

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: P323024

Luminaire Tested: **GAN-SA0D-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323024
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-SA0D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA 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: 40919 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

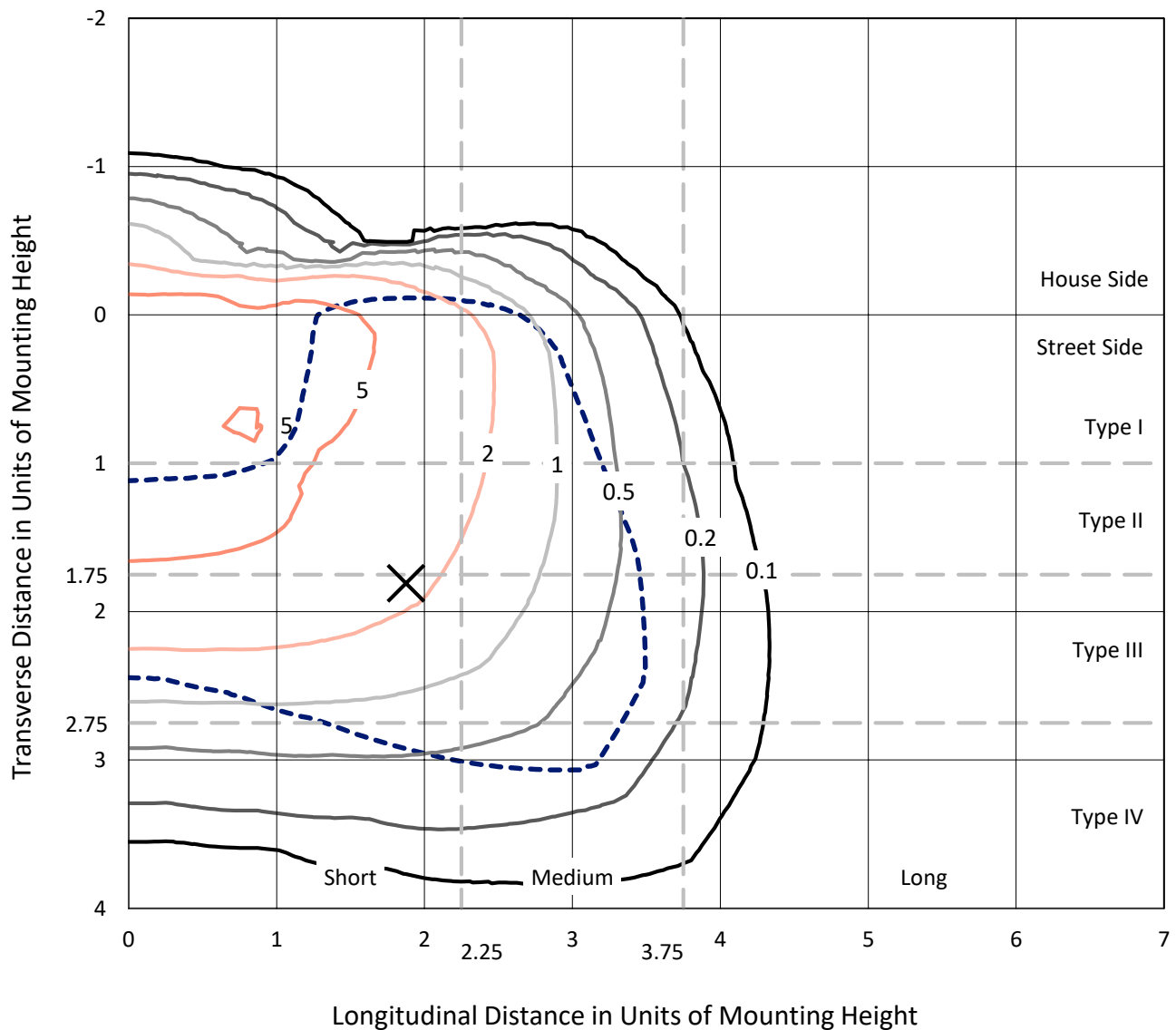
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

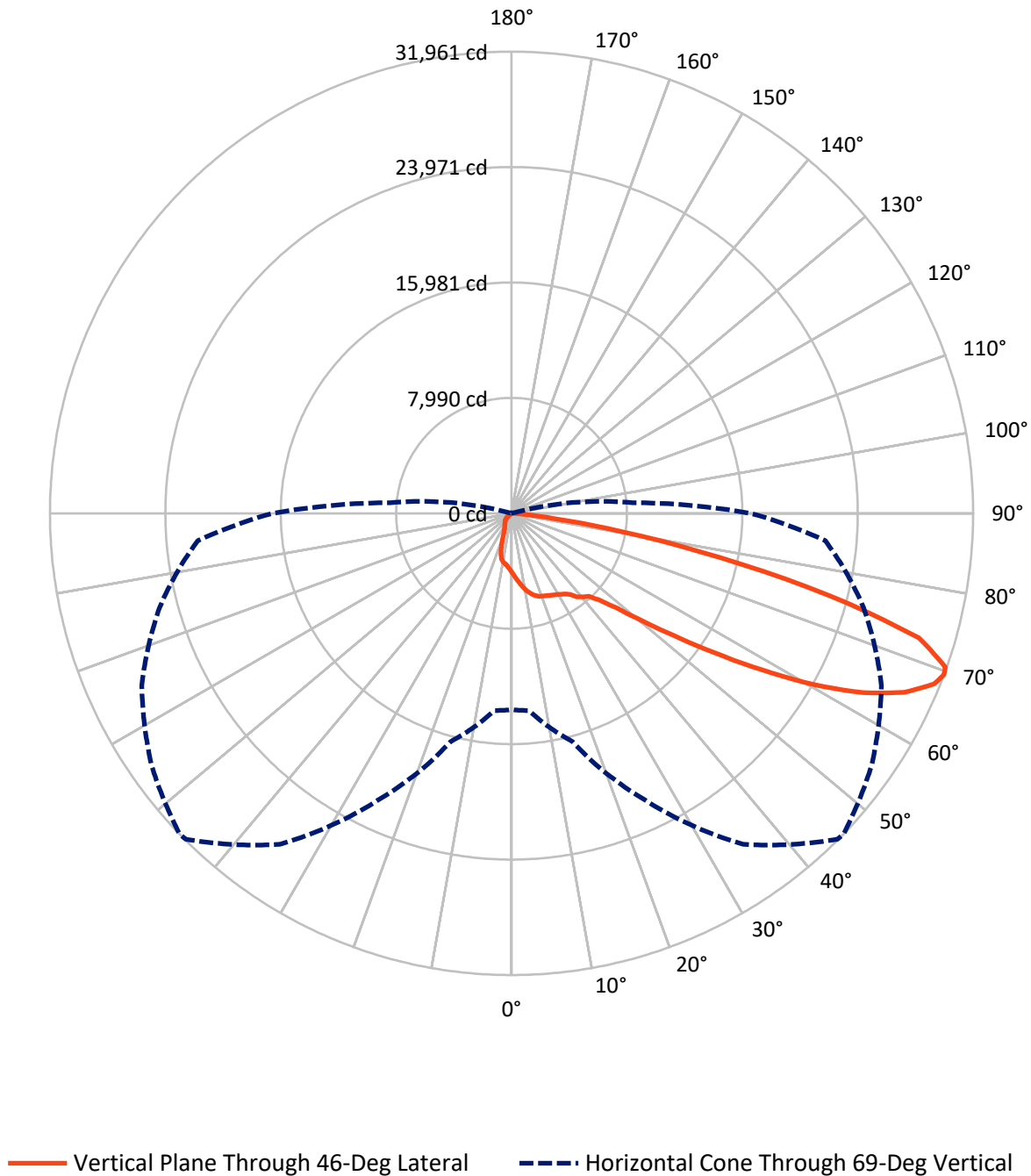
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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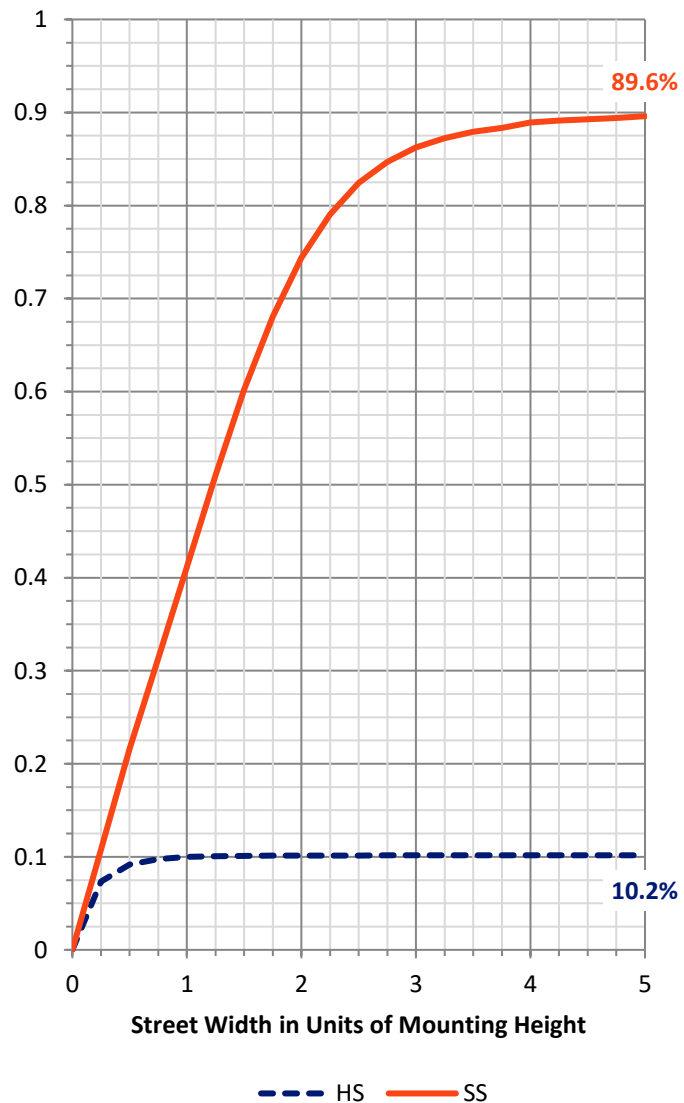
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4199.4	0.0	4199.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36719.6	0.0	36719.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	40919.0	0.0	40919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.1	1.0
10°-20°	1238.0	3.0
20°-30°	1947.0	4.8
30°-40°	2792.0	6.8
40°-50°	4825.7	11.8
50°-60°	9533.6	23.3
60°-70°	13324.0	32.6
70°-80°	6436.9	15.7
80°-90°	413.7	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°	40919.0	100.0
0°-180°	40919.0	100.0

Coefficient of Utilization



