

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: P321222

Luminaire Tested: **GAN-SA8D-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41975 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

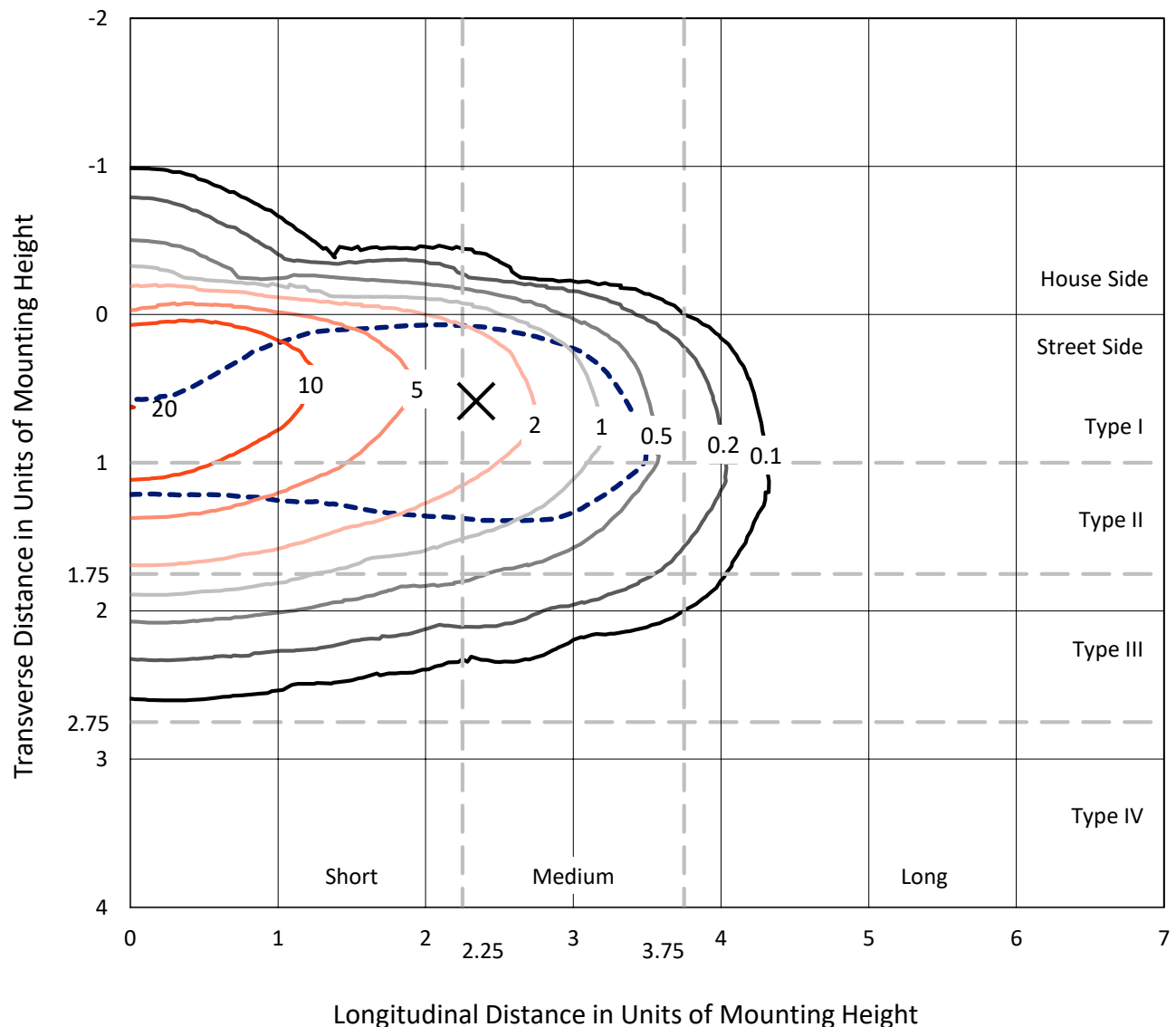
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

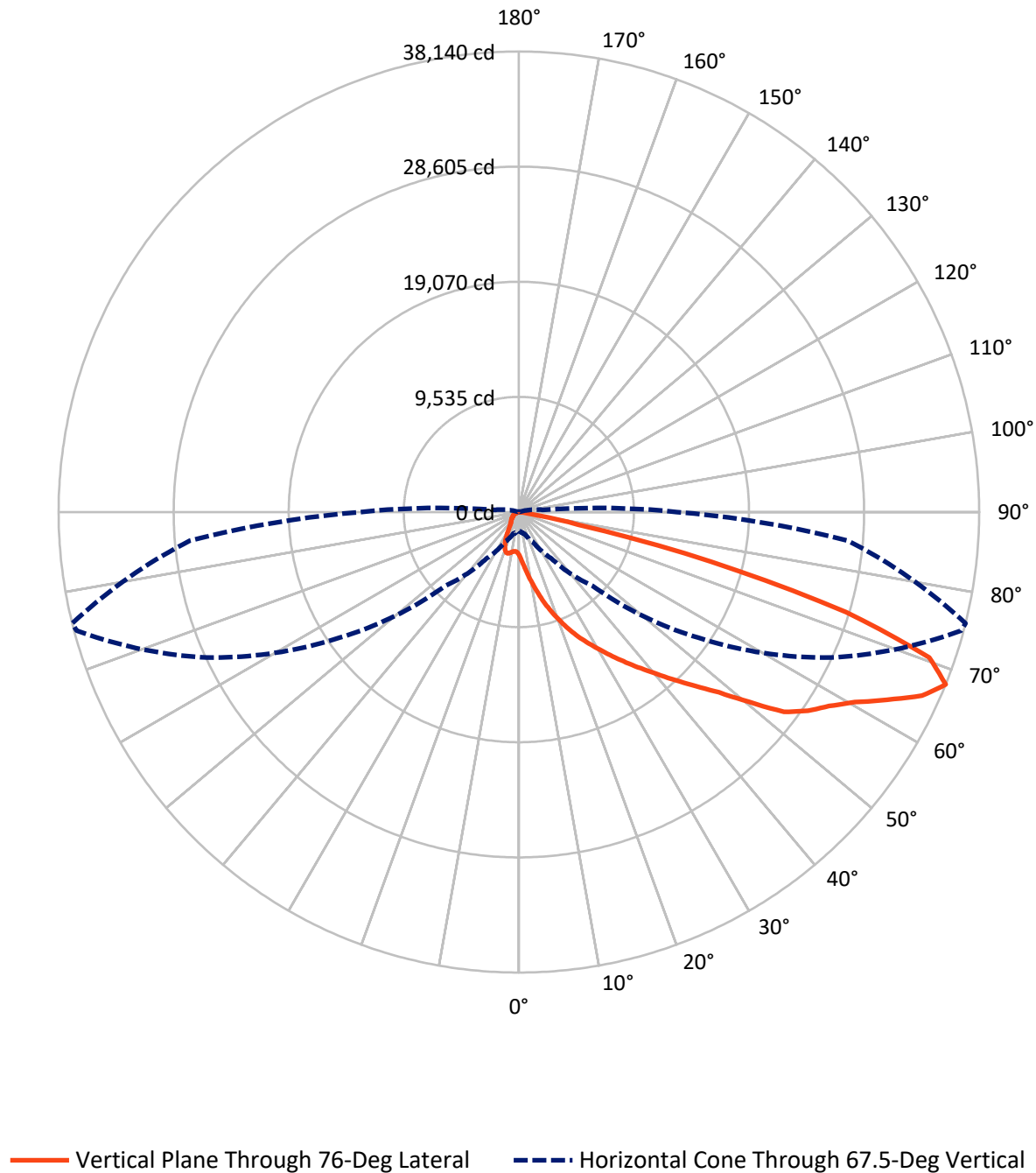
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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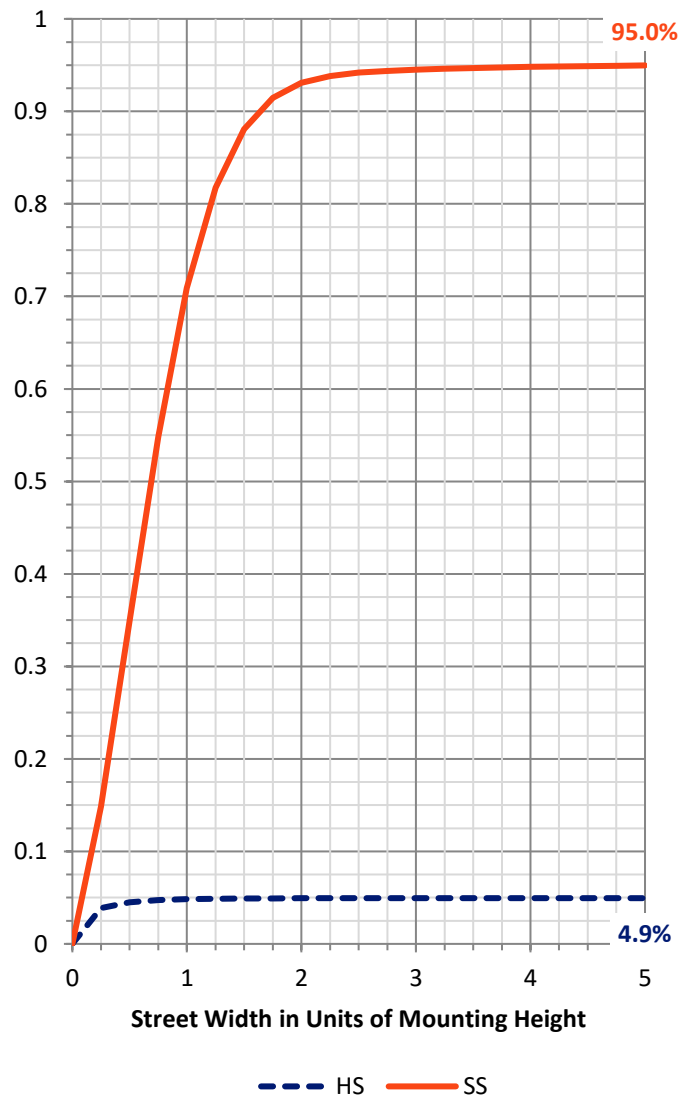
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2084.4	0.0	2084.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39890.6	0.0	39890.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	41975.0	0.0	41975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.1
10°-20°	1755.2	4.2
20°-30°	3571.2	8.5
30°-40°	6198.5	14.8
40°-50°	8757.7	20.9
50°-60°	9931.6	23.7
60°-70°	8237.4	19.6
70°-80°	2983.8	7.1
80°-90°	96.8	0.2
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°	41975.0	100.0
0°-180°	41975.0	100.0

Coefficient of Utilization



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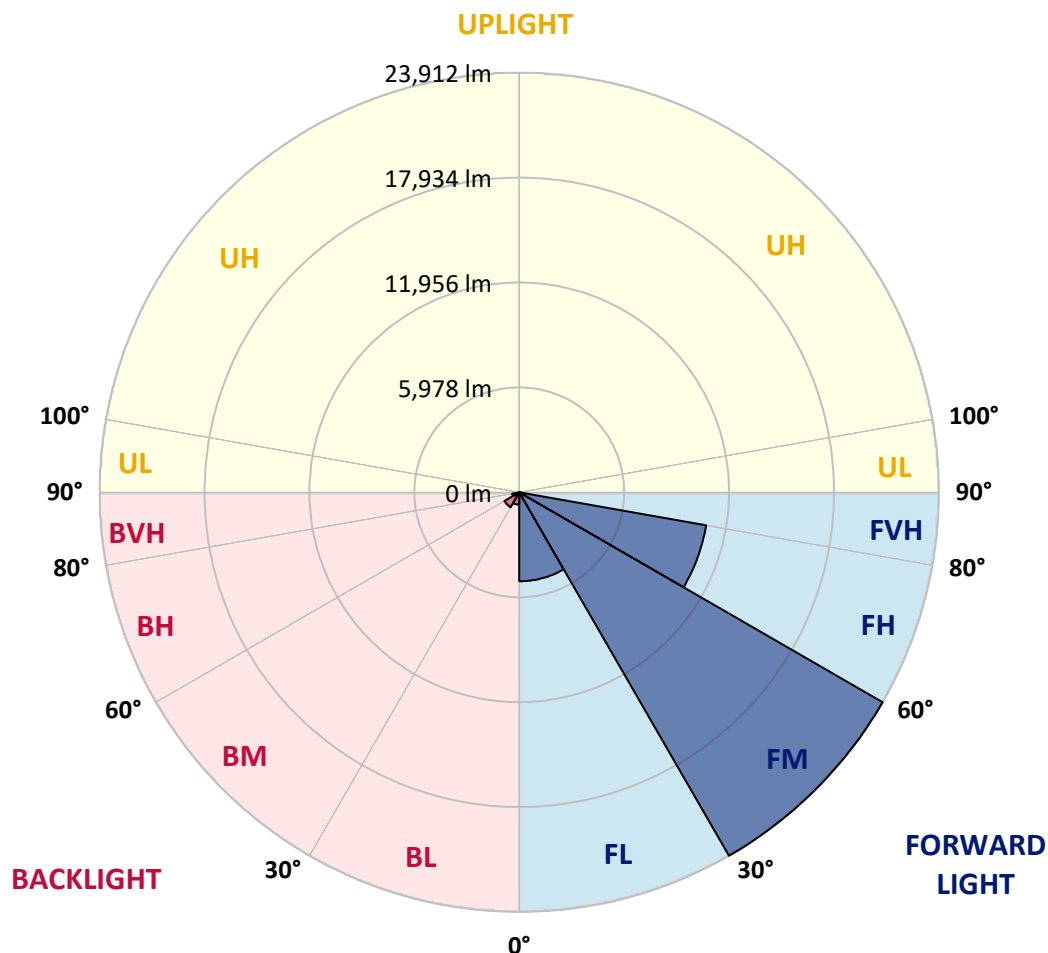
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5066.2	12.1			
