

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: P322013

Luminaire Tested: **GAN-SA9C-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44983 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 501
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

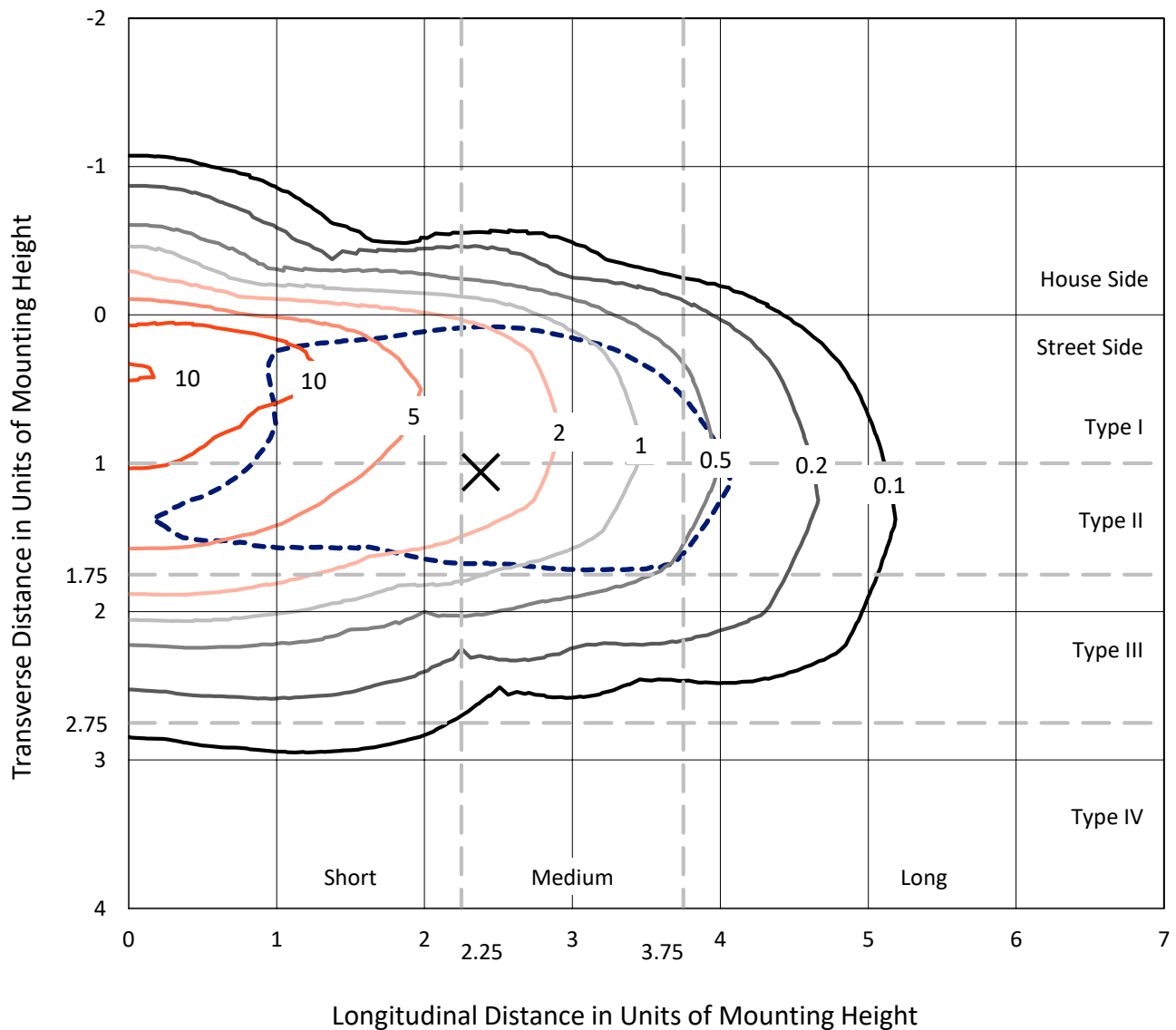


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Iso-Footcandle Lines of Horizontal Illumination

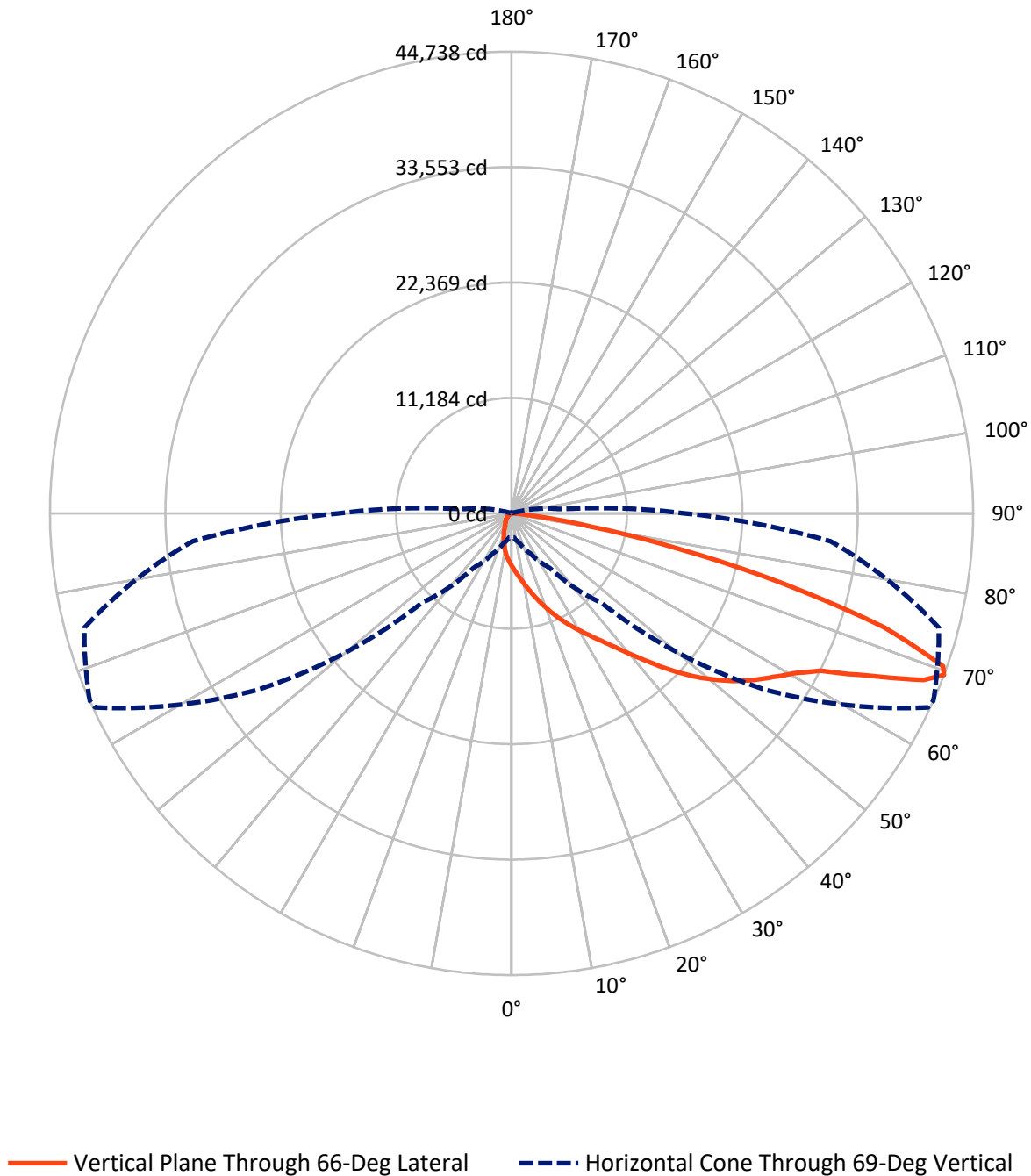
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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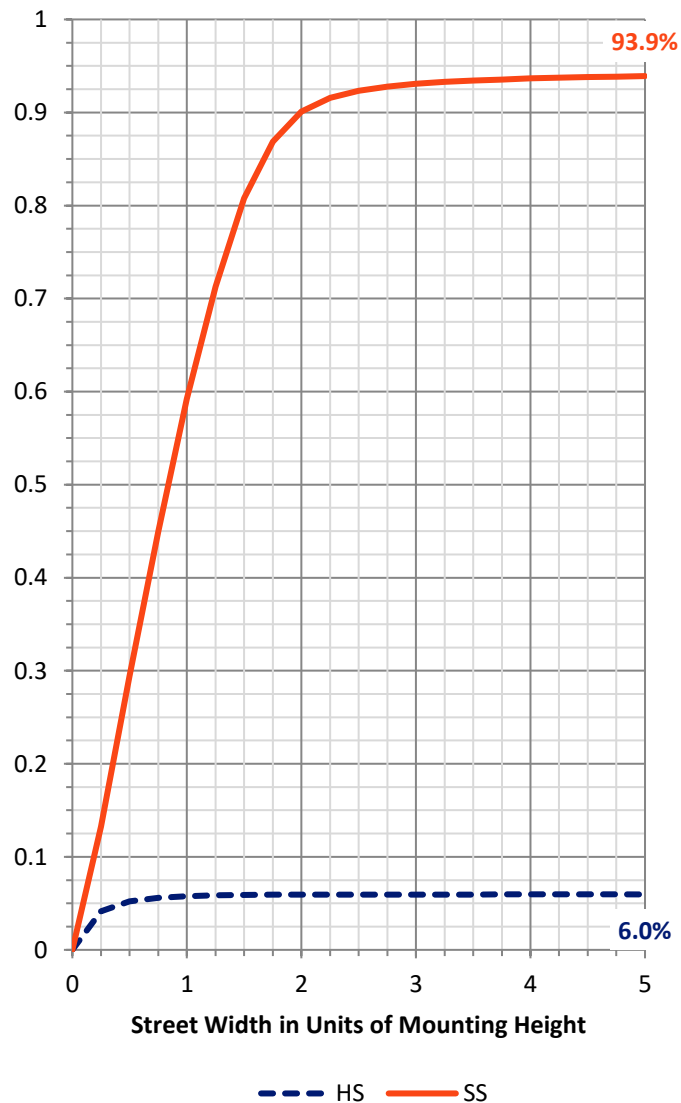
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2698.4	0.0	2698.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	42284.7	0.0	42284.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	44983.0	0.0	44983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.8	1.1
10°-20°	1472.7	3.3
20°-30°	2564.6	5.7
30°-40°	4499.5	10.0
40°-50°	7531.5	16.7
50°-60°	11070.6	24.6
60°-70°	11366.7	25.3
70°-80°	5611.4	12.5
80°-90°	371.0	0.8
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°	44983.0	100.0
0°-180°	44983.0	100.0

Coefficient of Utilization



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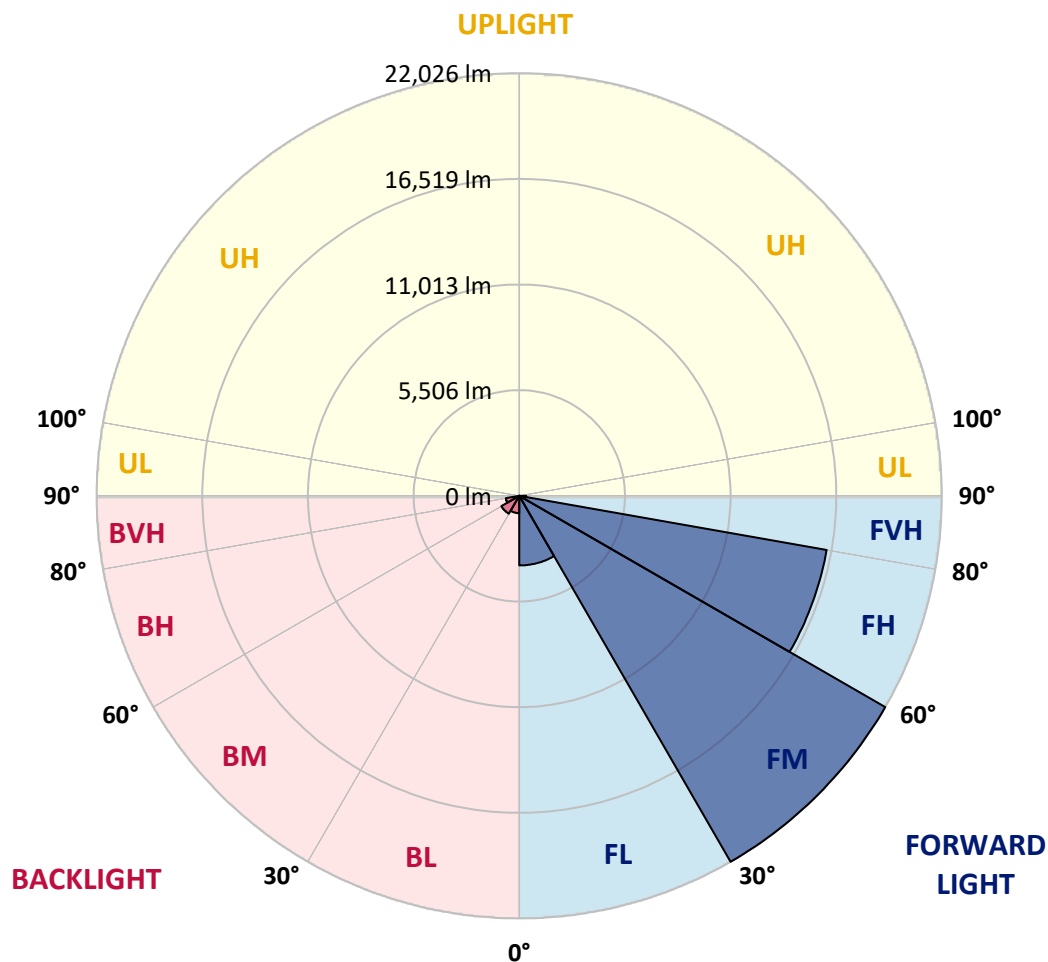
