

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: P324934

Luminaire Tested: **GAN-SA0C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42130 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

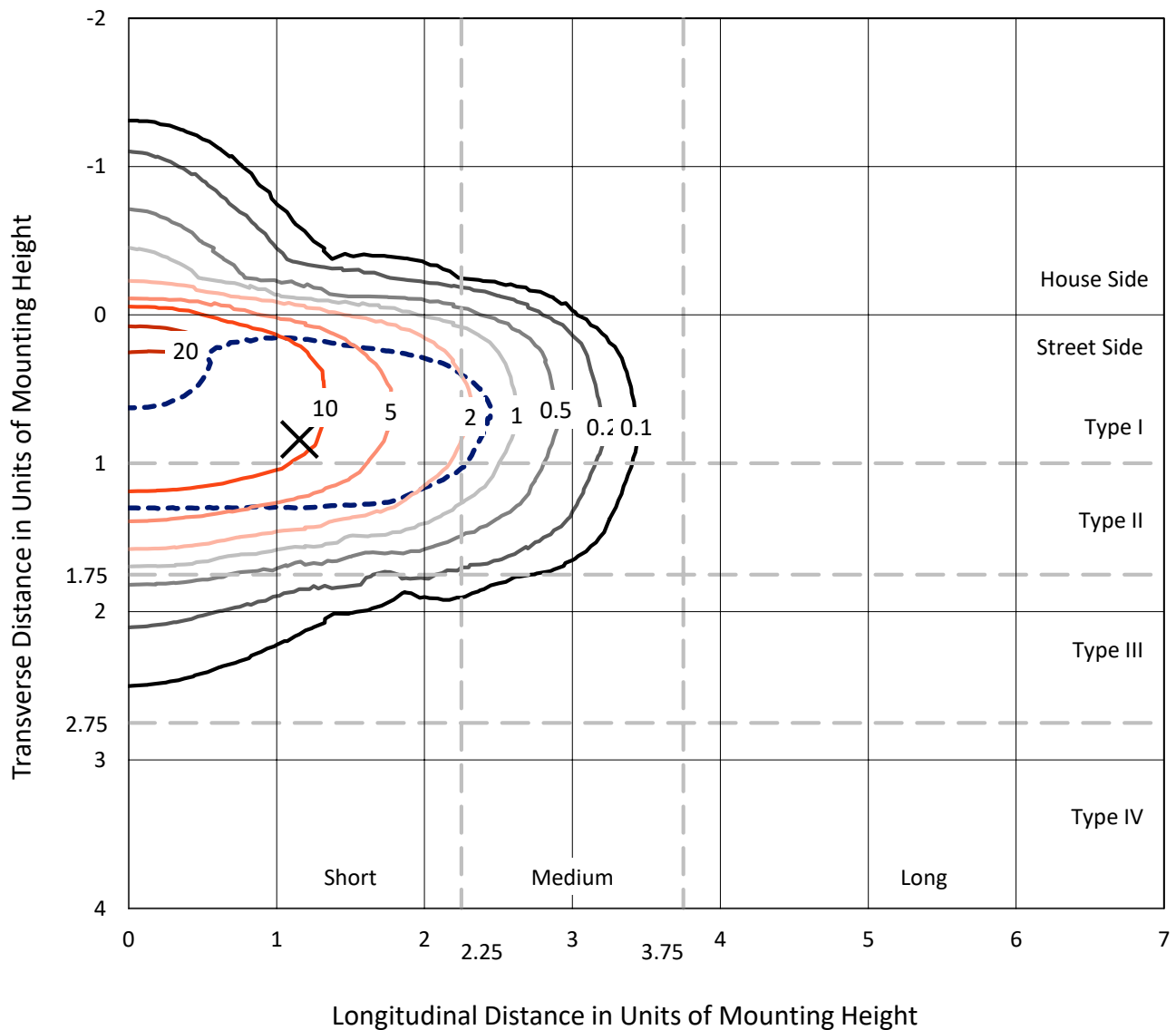
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

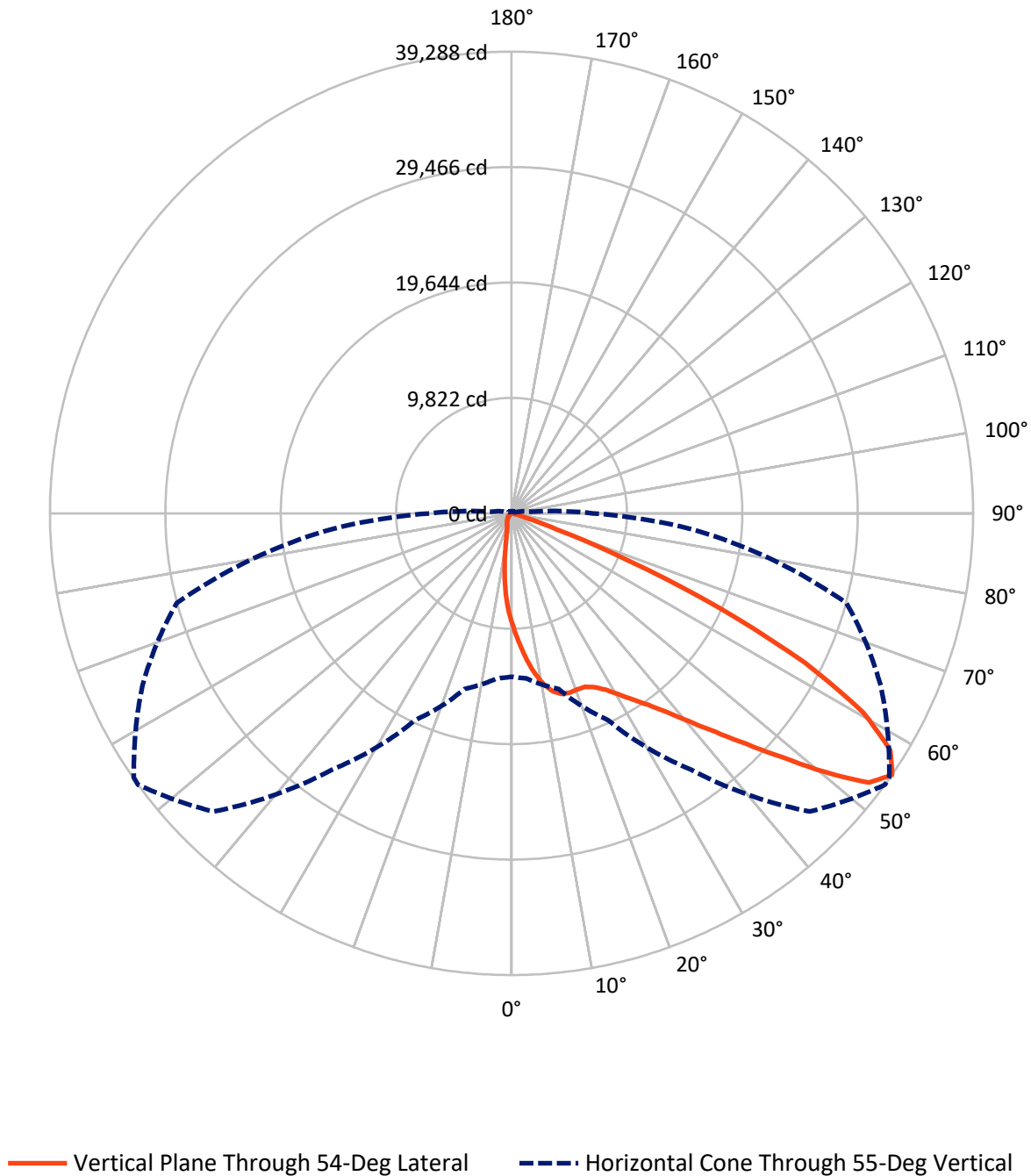
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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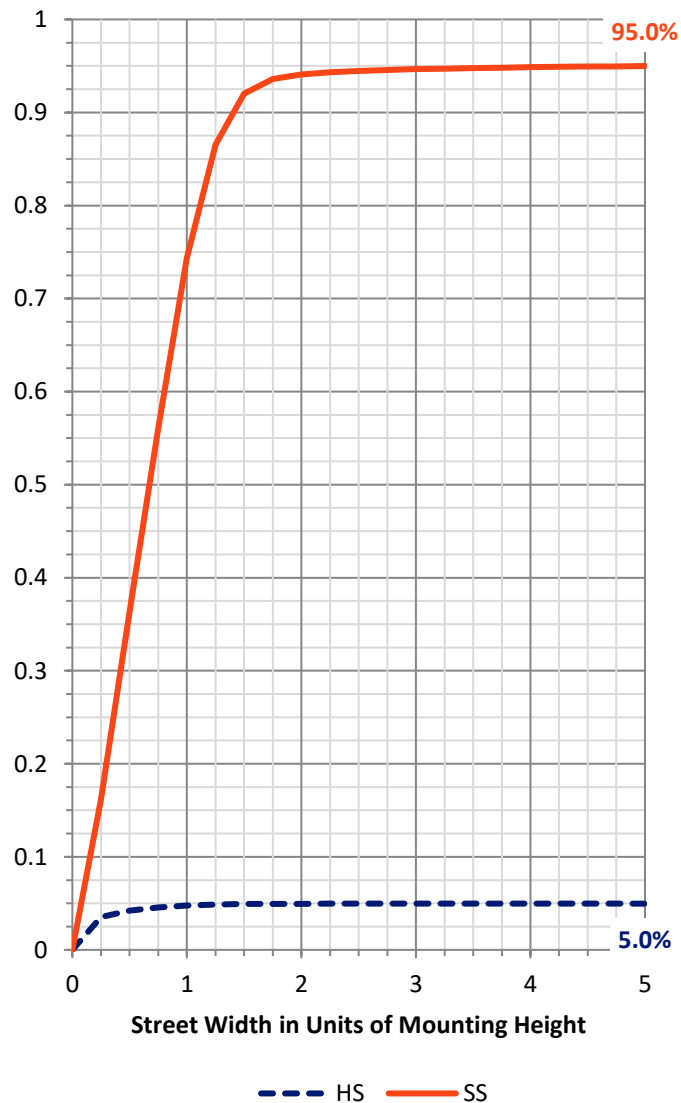
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2102.0	0.0	2102.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	40028.0	0.0	40028.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	42130.0	0.0	42130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.9	2.1
10°-20°	2383.0	5.7
20°-30°	4068.5	9.7
30°-40°	6529.3	15.5
40°-50°	10433.8	24.8
50°-60°	11180.1	26.5
60°-70°	5740.2	13.6
70°-80°	869.5	2.1
80°-90°	56.6	0.1
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°	42130.0	100.0
0°-180°	42130.0	100.0

Coefficient of Utilization



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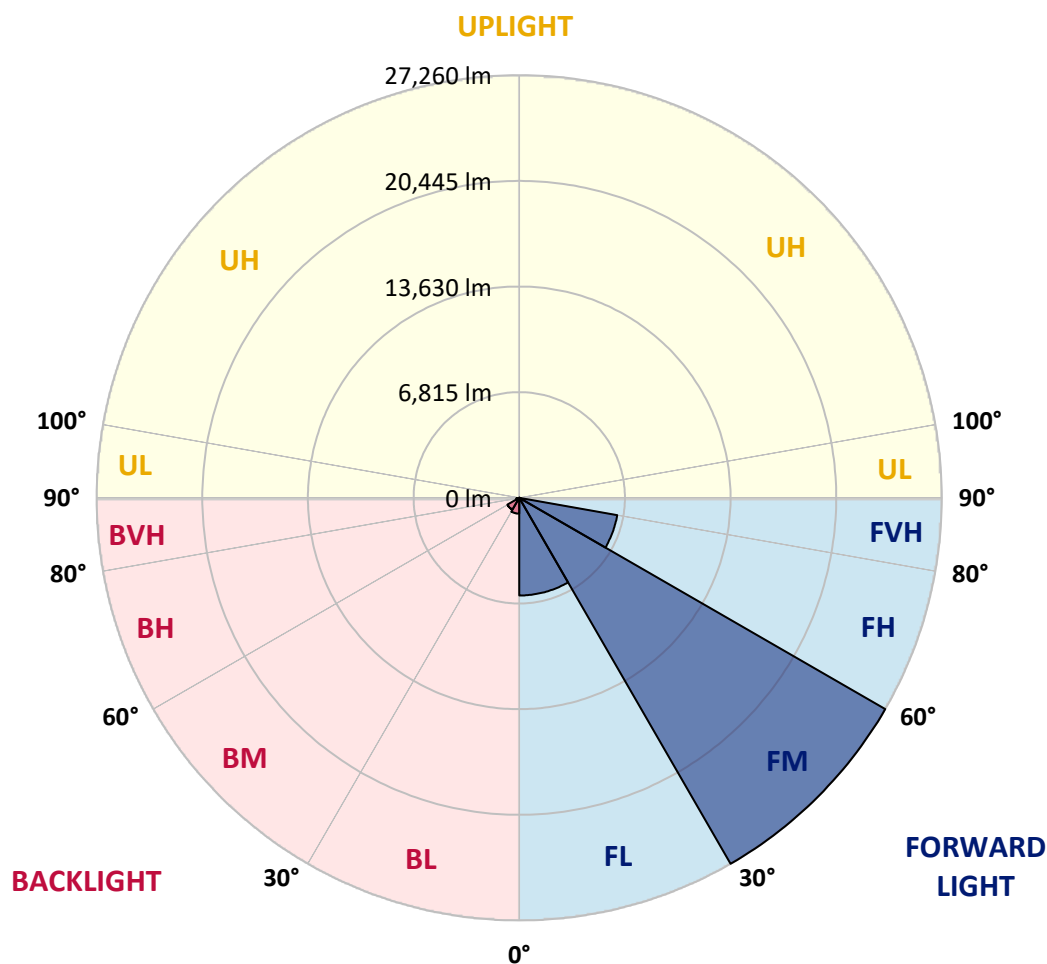
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6297.7	14.9			
