

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: P322810

Luminaire Tested: **GAN-SA6C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25641 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

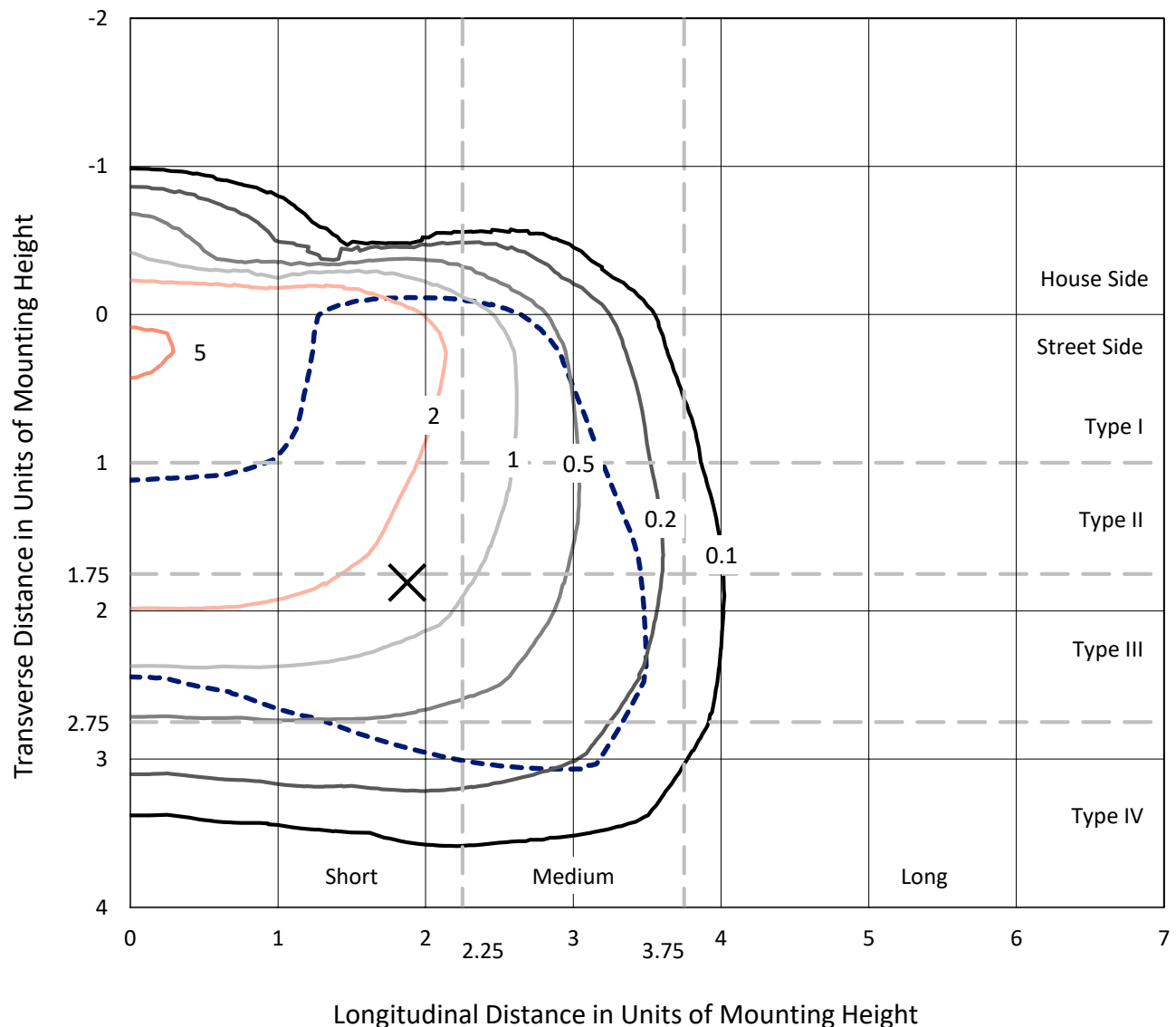
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

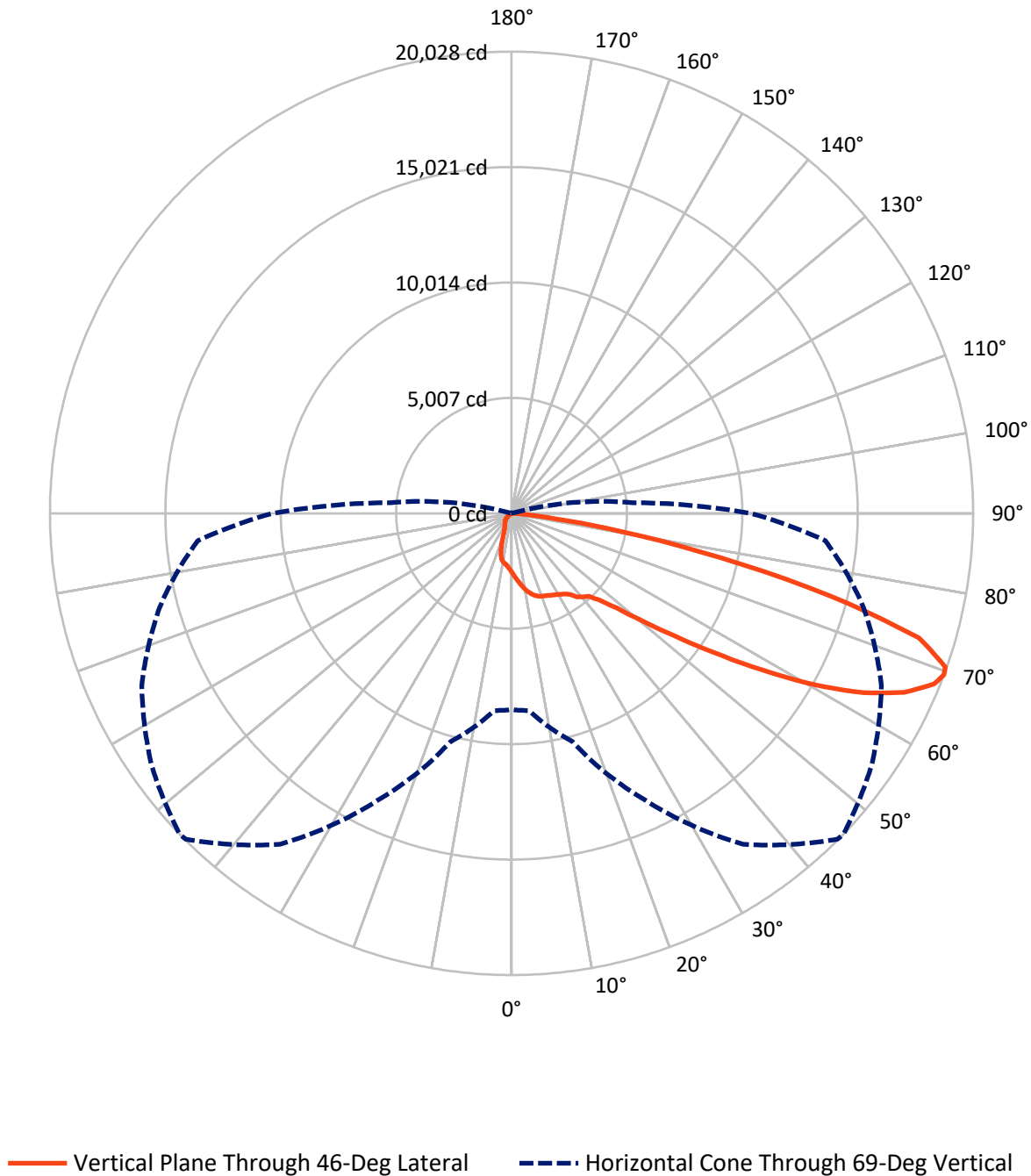
✕ Max cd
 - - - 1/2 Max cd



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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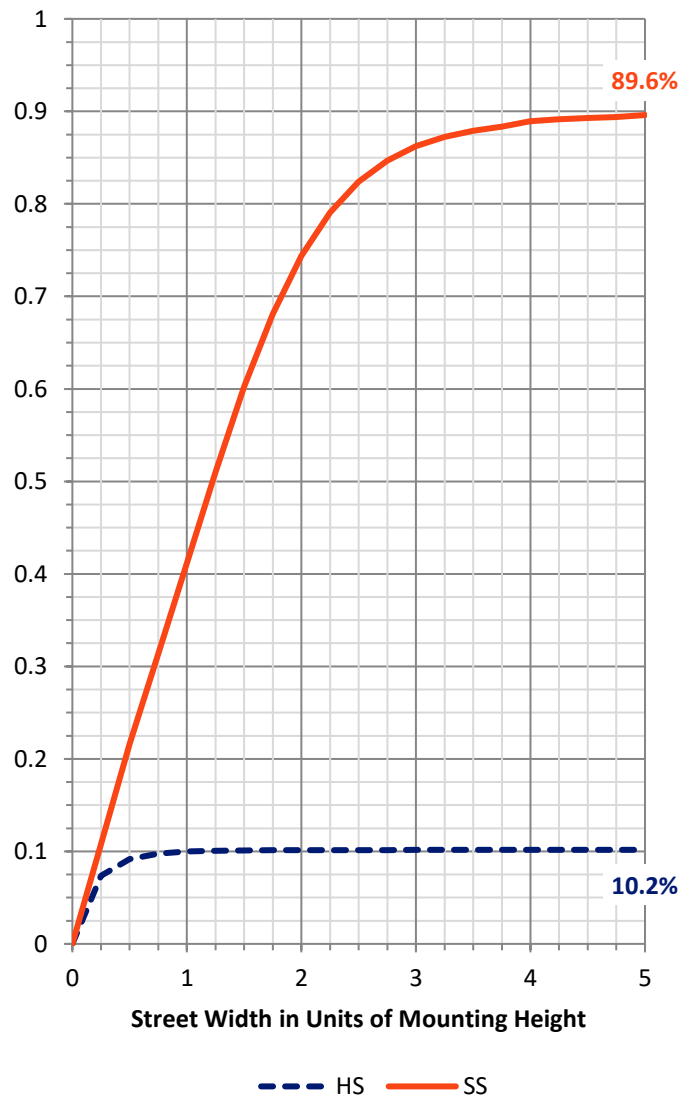
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.4	0.0	2631.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23009.5	0.0	23009.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	25641.0	0.0	25641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	1.0
10°-20°	775.8	3.0
20°-30°	1220.1	4.8
30°-40°	1749.6	6.8
40°-50°	3023.9	11.8
50°-60°	5974.0	23.3
60°-70°	8349.2	32.6
70°-80°	4033.6	15.7
80°-90°	259.3	1.0
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°	25641.0	100.0
0°-180°	25641.0	100.0

Coefficient of Utilization



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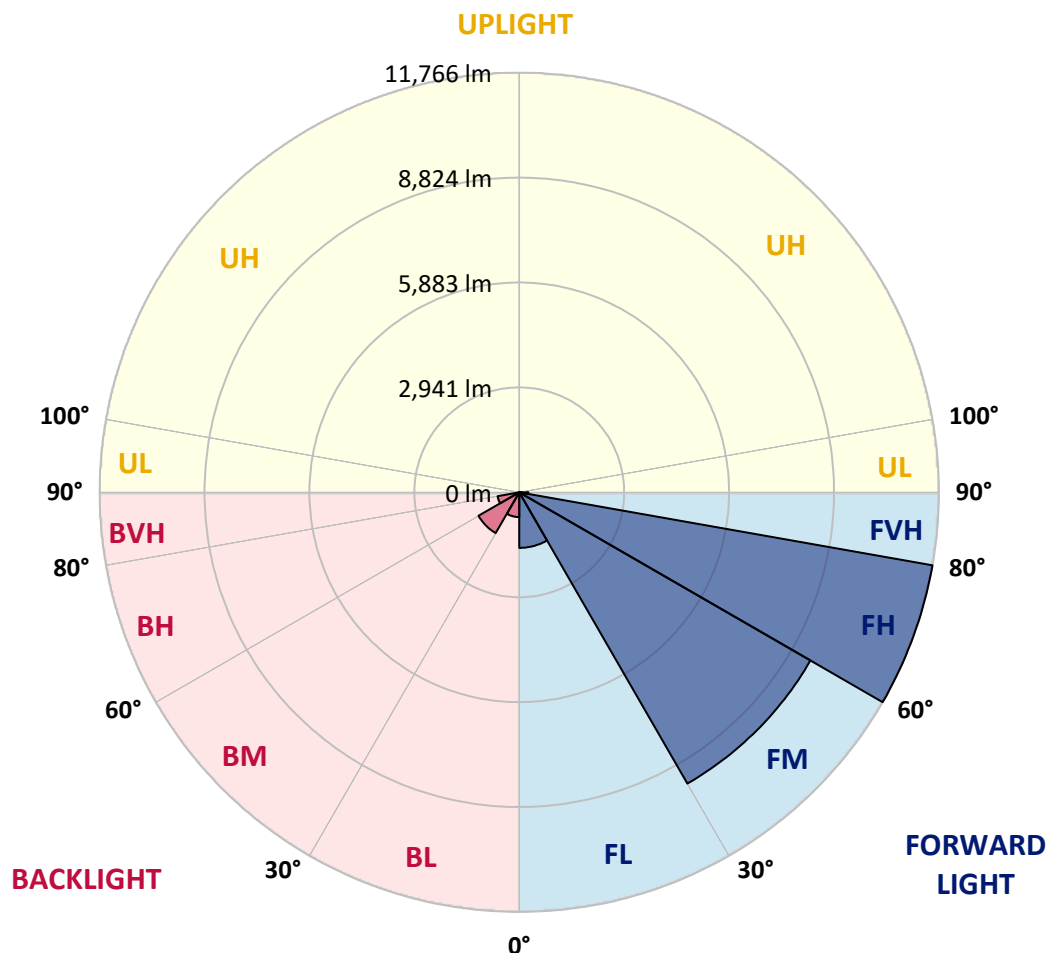
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.0	6.1			