FM	(30°-60°)	23912.3	57.0			
FH	(60°-80°)	10818.4	25.8			G4/12000
FVH	(80°-90°)	93.7	0.2			G1/100
BL	(0°-30°)	703.0	1.7	B2/1000		
BM	(30°-60°)	975.6	2.3	B1/1000		
BH	(60°-80°)	402.8	1.0	B1/500		G1/500
BVH	(80°-90°)	3.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7
2.5°	5315.3	5195.7	5223.3	5146.1	5006.3	4719.4	4474.8	4243.0	3972.7	3963.5	3740.9
5°	7167.4	7066.2	7053.3	6897.0	6643.2	6155.8	5681.3	5140.6	4537.3	4493.2	4020.5
7.5°	8848.4	8767.5	8738.1	8552.3	8079.6	7605.1	6987.1	6192.6	5249.1	5168.2	4397.5
10°	10139.5	10100.9	10108.3	9975.8	9571.2	9129.8	8318.7	7305.3	6056.5	5931.4	4850.0
12.5°	11118.0	11127.2	11193.4	11112.5	10886.2	10558.9	9692.6	8491.6	6950.3	6779.3	5366.8
15°	11837.1	11883.1	12004.5	12105.6	12089.1	11805.8	11011.3	9696.3	7899.4	7709.9	5942.5
17.5°	12302.4	12353.9	12530.5	12754.9	12960.9	12894.6	12284.0	10858.7	8859.4	8640.6	6558.6
20°	12710.7	12771.4	12960.9	13257.0	13641.4	13724.1	13323.2	11986.1	9817.7	9551.0	7195.0
22.5°	13595.4	13593.5	13709.4	13882.3	14248.3	14461.6	14207.8	13032.6	10764.9	10487.1	7844.2
25°	15195.5	15134.8	15094.3	14958.2	15039.2	15171.6	15030.0	14011.0	11717.6	11436.2	8502.6