FM	(30°-60°)	27260.0	64.7			
FH	(60°-80°)	6416.0	15.2			G3/7500
FVH	(80°-90°)	54.3	0.1			G1/100
BL	(0°-30°)	1022.7	2.4	B3/2500		
BM	(30°-60°)	883.3	2.1	B1/1000		
BH	(60°-80°)	193.7	0.5	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: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4
2.5°	11840.7	11664.2	11669.7	11589.6	11296.7	11067.4	10829.1	10772.7	10401.5	10012.2	9637.4
5°	13887.5	13758.3	13727.4	13572.8	13165.2	12734.0	12271.9	12164.5	11438.6	10641.7	9857.5
7.5°	14939.1	14940.9	14915.5	14859.1	14604.4	14185.9	13621.9	13509.1	12521.1	11325.8	10086.8
10°	14633.5	14702.6	14844.5	15031.9	15226.6	15173.8	14749.9	14648.0	13574.6	12049.9	10341.5
12.5°	13920.3	13929.4	14087.6	14395.1	14955.5	15530.4	15537.7	15503.1	14580.7	12806.8	10621.7
15°	13565.5	13600.0	13658.3	13856.6	14387.8	15308.5	15967.1	16016.2	15503.1	13611.0	10920.1
17.5°	13798.4	13847.5	13798.4	13822.0	14129.5	14957.3	16041.7	16167.2	16309.1	14406.0	11202.1
20°	14429.7	14475.2	14387.8	14291.4	14351.5	14855.4	15988.9	16158.1	16940.5	15112.0	11438.6
22.5°	15281.2	15299.4	15166.6	15008.3	14964.6	15201.1	16032.6	16207.3	17446.3	15750.6	11587.8
25°	16218.2	16234.5	16069.0	15887.0	15783.3	15879.8	16391.0	16522.0	17892.0	16360.1	11673.3