FM	(30°-60°)	9428.8	36.8			
FH	(60°-80°)	11765.7	45.9			G4/12000
FVH	(80°-90°)	257.1	1.0			G3/500
BL	(0°-30°)	693.6	2.7	B2/1000		
BM	(30°-60°)	1318.7	5.1	B2/2500		
BH	(60°-80°)	617.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.2	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°	45°	46°	55°	65°	75°	85°
0°	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1
2.5°	2854.1	2850.5	2833.6	2826.4	2785.5	2761.5	2751.9	2721.8	2678.5	2635.3	2587.2
5°	3178.7	3177.5	3146.2	3116.1	3039.2	2967.1	2953.8	2884.1	2786.7	2695.4	2604.0
7.5°	3510.5	3494.8	3463.6	3405.9	3294.1	3178.7	3167.8	3069.3	2931.0	2798.8	2667.7
10°	3791.8	3782.2	3741.3	3653.5	3522.5	3391.4	3378.2	3256.8	3100.5	2938.2	2771.1
12.5°	4010.6	4003.4	3949.3	3839.9	3700.4	3564.6	3546.5	3438.3	3271.2	3089.7	2892.5
15°	4144.0	4140.4	4074.3	3957.7	3820.6	3702.8	3687.2	3592.2	3437.1	3247.2	3024.8
17.5°	4175.3	4176.5	4108.0	3990.1	3877.1	3793.0	3781.0	3708.8	3579.0	3390.2	3157.0
20°	4105.6	4120.0	4058.7	3956.5	3886.8	3842.3	3832.7	3789.4	3680.0	3502.1	3262.8
22.5°	4007.0	4014.2	3972.1	3903.6	3874.7	3883.2	3878.3	3854.3	3761.7	3598.2	3367.4
25°	3946.9	3946.9	3921.6	3863.9	3883.2	3934.8	3936.1	3931.2	3857.9	3716.0	3494.8