27.5°	17097.2	17134.0	16806.6	16440.6	16157.4	16021.3	15789.6	14917.8	12633.5	12324.5	9146.4
30°	19103.8	19114.8	18728.6	18261.4	17638.0	17121.1	16720.2	15784.0	13575.2	13238.6	9771.7
32.5°	20913.6	20841.8	20459.3	19822.9	19035.7	18454.6	17621.4	16751.5	14572.0	14246.5	10466.9
35°	22348.1	22263.5	21798.2	21218.9	20402.3	19817.4	18815.0	17717.0	15620.3	15302.2	11164.0
37.5°	23396.5	23297.2	22819.0	22223.1	21518.7	21178.4	20200.0	18767.2	16764.3	16422.2	11897.8
40°	23760.7	23674.2	23374.4	22938.5	22372.1	22294.8	21669.5	19975.6	18009.5	17645.3	12729.1
42.5°	23543.6	23459.0	23352.4	23205.2	22969.8	23043.4	23056.2	21353.1	19392.5	19033.9	13646.9
45°	22682.9	22607.5	22717.8	22933.0	23225.4	23589.6	24321.6	22833.7	20937.5	20554.9	14708.1
47.5°	21415.7	21360.5	21665.8	22202.9	23058.1	24062.3	25478.5	24389.7	22671.8	22316.9	16032.3
50°	19613.3	19604.1	20214.7	21195.0	22510.0	24290.3	26674.0	26159.0	25081.2	24707.8	17873.4
52.5°	16806.6	16825.0	18026.0	19594.9	21548.1	24135.9	27442.7	28432.2	27884.1	27496.1	19468.0
55°	14134.3	14244.6	15096.2	17358.4	20073.1	23562.0	27707.6	29493.4	29430.9	29063.1	20354.5
57.5°	11517.1	11717.6	12537.8	14651.1	17919.3	22239.6	27562.3	29953.2	30582.3	30300.9	21524.2
