

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: P321451

Luminaire Tested: **GAN-SA7C-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321451
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-SA7C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 32089 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

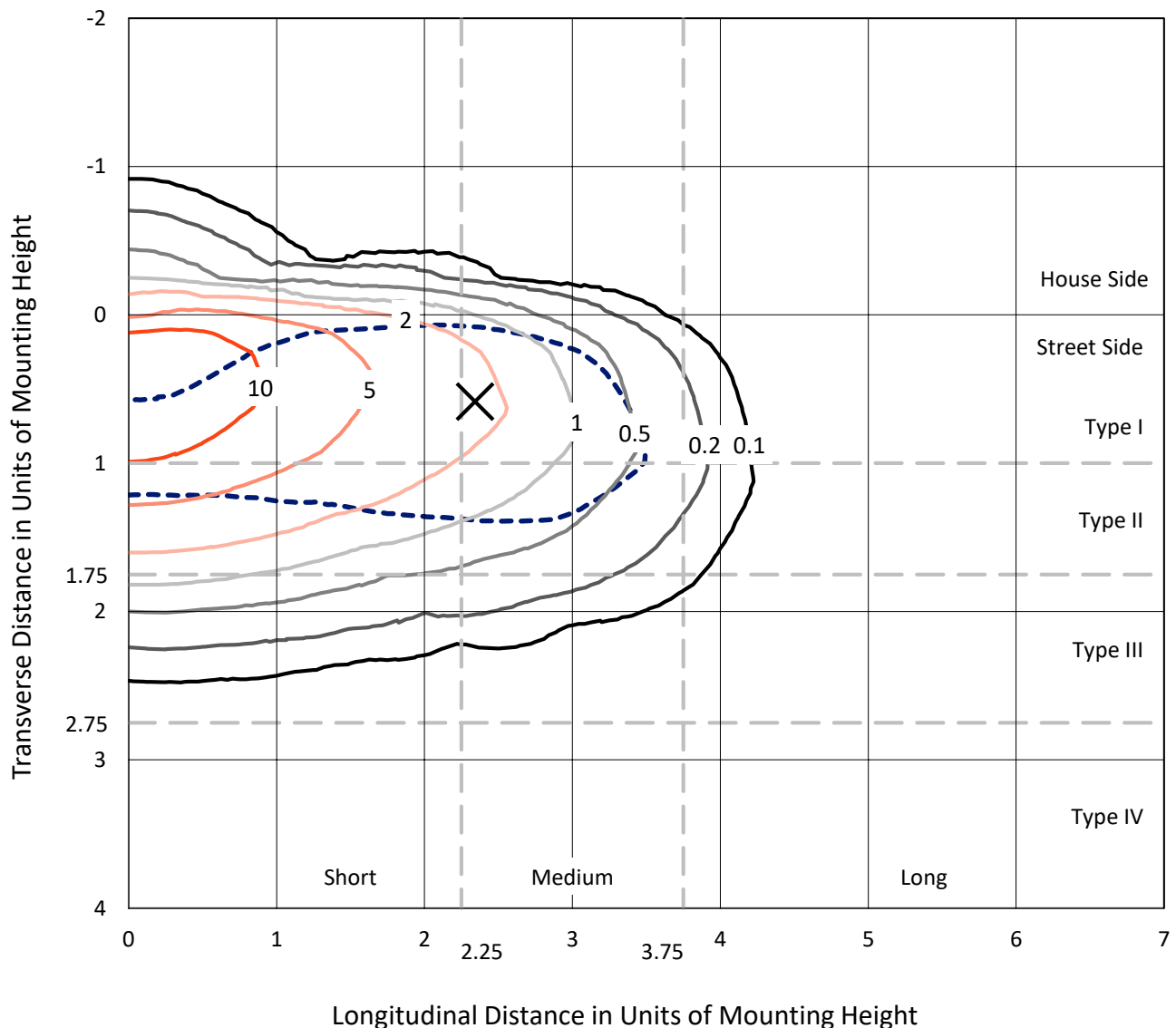
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

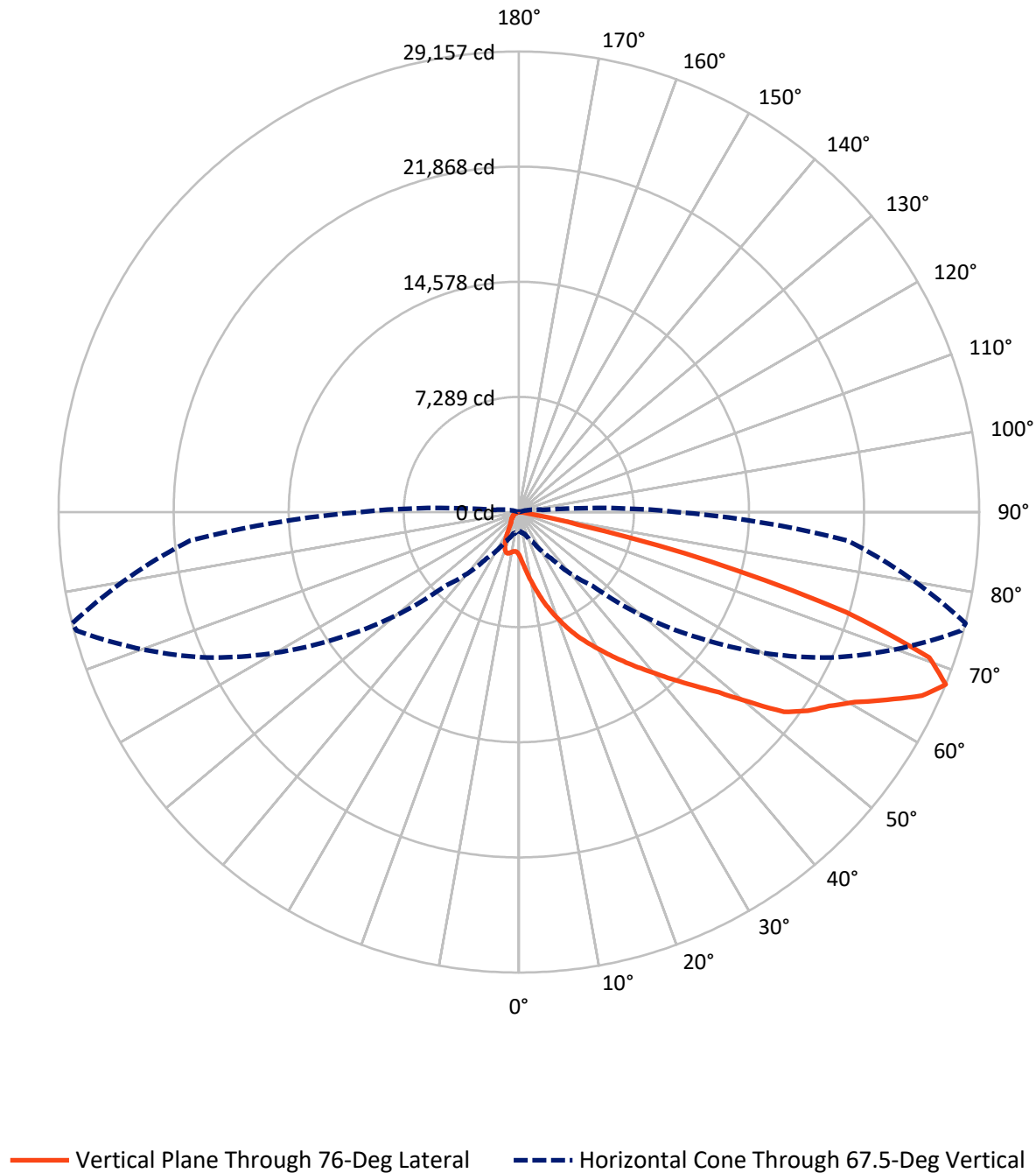
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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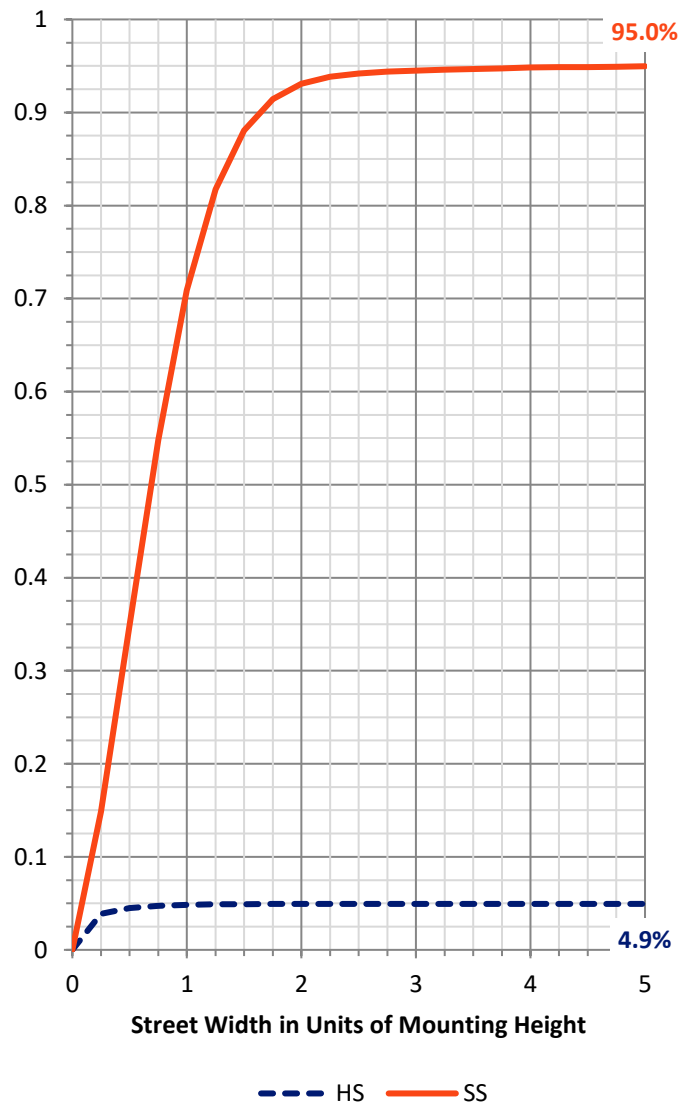
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1593.4	0.0	1593.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	30495.5	0.0	30495.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	32089.0	0.0	32089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.5	1.1
10°-20°	1341.8	4.2
20°-30°	2730.1	8.5
30°-40°	4738.6	14.8
40°-50°	6695.1	20.9
50°-60°	7592.5	23.7
60°-70°	6297.3	19.6
70°-80°	2281.1	7.1
80°-90°	74.0	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°	32089.0	100.0
0°-180°	32089.0	100.0

Coefficient of Utilization



