

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: P321381

Luminaire Tested: **GAN-SA7D-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321381
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-SA7D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 44298 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

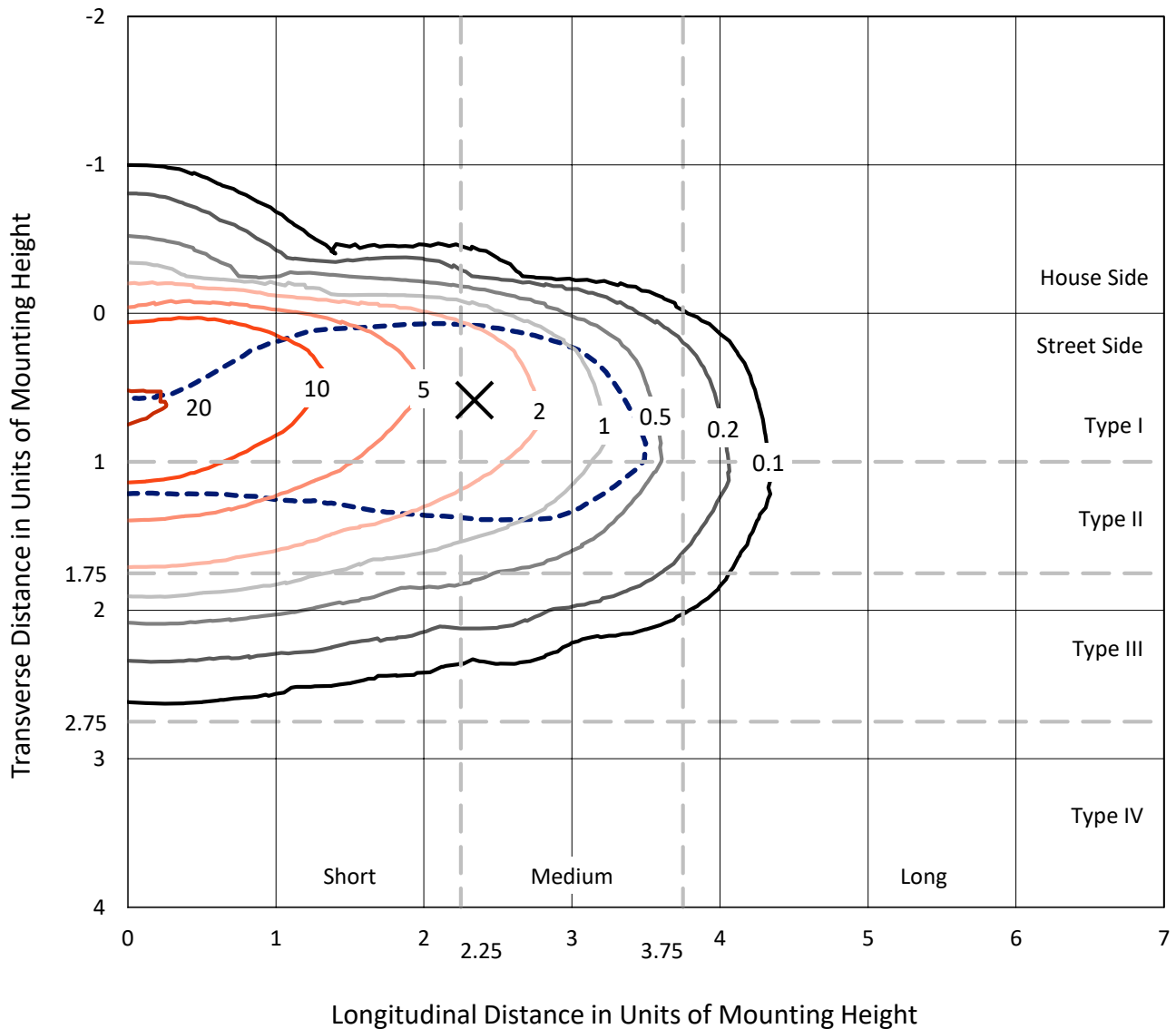
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

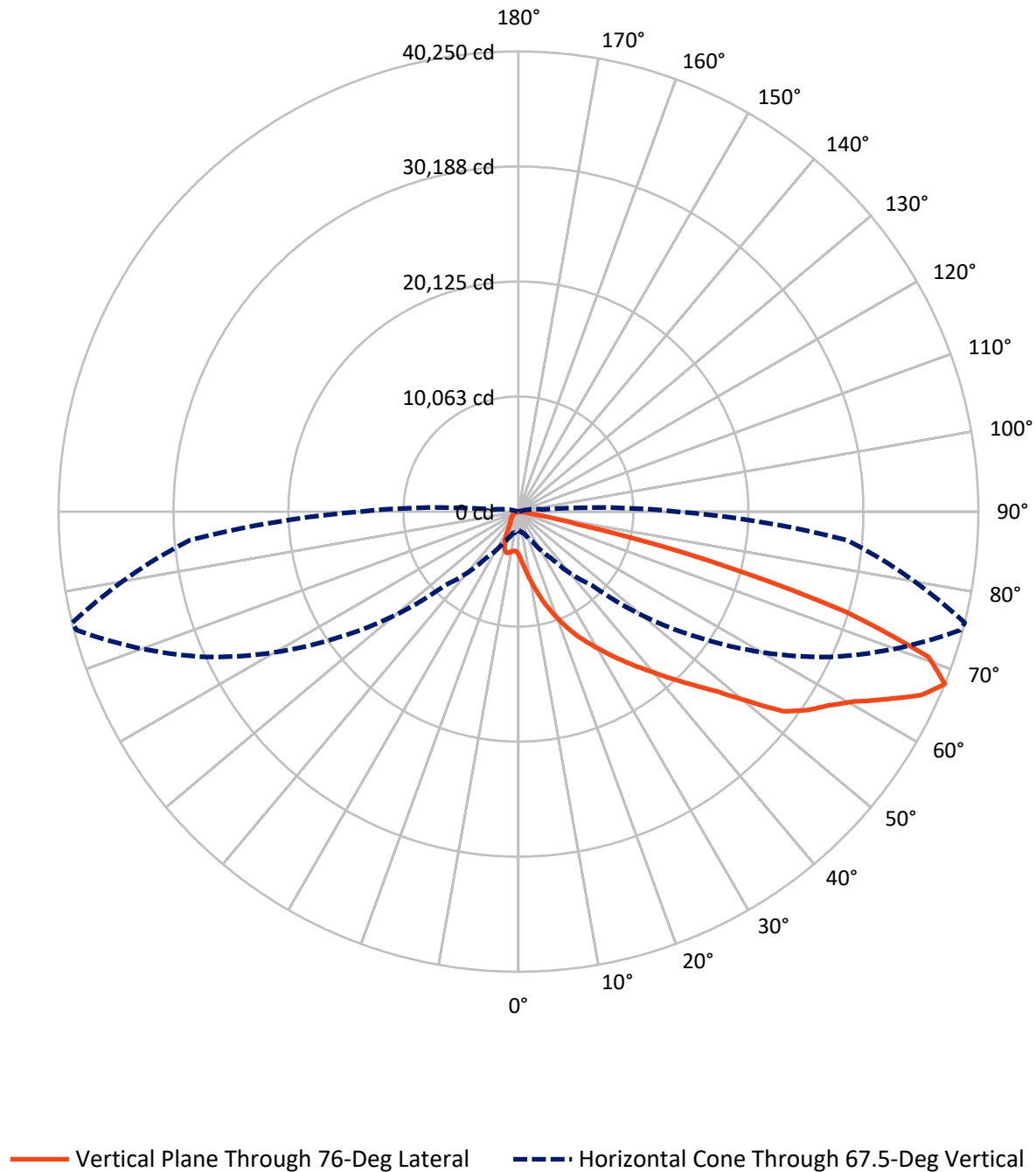
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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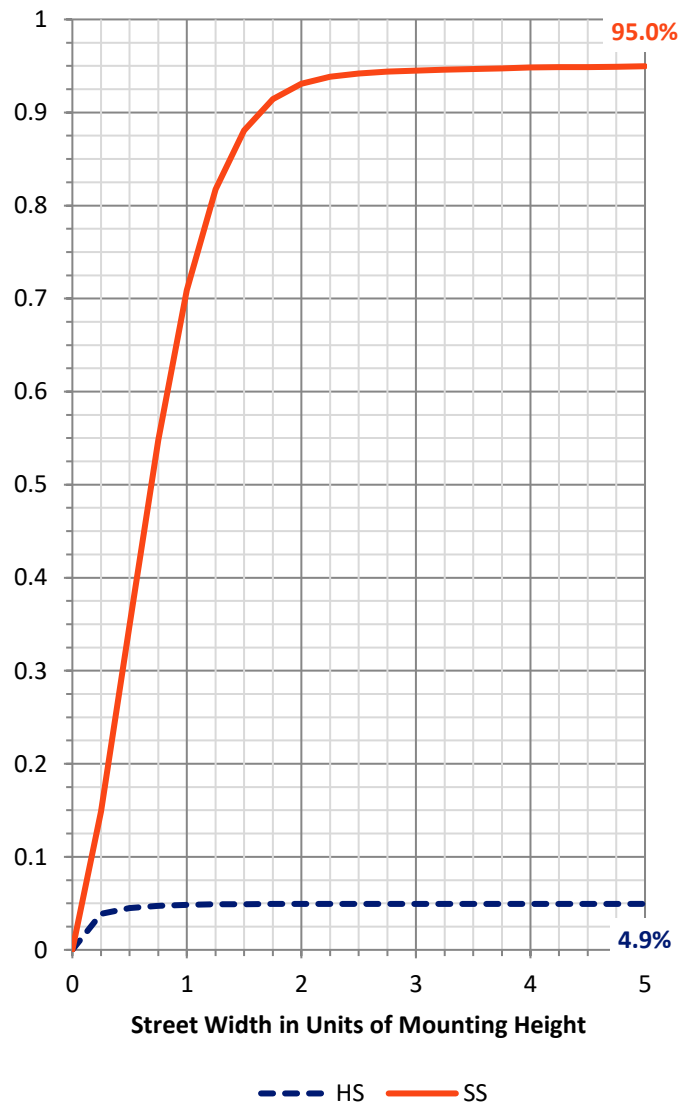
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2199.7	0.0	2199.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	42098.3	0.0	42098.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	44298.0	0.0	44298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	1.1
10°-20°	1852.3	4.2
20°-30°	3768.9	8.5
30°-40°	6541.5	14.8
40°-50°	9242.4	20.9
50°-60°	10481.3	23.7
60°-70°	8693.2	19.6
70°-80°	3148.9	7.1
80°-90°	102.1	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°	44298.0	100.0
0°-180°	44298.0	100.0

Coefficient of Utilization



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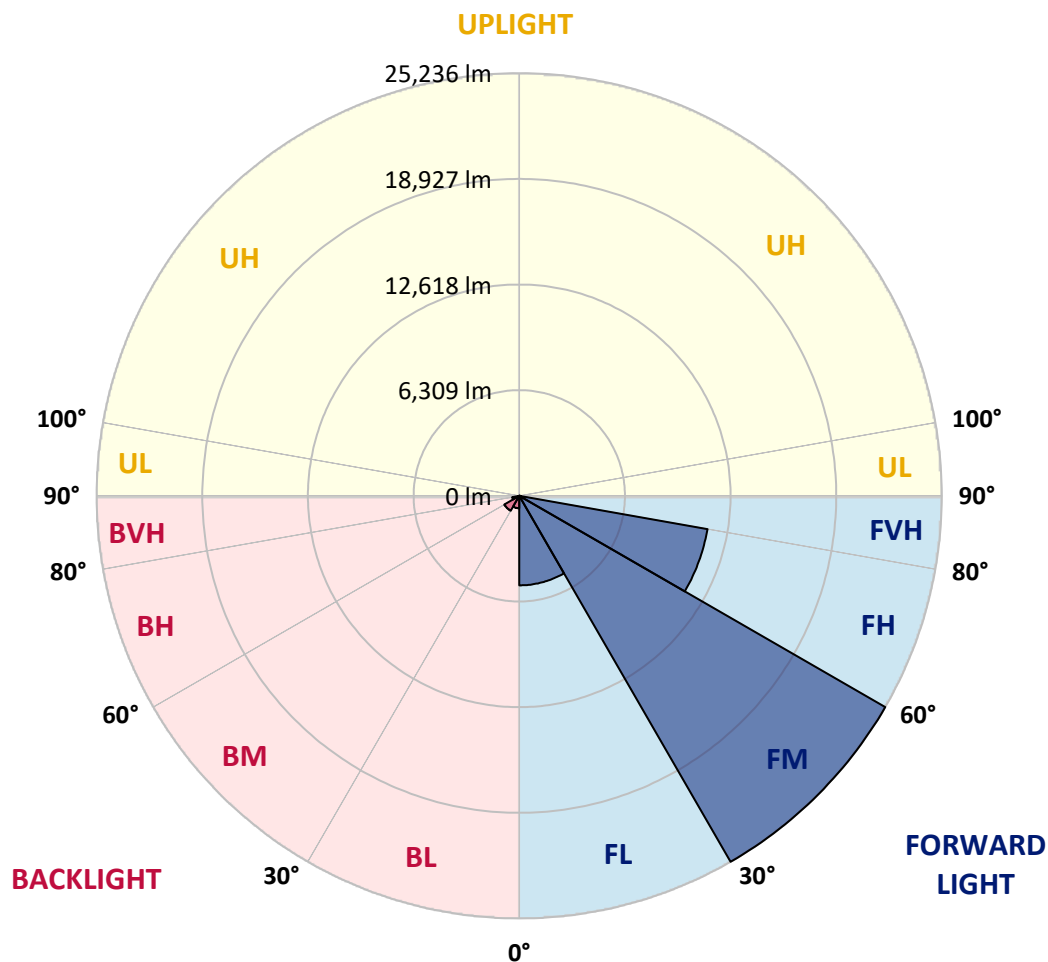
