

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: P324742

Luminaire Tested: **GAN-SA8D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324742
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-SA8D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 42571 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

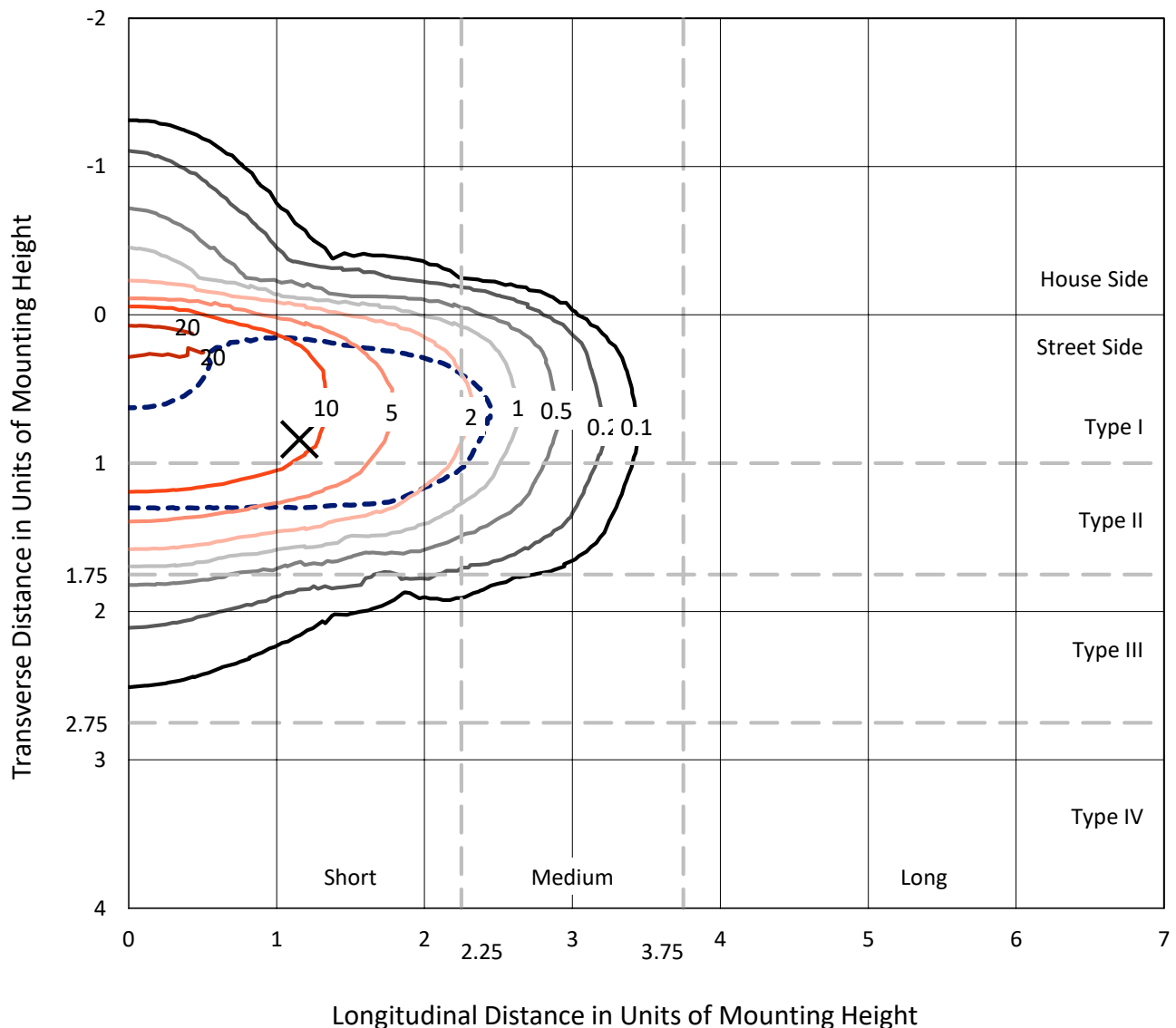
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

