

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: P324952

Luminaire Tested: **GAN-SA8A-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324952
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-SA8A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 24296 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

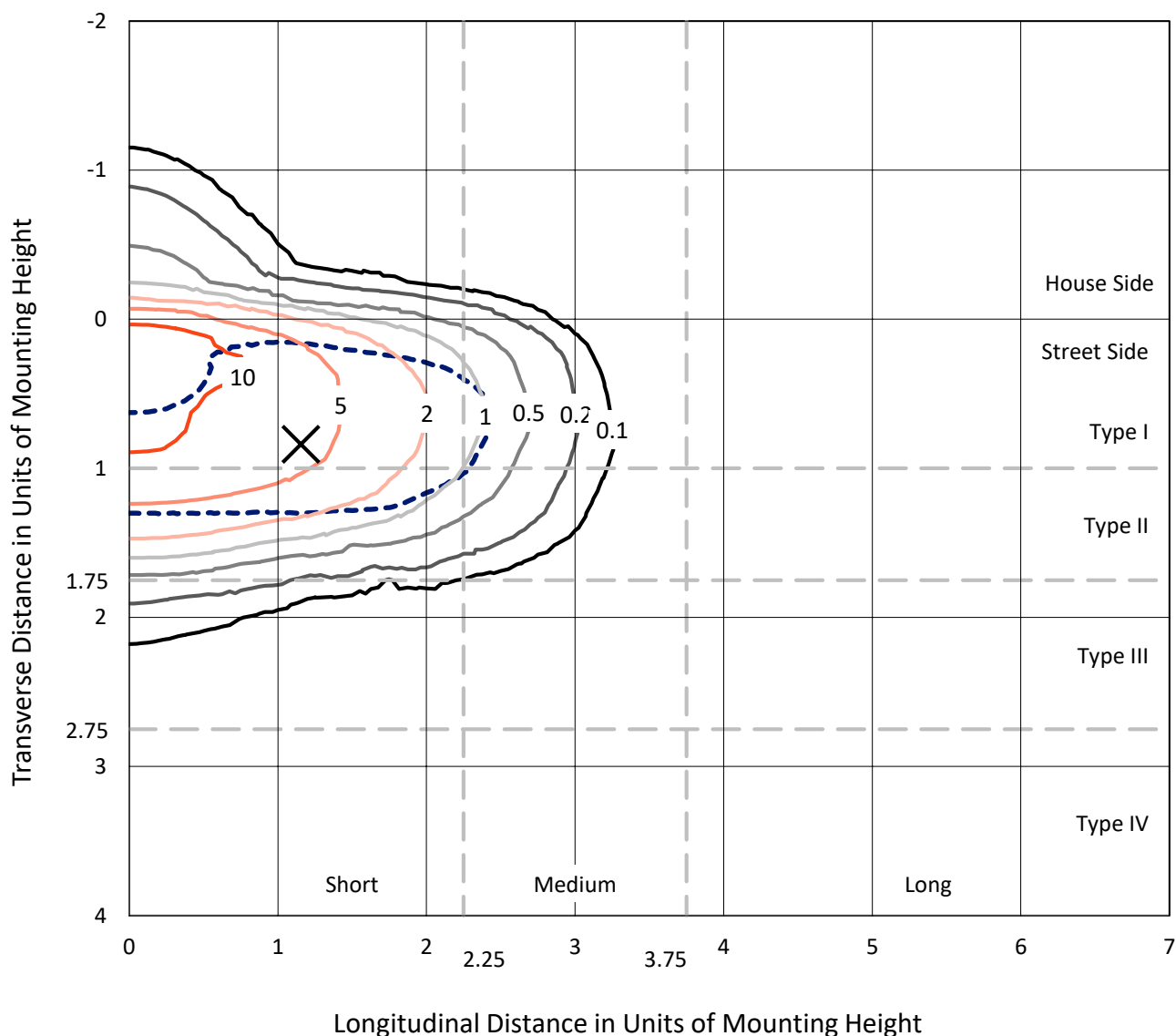
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

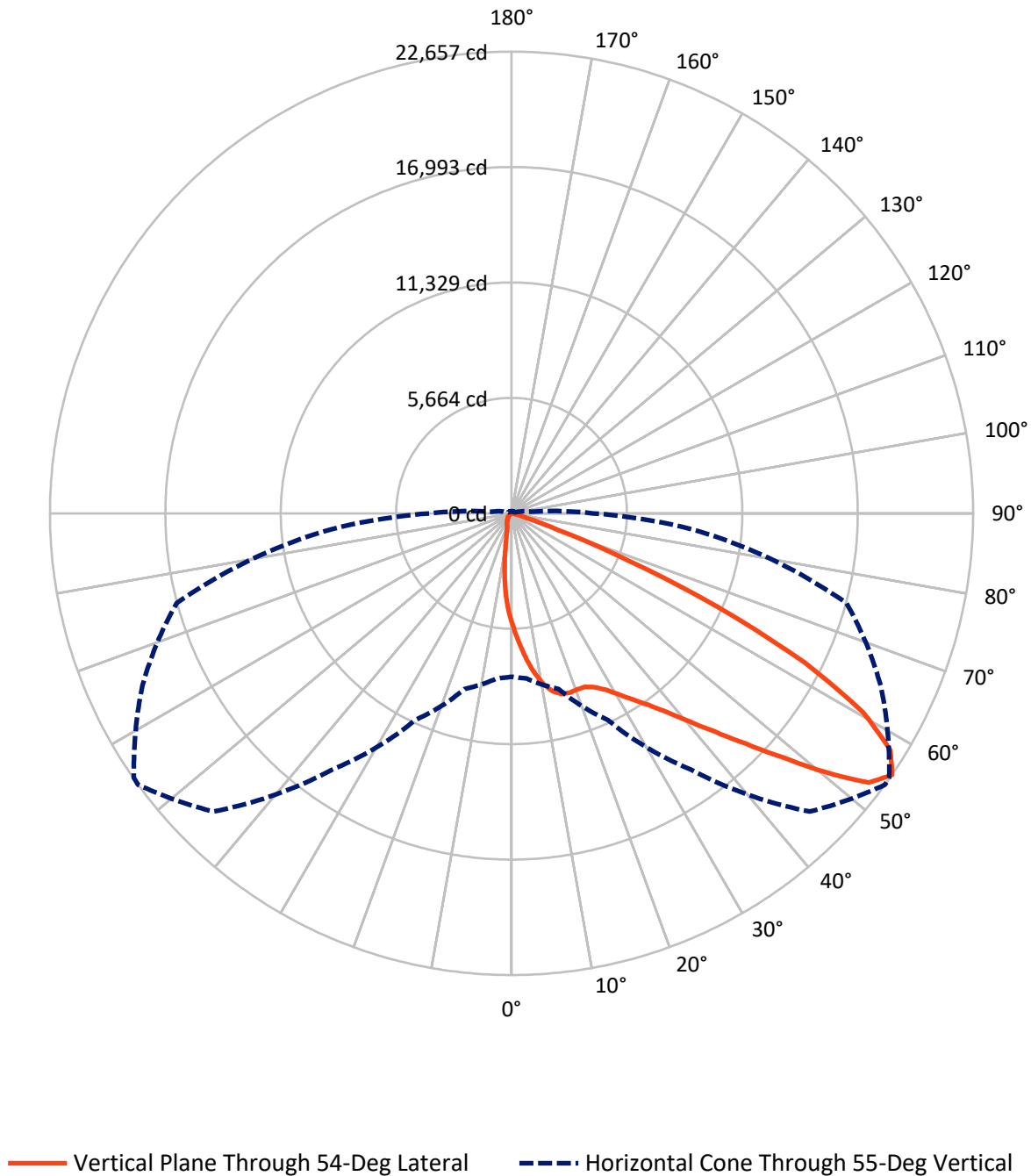
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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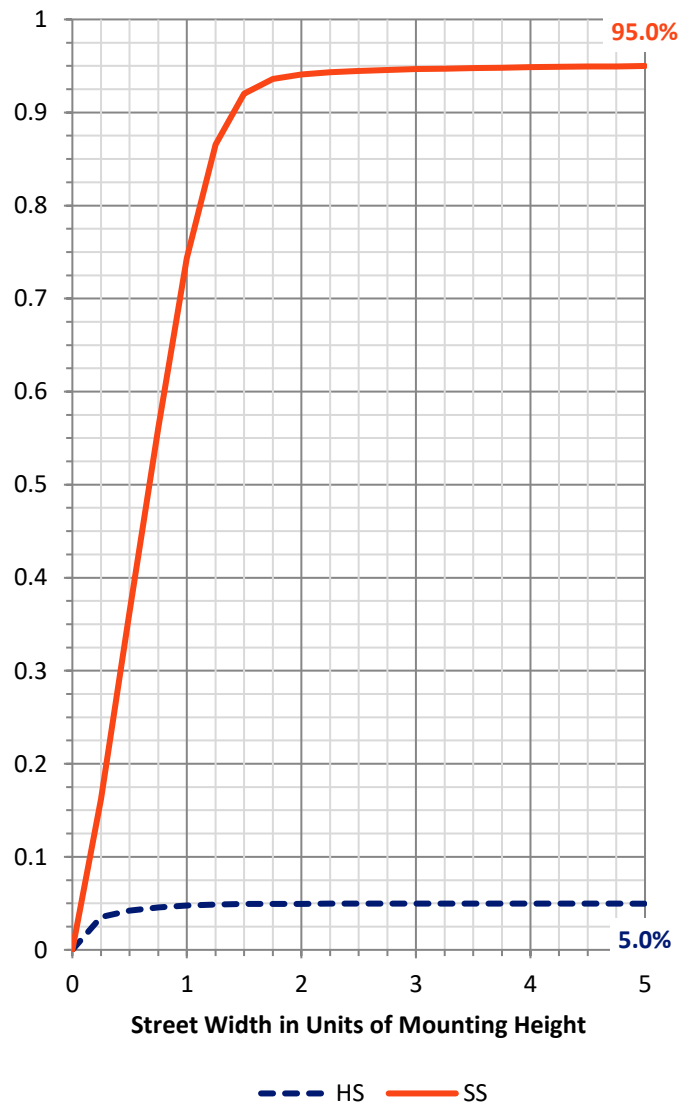
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.2	0.0	1212.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23083.8	0.0	23083.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	24296.0	0.0	24296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.1	2.1
10°-20°	1374.2	5.7
20°-30°	2346.3	9.7
30°-40°	3765.4	15.5
40°-50°	6017.1	24.8
50°-60°	6447.5	26.5
60°-70°	3310.3	13.6
70°-80°	501.4	2.1
80°-90°	32.6	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°	24296.0	100.0
0°-180°	24296.0	100.0

Coefficient of Utilization