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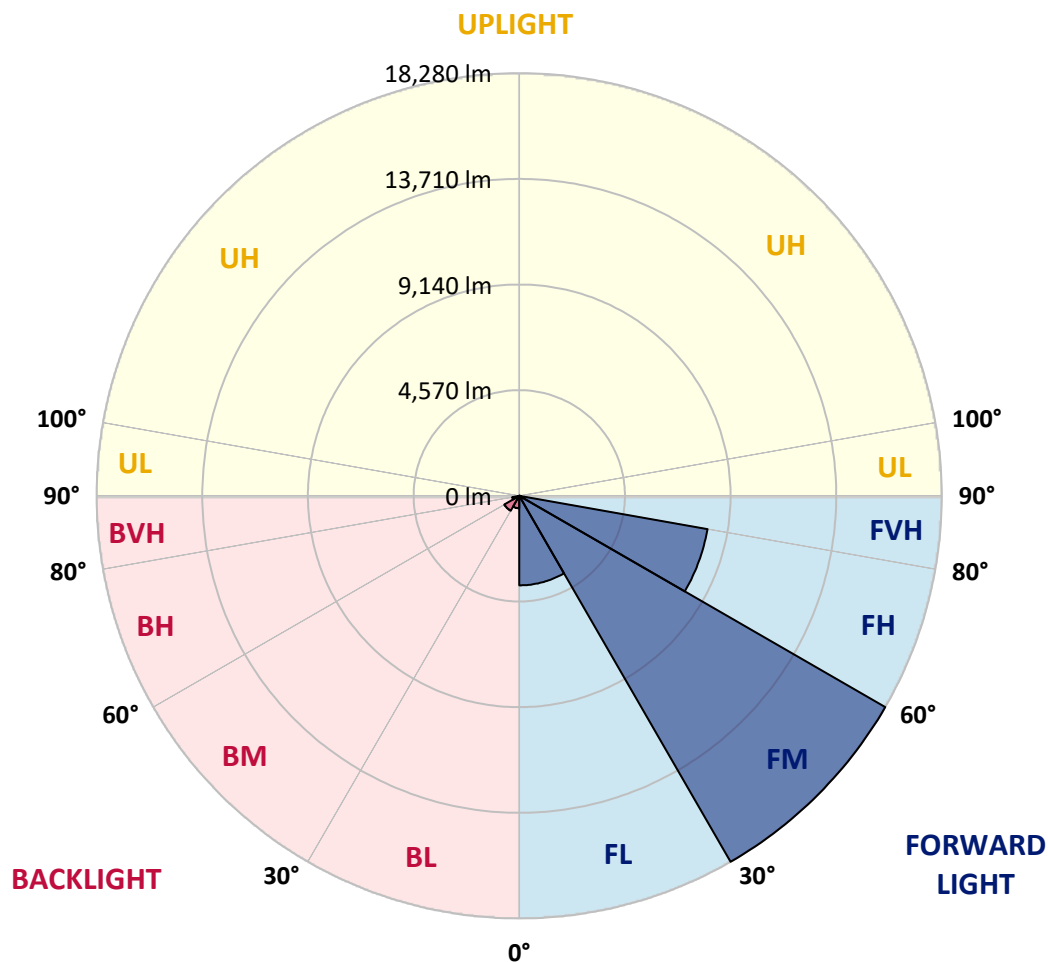
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3873.0	12.1			
FM	(30°-60°)	18280.5	57.0			
FH	(60°-80°)	8270.4	25.8			G4/12000
FVH	(80°-90°)	71.6	0.2			G1/100
BL	(0°-30°)	537.4	1.7	B2/1000		
BM	(30°-60°)	745.8	2.3	B1/1000		
BH	(60°-80°)	307.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1
2.5°	4063.4	3972.0	3993.1	3934.1	3827.2	3607.9	3420.9	3243.7	3037.0	3030.0	2859.9
5°	5479.3	5402.0	5392.1	5272.6	5078.6	4706.0	4343.2	3929.9	3468.7	3434.9	3073.6
7.5°	6764.4	6702.6	6680.1	6538.0	6176.7	5813.9	5341.5	4734.1	4012.8	3950.9	3361.8
10°	7751.5	7721.9	7727.5	7626.3	7317.0	6979.5	6359.5	5584.8	4630.1	4534.5	3707.7
12.5°	8499.5	8506.5	8557.1	8495.2	8322.3	8072.0	7409.8	6491.6	5313.4	5182.6	4102.8
15°	9049.2	9084.4	9177.2	9254.5	9241.8	9025.3	8417.9	7412.6	6038.9	5894.1	4542.9
17.5°	9404.9	9444.3	9579.3	9750.8	9908.3	9857.7	9390.9	8301.2	6772.9	6605.5	5013.9
20°	9717.1	9763.5	9908.3	10134.7	10428.5	10491.8	10185.3	9163.1	7505.4	7301.5	5500.4
22.5°	10393.4	10392.0	10480.6	10612.7	10892.5	11055.6	10861.6	9963.1	8229.5	8017.2	5996.7
25°	11616.6	11570.2	11539.3	11435.3	11497.1	11598.4	11490.1	10711.1	8957.8	8742.7	6500.1
