

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: P323768

Luminaire Tested: **GAN-SA4C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19365 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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

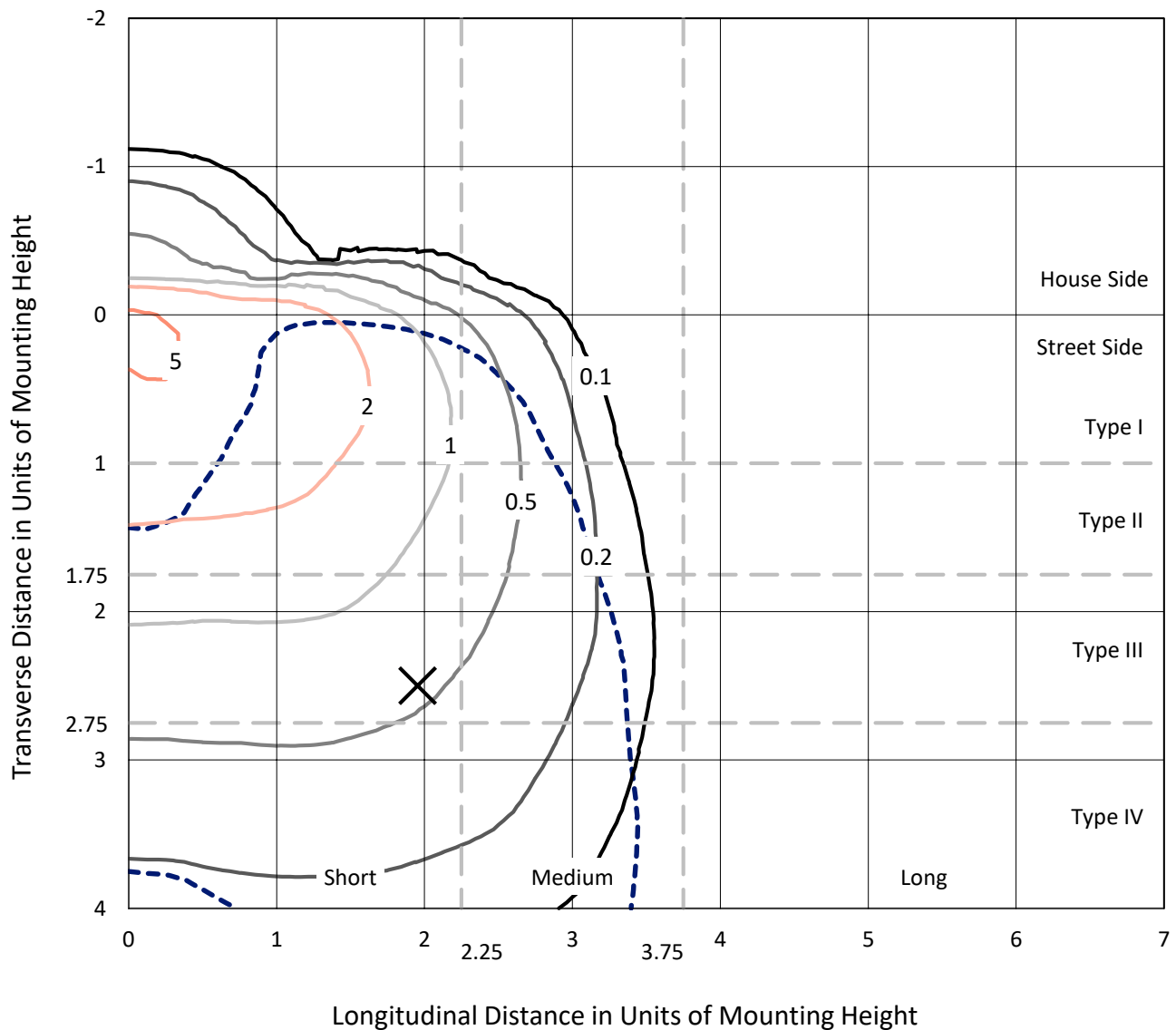


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Iso-Footcandle Lines of Horizontal Illumination

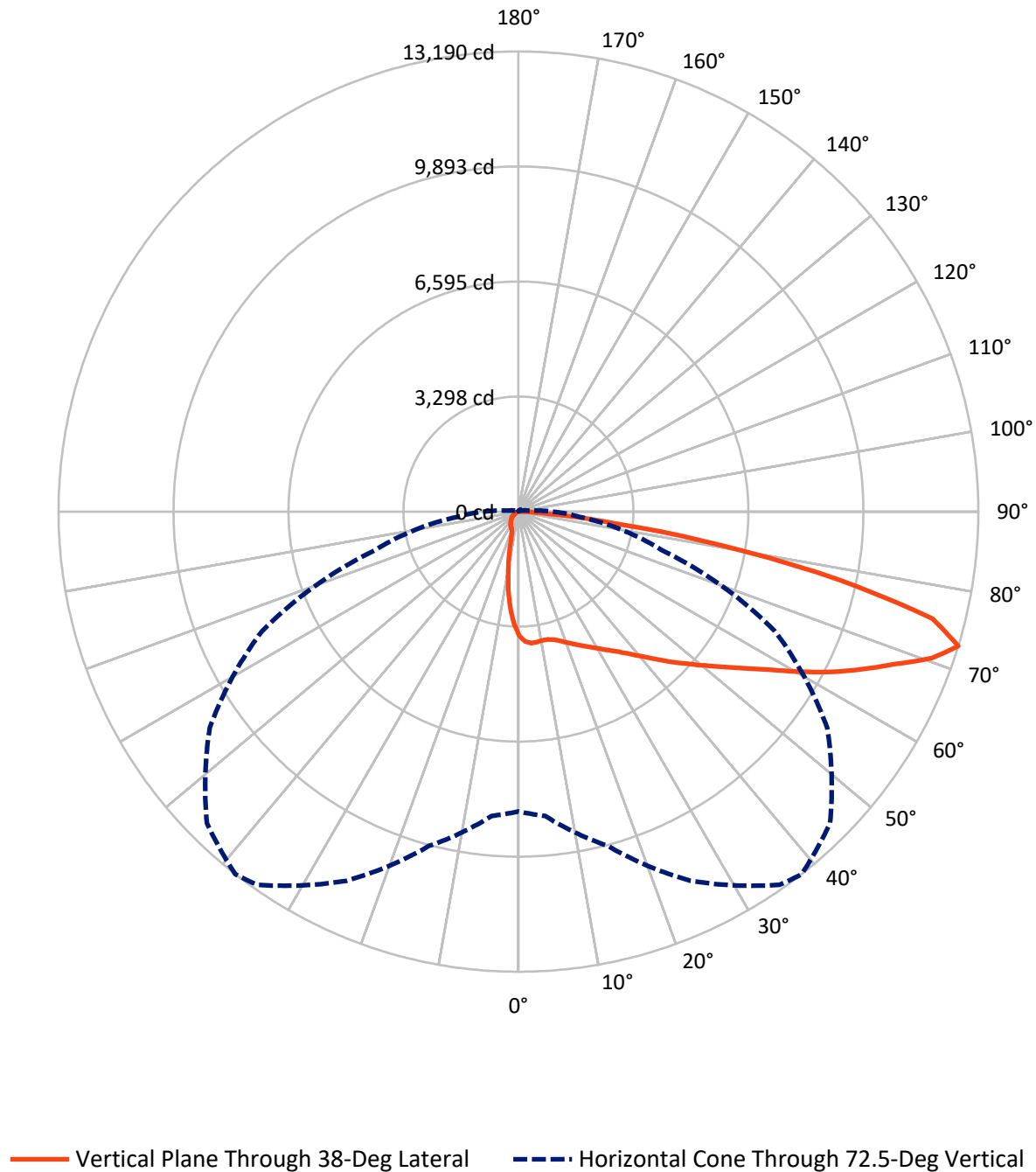
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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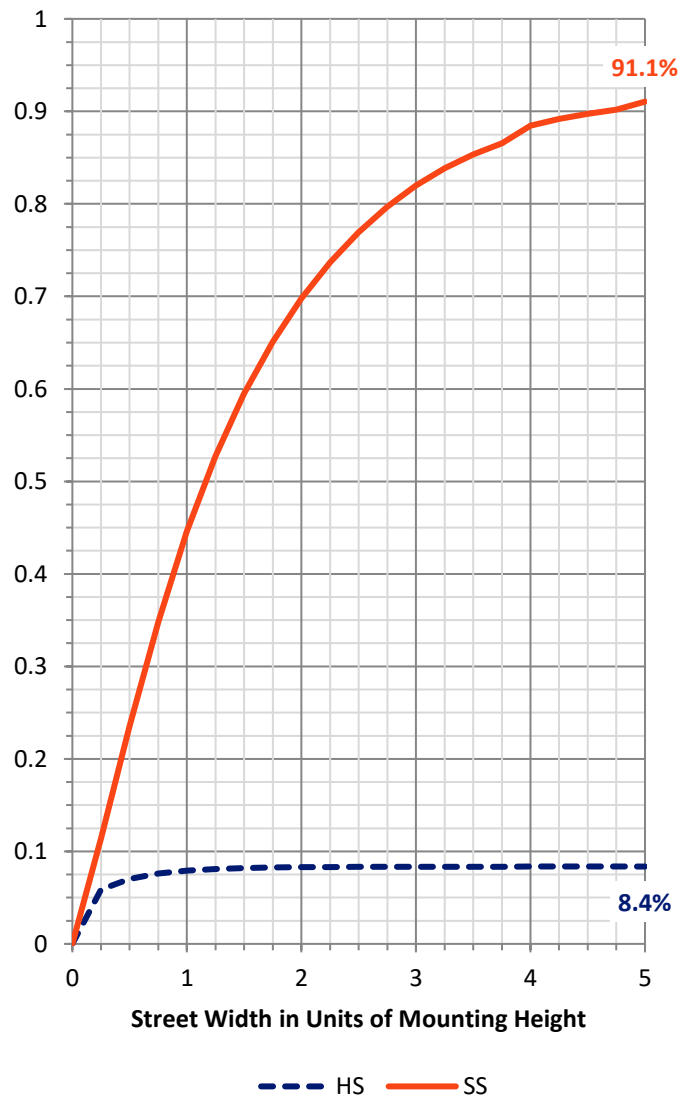
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1629.6	0.0	1629.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17735.4	0.0	17735.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	19365.0	0.0	19365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	1.6
10°-20°	742.1	3.8
20°-30°	1180.3	6.1
30°-40°	1774.4	9.2
40°-50°	2707.0	14.0
50°-60°	3825.8	19.8
60°-70°	4798.9	24.8
70°-80°	3588.2	18.5
80°-90°	444.9	2.3
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°	19365.0	100.0
0°-180°	19365.0	100.0

Coefficient of Utilization