27.5°	17238.9	17253.4	17046.0	16822.2	16702.1	16705.8	16982.3	17122.4	18366.9	17055.1	11742.4
30°	18317.8	18310.5	18119.4	17808.3	17655.5	17651.9	17833.8	17975.7	19054.6	17946.6	11837.0
32.5°	19529.5	19514.9	19243.8	18858.1	18685.3	18710.8	18872.7	18954.6	19907.9	18896.3	12006.2
35°	21125.1	21083.3	20673.9	20195.4	19877.0	19867.9	20004.3	20069.8	20995.9	20046.2	12288.3
37.5°	23195.6	23157.4	22602.5	21907.4	21459.9	21292.5	21454.4	21538.1	22547.9	21521.7	12741.3
40°	25237.0	25198.7	24869.4	24232.6	23543.1	23141.0	23268.4	23357.5	24485.5	23312.0	13312.6
42.5°	26645.2	26677.9	26792.5	26845.3	26199.4	25355.2	25413.4	25506.2	26521.5	25226.0	13965.7
45°	27016.3	27087.3	27735.0	29006.8	29248.7	28590.1	27980.6	28031.6	28590.1	27140.0	14618.9
47.5°	25901.0	26032.0	27282.0	29647.2	31695.8	32161.6	31008.1	30940.8	30575.1	28688.4	15082.9
50°	23366.6	23486.7	25106.0	28604.7	32438.2	35571.2	34636.0	34437.7	32316.3	29614.4	15246.6
52.5°	19698.7	19844.2	21159.7	25322.5	31039.0	37092.2	38071.0	37905.5	33593.5	29687.2	15273.9
55°	13911.2	14087.6	15479.5	19407.6	26605.1	35882.3	39288.2	39239.1	34654.2	29494.4	15332.1
57.5°	7818.0	7945.3	9446.3	12441.1	19485.8	31253.7	38016.4	38342.1	35294.6	29159.6	15419.4