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5346.6	12.1			
FM	(30°-60°)	25235.7	57.0			
FH	(60°-80°)	11417.1	25.8			G4/12000
FVH	(80°-90°)	98.9	0.2			G1/100
BL	(0°-30°)	741.9	1.7	B2/1000		
BM	(30°-60°)	1029.5	2.3	B2/2500		
BH	(60°-80°)	425.1	1.0	B1/500		G1/500
BVH	(80°-90°)	3.2	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8
2.5°	5609.5	5483.3	5512.4	5430.9	5283.4	4980.6	4722.4	4477.9	4192.5	4182.8	3948.0
5°	7564.0	7457.3	7443.7	7278.7	7010.8	6496.5	5995.7	5425.1	4788.4	4741.8	4243.0
7.5°	9338.1	9252.7	9221.6	9025.6	8526.8	8026.0	7373.8	6535.3	5539.6	5454.2	4640.9
10°	10700.7	10659.9	10667.7	10527.9	10100.9	9635.1	8779.1	7709.6	6391.7	6259.7	5118.4
12.5°	11733.3	11743.0	11812.9	11727.5	11488.7	11143.2	10229.0	8961.5	7335.0	7154.5	5663.8
15°	12492.2	12540.7	12668.8	12775.6	12758.1	12459.2	11620.7	10232.9	8336.5	8136.6	6271.3
17.5°	12983.3	13037.6	13224.0	13460.8	13678.1	13608.3	12963.9	11459.6	9349.7	9118.8	6921.6
20°	13414.2	13478.2	13678.1	13990.6	14396.3	14483.7	14060.5	12649.4	10361.0	10079.6	7593.1
22.5°	14347.8	14345.8	14468.1	14650.6	15036.8	15262.0	14994.1	13753.8	11360.6	11067.5	8278.3
