

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: P322491

Luminaire Tested: **GAN-SA7C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29712 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

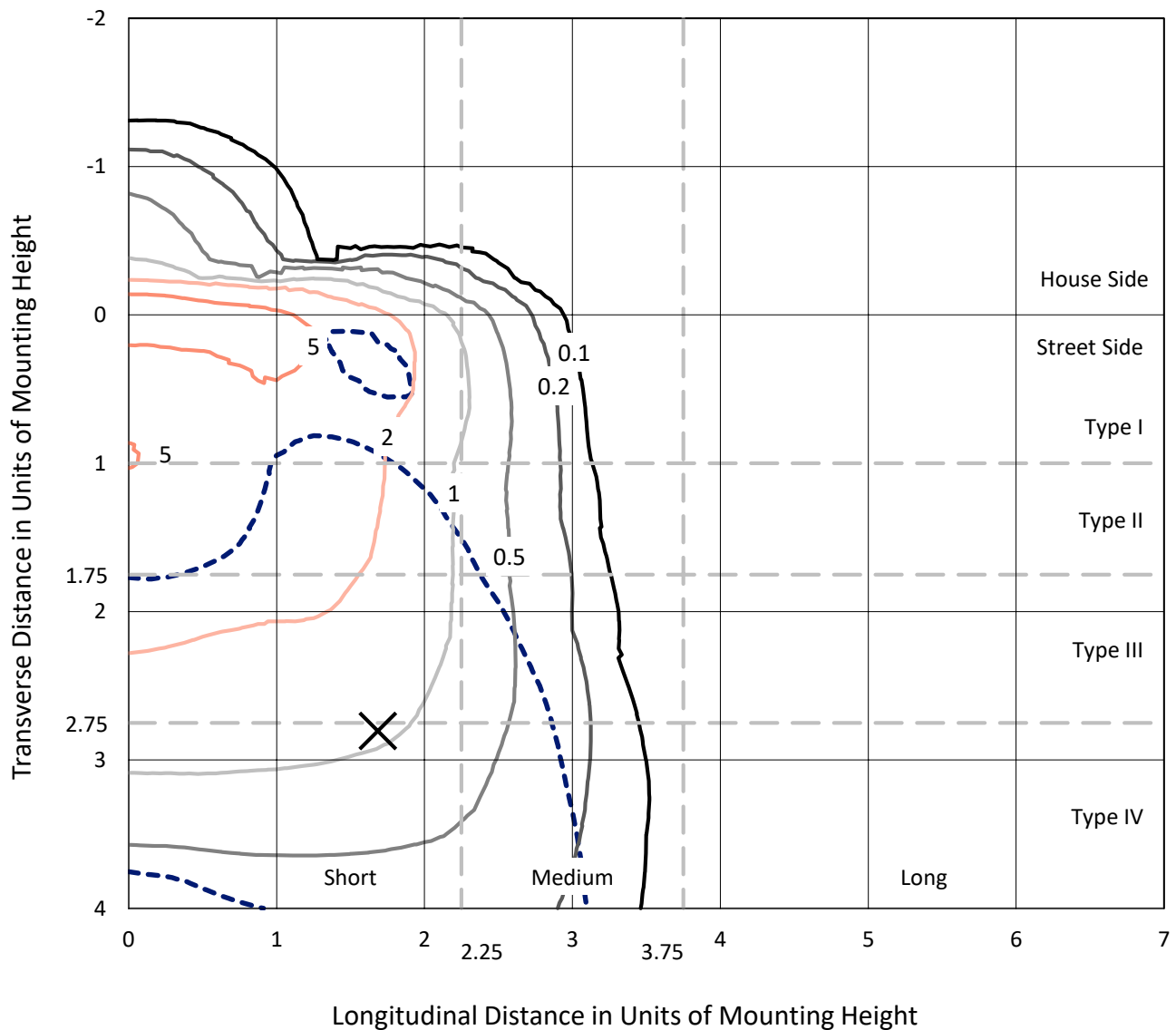
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

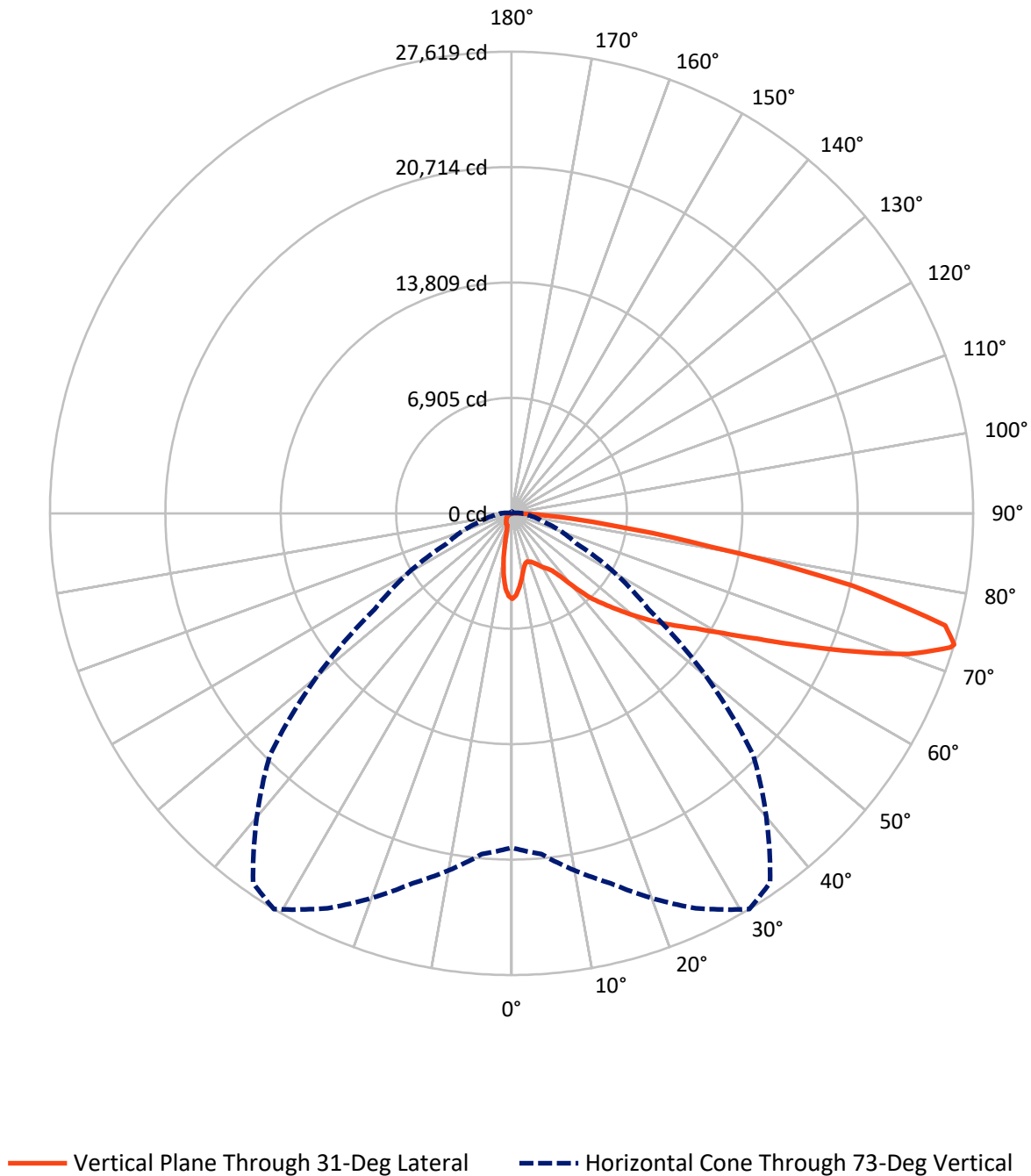
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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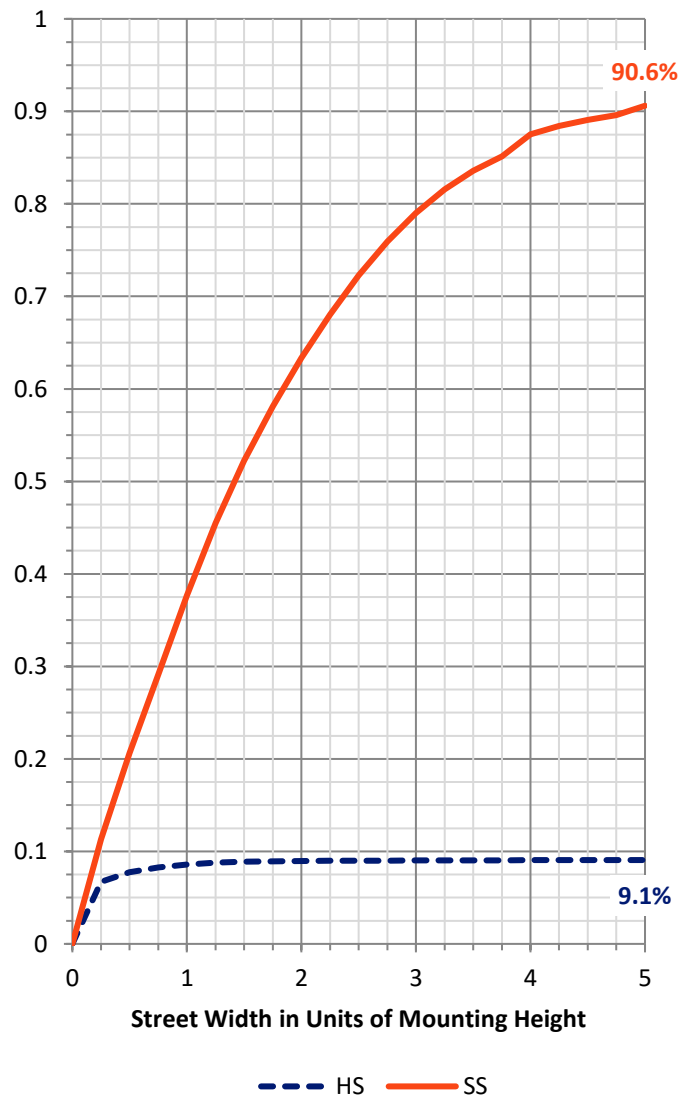
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2708.4	0.0	2708.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	27003.6	0.0	27003.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	29712.0	0.0	29712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	1.4
10°-20°	920.3	3.1
20°-30°	1378.9	4.6
30°-40°	2193.8	7.4
40°-50°	3917.6	13.2
50°-60°	6079.0	20.5
60°-70°	8081.1	27.2
70°-80°	6078.7	20.5
80°-90°	638.7	2.1
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°	29712.0	100.0
0°-180°	29712.0	100.0

Coefficient of Utilization



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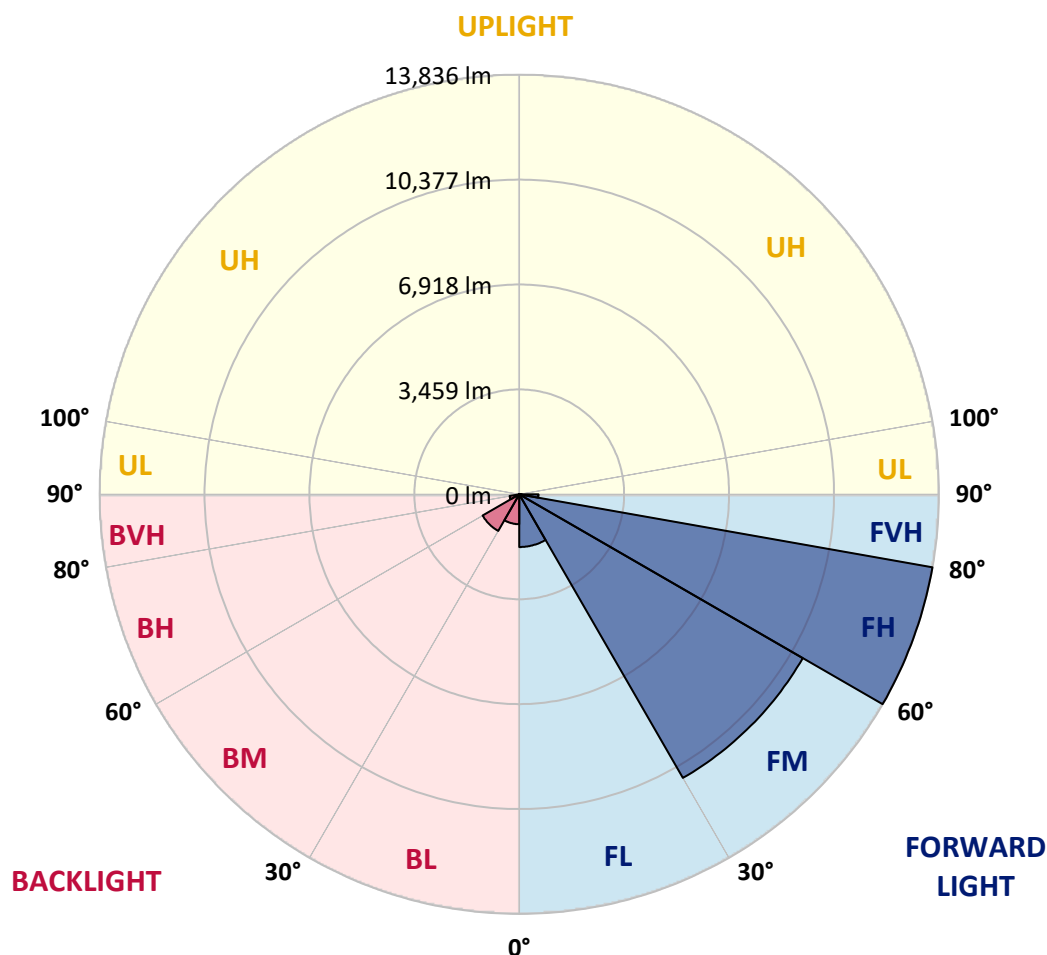
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1738.2	5.9			