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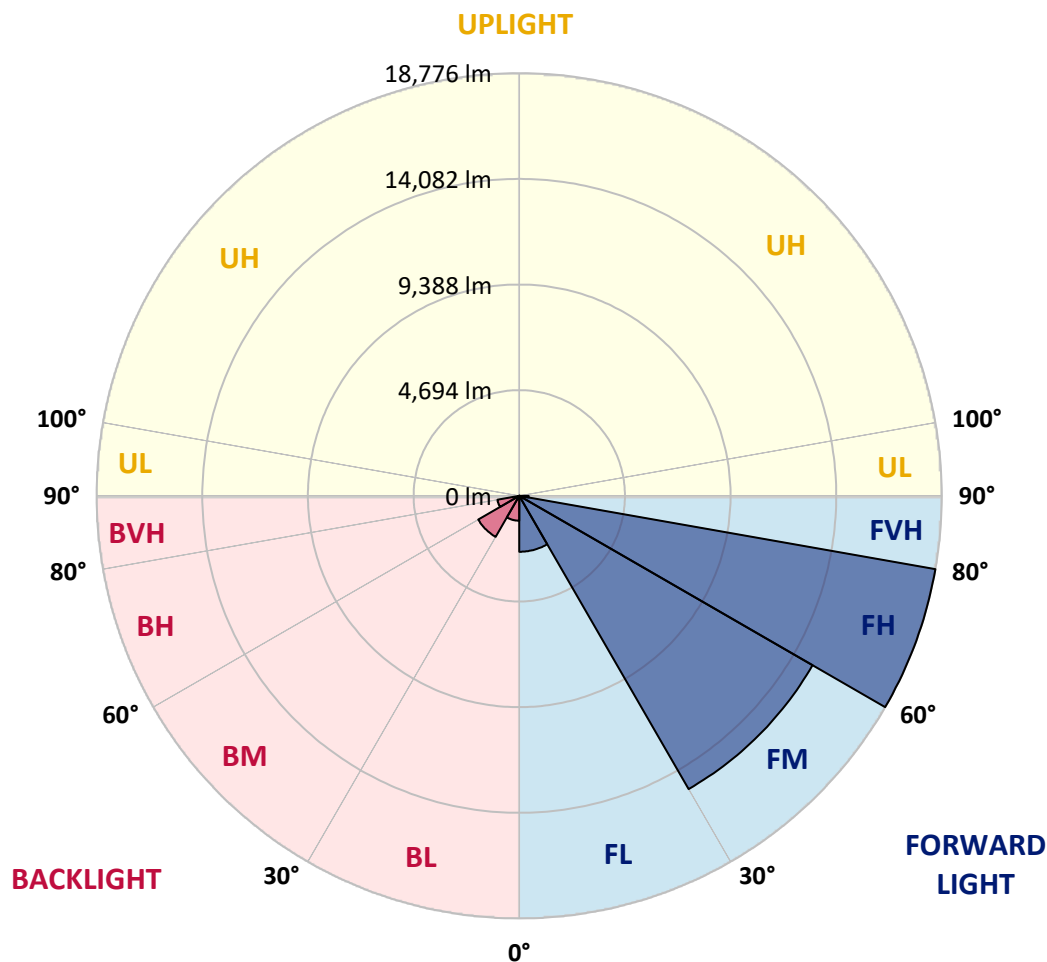
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2486.3	6.1			
FM	(30°-60°)	15046.8	36.8			
FH	(60°-80°)	18776.2	45.9			G5
FVH	(80°-90°)	410.2	1.0			G3/500
BL	(0°-30°)	1106.8	2.7	B3/2500		
BM	(30°-60°)	2104.4	5.1	B2/2500		
BH	(60°-80°)	984.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9
2.5°	4554.6	4548.9	4522.0	4510.5	4445.3	4406.9	4391.5	4343.6	4274.5	4205.5	4128.7
5°	5072.6	5070.7	5020.8	4972.9	4850.1	4735.0	4713.9	4602.6	4447.2	4301.4	4155.6
7.5°	5602.2	5577.2	5527.3	5435.2	5256.8	5072.6	5055.4	4898.0	4677.4	4466.4	4257.3
10°	6051.1	6035.7	5970.5	5830.5	5621.3	5412.2	5391.1	5197.3	4947.9	4688.9	4422.2
12.5°	6400.3	6388.8	6302.4	6127.8	5905.3	5688.5	5659.7	5487.0	5220.4	4930.7	4616.0
15°	6613.2	6607.5	6501.9	6315.9	6097.1	5909.1	5884.2	5732.6	5485.1	5182.0	4827.1
17.5°	6663.1	6665.0	6555.7	6367.7	6187.3	6053.0	6033.8	5918.7	5711.5	5410.3	5038.1
20°	6551.8	6574.9	6477.0	6313.9	6202.7	6131.7	6116.3	6047.3	5872.7	5588.7	5206.9
22.5°	6394.5	6406.0	6338.9	6229.5	6183.5	6196.9	6189.2	6150.9	6003.1	5742.2	5373.8
25°	6298.6	6298.6	6258.3	6166.2	6196.9	6279.4	6281.3	6273.6	6156.6	5930.2	5577.2