25°	16036.4	15972.4	15929.7	15786.1	15871.5	16011.2	15861.8	14786.4	12366.0	12069.1	8973.2
27.5°	18043.4	18082.2	17736.8	17350.5	17051.6	16907.9	16663.4	15743.4	13332.6	13006.6	9652.5
30°	20161.0	20172.7	19765.1	19272.1	18614.1	18068.7	17645.5	16657.6	14326.4	13971.2	10312.5
32.5°	22071.0	21995.3	21591.6	20920.0	20089.2	19475.9	18596.6	17678.5	15378.5	15034.9	11046.2
35°	23584.9	23495.7	23004.6	22393.2	21531.4	20914.1	19856.3	18697.5	16484.8	16149.0	11781.8
37.5°	24691.3	24586.5	24081.8	23453.0	22709.6	22350.5	21317.9	19805.8	17692.1	17331.1	12556.3
40°	25075.6	24984.4	24668.0	24208.0	23610.2	23528.7	22868.7	21081.1	19006.2	18621.8	13433.6
42.5°	24846.6	24757.3	24644.7	24489.4	24241.0	24318.6	24332.2	22534.9	20465.8	20087.3	14402.1
45°	23938.2	23858.6	23975.1	24202.2	24510.8	24895.1	25667.6	24097.4	22096.2	21692.5	15522.1
47.5°	22600.9	22542.6	22864.8	23431.6	24334.2	25394.0	26888.5	25739.4	23926.6	23552.0	16919.6
50°	20698.7	20689.0	21333.4	22367.9	23755.8	25634.6	28150.2	27606.7	26469.3	26075.2	18862.5
52.5°	17736.8	17756.2	19023.6	20679.3	22740.6	25471.6	28961.5	30005.7	29427.3	29017.8	20545.4
55°	14916.5	15033.0	15931.6	18319.0	21183.9	24866.0	29241.0	31125.7	31059.7	30671.5	21480.9