FM	(30°-60°)	10796.3	36.3			
FH	(60°-80°)	13835.8	46.6			G5
FVH	(80°-90°)	633.4	2.1			G4/750
BL	(0°-30°)	984.9	3.3	B2/1000		
BM	(30°-60°)	1394.1	4.7	B2/2500		
BH	(60°-80°)	324.0	1.1	B1/500		G1/500
BVH	(80°-90°)	5.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0
2.5°	4844.5	4864.8	4886.7	4891.0	4927.4	4928.8	4981.2	5020.4	5059.7	5097.5	5110.6
5°	4347.2	4380.7	4419.9	4459.2	4536.3	4566.8	4694.7	4825.6	4950.6	5069.8	5128.0
7.5°	3816.6	3854.4	3909.6	4007.0	4092.8	4152.4	4354.5	4587.1	4819.8	5039.3	5165.8
10°	3332.4	3367.3	3425.5	3528.7	3661.0	3742.4	4014.3	4337.1	4678.7	5011.7	5222.5
12.5°	3024.2	3043.1	3075.1	3185.6	3304.8	3396.4	3716.2	4116.1	4562.4	5010.2	5314.1
15°	2967.5	2973.3	2947.1	2996.5	3089.6	3178.3	3502.5	3937.2	4473.7	5033.5	5433.3
17.5°	3057.6	3054.7	2967.5	2961.7	3035.8	3108.5	3397.8	3813.7	4411.2	5087.3	5587.4
20°	3194.3	3184.1	3032.9	3005.3	3083.8	3152.1	3390.6	3767.1	4388.0	5177.4	5775.0
22.5°	3376.0	3358.6	3121.6	3092.5	3176.8	3248.1	3480.7	3812.2	4408.3	5298.1	5993.1
25°	3601.4	3575.2	3274.2	3242.3	3328.0	3399.3	3642.1	3941.6	4469.4	5445.0	6269.3
27.5°	3855.8	3818.0	3518.5	3435.6	3533.0	3607.2	3857.3	4139.3	4565.3	5600.5	6608.1