27.5°	13070.5	13098.6	12848.3	12568.5	12352.0	12247.9	12070.8	11404.3	9658.0	9421.8	6992.2
30°	14604.4	14612.9	14317.6	13960.5	13483.8	13088.7	12782.2	12066.6	10377.9	10120.6	7470.2
32.5°	15988.0	15933.1	15640.7	15154.2	14552.4	14108.1	13471.2	12806.1	11140.0	10891.1	8001.7
35°	17084.7	17020.0	16664.3	16221.4	15597.1	15150.0	14383.7	13544.3	11941.4	11698.2	8534.6
37.5°	17886.1	17810.2	17444.6	16989.1	16450.6	16190.5	15442.4	14347.1	12816.0	12554.5	9095.6
40°	18164.5	18098.4	17869.3	17536.0	17103.0	17043.9	16565.9	15270.9	13767.9	13489.5	9731.1
42.5°	17998.6	17933.9	17852.4	17739.9	17559.9	17616.2	17626.0	16324.0	14825.2	14551.0	10432.8
45°	17340.6	17282.9	17367.3	17531.8	17755.4	18033.8	18593.4	17455.9	16006.3	15713.8	11244.0
47.5°	16371.8	16329.6	16563.0	16973.6	17627.4	18395.1	19477.8	18645.4	17332.1	17060.8	12256.4
50°	14993.9	14986.9	15453.7	16203.1	17208.4	18569.5	20391.7	19998.0	19174.0	18888.6	13663.8
52.5°	12848.3	12862.4	13780.5	14979.9	16473.1	18451.3	20979.4	21735.8	21316.8	21020.2	14882.8
55°	10805.4	10889.7	11540.7	13270.1	15345.4	18012.7	21181.9	22547.1	22499.3	22218.1	15560.5
57.5°	8804.6	8957.8	9584.9	11200.4	13699.0	17001.7	21070.8	22898.6	23379.5	23164.4	16454.8