60°	3471.4	3506.0	4282.9	6193.3	11407.7	23885.1	34375.8	34925.3	34745.2	28712.0	15566.8
62.5°	1924.9	1895.8	1895.8	2574.5	4957.9	14786.3	28031.6	28939.4	32399.9	28182.6	15574.1
65°	1508.3	1481.0	1402.8	1413.7	1888.5	6562.6	19411.2	21025.0	27946.0	26630.6	15050.1
67.5°	1279.0	1255.4	1177.2	1146.2	1173.5	2165.1	10665.3	12341.0	21205.2	22597.0	13036.0
70°	1080.7	1064.4	1024.3	986.1	917.0	1069.8	4080.9	5219.9	13067.0	15031.9	8898.7
72.5°	869.7	862.4	877.0	844.2	760.5	713.2	1395.5	1690.2	5869.4	6708.1	3666.1
75°	749.6	746.0	753.2	720.5	625.9	496.7	709.6	775.1	1655.7	1641.1	742.3
77.5°	487.6	493.1	624.1	609.5	538.5	331.1	367.5	396.6	502.2	376.6	225.6
80°	311.1	307.5	316.6	505.8	484.0	252.9	183.8	192.9	242.0	185.6	109.2
82.5°	189.2	185.6	207.4	236.5	243.8	176.5	112.8	114.6	151.0	120.1	58.2
85°	16.4	21.8	125.5	116.4	83.7	54.6	54.6	58.2	80.1	71.0	32.7
87.5°	0.0	0.0	21.8	32.7	18.2	20.0	20.0	21.8	30.9	30.9	16.4
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°	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4	9435.4
2.5°	9442.7	9253.5	8871.4	8503.9	8192.8	7892.6	7550.5	7212.1	7053.8	6990.2	6924.7
5°	9459.1	9069.7	8281.9	7488.7	6666.3	5925.8	5294.5	4646.8	4322.9	4181.0	4115.5