30°	4095.7	4046.3	3775.9	3639.2	3758.4	3841.3	4089.9	4374.9	4719.4	5840.4	7071.9
32.5°	4337.1	4281.8	4005.6	3842.7	3950.3	4040.5	4329.8	4699.1	5008.8	6206.8	7688.4
35°	4892.5	4834.3	4495.5	4226.6	4225.1	4276.0	4665.7	5142.5	5391.2	6717.1	8424.1
37.5°	5827.3	5793.9	5471.1	4960.8	4824.1	4767.4	5123.6	5671.8	5940.7	7419.4	9254.3
40°	6850.9	6821.8	6459.8	5997.5	5789.5	5650.0	5780.8	6408.9	6717.1	8277.2	10101.9
42.5°	8006.8	7868.7	7223.1	7085.0	6898.9	6792.8	6675.0	7317.6	7670.9	9210.6	10942.3
45°	9056.5	8823.9	7986.4	7777.1	7734.9	7761.1	7826.5	8538.9	8743.9	10320.0	11779.7
47.5°	9681.7	9498.5	8855.9	8655.2	8643.6	8816.6	9311.0	9918.7	9812.6	11286.8	12516.9
50°	10276.4	10110.6	9577.0	9626.5	9680.3	9915.8	10996.1	11337.7	10788.1	12163.6	13192.9
52.5°	10757.6	10504.6	10225.5	10503.2	10767.8	11147.3	12735.0	12611.4	11480.2	12861.4	13771.6
55°	11035.3	10920.5	11055.7	11334.8	11832.1	12448.5	14376.4	13671.3	11986.2	13498.3	14156.9
57.5°	12053.1	11827.7	12096.7	12338.0	12986.5	13848.7	15782.4	14460.8	12351.1	13892.3	14245.6
60°	13284.5	13102.8	13261.3	13662.6	14537.8	15551.2	17096.7	15104.9	12541.6	14145.3	14015.9
62.5°	15244.4	15004.5	14905.7	15354.9	16515.2	17621.6	18094.1	15551.2	12499.4	14033.3	13227.8