57.5°	12154.5	12366.0	13231.7	15461.9	18911.0	23470.4	29087.7	31610.9	32274.8	31977.8	22715.4
60°	9161.5	9258.5	10256.2	12340.8	15993.7	20923.9	27975.5	31874.9	33936.2	33730.5	24506.9
62.5°	5828.8	6071.4	6956.5	8967.4	12453.4	17387.4	26100.5	31871.0	36015.0	36127.6	26818.6
65°	3070.6	3354.0	3823.7	5557.0	8557.8	13437.5	23280.2	31572.1	38565.5	38722.7	28625.7
67.5°	1655.7	1737.2	1985.6	2884.3	4963.1	9103.2	19136.2	30097.0	40042.6	40250.3	28878.0
70°	1211.2	1255.8	1349.0	1595.5	2498.1	5287.3	13963.5	26752.6	38138.5	38060.8	25657.9
72.5°	929.7	999.6	1069.5	1168.5	1436.3	2822.2	8693.7	20949.1	30430.8	29918.4	19178.9
75°	733.7	745.3	844.3	933.6	1077.2	1607.1	3860.6	12201.1	18573.3	17360.2	9945.6
77.5°	586.2	593.9	652.2	729.8	865.7	1055.9	1195.6	4800.1	5929.7	5291.1	2158.4
80°	347.4	366.8	485.2	562.9	718.2	665.8	436.7	1042.3	925.9	838.5	363.0
82.5°	194.1	209.6	273.7	444.5	500.8	318.3	217.4	281.4	217.4	211.6	102.9
85°	0.0	9.7	176.6	275.6	203.8	69.9	91.2	93.2	64.1	60.2	40.8
87.5°	0.0	0.0	54.3	52.4	7.8	11.6	21.4	31.1	25.2	25.2	21.4
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°	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8	3757.8
2.5°	3831.5	3726.7	3528.7	3334.6	3171.6	3037.6	2917.3	2868.8	2830.0	2824.1	2793.1