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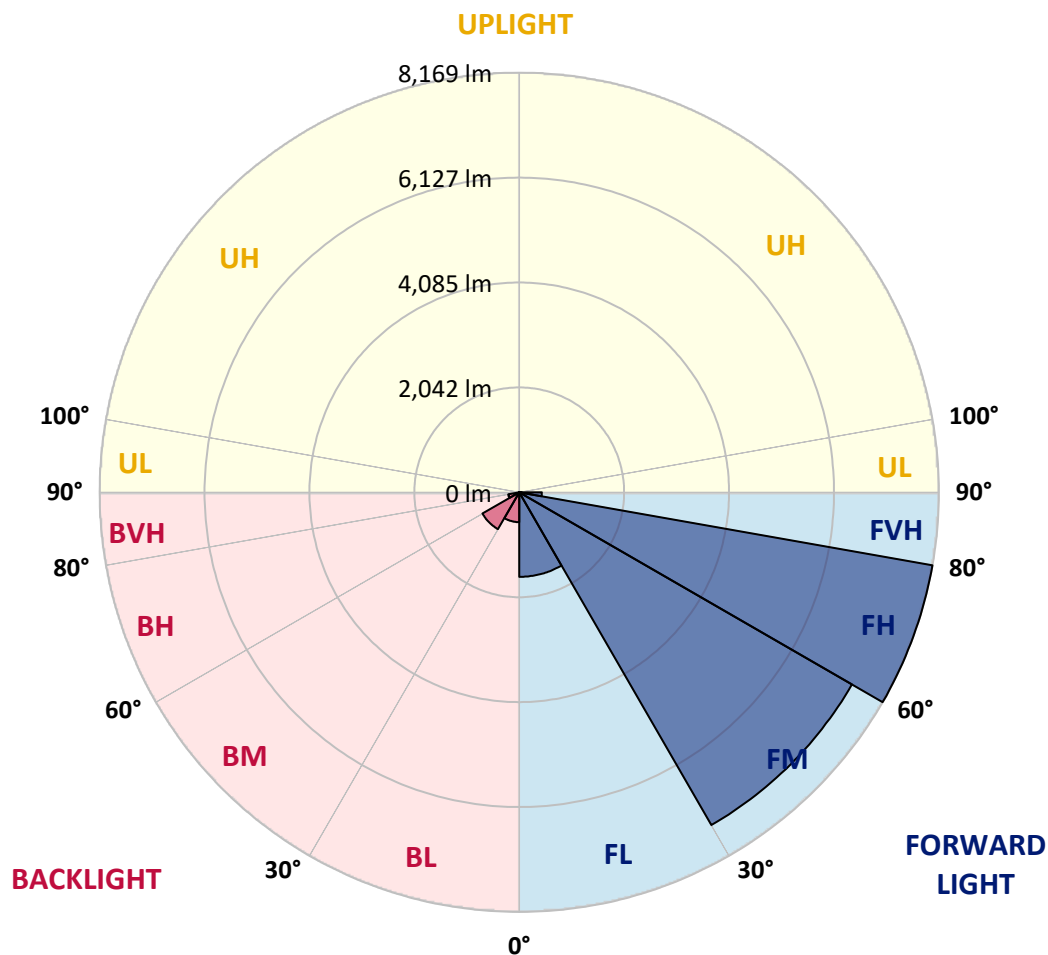
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.6	8.5			
FM	(30°-60°)	7479.6	38.6			
FH	(60°-80°)	8169.4	42.2			G4/12000
FVH	(80°-90°)	440.8	2.3			G3/500
BL	(0°-30°)	580.3	3.0	B2/1000		
BM	(30°-60°)	827.6	4.3	B1/1000		
BH	(60°-80°)	217.7	1.1	B1/500		G1/500
BVH	(80°-90°)	4.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2
2.5°	3779.9	3780.7	3771.9	3757.4	3738.9	3729.2	3713.2	3687.4	3660.1	3611.0	3557.9
5°	3857.1	3857.1	3845.9	3826.6	3796.8	3788.0	3757.4	3716.4	3660.1	3580.5	3491.2
7.5°	3849.1	3850.7	3835.4	3815.3	3785.5	3777.5	3740.5	3694.7	3624.7	3528.2	3414.0
10°	3807.3	3811.3	3799.2	3789.6	3762.2	3753.4	3718.8	3672.9	3603.0	3500.0	3368.9
12.5°	3764.6	3768.7	3772.7	3781.5	3764.6	3761.4	3734.1	3695.5	3628.7	3521.8	3373.8
15°	3737.3	3745.3	3774.3	3808.9	3812.9	3809.7	3792.0	3755.8	3688.2	3577.2	3408.4
17.5°	3737.3	3750.2	3810.5	3876.4	3899.7	3902.2	3886.9	3836.2	3755.8	3636.8	3440.5
20°	3768.7	3786.3	3880.4	3973.7	4012.3	4012.3	3982.6	3911.8	3817.7	3690.6	3462.2
22.5°	3849.1	3872.4	3990.6	4098.4	4139.4	4130.6	4090.3	3987.4	3882.1	3751.8	3489.6
25°	4007.5	4025.2	4148.3	4256.8	4281.8	4261.6	4211.0	4079.1	3964.1	3834.6	3539.4