27.5°	6294.7	6283.2	6237.2	6168.1	6252.5	6379.2	6386.8	6438.6	6365.7	6158.5	5830.5
30°	6448.2	6434.8	6337.0	6246.8	6354.2	6490.4	6509.6	6622.8	6586.4	6406.0	6112.5
32.5°	6807.0	6759.0	6542.2	6394.5	6475.1	6638.2	6663.1	6843.5	6901.0	6711.1	6384.9
35°	7298.1	7146.6	6833.9	6674.6	6682.3	6853.0	6876.1	7140.8	7311.6	6991.2	6596.0
37.5°	7975.4	7900.6	7392.2	6966.2	7000.8	7259.8	7326.9	7614.7	7566.7	7144.7	6835.8
40°	9460.3	9343.3	8802.3	7783.5	7305.8	7589.8	7610.9	7764.4	7768.2	7491.9	7334.6
42.5°	11482.5	11434.5	10864.7	9266.6	7906.3	7810.4	7848.8	8107.8	8397.5	8224.8	8217.1
45°	13721.4	13696.5	13092.2	11235.0	9120.8	8533.7	8581.7	8928.9	9483.4	9521.7	9765.4
47.5°	15522.9	15511.4	15164.2	13431.7	10979.8	9759.6	9775.0	10143.3	11118.0	11599.5	11989.0
50°	17165.2	17220.9	16946.5	15808.8	13512.3	11680.1	11643.7	11889.2	13454.8	14243.3	14726.8
52.5°	19448.3	19527.0	18757.6	18026.6	16169.5	14062.9	14034.2	14291.2	16263.5	16854.4	16940.8
55°	21464.7	21330.4	20722.2	20511.2	19409.9	17006.0	16998.3	17224.7	18980.2	19231.5	19390.7
57.5°	22354.9	22303.1	22596.6	23080.1	22803.8	20484.3	20467.0	20294.4	21411.0	21437.8	21927.1
60°	22917.0	22980.3	23880.1	25370.8	26059.6	24227.4	24116.1	23062.8	23732.4	23672.9	24196.7
62.5°	22494.9	22619.6	24238.9	26723.4	28496.2	27494.7	27337.3	25599.1	25716.2	25510.9	25998.2