5°	4002.3	3790.8	3412.3	3101.7	2894.0	2746.5	2620.3	2542.7	2482.5	2459.2	2437.9
7.5°	4260.5	3940.2	3396.7	3039.6	2791.1	2542.7	2309.8	2057.4	1900.2	1840.1	1805.1
10°	4574.9	4138.2	3455.0	3022.1	2587.3	2063.3	1677.0	1356.8	1226.7	1184.0	1172.4
12.5°	4941.8	4384.7	3555.9	2913.4	2152.6	1465.4	1156.8	1048.1	1019.0	1005.4	1005.4
15°	5363.0	4654.5	3627.7	2599.0	1591.6	1108.3	1001.5	951.1	920.0	902.6	904.5
17.5°	5793.9	4918.5	3592.8	2142.9	1174.3	986.0	906.4	852.1	809.4	791.9	788.0
20°	6228.6	5163.0	3398.7	1595.5	993.8	894.8	805.5	745.3	702.6	685.2	681.3
22.5°	6678.9	5370.7	3057.1	1170.4	892.9	793.9	706.5	646.3	605.6	590.1	582.3
25°	7117.6	5539.6	2579.6	947.2	797.7	698.8	615.3	559.0	522.1	506.6	504.7
27.5°	7527.2	5646.3	2026.4	836.6	714.3	613.4	537.7	487.2	456.1	444.5	442.5
30°	7895.9	5656.0	1498.4	755.0	640.5	539.6	469.7	425.1	397.9	386.3	382.4
32.5°	8268.6	5574.5	1090.8	681.3	572.6	475.5	407.6	372.7	353.3	343.6	343.6
35°	8619.9	5386.2	850.2	617.2	506.6	413.4	359.1	333.8	322.2	312.5	312.5
37.5°	8963.5	5116.4	722.0	560.9	444.5	361.0	316.4	300.9	291.1	281.4	281.4
40°	9312.9	4776.8	656.1	508.5	394.0	320.3	281.4	267.9	258.2	250.4	248.4
42.5°	9741.8	4384.7	613.4	460.0	349.4	283.4	248.4	232.9	225.2	217.4	213.5