60°	8681.0	8773.0	9718.3	11693.6	15155.0	19826.6	26508.4	30203.4	32156.6	31961.7	23221.8
62.5°	5523.1	5753.0	6591.7	8497.1	11800.3	16475.6	24731.8	30199.7	34126.4	34233.1	25412.3
65°	2909.6	3178.1	3623.2	5265.6	8109.0	12732.8	22059.4	29916.5	36543.1	36692.1	27124.6
67.5°	1568.8	1646.1	1881.5	2733.1	4702.8	8625.9	18132.7	28518.7	37942.7	38139.5	27363.7
70°	1147.7	1190.0	1278.2	1511.8	2367.1	5010.0	13231.2	25349.7	36138.5	36064.9	24312.4
72.5°	881.0	947.2	1013.4	1107.2	1361.0	2674.2	8237.8	19850.5	28835.0	28349.5	18173.2
75°	695.2	706.3	800.1	884.7	1020.8	1522.9	3658.2	11561.2	17599.3	16449.8	9424.1
77.5°	555.4	562.8	618.0	691.5	820.3	1000.5	1132.9	4548.3	5618.8	5013.7	2045.2
80°	329.2	347.6	459.8	533.4	680.5	630.8	413.8	987.7	877.3	794.5	343.9
82.5°	183.9	198.6	259.3	421.2	474.5	301.6	206.0	266.7	206.0	200.5	97.5
85°	0.0	9.2	167.4	261.2	193.1	66.2	86.4	88.3	60.7	57.0	38.6
87.5°	0.0	0.0	51.5	49.7	7.4	11.0	20.2	29.4	23.9	23.9	20.2
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°	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7	3560.7
2.5°	3630.6	3531.3	3343.7	3159.7	3005.3	2878.4	2764.3	2718.3	2681.6	2676.0	2646.6
5°	3792.4	3592.0	3233.3	2939.0	2742.3	2602.5	2482.9	2409.4	2352.3	2330.3	2310.0