27.5°	3944.5	3937.3	3908.4	3865.1	3918.0	3997.4	4002.2	4034.6	3988.9	3859.1	3653.5
30°	4040.6	4032.2	3970.9	3914.4	3981.7	4067.1	4079.1	4150.0	4127.2	4014.2	3830.3
32.5°	4265.5	4235.4	4099.6	4007.0	4057.5	4159.7	4175.3	4288.3	4324.4	4205.3	4001.0
35°	4573.2	4478.2	4282.3	4182.5	4187.3	4294.3	4308.7	4474.6	4581.6	4380.9	4133.2
37.5°	4997.6	4950.7	4632.1	4365.2	4386.9	4549.2	4591.3	4771.6	4741.5	4477.0	4283.5
40°	5928.1	5854.8	5515.8	4877.4	4578.0	4756.0	4769.2	4865.4	4867.8	4694.6	4596.1
42.5°	7195.3	7165.2	6808.1	5806.7	4954.3	4894.2	4918.3	5080.6	5262.1	5153.9	5149.1
45°	8598.2	8582.6	8203.9	7040.2	5715.3	5347.5	5377.5	5595.1	5942.5	5966.6	6119.3
47.5°	9727.1	9719.9	9502.3	8416.7	6880.3	6115.7	6125.3	6356.1	6966.8	7268.6	7512.6
50°	10756.2	10791.1	10619.2	9906.2	8467.2	7319.1	7296.2	7450.1	8431.1	8925.2	9228.2
52.5°	12186.8	12236.1	11754.1	11296.0	10132.3	8812.2	8794.2	8955.3	10191.2	10561.5	10615.6
55°	13450.4	13366.2	12985.1	12852.9	12162.8	10656.4	10651.6	10793.5	11893.5	12051.0	12150.8
57.5°	14008.2	13975.7	14159.7	14462.6	14289.5	12836.0	12825.2	12717.0	13416.7	13433.5	13740.1
60°	14360.5	14400.1	14964.0	15898.1	16329.7	15181.6	15111.8	14451.8	14871.4	14834.1	15162.3
