

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: P192686

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 41433.3 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 511
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: 28.75 FT

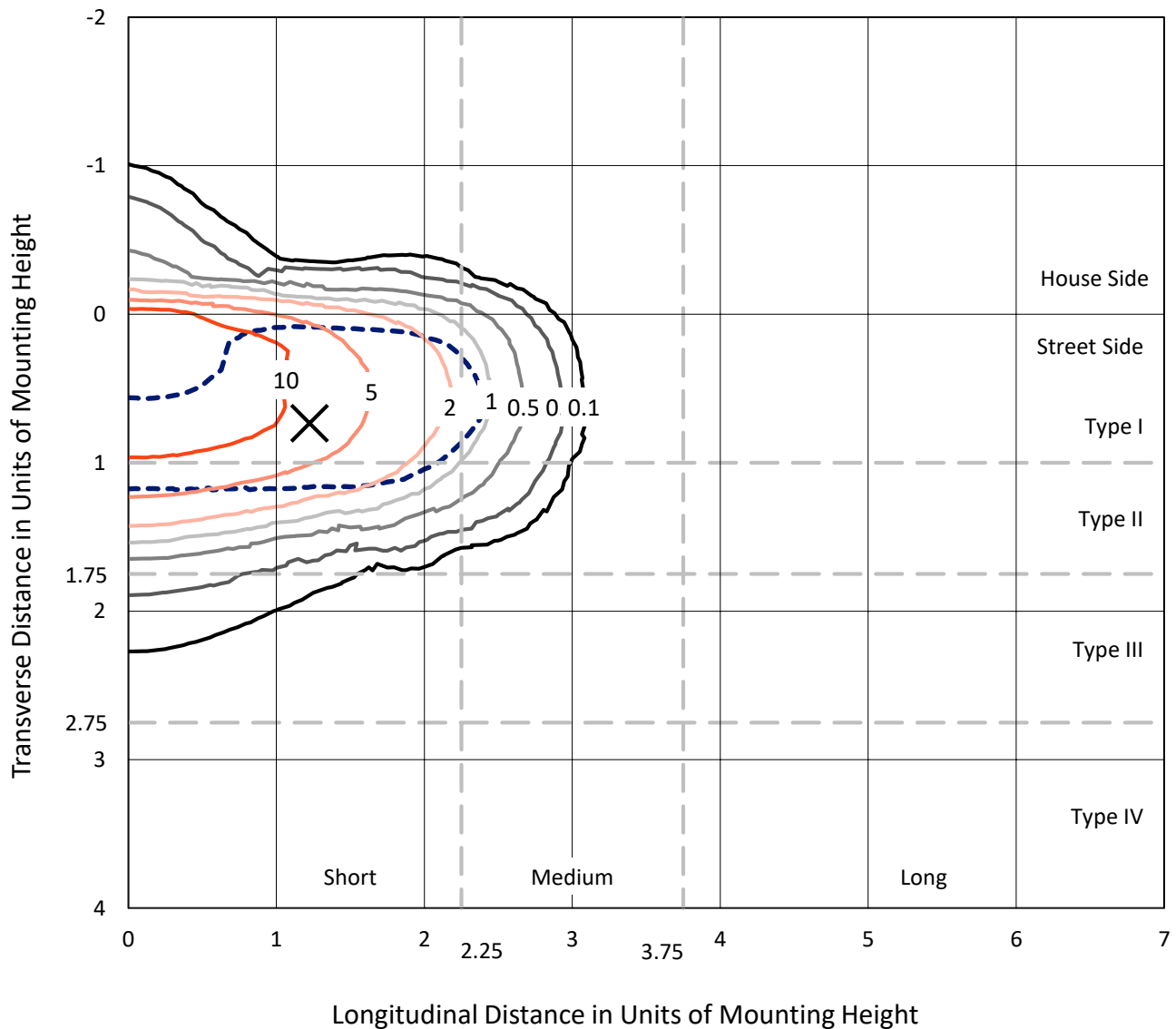


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

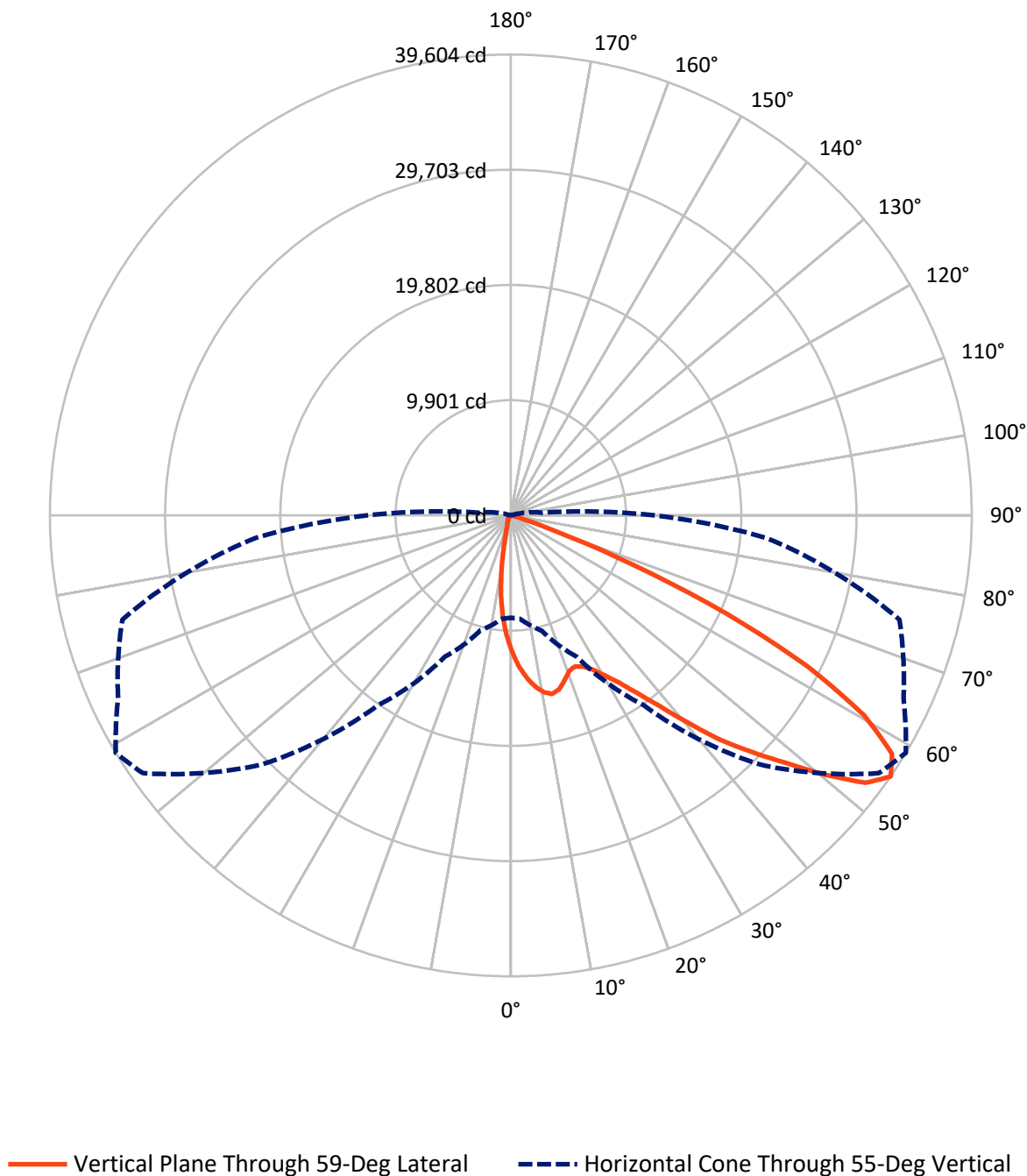


Based on 30 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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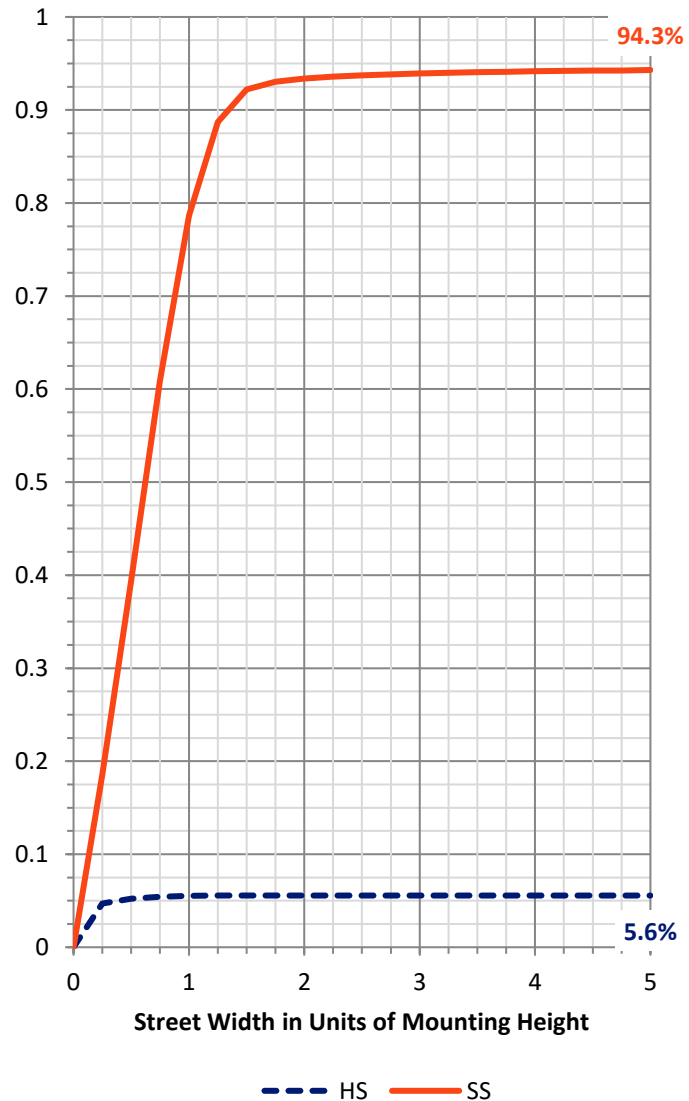
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2314.3	0.0	2314.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	39119.0	0.0	39119.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	41433.3	0.0	41433.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.9	2.4
10°-20°	2339.0	5.6
20°-30°	3980.1	9.6
30°-40°	6845.0	16.5
40°-50°	10567.9	25.5
50°-60°	10624.1	25.6
60°-70°	5448.1	13.1
70°-80°	590.4	1.4
80°-90°	61.7	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°	41433.3	100.0
0°-180°	41433.3	100.0

Coefficient of Utilization



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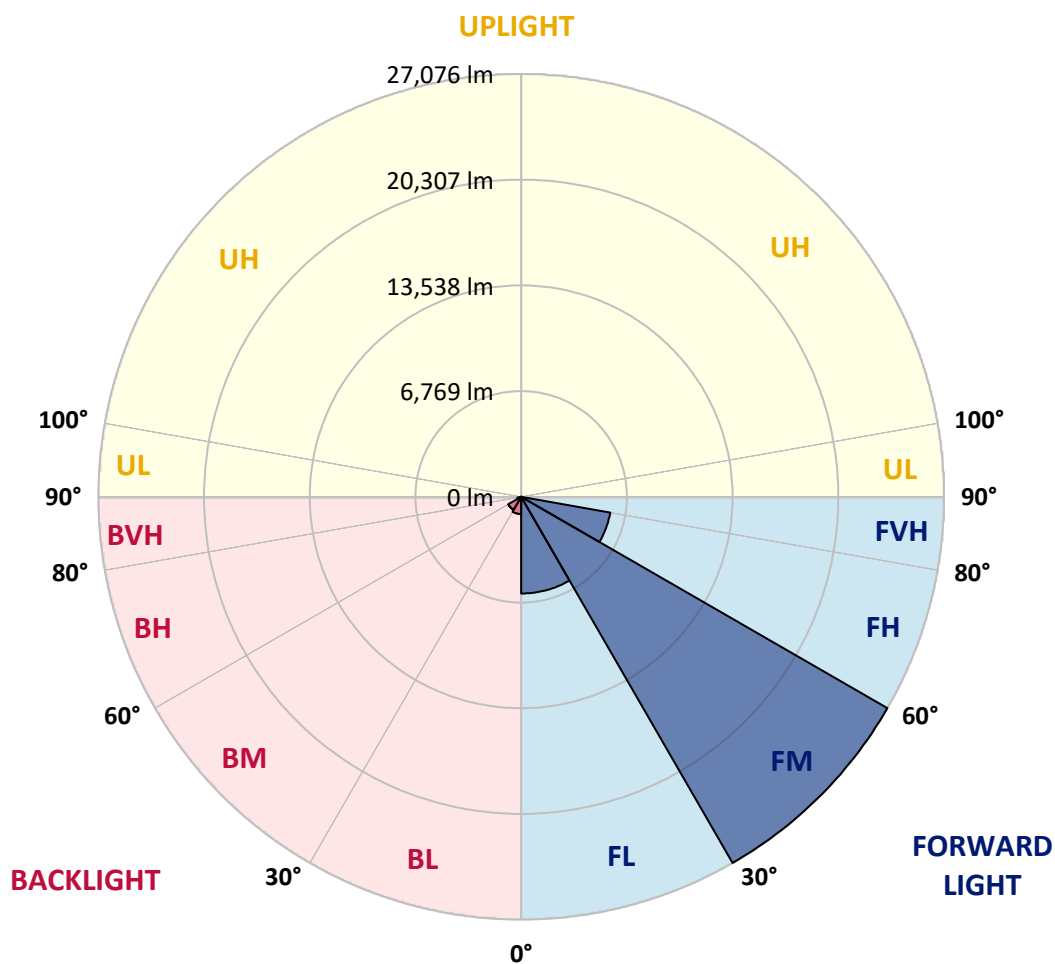