27.5°	4211.8	4214.2	4341.3	4433.0	4417.7	4404.0	4340.5	4194.1	4082.3	3952.8	3625.5
30°	4436.2	4436.2	4548.0	4617.9	4571.3	4560.0	4496.5	4333.2	4233.5	4113.7	3747.7
32.5°	4653.3	4663.0	4753.8	4798.1	4745.8	4734.5	4672.6	4509.4	4434.6	4359.0	3938.3
35°	4863.2	4870.5	4956.5	4980.6	4930.8	4934.0	4889.8	4751.4	4723.3	4713.6	4225.5
37.5°	5066.7	5068.3	5156.0	5171.2	5146.3	5173.7	5177.7	5055.4	5107.7	5185.7	4630.0
40°	5252.5	5254.1	5340.9	5380.3	5423.0	5458.4	5489.7	5424.6	5597.5	5778.4	5111.7
42.5°	5401.3	5418.1	5528.3	5603.1	5715.7	5783.3	5868.5	5865.3	6180.6	6452.4	5694.0
45°	5532.3	5561.3	5714.9	5846.0	6039.0	6146.8	6280.3	6384.8	6836.8	7202.7	6283.5
47.5°	5705.3	5732.6	5907.9	6122.7	6380.0	6521.6	6742.7	6968.7	7558.2	7939.4	6859.3
50°	5948.9	5936.9	6109.8	6417.8	6748.3	6934.1	7249.4	7588.0	8274.0	8581.2	7197.9
52.5°	6208.7	6203.9	6331.8	6738.7	7182.6	7399.8	7816.4	8228.1	8958.4	9023.5	7353.1
55°	6530.4	6495.8	6603.6	7104.6	7698.2	7931.4	8422.0	8861.9	9503.7	9272.8	7431.1
57.5°	6867.4	6810.3	6913.2	7512.4	8279.6	8555.5	9092.7	9479.5	9866.4	9443.3	7430.3
60°	7215.6	7148.1	7270.3	8022.3	9001.8	9321.1	9819.7	9896.9	10205.0	9529.4	7375.7