65°	17870.2	17621.6	17179.6	17586.7	19062.4	19843.2	19209.3	15645.7	12208.6	13127.5	11236.0
67.5°	20560.0	20379.7	20001.7	20687.9	22019.7	22271.3	20388.4	15416.0	11272.3	10644.2	7938.4
70°	22336.7	22259.6	22505.3	24023.3	25211.1	25138.4	21470.2	14181.6	8786.1	6545.6	3927.1
72.5°	21055.8	21425.1	23239.6	25991.9	27442.9	26849.7	20914.8	10889.9	5021.9	2518.2	1135.5
73°	19994.4	20466.9	22909.5	26066.0	27618.8	26968.9	20448.0	9995.8	4280.4	1987.5	860.7
75°	13909.7	14489.8	18966.5	24276.2	26795.9	25695.3	17044.4	6118.1	1983.2	881.1	347.5
77.5°	6753.5	7182.4	10443.6	17540.2	20839.1	20075.8	10610.8	2279.8	895.6	551.0	159.9
80°	2521.1	2803.2	4533.3	8927.1	12042.9	12358.4	4667.1	862.2	596.1	443.4	81.4
82.5°	660.1	735.7	1672.0	3980.9	6171.9	6459.8	1471.4	434.7	436.2	364.9	49.4
85°	210.8	241.4	522.0	1786.9	2907.9	2553.1	383.8	210.8	317.0	271.9	27.6
87.5°	26.2	33.4	165.7	420.2	641.2	356.2	59.6	62.5	135.2	151.2	16.0
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°	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0	5112.0
2.5°	5123.6	5116.4	5117.8	5080.0	5055.3	5005.9	4955.0	4931.7	4907.0	4896.8	4907.0
5°	5149.8	5136.7	5098.9	4982.6	4859.0	4699.1	4549.3	4435.9	4293.4	4254.2	4294.9