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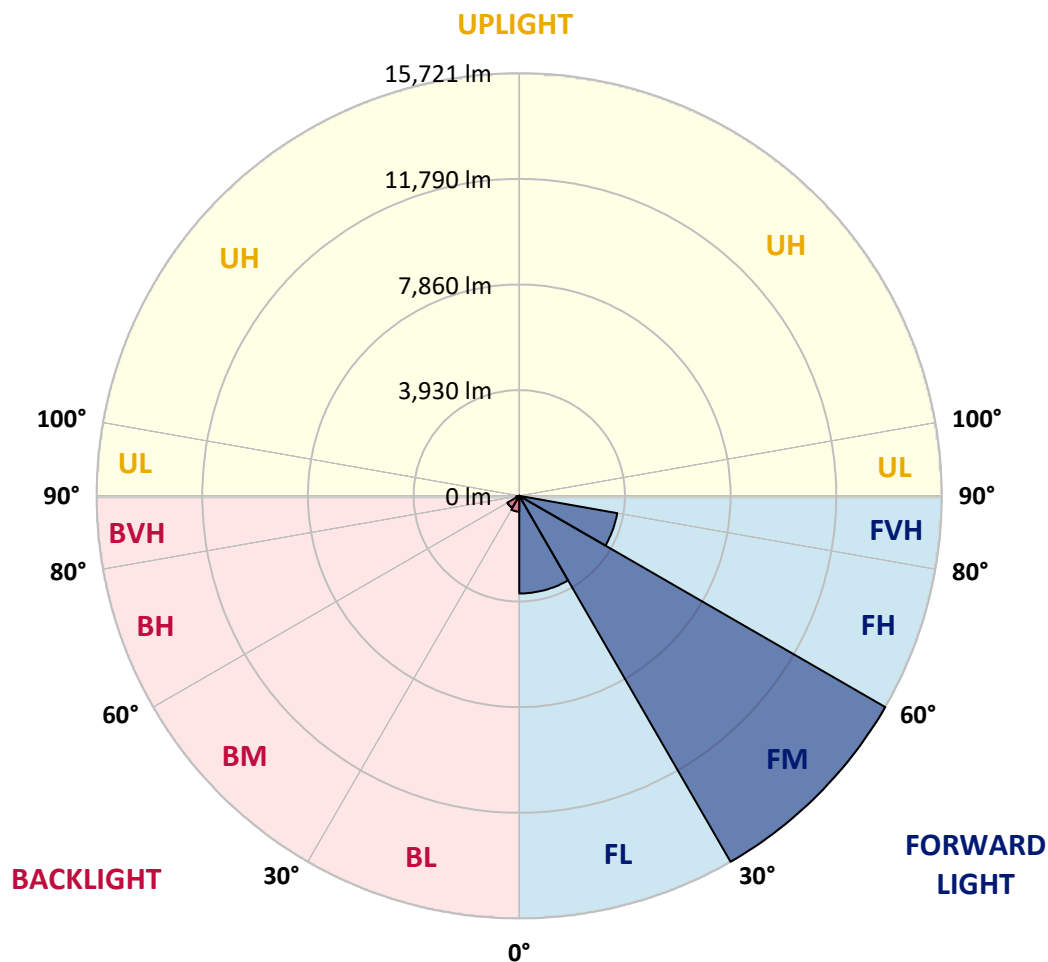
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3631.8	14.9			
FM	(30°-60°)	15720.6	64.7			
FH	(60°-80°)	3700.1	15.2			G2/5000
FVH	(80°-90°)	31.3	0.1			G1/100
BL	(0°-30°)	589.8	2.4	B2/1000		
BM	(30°-60°)	509.4	2.1	B1/1000		
BH	(60°-80°)	111.7	0.5	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3
2.5°	6828.4	6726.6	6729.8	6683.6	6514.7	6382.5	6245.0	6212.5	5998.5	5773.9	5557.8
5°	8008.8	7934.3	7916.5	7827.3	7592.3	7343.6	7077.1	7015.2	6596.5	6137.0	5684.8
7.5°	8615.3	8616.3	8601.6	8569.1	8422.2	8180.9	7855.6	7790.6	7220.8	6531.5	5817.0
10°	8439.0	8478.9	8560.7	8668.8	8781.0	8750.6	8506.1	8447.4	7828.3	6949.1	5963.8
12.5°	8027.7	8032.9	8124.2	8301.5	8624.7	8956.3	8960.5	8940.5	8408.6	7385.6	6125.4
15°	7823.1	7843.0	7876.6	7991.0	8297.3	8828.3	9208.1	9236.4	8940.5	7849.3	6297.5
17.5°	7957.4	7985.7	7957.4	7971.0	8148.4	8625.8	9251.1	9323.5	9405.3	8307.8	6460.1
20°	8321.5	8347.7	8297.3	8241.7	8276.4	8567.0	9220.7	9318.2	9769.4	8714.9	6596.5
22.5°	8812.5	8823.0	8746.4	8655.1	8630.0	8766.4	9245.9	9346.6	10061.1	9083.2	6682.6
25°	9352.9	9362.3	9266.8	9161.9	9102.1	9157.7	9452.6	9528.1	10318.2	9434.7	6731.9