7.5°	4037.0	3733.6	3218.6	2880.2	2644.8	2409.4	2188.7	1949.6	1800.6	1743.6	1710.5
10°	4335.0	3921.2	3273.8	2863.6	2451.7	1955.1	1589.1	1285.6	1162.4	1121.9	1110.9
12.5°	4682.6	4154.8	3369.4	2760.6	2039.7	1388.6	1096.2	993.2	965.6	952.7	952.7
15°	5081.7	4410.4	3437.5	2462.7	1508.1	1050.2	949.0	901.2	871.8	855.2	857.1
17.5°	5490.0	4660.5	3404.4	2030.5	1112.7	934.3	858.9	807.4	766.9	750.4	746.7
20°	5902.0	4892.3	3220.4	1511.8	941.7	847.9	763.3	706.3	665.8	649.2	645.6
22.5°	6328.7	5089.1	2896.7	1109.0	846.0	752.2	669.5	612.5	573.8	559.1	551.8
25°	6744.4	5249.1	2444.3	897.5	755.9	662.1	583.0	529.7	494.7	480.0	478.2
27.5°	7132.4	5350.2	1920.1	792.7	676.8	581.2	509.5	461.6	432.2	421.2	419.3
30°	7481.9	5359.4	1419.9	715.4	606.9	511.3	445.1	402.8	377.0	366.0	362.3
32.5°	7835.0	5282.2	1033.6	645.6	542.6	450.6	386.2	353.1	334.7	325.5	325.5
35°	8167.9	5103.8	805.6	584.9	480.0	391.8	340.3	316.3	305.3	296.1	296.1
37.5°	8493.4	4848.1	684.2	531.5	421.2	342.1	299.8	285.1	275.9	266.7	266.7
40°	8824.5	4526.3	621.7	481.9	373.4	303.5	266.7	253.8	244.6	237.3	235.4
42.5°	9231.0	4154.8	581.2	435.9	331.1	268.5	235.4	220.7	213.3	206.0	202.3