60°	6636.5	6706.8	7429.5	8939.5	11585.7	15157.0	20265.1	23089.8	24583.1	24434.0	17752.6
62.5°	4222.3	4398.1	5039.2	6495.9	9021.1	12595.2	18906.9	23087.0	26088.9	26170.5	19427.1
65°	2224.3	2429.6	2769.9	4025.5	6199.2	9734.0	16863.9	22870.5	27936.4	28050.3	20736.1
67.5°	1199.3	1258.4	1438.4	2089.4	3595.2	6594.3	13862.1	21801.9	29006.4	29156.9	20918.9
70°	877.4	909.7	977.2	1155.8	1809.6	3830.0	10115.0	19379.3	27627.1	27570.9	18586.3
72.5°	673.5	724.1	774.7	846.4	1040.5	2044.4	6297.6	15175.3	22043.8	21672.6	13893.0
75°	531.5	539.9	611.6	676.3	780.3	1164.2	2796.6	8838.3	13454.3	12575.5	7204.5
77.5°	424.6	430.2	472.4	528.7	627.1	764.9	866.1	3477.1	4295.4	3832.8	1563.5
80°	251.7	265.7	351.5	407.7	520.2	482.3	316.4	755.0	670.7	607.4	262.9
82.5°	140.6	151.9	198.3	322.0	362.8	230.6	157.5	203.9	157.5	153.3	74.5
85°	0.0	7.0	127.9	199.7	147.6	50.6	66.1	67.5	46.4	43.6	29.5
87.5°	0.0	0.0	39.4	38.0	5.6	8.4	15.5	22.5	18.3	18.3	15.5
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°	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1	2722.1
2.5°	2775.5	2699.6	2556.2	2415.6	2297.5	2200.4	2113.3	2078.1	2050.0	2045.8	2023.3