27.5°	9941.5	9949.9	9830.3	9701.2	9632.0	9634.1	9793.6	9874.3	10592.0	9835.5	6771.8
30°	10563.7	10559.5	10449.3	10269.9	10181.8	10179.7	10284.6	10366.4	10988.6	10349.6	6826.3
32.5°	11262.5	11254.1	11097.8	10875.3	10775.6	10790.3	10883.7	10930.9	11480.7	10897.3	6923.9
35°	12182.7	12158.5	11922.4	11646.5	11462.9	11457.6	11536.3	11574.1	12108.2	11560.5	7086.5
37.5°	13376.7	13354.7	13034.6	12633.8	12375.7	12279.2	12372.6	12420.8	13003.2	12411.4	7347.8
40°	14553.9	14531.9	14342.0	13974.8	13577.1	13345.2	13418.7	13470.1	14120.6	13443.8	7677.2
42.5°	15366.0	15384.9	15451.0	15481.5	15109.0	14622.1	14655.7	14709.2	15294.7	14547.6	8053.9
45°	15580.1	15621.0	15994.5	16727.9	16867.5	16487.7	16136.2	16165.6	16487.7	15651.4	8430.6
47.5°	14936.9	15012.4	15733.3	17097.3	18278.7	18547.3	17882.1	17843.3	17632.4	16544.3	8698.2
50°	13475.3	13544.6	14478.4	16496.1	18706.8	20513.6	19974.3	19859.9	18636.5	17078.4	8792.6
52.5°	11360.1	11444.0	12202.6	14603.2	17899.9	21390.7	21955.2	21859.7	19373.1	17120.4	8808.3
55°	8022.4	8124.2	8926.9	11192.2	15343.0	20693.0	22657.2	22628.8	19984.8	17009.1	8841.9
57.5°	4508.6	4582.0	5447.6	7174.7	11237.3	18023.7	21923.7	22111.6	20354.1	16816.1	8892.3