62.5°	14096.0	14174.1	15188.8	16745.6	17856.5	17228.9	17130.4	16041.1	16114.5	15985.8	16291.2
65°	12691.8	12813.2	14475.9	16585.8	18613.9	18829.1	18729.3	17444.1	17101.5	16889.9	16720.4
67.5°	10305.4	10377.5	12113.5	15194.8	18272.5	19783.6	19763.2	18674.0	17846.9	16737.2	15422.0
69°	8516.5	8587.4	10258.5	13730.5	17521.1	19988.0	20027.7	19068.3	17705.0	15809.1	13664.4
70°	7213.3	7289.0	8845.9	12475.4	16649.5	19893.0	19964.0	19031.1	17298.7	14734.3	12121.9
72.5°	3783.4	3848.3	5446.0	8594.6	13573.0	18266.4	18481.6	17422.5	14663.4	10700.9	7167.6
75°	1189.0	1226.3	2126.7	4492.7	9293.1	14203.0	14252.3	13666.8	10412.4	5886.0	2985.1
77.5°	453.2	442.4	708.1	1655.4	4698.3	8943.3	9245.0	8540.5	5464.1	2081.0	688.9
80°	244.0	245.3	367.9	685.3	2010.1	4596.1	4850.9	4139.2	1941.6	649.2	158.7
82.5°	105.8	110.6	206.8	363.1	923.3	1695.1	1822.6	1517.2	741.8	436.4	58.9
85°	22.8	25.2	99.8	197.2	376.3	476.1	498.9	491.7	472.5	339.0	22.8
87.5°	0.0	0.0	44.5	70.9	95.0	108.2	95.0	123.8	260.9	228.4	12.0
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°	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1	2569.1
2.5°	2571.5	2549.9	2512.6	2471.8	2442.9	2412.8	2388.8	2378.0	2366.0	2357.5	2368.4
5°	2566.7	2524.7	2452.5	2382.8	2332.3	2291.4	2257.8	2244.5	2231.3	2221.7	2220.5