62.5°	7506.7	7466.5	7648.3	8567.5	9808.5	10122.1	10369.0	10276.5	10490.5	9596.2	7247.8
65°	7814.8	7817.2	8110.7	9203.7	10665.8	10877.3	10898.2	10768.7	10729.3	9582.5	6815.1
67.5°	8231.4	8270.0	8759.7	10067.4	11499.8	11663.0	11661.4	11301.9	10903.8	9038.8	5855.6
70°	8672.1	8763.0	9507.7	11055.8	12410.2	12575.8	12490.6	11641.3	10266.9	7308.9	4144.2
72.5°	8598.1	8755.7	9923.5	11679.1	13064.0	13190.3	12636.2	10807.3	8114.7	4248.0	1764.5
75°	6633.3	6815.9	9099.1	11061.5	12378.0	12264.6	10857.2	8409.9	4434.6	1185.4	397.3
77.5°	3504.1	3601.4	6010.9	8426.8	9651.6	9414.4	7648.3	4665.4	1351.9	293.5	178.5
80°	1835.3	1857.8	2619.4	4781.2	5957.0	5958.6	4532.7	2049.2	557.3	150.4	119.8
82.5°	982.8	1002.1	1384.1	2209.2	3121.2	2829.3	1735.5	1127.5	324.1	85.2	115.0
85°	236.4	240.5	784.9	1009.3	1227.3	876.6	515.5	946.6	87.7	49.9	93.3
87.5°	90.9	92.5	291.1	436.7	312.8	202.7	241.3	353.1	11.3	19.3	14.5
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°	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2	3561.2
2.5°	3525.8	3504.9	3453.4	3388.2	3330.3	3288.5	3225.8	3184.8	3157.4	3156.6	3146.2
5°	3436.5	3393.9	3282.9	3151.0	3031.2	2923.4	2796.3	2695.8	2621.0	2608.9	2583.2