65°	20254.1	20447.9	23101.2	26468.2	29704.8	30048.3	29889.0	27838.1	27291.3	26953.6	26683.1
67.5°	16445.8	16560.9	19331.3	24248.5	29160.0	31571.6	31539.0	29800.8	28480.8	26710.0	24611.1
69°	13591.0	13704.2	16370.9	21911.7	27960.9	31897.7	31961.0	30430.0	28254.4	25228.9	21806.2
70°	11511.3	11632.1	14116.7	19908.7	26569.9	31746.2	31859.4	30370.6	27605.9	23513.7	19344.7
72.5°	6037.7	6141.3	8691.0	13715.7	21660.4	29150.4	29493.8	27803.6	23400.5	17077.0	11438.4
75°	1897.4	1956.9	3393.9	7169.6	14830.4	22665.7	22744.4	21810.0	16616.5	9393.2	4763.7
77.5°	723.3	706.0	1130.0	2641.8	7497.7	14272.1	14753.6	13629.3	8719.8	3321.0	1099.3
80°	389.5	391.4	587.1	1093.6	3207.8	7334.6	7741.3	6605.6	3098.5	1036.0	253.2
82.5°	168.8	176.5	330.0	579.4	1473.4	2705.1	2908.5	2421.2	1183.7	696.4	94.0
85°	36.5	40.3	159.2	314.6	600.5	759.7	796.2	784.7	754.0	541.0	36.5
87.5°	0.0	0.0	71.0	113.2	151.6	172.7	151.6	197.6	416.3	364.5	19.2
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°	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9	4099.9
2.5°	4103.8	4069.2	4009.8	3944.5	3898.5	3850.5	3812.1	3794.9	3775.7	3762.3	3779.5
5°	4096.1	4028.9	3913.8	3802.6	3722.0	3656.7	3603.0	3581.9	3560.8	3545.5	3543.6