7.5°	2608.8	2549.9	2439.3	2337.1	2259.0	2203.7	2158.0	2138.7	2123.1	2115.9	2109.9
10°	2689.4	2613.6	2465.7	2332.3	2231.3	2137.5	2039.0	1963.2	1913.9	1891.1	1882.7
12.5°	2793.9	2699.0	2516.2	2357.5	2210.9	2030.5	1821.4	1641.0	1524.4	1485.9	1463.1
15°	2916.6	2798.8	2582.4	2390.0	2136.3	1806.9	1452.3	1216.6	1108.4	1086.8	1062.8
17.5°	3034.4	2904.6	2661.7	2396.0	1972.8	1443.9	1064.0	904.1	862.0	876.4	880.0
20°	3137.8	3009.1	2739.8	2343.1	1675.9	1083.2	823.5	783.8	799.5	827.1	831.9
22.5°	3242.4	3110.1	2812.0	2203.7	1296.0	822.3	741.8	751.4	767.0	794.7	799.5
25°	3369.8	3232.8	2879.3	1947.6	972.6	699.7	704.5	718.9	734.6	759.8	762.2
27.5°	3516.5	3387.8	2923.8	1614.6	721.3	643.2	658.8	680.5	696.1	720.1	724.9
30°	3711.2	3592.2	2938.2	1269.5	604.7	592.7	599.9	626.4	649.2	670.8	674.4
32.5°	3894.0	3794.2	2890.1	958.2	560.2	545.8	545.8	561.4	587.9	608.3	613.1
35°	4062.3	3997.4	2736.2	700.9	526.6	502.5	490.5	490.5	507.3	524.2	529.0
37.5°	4284.7	4282.3	2487.4	559.0	494.1	466.5	441.2	422.0	416.0	419.6	422.0
40°	4665.8	4669.4	2162.8	501.3	466.5	429.2	390.7	355.9	323.4	312.6	311.4
42.5°	5260.9	5206.8	1822.6	473.7	442.4	390.7	333.0	286.1	235.6	220.0	218.8