60°	2001.9	2021.9	2469.9	3571.6	6578.7	13774.3	19824.2	20141.1	20037.2	16558.0	8977.2
62.5°	1110.1	1093.3	1093.3	1484.7	2859.2	8527.1	16165.6	16689.1	18684.8	16252.6	8981.4
65°	869.8	854.1	809.0	815.3	1089.1	3784.6	11194.3	12125.0	16116.2	15357.6	8679.3
67.5°	737.6	724.0	678.9	661.0	676.8	1248.6	6150.6	7117.0	12228.8	13031.5	7517.8
70°	623.2	613.8	590.7	568.7	528.8	616.9	2353.4	3010.3	7535.6	8668.8	5131.8
72.5°	501.5	497.3	505.7	486.8	438.6	411.3	804.8	974.7	3384.8	3868.5	2114.2
75°	432.3	430.2	434.4	415.5	360.9	286.4	409.2	447.0	954.8	946.4	428.1
77.5°	281.2	284.3	359.9	351.5	310.6	191.0	211.9	228.7	289.6	217.2	130.1
80°	179.4	177.3	182.6	291.7	279.1	145.8	106.0	111.2	139.5	107.0	63.0
82.5°	109.1	107.0	119.6	136.4	140.6	101.8	65.1	66.1	87.1	69.2	33.6
85°	9.4	12.6	72.4	67.2	48.3	31.5	31.5	33.6	46.2	40.9	18.9
87.5°	0.0	0.0	12.6	18.9	10.5	11.5	11.5	12.6	17.8	17.8	9.4
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°	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3
2.5°	5445.5	5336.4	5116.1	4904.1	4724.7	4551.6	4354.3	4159.2	4067.9	4031.2	3993.4
5°	5455.0	5230.4	4776.1	4318.6	3844.4	3417.4	3053.3	2679.7	2493.0	2411.1	2373.4