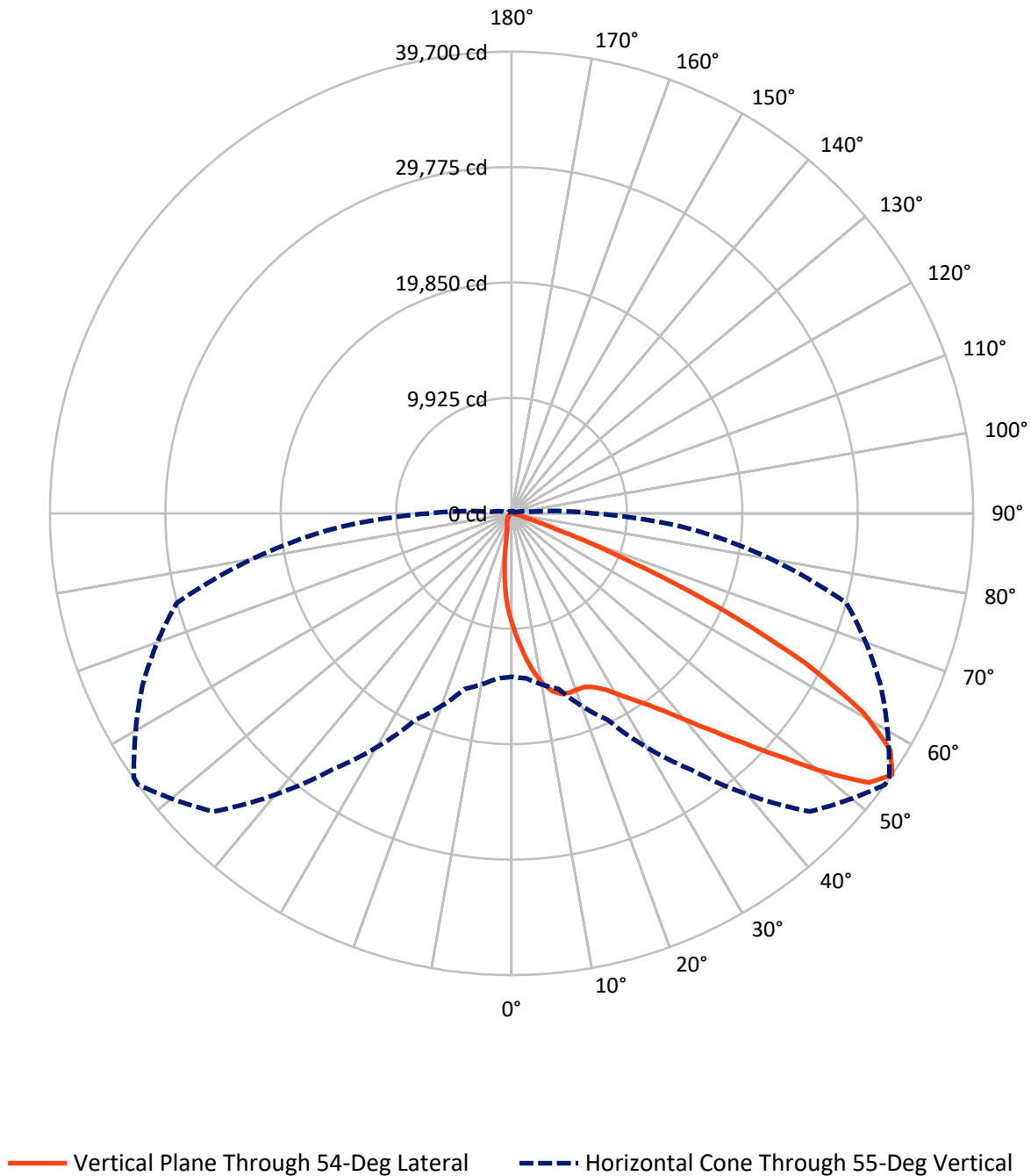
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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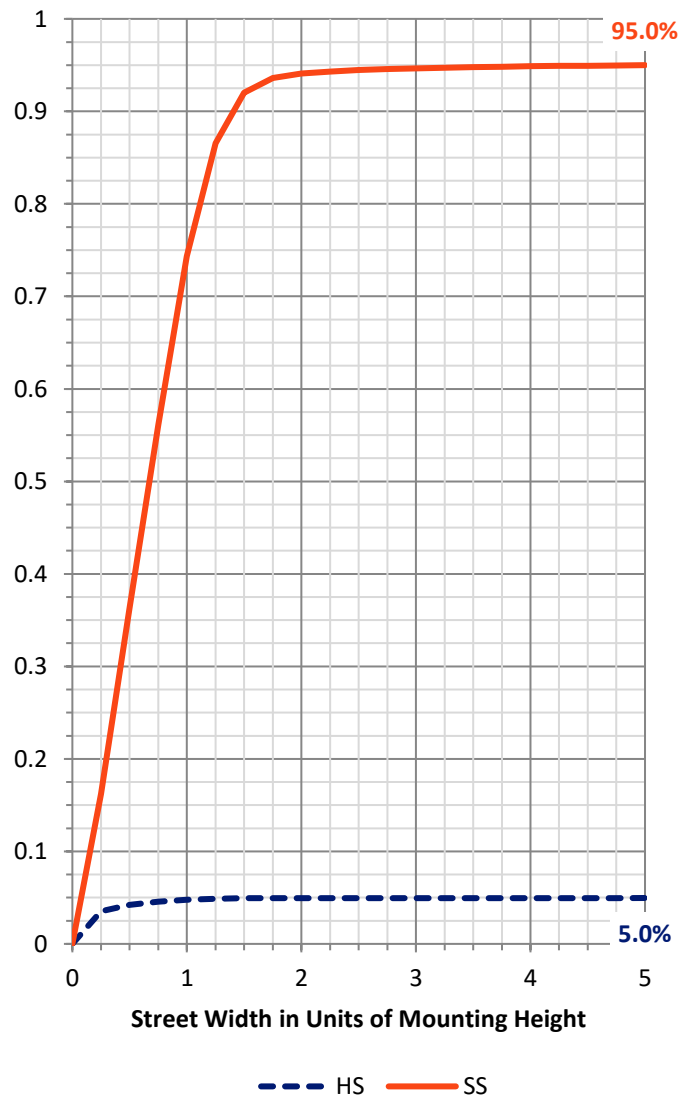
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.0	0.0	2124.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	40447.0	0.0	40447.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	42571.0	0.0	42571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.0	2.1
10°-20°	2407.9	5.7
20°-30°	4111.1	9.7
30°-40°	6597.6	15.5
40°-50°	10543.1	24.8
50°-60°	11297.2	26.5
60°-70°	5800.3	13.6
70°-80°	878.6	2.1
80°-90°	57.2	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°	42571.0	100.0
0°-180°	42571.0	100.0

