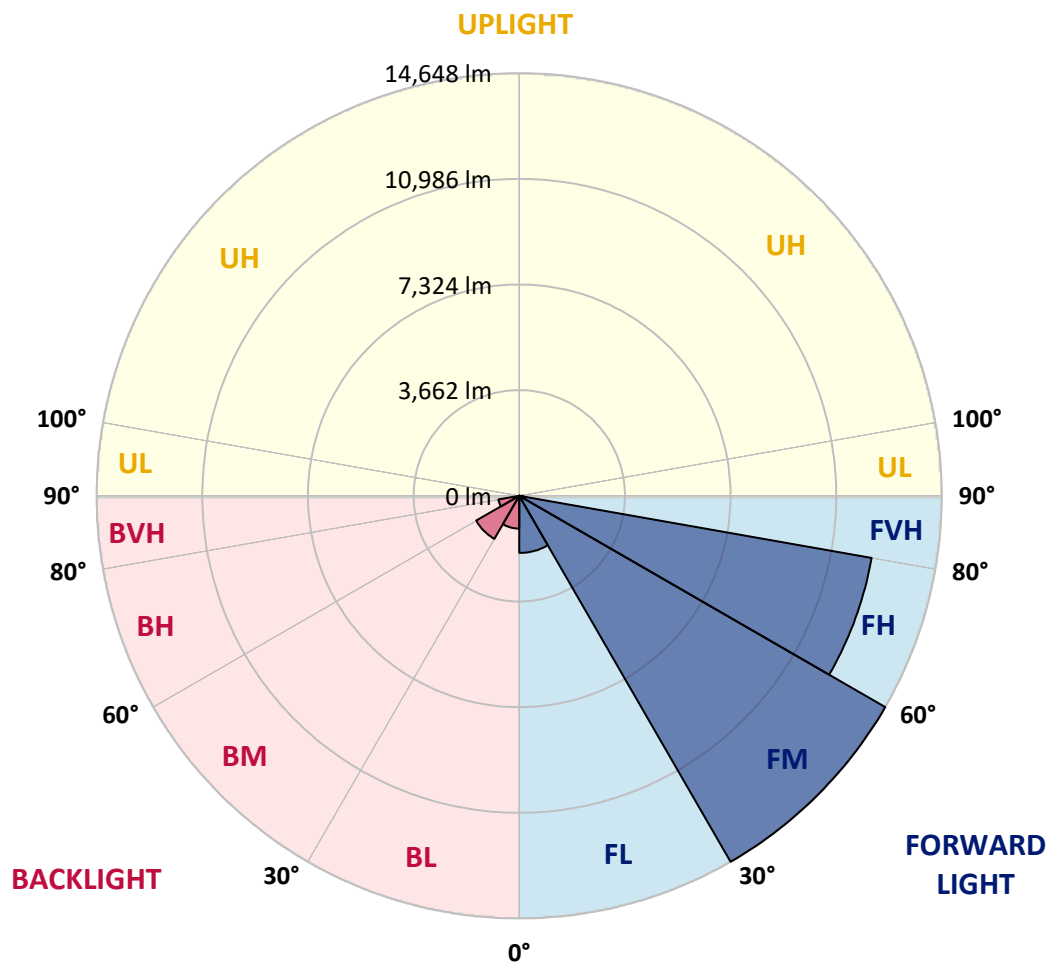
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1979.7	6.0			
FM	(30°-60°)	14647.8	44.7			
FH	(60°-80°)	12402.1	37.9			G5
FVH	(80°-90°)	133.6	0.4			G2/225
BL	(0°-30°)	1135.1	3.5	B3/2500		
BM	(30°-60°)	1722.7	5.3	B2/2500		
BH	(60°-80°)	731.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2
2.5°	3800.8	3817.8	3830.2	3837.9	3847.2	3867.4	3873.6	3882.9	3887.5	3887.5	3898.4
5°	3650.5	3669.1	3695.5	3717.1	3760.5	3816.3	3856.5	3872.0	3899.9	3924.7	3938.6
7.5°	3511.2	3532.8	3563.8	3614.9	3689.3	3779.1	3862.7	3884.4	3938.6	3991.3	4017.6
10°	3421.3	3438.4	3478.6	3551.4	3649.0	3774.4	3892.2	3918.5	4011.4	4099.7	4149.3
12.5°	3390.3	3405.8	3447.6	3529.7	3650.5	3797.7	3960.3	3999.0	4135.3	4263.9	4333.6
15°	3435.3	3438.4	3483.3	3560.7	3680.0	3855.0	4073.4	4119.8	4291.8	4459.0	4545.8
17.5°	3608.7	3594.8	3618.0	3652.1	3746.6	3930.9	4192.6	4262.3	4491.5	4688.2	4770.3
20°	4042.4	4042.4	3989.7	3896.8	3898.4	4048.6	4353.7	4432.7	4713.0	4940.7	5015.0
22.5°	4784.3	4770.3	4665.0	4437.3	4228.2	4251.5	4550.4	4652.6	4979.4	5222.6	5247.4
25°	5676.4	5659.3	5496.7	5176.1	4813.7	4579.8	4816.8	4934.5	5296.9	5512.2	5461.1
27.5°	6621.2	6607.2	6446.1	6048.1	5532.3	5103.3	5134.3	5245.8	5620.6	5832.8	5670.2
30°	7536.5	7541.2	7381.6	6972.7	6388.8	5770.9	5537.0	5602.0	5935.0	6150.3	5918.0
32.5°	8406.9	8413.1	8275.3	7818.4	7273.2	6546.8	6094.6	6077.5	6300.6	6512.7	6246.3
35°	9182.9	9198.4	9103.9	8749.2	8171.5	7411.1	6817.9	6777.6	6819.4	7059.5	6749.7
37.5°	9931.0	9940.3	9869.0	9570.1	9086.9	8360.5	7731.7	7674.3	7584.5	7768.8	7414.1
40°	10750.3	10727.1	10645.0	10373.9	9958.8	9409.0	8713.6	8614.5	8458.0	8622.2	8287.7
42.5°	11512.3	11486.0	11499.9	11193.2	10843.2	10487.0	9858.2	9687.8	9596.4	9785.4	9359.5
45°	12464.8	12450.9	12497.3	12230.9	11947.5	11688.9	11170.0	10984.2	10943.9	11165.4	10655.8
47.5°	13404.9	13439.0	13583.1	13470.0	13355.4	13127.7	12559.3	12475.7	12500.4	12768.4	12023.4
50°	14188.6	14228.9	14623.9	14754.0	14919.7	14786.5	14216.5	14165.4	14263.0	14504.6	13494.8