7.5°	4163.2	4069.2	3892.7	3729.7	3604.9	3516.7	3443.8	3413.1	3388.2	3376.6	3367.0
10°	4291.8	4170.9	3934.9	3722.0	3560.8	3411.2	3253.9	3133.0	3054.3	3017.9	3004.4
12.5°	4458.7	4307.1	4015.5	3762.3	3528.2	3240.4	2906.6	2618.8	2432.7	2371.3	2334.9
15°	4654.4	4466.4	4121.0	3814.1	3409.3	2883.6	2317.6	1941.6	1768.9	1734.4	1696.0
17.5°	4842.4	4635.2	4247.7	3823.7	3148.3	2304.2	1697.9	1442.7	1375.6	1398.6	1404.4
20°	5007.4	4802.1	4372.4	3739.2	2674.5	1728.6	1314.2	1250.9	1275.8	1320.0	1327.6
22.5°	5174.3	4963.3	4487.5	3516.7	2068.2	1312.3	1183.7	1199.1	1224.0	1268.2	1275.8
25°	5377.7	5159.0	4594.9	3108.0	1552.1	1116.6	1124.3	1147.3	1172.2	1212.5	1216.4
27.5°	5611.7	5406.5	4665.9	2576.6	1151.1	1026.4	1051.4	1085.9	1110.8	1149.2	1156.9
30°	5922.5	5732.6	4688.9	2026.0	965.0	945.8	957.4	999.6	1036.0	1070.5	1076.3
32.5°	6214.2	6054.9	4612.2	1529.1	894.0	871.0	871.0	896.0	938.2	970.8	978.5
35°	6482.8	6379.2	4366.6	1118.5	840.3	802.0	782.8	782.8	809.6	836.5	844.2
37.5°	6837.7	6833.9	3969.5	892.1	788.5	744.4	704.1	673.4	663.8	669.6	673.4
40°	7445.9	7451.6	3451.5	800.0	744.4	684.9	623.5	567.9	516.1	498.8	496.9
42.5°	8395.6	8309.2	2908.5	755.9	706.0	623.5	531.4	456.6	376.0	351.1	349.2
45°	9903.5	9391.3	2333.0	715.6	665.7	554.5	439.3	337.7	272.4	253.2	253.2