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6191.5	14.9			
FM	(30°-60°)	27076.5	65.3			
FH	(60°-80°)	5790.6	14.0			G3/7500
FVH	(80°-90°)	60.4	0.1			G1/100
BL	(0°-30°)	1104.6	2.7	B3/2500		
BM	(30°-60°)	960.5	2.3	B1/1000		
BH	(60°-80°)	247.9	0.6	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: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3
2.5°	13800.4	13653.7	13609.7	13580.3	13445.9	13277.0	13047.3	12939.7	12719.6	12365.1	11929.8
5°	15064.5	15037.6	14939.8	14886.0	14741.8	14502.1	14135.3	13959.3	13609.7	13013.0	12233.0
7.5°	14512.0	14680.6	14815.1	15040.1	15323.7	15313.9	15005.8	14822.4	14431.2	13643.9	12570.5
10°	12377.3	12514.2	12734.2	13245.3	14287.0	15206.3	15568.3	15436.1	15123.2	14223.4	12895.7
12.5°	11959.2	11944.6	11983.7	12132.8	12678.0	13988.7	15472.9	15739.4	15675.8	14754.0	13203.8
15°	12181.7	12164.6	12159.7	12211.1	12343.0	12895.7	14756.4	15521.8	16013.2	15245.5	13465.4
17.5°	12805.1	12731.9	12692.7	12651.1	12612.1	12748.9	13895.7	14912.9	16064.6	15675.8	13683.0
20°	13873.7	13751.5	13607.2	13372.5	13152.4	13083.9	13533.8	14287.0	15881.2	16003.4	13824.8
22.5°	15216.1	15059.6	14810.2	14382.4	13934.8	13675.7	13712.4	14088.9	15607.3	16360.5	13890.9