52.5°	14755.5	14837.6	15328.6	15928.0	16532.0	16621.8	16053.4	16006.9	16138.6	16175.8	14631.6
55°	15148.9	15221.7	15777.7	16874.3	18104.0	18491.2	18138.1	17958.4	17933.7	17566.6	15827.3
57.5°	15218.6	15210.9	16010.0	17486.1	19336.9	20335.9	20112.8	19936.3	19428.3	18852.1	17198.0
60°	14825.2	14870.1	15797.9	17698.2	20111.3	21731.3	21748.4	21519.2	20727.7	20102.0	18526.9
62.5°	13614.0	13796.8	14733.8	17142.2	20102.0	22293.6	22947.2	22772.1	21825.8	21125.8	19874.3
65°	11650.1	11715.2	12608.9	15237.2	18743.7	22058.1	24026.7	23961.6	22815.5	22120.1	20566.6
67.5°	8507.6	8366.7	9305.2	11998.6	15869.1	20685.9	24801.1	24883.2	23579.1	22324.5	19829.4
68°	7764.2	7806.0	8537.0	11197.9	15116.4	20201.1	24852.2	24977.6	23655.0	22191.3	19426.7
70°	4627.8	4708.4	5360.4	7710.0	11499.9	17458.2	24300.8	24587.3	23202.7	20817.5	16803.0
72.5°	1181.7	1277.8	1894.2	3450.7	6568.5	12300.6	20514.0	20998.8	20145.4	16888.2	11343.5
75°	486.3	511.1	676.8	1136.8	2447.1	5541.6	13521.1	14558.8	13965.6	10110.6	5126.6
77.5°	336.1	353.1	435.2	630.4	1059.4	1878.7	6628.9	7378.5	6647.5	3450.7	1118.2
80°	241.6	255.6	311.3	419.7	608.7	670.6	2160.6	2498.2	1984.0	757.4	277.2
82.5°	144.0	154.9	232.3	298.9	370.2	320.6	537.4	610.2	574.6	376.4	123.9
85°	71.2	83.6	156.4	213.7	199.8	134.7	164.2	182.8	226.1	229.2	66.6
87.5°	4.6	9.3	91.4	128.6	55.8	31.0	48.0	58.9	80.5	113.1	27.9
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°	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2
2.5°	3903.0	3904.5	3893.7	3889.1	3892.2	3873.6	3865.8	3868.9	3868.9	3873.6	3865.8
5°	3941.7	3941.7	3923.1	3898.4	3884.4	3848.8	3825.6	3819.4	3814.7	3811.6	3805.4
7.5°	4025.4	4016.1	3983.5	3929.3	3882.9	3805.4	3746.6	3715.6	3700.1	3693.9	3689.3
10°	4160.1	4143.1	4088.9	3988.2	3881.3	3743.5	3614.9	3523.5	3447.6	3416.7	3398.1
12.5°	4341.3	4316.5	4225.2	4057.9	3870.5	3616.5	3337.7	3069.7	2820.4	2718.2	2667.0
15°	4550.4	4514.8	4370.7	4116.7	3807.0	3329.9	2724.4	2255.1	1909.7	1779.6	1723.8
17.5°	4762.6	4716.1	4497.7	4153.9	3616.5	2736.7	1911.2	1443.5	1212.7	1150.8	1129.1