47.5°	12100.3	10812.9	1807.3	671.5	612.0	475.8	331.9	243.7	199.5	189.9	191.9
50°	14371.8	12205.8	1385.2	615.9	546.8	393.3	245.6	176.5	151.6	151.6	153.5
52.5°	16386.3	13226.4	1080.1	556.4	466.2	308.9	186.1	138.1	126.6	124.7	126.6
55°	18272.2	13884.5	826.9	487.3	370.3	230.2	142.0	113.2	105.5	101.7	99.8
57.5°	20091.0	14210.7	619.7	393.3	268.6	166.9	113.2	95.9	88.3	82.5	80.6
60°	21301.6	13945.9	425.9	289.7	186.1	120.9	94.0	82.5	72.9	67.1	65.2
62.5°	21984.6	13222.6	274.4	209.1	132.4	90.2	74.8	69.1	55.6	49.9	49.9
65°	21708.3	12029.3	191.9	149.6	95.9	67.1	55.6	55.6	40.3	32.6	30.7
67.5°	19237.3	10162.5	145.8	111.3	69.1	49.9	42.2	48.0	24.9	15.3	15.3
69°	16551.3	8422.4	124.7	92.1	57.6	40.3	36.5	44.1	17.3	11.5	9.6
70°	14385.3	7265.5	113.2	80.6	48.0	34.5	32.6	42.2	17.3	9.6	7.7
72.5°	8606.6	4052.0	86.3	57.6	30.7	26.9	26.9	48.0	17.3	9.6	7.7
75°	3478.3	1427.4	63.3	40.3	23.0	23.0	32.6	61.4	15.3	7.7	5.8
77.5°	788.5	312.7	36.5	24.9	15.3	23.0	38.4	48.0	9.6	3.8	0.0
80°	191.9	76.7	23.0	15.3	9.6	17.3	28.8	26.9	1.9	0.0	0.0
82.5°	63.3	26.9	9.6	7.7	1.9	5.8	13.4	7.7	0.0	0.0	0.0
85°	26.9	15.3	3.8	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	5.8	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)