7.5°	5467.6	5125.5	4391.0	3623.0	2859.2	2280.0	1774.3	1449.0	1308.4	1286.4	1231.8
10°	5469.7	4998.6	3944.1	2855.0	1917.0	1374.5	1057.6	889.8	827.8	817.4	799.5
12.5°	5473.9	4848.5	3447.8	2114.2	1278.0	919.1	764.9	709.3	692.5	691.4	691.4
15°	5486.4	4691.1	2932.6	1523.5	918.1	728.2	671.5	649.5	643.2	646.3	645.3
17.5°	5486.4	4505.4	2426.9	1135.3	741.8	654.7	623.2	608.6	606.5	609.6	610.7
20°	5446.6	4279.8	1963.1	883.5	657.9	607.5	579.2	565.5	560.3	562.4	563.4
22.5°	5351.1	4002.8	1585.4	731.3	602.3	564.5	534.1	513.1	504.7	505.7	505.7
25°	5202.1	3674.4	1240.2	632.7	557.1	518.3	482.6	458.5	453.3	452.2	454.3
27.5°	5011.1	3311.4	987.3	557.1	503.6	466.9	431.2	411.3	407.1	408.2	409.2
30°	4823.3	2934.7	778.5	493.1	443.8	409.2	381.9	372.5	372.5	375.6	376.7
32.5°	4651.3	2572.7	615.9	437.5	390.3	358.8	343.1	342.1	347.3	349.4	350.4
35°	4503.3	2238.0	509.9	394.5	348.3	321.1	315.8	320.0	326.3	330.5	331.6
37.5°	4398.4	1939.0	445.9	358.8	315.8	293.8	292.7	301.1	309.5	319.0	321.1
40°	4354.3	1686.1	401.9	327.4	289.6	272.8	269.7	281.2	296.9	310.6	312.7
42.5°	4317.6	1479.4	364.1	296.9	268.6	244.5	243.4	258.1	277.0	290.6	293.8