45°	10238.7	4047.0	578.4	411.5	312.5	252.3	215.4	199.9	188.3	178.6	176.6
47.5°	10954.9	3802.4	531.8	359.1	277.6	219.3	186.3	168.9	151.4	141.7	139.8
50°	11869.1	3600.5	471.7	312.5	242.6	186.3	155.3	133.9	118.4	108.7	108.7
52.5°	12323.3	3336.6	417.3	271.7	203.8	157.2	126.2	100.9	93.2	83.5	83.5
55°	12505.8	3134.7	363.0	231.0	168.9	130.0	99.0	77.6	71.8	66.0	64.1
57.5°	13018.2	3076.5	316.4	196.0	139.8	102.9	75.7	58.2	54.3	46.6	46.6
60°	13843.1	3105.6	273.7	166.9	112.6	79.6	56.3	44.6	40.8	33.0	33.0
62.5°	14734.0	3068.7	231.0	143.6	87.3	58.2	38.8	33.0	33.0	19.4	17.5
65°	14904.8	2732.9	198.0	118.4	67.9	42.7	25.2	21.4	29.1	3.9	0.0
67.5°	13833.4	2119.6	170.8	91.2	50.5	33.0	19.4	9.7	25.2	0.0	0.0
70°	11061.7	1347.0	137.8	66.0	38.8	27.2	15.5	3.9	19.4	0.0	0.0
72.5°	7822.2	782.2	108.7	46.6	33.0	21.4	11.6	0.0	11.6	0.0	0.0
75°	3955.7	417.3	67.9	34.9	25.2	15.5	7.8	0.0	1.9	0.0	0.0
77.5°	856.0	194.1	42.7	25.2	17.5	9.7	3.9	0.0	0.0	0.0	0.0
80°	186.3	85.4	27.2	15.5	9.7	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	67.9	44.6	13.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.9	23.3	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.4	7.8	1.9	1.9	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)