7.5°	9480.9	8887.8	7614.2	6282.4	4957.9	3953.6	3076.6	2512.6	2268.8	2230.6	2136.0
10°	9484.6	8667.6	6839.1	4950.6	3324.1	2383.4	1834.0	1542.9	1435.5	1417.3	1386.4
12.5°	9491.8	8407.5	5978.6	3666.1	2216.0	1593.8	1326.3	1229.9	1200.8	1199.0	1199.0
15°	9513.7	8134.6	5085.2	2641.8	1592.0	1262.7	1164.4	1126.2	1115.3	1120.8	1118.9
17.5°	9513.7	7812.5	4208.3	1968.6	1286.3	1135.3	1080.7	1055.3	1051.6	1057.1	1058.9
20°	9444.5	7421.3	3404.1	1531.9	1140.8	1053.4	1004.3	980.7	971.6	975.2	977.0
22.5°	9279.0	6941.0	2749.1	1268.1	1044.3	978.8	926.1	889.7	875.1	877.0	877.0
25°	9020.6	6371.6	2150.5	1097.1	966.1	898.8	836.9	795.1	786.0	784.2	787.8
27.5°	8689.5	5742.0	1712.1	966.1	873.3	809.6	747.8	713.2	705.9	707.7	709.6
30°	8363.8	5088.9	1350.0	855.1	769.6	709.6	662.3	645.9	645.9	651.3	653.2
32.5°	8065.4	4461.2	1068.0	758.7	676.8	622.2	594.9	593.1	602.2	605.9	607.7
35°	7808.9	3880.8	884.2	684.1	604.0	556.7	547.6	554.9	565.8	573.1	574.9
37.5°	7626.9	3362.3	773.2	622.2	547.6	509.4	507.6	522.2	536.7	553.1	556.7
40°	7550.5	2923.8	696.8	567.7	502.2	473.0	467.6	487.6	514.9	538.5	542.2
42.5°	7486.8	2565.4	631.3	514.9	465.8	423.9	422.1	447.6	480.3	504.0	509.4