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3629.7	8.1			
FM	(30°-60°)	22025.8	49.0			
FH	(60°-80°)	16267.1	36.2			G5
FVH	(80°-90°)	362.1	0.8			G3/500
BL	(0°-30°)	902.4	2.0	B2/1000		
BM	(30°-60°)	1075.8	2.4	B2/2500		
BH	(60°-80°)	711.1	1.6	B2/1000		G2/1000
BVH	(80°-90°)	9.0	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2
2.5°	6025.1	5999.5	5988.8	5941.8	5860.6	5798.6	5679.0	5540.1	5514.5	5379.9	5215.4
5°	6807.1	6785.7	6770.8	6704.5	6621.2	6465.2	6247.3	5988.8	5939.7	5683.3	5354.2
7.5°	7351.9	7390.4	7390.4	7347.6	7243.0	7125.4	6858.4	6505.8	6443.9	6050.8	5540.1
10°	7670.3	7717.3	7753.6	7789.9	7775.0	7728.0	7475.8	7078.4	7003.7	6482.3	5755.9
12.5°	7700.2	7747.2	7849.7	8001.4	8148.9	8255.7	8097.6	7713.0	7627.5	6982.3	6012.3
15°	7533.5	7582.7	7740.8	8035.6	8392.4	8704.4	8755.6	8415.9	8328.3	7578.4	6332.8
17.5°	7243.0	7275.0	7501.5	7909.6	8469.3	9041.9	9351.7	9170.1	9088.9	8260.0	6689.6
20°	7027.2	7050.7	7249.4	7687.4	8422.3	9253.5	9915.8	9971.3	9885.9	8990.7	7076.3
22.5°	7396.8	7439.5	7445.9	7653.2	8294.1	9358.2	10411.5	10759.7	10695.6	9766.2	7456.6
25°	8407.4	8456.5	8294.1	8166.0	8403.1	9405.2	10836.7	11567.4	11516.1	10601.6	7839.1
27.5°	9742.7	9794.0	9584.6	9202.2	8973.6	9582.5	11214.8	12387.8	12385.7	11486.2	8251.4