5°	2899.2	2746.0	2471.8	2246.8	2096.4	1989.5	1898.1	1841.9	1798.3	1781.4	1766.0
7.5°	3086.2	2854.2	2460.6	2201.8	2021.9	1841.9	1673.2	1490.4	1376.5	1332.9	1307.6
10°	3314.0	2997.7	2502.7	2189.2	1874.2	1494.6	1214.8	982.8	888.6	857.7	849.2
12.5°	3579.8	3176.2	2575.8	2110.5	1559.3	1061.6	838.0	759.3	738.2	728.3	728.3
15°	3884.9	3371.7	2627.9	1882.7	1152.9	802.8	725.5	689.0	666.5	653.8	655.2
17.5°	4197.0	3562.9	2602.6	1552.3	850.6	714.3	656.6	617.2	586.3	573.7	570.8
20°	4512.0	3740.0	2462.0	1155.8	719.9	648.2	583.5	539.9	509.0	496.3	493.5
22.5°	4838.2	3890.5	2214.5	847.8	646.8	575.1	511.8	468.2	438.7	427.4	421.8
25°	5155.9	4012.8	1868.6	686.1	577.9	506.2	445.7	404.9	378.2	367.0	365.6
27.5°	5452.6	4090.1	1467.9	606.0	517.4	444.3	389.5	352.9	330.4	322.0	320.6
30°	5719.7	4097.2	1085.5	546.9	464.0	390.9	340.3	307.9	288.2	279.8	277.0
32.5°	5989.7	4038.1	790.2	493.5	414.8	344.5	295.3	270.0	255.9	248.9	248.9
35°	6244.2	3901.7	615.8	447.1	367.0	299.5	260.1	241.8	233.4	226.4	226.4
37.5°	6493.1	3706.3	523.0	406.3	322.0	261.5	229.2	217.9	210.9	203.9	203.9
40°	6746.1	3460.2	475.2	368.4	285.4	232.0	203.9	194.0	187.0	181.4	180.0
42.5°	7056.9	3176.2	444.3	333.2	253.1	205.3	180.0	168.7	163.1	157.5	154.7