45°	7432.3	2277.9	571.3	458.5	418.5	363.9	369.3	402.1	427.6	453.0	458.5
47.5°	7319.5	2041.4	505.8	398.4	345.7	311.1	322.0	351.1	371.2	409.4	414.8
50°	7117.5	1848.5	438.5	325.7	282.0	269.3	285.6	305.7	331.1	363.9	367.5
52.5°	6981.1	1703.0	380.3	272.9	232.9	236.5	252.9	260.2	274.7	287.5	283.8
55°	6902.8	1622.9	333.0	236.5	198.3	209.2	212.9	203.8	196.5	183.8	178.3
57.5°	6893.7	1550.1	296.6	205.6	174.7	180.1	167.4	136.5	111.0	96.4	92.8
60°	6879.2	1461.0	267.5	172.8	154.6	147.4	120.1	74.6	52.8	49.1	49.1
62.5°	6720.9	1322.7	245.6	145.6	131.0	111.0	69.1	34.6	29.1	30.9	30.9
65°	6216.9	1129.8	223.8	118.3	103.7	80.1	34.6	20.0	10.9	12.7	12.7
67.5°	5285.4	900.6	200.1	91.0	78.2	50.9	20.0	9.1	0.0	0.0	0.0
70°	3538.7	558.6	169.2	63.7	50.9	30.9	14.6	1.8	0.0	0.0	0.0
72.5°	1357.3	302.0	136.5	38.2	32.7	21.8	9.1	0.0	0.0	0.0	0.0
75°	305.7	198.3	94.6	27.3	23.7	14.6	3.6	0.0	0.0	0.0	0.0
77.5°	116.4	143.7	54.6	18.2	16.4	9.1	0.0	0.0	0.0	0.0	0.0
80°	56.4	85.5	25.5	10.9	9.1	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	29.1	32.7	10.9	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	16.4	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	5.5	1.8	1.8	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)