45°	9701.8	3834.7	548.1	389.9	296.1	239.1	204.2	189.4	178.4	169.2	167.4
47.5°	10380.5	3603.0	503.9	340.3	263.0	207.8	176.6	160.0	143.5	134.3	132.4
50°	11246.7	3411.7	446.9	296.1	229.9	176.6	147.1	126.9	112.2	103.0	103.0
52.5°	11677.1	3161.6	395.4	257.5	193.1	149.0	119.5	95.6	88.3	79.1	79.1
55°	11850.0	2970.3	343.9	218.9	160.0	123.2	93.8	73.6	68.1	62.5	60.7
57.5°	12335.5	2915.1	299.8	185.8	132.4	97.5	71.7	55.2	51.5	44.1	44.1
60°	13117.2	2942.7	259.3	158.2	106.7	75.4	53.3	42.3	38.6	31.3	31.3
62.5°	13961.4	2907.8	218.9	136.1	82.8	55.2	36.8	31.3	31.3	18.4	16.6
65°	14123.2	2589.6	187.6	112.2	64.4	40.5	23.9	20.2	27.6	3.7	0.0
67.5°	13108.0	2008.4	161.8	86.4	47.8	31.3	18.4	9.2	23.9	0.0	0.0
70°	10481.6	1276.4	130.6	62.5	36.8	25.7	14.7	3.7	18.4	0.0	0.0
72.5°	7412.0	741.2	103.0	44.1	31.3	20.2	11.0	0.0	11.0	0.0	0.0
75°	3748.3	395.4	64.4	33.1	23.9	14.7	7.4	0.0	1.8	0.0	0.0
77.5°	811.1	183.9	40.5	23.9	16.6	9.2	3.7	0.0	0.0	0.0	0.0
80°	176.6	80.9	25.7	14.7	9.2	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	64.4	42.3	12.9	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.9	22.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.4	7.4	1.8	1.8	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)