30°	11054.6	11105.9	10892.2	10509.8	9984.2	10084.6	11541.7	13246.7	13259.5	12398.5	8689.4
32.5°	12430.5	12494.6	12274.6	11783.2	11234.1	10952.0	12001.1	14109.9	14182.5	13456.1	9183.0
35°	13994.5	14003.0	13693.2	13178.3	12545.9	12112.2	12738.2	15077.7	15250.8	14765.8	9809.0
37.5°	15528.6	15590.5	15336.3	14524.4	13943.2	13451.8	13834.3	16287.0	16532.7	16366.1	10627.3
40°	16665.2	16795.5	16759.2	15883.2	15332.0	14981.6	15195.3	17724.9	18036.9	18229.2	11659.2
42.5°	17378.8	17477.1	17643.8	17116.0	16616.1	16673.8	16801.9	19400.0	19784.6	20352.9	12845.0
45°	18197.1	18244.1	18383.0	18150.1	17812.5	18393.7	18506.9	21286.6	21690.4	22636.9	14161.2
47.5°	19197.0	19308.1	19346.6	19132.9	18979.1	19914.9	20149.9	23002.3	23568.4	25083.3	15554.2
50°	20470.4	20500.3	20566.6	20427.7	20273.9	21222.5	21624.2	24803.4	25318.3	27538.2	16928.0
52.5°	21716.0	21822.9	22053.6	21966.0	21904.1	22335.7	22938.2	26427.2	27001.9	29585.0	18299.7
55°	22075.0	22166.9	22963.8	23508.6	24012.9	23707.3	24194.5	27882.2	28503.9	31413.9	19620.1
57.5°	20641.4	20827.2	22207.5	23626.1	25717.8	25839.6	25920.8	29375.6	29933.3	32815.5	20993.9
60°	17017.7	17054.1	19318.8	21752.4	25435.8	27700.6	28442.0	30980.2	31448.1	34120.9	22639.0