45°	6205.8	5884.8	1461.9	448.4	417.2	347.4	275.3	211.6	170.7	158.7	158.7
47.5°	7582.4	6775.7	1132.5	420.8	383.5	298.1	208.0	152.7	125.0	119.0	120.2
50°	9005.8	7648.5	868.0	385.9	342.6	246.5	153.9	110.6	95.0	95.0	96.2
52.5°	10268.1	8288.1	676.8	348.6	292.1	193.6	116.6	86.6	79.3	78.1	79.3
55°	11449.9	8700.4	518.2	305.4	232.0	144.3	89.0	70.9	66.1	63.7	62.5
57.5°	12589.6	8904.8	388.3	246.5	168.3	104.6	70.9	60.1	55.3	51.7	50.5
60°	13348.2	8738.9	266.9	181.5	116.6	75.7	58.9	51.7	45.7	42.1	40.9
62.5°	13776.2	8285.7	171.9	131.0	83.0	56.5	46.9	43.3	34.9	31.3	31.3
65°	13603.1	7537.9	120.2	93.8	60.1	42.1	34.9	34.9	25.2	20.4	19.2
67.5°	12054.6	6368.1	91.4	69.7	43.3	31.3	26.4	30.1	15.6	9.6	9.6
69°	10371.5	5277.7	78.1	57.7	36.1	25.2	22.8	27.7	10.8	7.2	6.0
70°	9014.2	4552.8	70.9	50.5	30.1	21.6	20.4	26.4	10.8	6.0	4.8
72.5°	5393.1	2539.1	54.1	36.1	19.2	16.8	16.8	30.1	10.8	6.0	4.8
75°	2179.6	894.4	39.7	25.2	14.4	14.4	20.4	38.5	9.6	4.8	3.6
77.5°	494.1	196.0	22.8	15.6	9.6	14.4	24.0	30.1	6.0	2.4	0.0
80°	120.2	48.1	14.4	9.6	6.0	10.8	18.0	16.8	1.2	0.0	0.0
82.5°	39.7	16.8	6.0	4.8	1.2	3.6	8.4	4.8	0.0	0.0	0.0
85°	16.8	9.6	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.8	3.6	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)