7.5°	3340.8	3270.8	3100.3	2894.4	2693.4	2489.1	2251.9	2104.7	1978.4	1918.1	1911.7
10°	3282.1	3184.0	2941.9	2644.3	2329.1	1996.9	1686.5	1471.8	1316.5	1272.3	1239.3
12.5°	3270.0	3140.5	2819.7	2409.5	1959.1	1520.0	1176.6	948.2	824.3	784.9	774.5
15°	3282.1	3120.4	2716.7	2177.1	1584.3	1078.5	789.8	657.1	610.4	599.2	598.4
17.5°	3289.3	3096.3	2600.1	1918.9	1220.8	770.5	604.8	566.2	558.9	558.1	559.7
20°	3288.5	3059.3	2461.0	1631.0	908.0	605.6	546.9	538.8	537.2	538.0	537.2
22.5°	3282.9	3015.9	2308.2	1334.2	686.0	541.3	521.9	517.1	516.3	516.3	516.3
25°	3293.3	2981.3	2140.1	1050.3	565.4	511.5	499.4	495.4	494.6	494.6	493.0
27.5°	3331.1	2962.0	1955.9	808.3	510.7	485.0	475.3	474.5	472.1	471.3	472.9
30°	3392.3	2962.0	1754.0	628.9	477.7	457.6	450.4	448.8	448.0	447.2	448.0
32.5°	3500.0	2984.5	1533.7	522.8	446.4	427.0	422.2	424.6	422.2	422.2	422.2
35°	3694.7	3052.1	1302.9	456.0	413.4	397.3	392.5	395.7	394.1	394.1	393.3
37.5°	3978.6	3177.5	1070.4	415.8	384.4	367.5	361.1	365.9	364.3	364.3	363.5
40°	4324.4	3360.1	849.3	385.2	356.3	338.6	333.0	335.4	331.3	331.3	333.0
42.5°	4751.4	3591.7	656.3	355.5	328.1	311.2	308.0	305.6	298.4	294.4	295.2