25°	16724.8	16524.3	16191.6	15597.6	14939.8	14480.1	14240.6	14372.5	15482.6	16778.5	13966.6
27.5°	18341.1	18118.5	17683.3	16873.9	16128.2	15507.0	15018.0	15001.0	15695.3	17326.3	14088.9
30°	19942.5	19908.3	19341.1	18485.2	17497.5	16741.9	16037.7	15947.3	16289.6	18084.3	14331.0
32.5°	22079.6	21822.9	21128.4	20248.3	19108.8	18201.6	17367.9	17157.5	17201.6	18967.0	14705.1
35°	24774.2	24492.9	23514.9	22299.7	21025.8	19954.8	19033.0	18746.9	18639.3	20412.1	15335.9
37.5°	26515.1	26510.2	25896.5	24659.3	23292.4	22111.5	21108.9	20773.9	20556.2	22157.9	16313.9
40°	26561.6	26676.5	26757.1	26744.9	25771.7	24683.8	23793.7	23380.4	22874.3	24490.6	17578.0
42.5°	25136.0	25432.0	26143.4	27351.3	27928.5	27495.6	26744.9	26339.0	25586.0	26987.0	19118.5
45°	23209.3	23414.7	24659.3	26884.4	29097.2	30283.1	29710.9	28984.8	27992.0	29591.1	20500.1
47.5°	22346.1	22382.9	23187.3	25629.9	29185.3	32566.8	32914.1	31733.0	30178.0	31689.0	21580.8
50°	19766.5	19832.5	20942.6	23456.3	28153.4	33645.2	36131.8	35012.0	32562.0	33305.3	21974.4
52.5°	14898.3	14991.1	16399.6	19883.9	25317.0	33185.5	38435.2	38163.7	35173.4	34095.0	21996.5