7.5°	5190.5	5164.4	5053.9	4816.9	4542.1	4236.7	3893.6	3643.5	3438.5	3306.2	3354.2
10°	5250.1	5200.7	4978.2	4575.5	4084.1	3543.2	3056.2	2676.7	2407.7	2297.2	2292.8
12.5°	5350.5	5257.4	4885.2	4261.5	3524.3	2803.2	2164.9	1753.4	1535.3	1394.3	1391.4
15°	5461.0	5324.3	4767.4	3884.9	2873.0	2007.9	1394.3	1081.7	940.7	895.6	889.8
17.5°	5596.2	5401.3	4614.8	3421.1	2191.1	1330.3	910.2	820.0	814.2	809.8	809.8
20°	5766.3	5492.9	4418.5	2890.4	1554.2	888.3	773.5	779.3	782.2	776.4	777.9
22.5°	5964.0	5586.0	4184.4	2320.5	1051.2	743.0	740.0	747.3	750.2	747.3	748.8
25°	6193.7	5693.6	3899.4	1722.9	759.0	705.2	712.4	722.6	729.9	729.9	729.9
27.5°	6478.7	5824.4	3556.3	1202.4	655.7	665.9	686.3	705.2	715.3	718.2	718.2
30°	6849.5	5987.3	3144.8	824.4	596.1	613.6	651.4	687.7	706.6	709.5	711.0
32.5°	7317.6	6170.5	2668.0	609.2	545.2	558.3	599.0	660.1	696.4	702.2	702.2
35°	7854.1	6382.7	2154.7	530.7	508.9	513.2	545.2	615.0	679.0	695.0	696.4
37.5°	8441.5	6592.1	1638.6	495.8	478.3	478.3	501.6	561.2	636.8	686.3	692.1
40°	8989.6	6718.6	1148.6	468.2	450.7	450.7	471.1	514.7	585.9	660.1	676.1
42.5°	9495.6	6762.2	799.7	442.0	424.5	428.9	446.4	481.3	535.0	609.2	623.7
45°	10016.1	6754.9	583.0	411.5	398.4	411.5	424.5	450.7	490.0	532.1	535.0