20°	4976.3	4908.2	4607.7	4126.0	3185.9	1973.2	1260.7	1054.7	988.1	969.6	963.4
22.5°	5179.2	5073.9	4706.8	4017.6	2523.0	1324.2	997.4	932.4	910.7	899.9	896.8
25°	5355.8	5208.6	4793.6	3683.1	1785.8	1000.5	898.3	876.6	848.7	828.6	830.2
27.5°	5521.5	5343.4	4846.2	3131.7	1191.0	854.9	831.7	802.3	751.2	721.7	721.7
30°	5721.3	5523.1	4884.9	2409.9	876.6	755.8	737.2	692.3	622.6	583.9	583.9
32.5°	6021.8	5795.6	4860.2	1691.3	726.4	664.4	621.1	559.1	483.2	446.1	444.5
35°	6481.8	6216.9	4683.6	1108.9	641.2	577.7	508.0	432.1	365.5	334.5	333.0
37.5°	7101.3	6780.7	4287.1	793.0	574.6	497.2	413.5	329.9	280.3	260.2	258.7
40°	7905.1	7435.8	3720.2	642.8	512.7	419.7	319.1	255.6	221.5	206.0	207.5
42.5°	8870.0	8137.4	3040.3	554.5	452.3	345.4	249.4	201.3	179.7	168.8	165.7
45°	9941.8	8829.8	2327.9	494.1	391.8	278.8	195.1	159.5	142.5	136.3	136.3
47.5°	11120.5	9503.5	1703.7	441.4	326.8	215.3	156.4	130.1	116.2	111.5	110.0
50°	12190.7	9971.2	1228.2	385.7	267.9	170.4	127.0	108.4	99.1	92.9	92.9
52.5°	13082.8	10118.4	904.5	325.2	216.8	136.3	105.3	92.9	83.6	79.0	79.0
55°	13868.0	10058.0	672.2	267.9	175.0	111.5	89.8	79.0	71.2	66.6	66.6
57.5°	14620.8	9862.8	501.8	218.4	140.9	89.8	75.9	66.6	58.9	55.8	55.8
60°	15235.6	9537.6	373.3	176.6	113.1	72.8	63.5	54.2	48.0	43.4	43.4
62.5°	15734.4	9178.2	274.1	145.6	89.8	57.3	49.6	44.9	35.6	31.0	31.0
65°	15737.5	8582.0	206.0	120.8	69.7	44.9	37.2	35.6	23.2	18.6	17.0
67.5°	14599.1	7398.7	158.0	103.8	54.2	34.1	27.9	29.4	12.4	7.7	6.2
68°	14185.5	7098.2	148.7	102.2	51.1	32.5	26.3	29.4	10.8	6.2	4.6
70°	11959.9	5647.0	119.3	99.1	44.9	24.8	21.7	29.4	9.3	4.6	3.1
72.5°	7649.6	3277.3	88.3	79.0	34.1	18.6	13.9	26.3	9.3	3.1	1.5
75°	3255.6	1016.0	60.4	55.8	20.1	13.9	9.3	17.0	6.2	1.5	0.0
77.5°	686.1	229.2	35.6	34.1	13.9	9.3	6.2	4.6	1.5	0.0	0.0
80°	176.6	66.6	18.6	17.0	7.7	4.6	3.1	0.0	0.0	0.0	0.0
82.5°	55.8	26.3	10.8	7.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	15.5	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	4.6	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)