55°	8790.2	8912.5	10257.4	13384.7	19913.3	30261.1	38606.3	39604.0	37234.6	34562.1	21962.2
57.5°	4105.4	4190.9	4961.3	6895.4	12384.6	23916.0	36029.2	38616.1	38371.7	34809.0	22204.3
60°	2181.1	2205.5	2391.3	2985.5	5597.0	15164.7	30999.5	34870.2	37334.9	35151.3	22500.2
62.5°	1667.7	1675.0	1665.1	1736.0	2352.3	6731.5	23431.7	28666.8	33161.0	34894.5	22172.5
65°	1445.1	1457.3	1388.8	1371.8	1508.7	2401.1	13920.1	20434.0	26057.9	31429.8	19940.2
67.5°	1296.0	1300.8	1217.7	1146.7	1171.3	1298.3	5491.8	11186.5	17248.0	23038.1	14453.3
70°	1193.2	1188.3	1097.8	985.4	953.7	887.6	1745.9	4100.5	8242.5	11682.9	6721.7
72.5°	1056.3	1058.7	1014.7	868.1	792.2	621.0	809.4	1195.7	2459.9	3183.6	1574.7
75°	936.5	924.3	870.5	777.6	652.9	408.3	401.0	533.0	758.0	753.2	339.9
77.5°	677.3	665.1	682.3	638.2	501.3	264.1	200.5	256.8	308.1	298.3	95.4
80°	496.4	489.1	440.1	530.6	442.6	181.0	124.7	136.9	159.0	134.5	29.4
82.5°	339.9	337.4	310.6	293.5	251.9	110.1	78.2	85.5	102.7	75.8	14.6
85°	53.7	61.0	225.0	178.5	149.1	48.9	53.7	58.7	68.5	41.5	4.9
87.5°	0.0	0.0	105.1	92.9	29.4	19.5	31.8	34.2	34.2	22.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3	11663.3
2.5°	11707.3	11462.8	11010.5	10543.4	10110.7	9594.7	9240.2	8973.7	8665.6	8582.5	8763.3