45°	4286.1	1313.6	329.5	264.4	241.3	209.8	213.0	231.9	246.6	261.3	264.4
47.5°	4221.1	1177.2	291.7	229.8	199.4	179.4	185.7	202.5	214.0	236.1	239.2
50°	4104.6	1066.0	252.9	187.8	162.6	155.3	164.7	176.3	191.0	209.8	211.9
52.5°	4025.9	982.1	219.3	157.4	134.3	136.4	145.8	150.0	158.4	165.8	163.7
55°	3980.8	935.9	192.0	136.4	114.4	120.7	122.8	117.5	113.3	106.0	102.8
57.5°	3975.5	893.9	171.0	118.6	100.7	103.9	96.5	78.7	64.0	55.6	53.5
60°	3967.2	842.5	154.2	99.7	89.2	85.0	69.2	43.0	30.4	28.3	28.3
62.5°	3875.9	762.8	141.6	83.9	75.5	64.0	39.9	19.9	16.8	17.8	17.8
65°	3585.2	651.6	129.1	68.2	59.8	46.2	19.9	11.5	6.3	7.3	7.3
67.5°	3048.0	519.4	115.4	52.5	45.1	29.4	11.5	5.2	0.0	0.0	0.0
70°	2040.8	322.1	97.6	36.7	29.4	17.8	8.4	1.0	0.0	0.0	0.0
72.5°	782.7	174.2	78.7	22.0	18.9	12.6	5.2	0.0	0.0	0.0	0.0
75°	176.3	114.4	54.6	15.7	13.6	8.4	2.1	0.0	0.0	0.0	0.0
77.5°	67.2	82.9	31.5	10.5	9.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	32.5	49.3	14.7	6.3	5.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	16.8	18.9	6.3	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	9.4	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	3.1	1.0	1.0	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)