62.5°	10823.8	11193.5	13678.3	17113.9	22453.2	27431.4	31490.8	33407.3	33578.3	35687.0	24997.8
65°	5155.5	5394.8	7185.3	10573.9	16263.5	23985.1	33595.3	37798.0	37874.9	38791.5	28149.2
67.5°	2854.5	2969.8	3822.3	5691.8	9507.7	16962.2	32745.0	42998.4	43071.0	41962.1	30914.0
69°	2232.7	2331.0	3001.9	4290.2	6446.0	12191.2	29632.0	44521.7	44737.5	42870.2	31012.2
70°	1895.1	1991.3	2585.2	3623.6	5183.3	9420.1	26375.9	44143.6	44372.2	42784.7	30279.4
72.5°	1160.2	1215.7	1722.1	2551.1	3474.1	4738.9	16265.7	37332.2	37718.9	39246.6	26023.4
75°	782.0	811.9	1076.8	1760.5	2484.8	2440.0	8450.1	26313.9	27151.5	30529.4	19220.5
77.5°	559.8	587.6	722.2	1138.8	1741.3	1611.0	3826.6	16353.3	16532.7	18310.4	10482.0
80°	318.3	344.0	510.6	677.3	1181.5	1074.7	1521.2	7811.3	7901.0	7851.9	3499.7
82.5°	166.7	188.0	279.9	446.5	758.5	702.9	632.4	2615.2	2628.0	2185.7	767.0
85°	32.0	38.5	138.9	305.5	391.0	305.5	258.5	613.2	626.0	553.4	190.2
87.5°	0.0	2.1	55.6	68.4	76.9	79.1	83.3	119.6	128.2	173.1	51.3
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°	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2	5119.2
2.5°	5142.7	5065.8	4918.4	4747.4	4615.0	4484.7	4382.1	4275.3	4236.8	4217.6	4215.4
5°	5194.0	5031.6	4719.7	4399.2	4136.4	3888.5	3711.2	3542.4	3463.4	3427.1	3412.1