5°	11788.0	11326.0	10352.8	9294.0	8298.8	7196.1	6352.5	5685.0	5081.0	4875.5	5061.4
7.5°	11915.2	11228.1	9641.1	7897.8	6166.6	4445.2	3266.8	2491.5	1997.7	1851.0	1929.2
10°	12042.3	11086.3	8817.2	6244.9	3878.0	2164.0	1408.4	1124.8	1019.6	997.6	1009.9
12.5°	12147.5	10895.6	7812.2	4440.4	2073.5	1159.0	921.8	875.3	860.6	860.6	865.6
15°	12211.1	10607.0	6621.4	2824.2	1193.2	875.3	804.4	789.8	789.8	792.2	797.1
17.5°	12203.7	10240.3	5318.2	1709.2	892.4	775.0	733.5	721.3	718.9	723.8	726.2
20°	12113.2	9761.0	4010.1	1127.2	777.6	706.7	665.1	643.1	640.6	645.5	650.4
22.5°	11942.0	9169.2	2868.2	868.1	701.8	640.6	589.2	569.7	569.7	574.6	579.5
25°	11734.2	8445.5	1960.9	736.0	633.2	569.7	520.8	503.6	508.6	520.8	523.3
27.5°	11475.1	7631.3	1332.6	630.9	550.1	498.8	462.1	449.9	462.1	479.2	484.1
30°	11252.5	6782.9	951.2	545.3	467.0	430.4	408.3	408.3	425.4	457.2	464.6
32.5°	11081.4	5961.3	733.5	481.8	405.9	374.1	361.8	374.1	401.0	432.7	440.1
35°	11059.3	5284.0	621.0	430.4	361.8	330.1	325.1	347.2	374.1	398.6	403.5
37.5°	11228.1	4657.9	560.0	388.8	322.8	293.5	288.6	315.4	342.3	371.7	379.0
40°	11548.3	4166.5	515.9	349.6	290.9	259.2	249.4	269.0	305.6	344.7	354.5