47.5°	10408.7	6693.9	462.3	382.4	373.7	391.1	402.7	420.2	442.0	439.1	439.1
50°	10776.5	6545.6	372.2	343.1	348.9	369.3	375.1	380.9	382.4	354.8	351.9
52.5°	11055.7	6314.4	298.1	301.0	324.2	344.6	338.8	330.0	315.5	282.1	276.2
55°	11148.7	5869.5	234.1	248.6	287.9	314.0	292.2	273.3	245.7	218.1	212.3
57.5°	10980.1	5295.2	190.5	193.4	242.8	264.6	239.9	218.1	187.6	164.3	159.9
60°	10622.4	4656.9	157.0	145.4	187.6	206.5	190.5	168.7	141.0	123.6	122.1
62.5°	9912.9	3976.5	129.4	113.4	142.5	158.5	148.3	132.3	109.0	97.4	96.0
65°	8421.2	3181.2	104.7	91.6	110.5	123.6	114.9	103.2	85.8	77.1	75.6
67.5°	5878.2	2150.4	85.8	75.6	87.2	97.4	90.1	84.3	68.3	66.9	68.3
70°	2835.2	1036.7	71.2	61.1	68.3	75.6	72.7	68.3	65.4	75.6	87.2
72.5°	812.7	347.5	56.7	50.9	55.2	59.6	62.5	61.1	71.2	91.6	106.1
73°	625.2	280.6	53.8	48.0	52.3	58.2	61.1	59.6	72.7	93.1	106.1
75°	267.5	135.2	40.7	39.3	43.6	50.9	53.8	53.8	72.7	94.5	101.8
77.5°	120.7	72.7	26.2	30.5	37.8	40.7	45.1	45.1	58.2	72.7	72.7
80°	68.3	39.3	20.4	23.3	27.6	27.6	27.6	24.7	26.2	29.1	32.0
82.5°	43.6	26.2	16.0	18.9	17.4	14.5	11.6	11.6	10.2	11.6	14.5
85°	24.7	14.5	14.5	11.6	7.3	5.8	7.3	5.8	1.5	0.0	1.5
87.5°	14.5	8.7	4.4	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)