7.5°	5279.5	5018.8	4516.7	4027.4	3649.3	3339.5	3093.7	2910.0	2818.1	2779.7	2764.7
10°	5379.9	5001.7	4279.5	3634.3	3151.4	2830.9	2587.4	2405.8	2305.4	2262.6	2241.3
12.5°	5497.4	4971.8	4006.1	3236.9	2726.3	2405.8	2110.9	1886.6	1771.2	1722.1	1698.6
15°	5642.7	4941.9	3719.8	2863.0	2352.4	1961.4	1638.7	1487.0	1463.5	1455.0	1457.1
17.5°	5785.8	4894.9	3407.8	2493.4	1959.2	1531.9	1367.4	1358.9	1363.1	1363.1	1363.1
20°	5914.0	4788.0	3068.1	2177.2	1585.3	1292.6	1258.4	1243.5	1232.8	1224.3	1213.6
22.5°	6014.4	4644.9	2741.2	1863.1	1294.8	1183.7	1130.2	1083.2	1044.8	1019.1	1006.3
25°	6082.8	4454.7	2442.1	1561.8	1164.4	1076.8	980.7	901.6	841.8	805.5	790.5
27.5°	6134.1	4249.6	2175.0	1307.6	1074.7	952.9	826.9	732.8	670.9	638.8	626.0
30°	6170.4	4016.7	1940.0	1149.5	974.3	822.6	688.0	596.1	551.2	534.1	525.6
32.5°	6204.6	3758.2	1717.8	1074.7	880.3	702.9	576.9	506.4	478.6	457.2	450.8
35°	6290.0	3518.9	1506.3	995.6	784.1	600.4	495.7	444.4	416.6	403.8	399.5
37.5°	6493.0	3341.6	1303.3	914.4	688.0	519.2	433.7	397.4	371.8	358.9	354.7
40°	6819.9	3251.9	1132.4	826.9	594.0	457.2	393.1	358.9	331.2	311.9	307.7
42.5°	7300.6	3264.7	1012.7	739.3	519.2	408.1	354.7	314.1	284.2	267.1	262.8