42.5°	11964.1	3760.6	467.0	310.6	259.2	215.1	202.9	225.0	264.1	305.6	317.8
45°	12360.2	3411.0	413.2	266.5	217.7	166.3	161.3	190.7	210.4	251.9	261.6
47.5°	12577.8	3102.9	366.8	217.7	168.7	134.5	134.5	141.8	161.3	210.4	220.0
50°	12504.5	2855.9	317.8	161.3	117.4	102.7	102.7	100.3	129.6	168.7	176.0
52.5°	12357.8	2714.1	273.8	124.7	80.8	73.3	66.0	73.3	90.4	107.6	110.1
55°	12335.7	2689.6	229.9	100.3	56.3	48.9	36.7	36.7	36.7	34.2	29.4
57.5°	12506.9	2728.8	193.2	80.8	41.5	31.8	19.5	0.0	0.0	0.0	0.0
60°	12683.0	2770.4	166.3	56.3	29.4	17.2	2.4	0.0	0.0	0.0	0.0
62.5°	12389.6	2677.4	139.5	34.2	22.0	7.3	0.0	0.0	0.0	0.0	0.0
65°	10883.4	2278.8	110.1	24.5	14.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7741.3	1525.8	73.3	14.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3533.2	638.2	46.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	755.5	198.1	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	154.0	144.2	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	48.9	227.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.4	163.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.9	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)