45°	5225.9	3833.0	511.5	326.5	301.6	287.9	283.1	276.7	264.6	256.6	257.4
47.5°	5649.8	4018.8	415.8	298.4	277.5	267.0	259.8	247.7	230.0	220.4	221.2
50°	5872.5	4046.9	353.9	270.2	254.9	244.5	234.0	215.5	194.6	184.2	183.4
52.5°	5929.6	3915.0	308.0	244.5	232.4	220.4	206.7	181.8	158.4	147.2	145.6
55°	5950.5	3714.0	267.0	220.4	208.3	194.6	176.9	148.8	127.1	115.8	115.0
57.5°	5881.4	3414.0	234.8	198.6	184.2	167.3	145.6	119.0	98.1	89.3	89.3
60°	5727.8	3007.8	209.9	175.3	159.2	139.9	117.4	92.5	73.2	65.9	65.9
62.5°	5421.4	2481.9	186.6	151.2	135.9	115.8	94.9	70.0	51.5	47.4	48.3
65°	4843.1	1882.7	163.3	129.5	115.8	95.7	74.0	49.9	34.6	34.6	36.2
67.5°	3949.6	1307.7	139.1	110.2	99.7	78.0	56.3	34.6	24.1	27.3	30.6
70°	2614.6	733.5	119.0	90.9	85.2	61.9	41.8	23.3	19.3	25.7	31.4
72.5°	986.8	285.5	99.7	73.2	74.0	47.4	29.8	17.7	17.7	28.1	37.0
75°	275.0	139.9	71.6	53.9	57.9	34.6	21.7	15.3	16.9	32.2	43.4
77.5°	161.7	102.9	46.6	31.4	39.4	24.1	14.5	12.1	14.5	27.3	41.8
80°	130.3	54.7	27.3	16.1	21.7	13.7	9.7	7.2	4.0	10.5	21.7
82.5°	130.3	33.0	12.9	11.3	11.3	7.2	4.8	3.2	0.8	0.0	5.6
85°	87.7	13.7	8.0	7.2	5.6	2.4	1.6	0.8	0.0	0.0	0.0
87.5°	14.5	5.6	3.2	1.6	0.8	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)