45°	7883.9	3358.7	929.4	653.8	457.2	369.6	311.9	269.2	241.4	226.5	222.2
47.5°	8516.3	3510.4	861.0	576.9	408.1	333.3	269.2	224.3	200.8	188.0	185.9
50°	9183.0	3657.8	790.5	502.1	365.4	297.0	226.5	185.9	166.7	156.0	151.7
52.5°	9858.1	3828.7	726.4	433.7	329.0	254.3	188.0	151.7	136.7	128.2	123.9
55°	10584.5	3956.9	664.5	380.3	292.7	215.8	156.0	126.1	113.2	102.6	100.4
57.5°	11439.2	4155.6	600.4	329.0	250.0	179.5	128.2	100.4	89.7	79.1	76.9
60°	12592.9	4388.5	532.0	290.6	205.1	147.4	104.7	81.2	68.4	59.8	57.7
62.5°	14114.1	4647.0	446.5	254.3	166.7	119.6	83.3	64.1	49.1	38.5	38.5
65°	16043.5	5067.9	365.4	213.7	136.7	98.3	64.1	47.0	27.8	17.1	17.1
67.5°	17169.4	5140.6	294.8	175.2	111.1	83.3	53.4	32.0	8.5	2.1	0.0
69°	16808.4	4719.7	250.0	149.6	96.1	79.1	49.1	23.5	4.3	0.0	0.0
70°	16128.9	4315.9	220.1	132.5	87.6	74.8	47.0	17.1	4.3	0.0	0.0
72.5°	13327.9	3072.4	166.7	98.3	64.1	66.2	42.7	10.7	4.3	0.0	0.0
75°	9708.6	1867.4	119.6	68.4	40.6	49.1	29.9	4.3	2.1	0.0	0.0
77.5°	5401.2	880.3	74.8	38.5	25.6	29.9	15.0	0.0	0.0	0.0	0.0
80°	1754.1	239.3	34.2	21.4	15.0	17.1	6.4	0.0	0.0	0.0	0.0
82.5°	324.8	68.4	19.2	10.7	4.3	4.3	0.0	0.0	0.0	0.0	0.0
85°	70.5	27.8	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	8.5	2.1	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)