45°	7416.8	2931.6	419.0	298.1	226.4	182.8	156.1	144.8	136.4	129.4	127.9
47.5°	7935.6	2754.4	385.3	260.1	201.1	158.9	135.0	122.3	109.7	102.6	101.2
50°	8597.9	2608.2	341.7	226.4	175.8	135.0	112.5	97.0	85.8	78.7	78.7
52.5°	8926.9	2417.0	302.3	196.8	147.6	113.9	91.4	73.1	67.5	60.5	60.5
55°	9059.1	2270.7	262.9	167.3	122.3	94.2	71.7	56.2	52.0	47.8	46.4
57.5°	9430.3	2228.6	229.2	142.0	101.2	74.5	54.8	42.2	39.4	33.7	33.7
60°	10027.8	2249.7	198.3	120.9	81.5	57.6	40.8	32.3	29.5	23.9	23.9
62.5°	10673.2	2222.9	167.3	104.0	63.3	42.2	28.1	23.9	23.9	14.1	12.7
65°	10796.9	1979.7	143.4	85.8	49.2	30.9	18.3	15.5	21.1	2.8	0.0
67.5°	10020.8	1535.4	123.7	66.1	36.6	23.9	14.1	7.0	18.3	0.0	0.0
70°	8013.0	975.8	99.8	47.8	28.1	19.7	11.2	2.8	14.1	0.0	0.0
72.5°	5666.3	566.6	78.7	33.7	23.9	15.5	8.4	0.0	8.4	0.0	0.0
75°	2865.5	302.3	49.2	25.3	18.3	11.2	5.6	0.0	1.4	0.0	0.0
77.5°	620.1	140.6	30.9	18.3	12.7	7.0	2.8	0.0	0.0	0.0	0.0
80°	135.0	61.9	19.7	11.2	7.0	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	32.3	9.8	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.7	16.9	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	5.6	1.4	1.4	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)