Coefficient of Utilization



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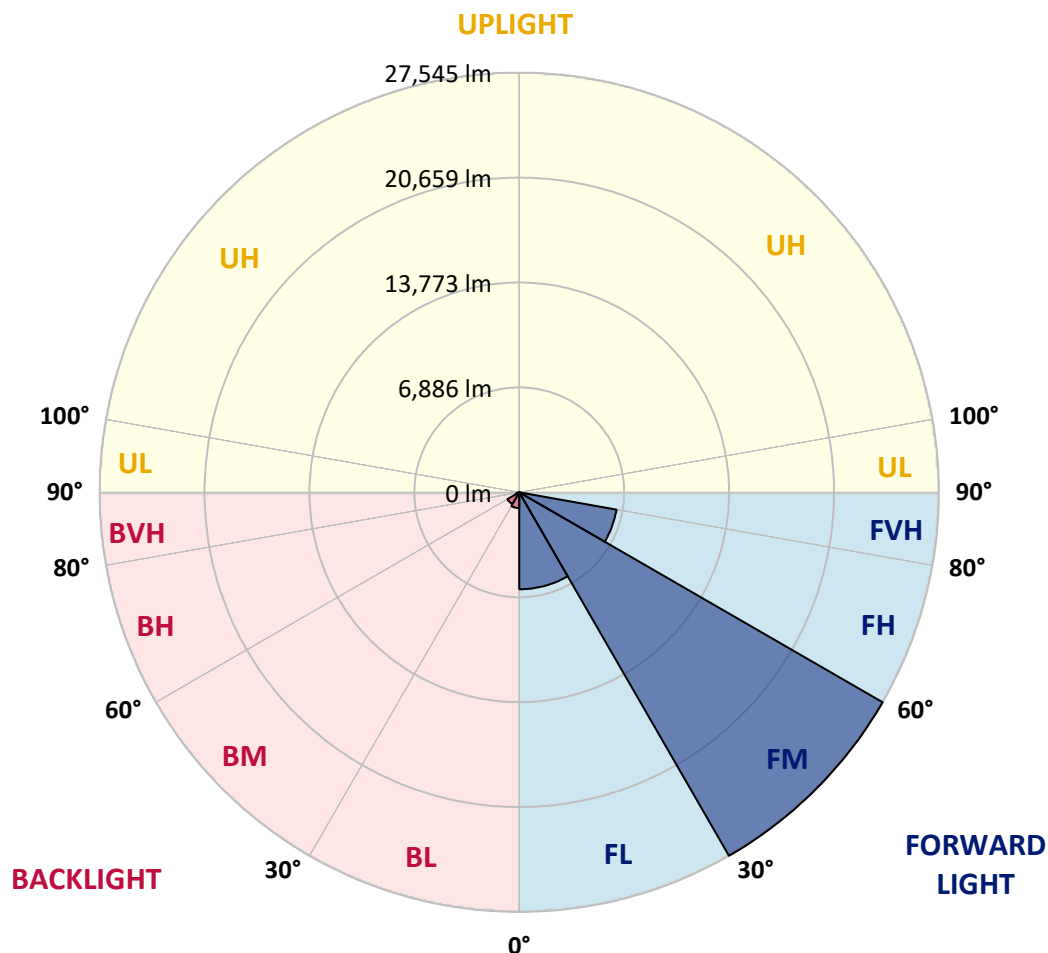
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6363.6	14.9			
FM	(30°-60°)	27545.3	64.7			
FH	(60°-80°)	6483.2	15.2			G3/7500
FVH	(80°-90°)	54.9	0.1			G1/100
BL	(0°-30°)	1033.4	2.4	B3/2500		
BM	(30°-60°)	892.5	2.1	B1/1000		
BH	(60°-80°)	195.7	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°	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2
2.5°	11964.6	11786.3	11791.8	11710.9	11414.9	11183.3	10942.4	10885.5	10510.4	10117.0	9738.3
5°	14032.9	13902.3	13871.1	13714.8	13303.0	12867.3	12400.3	12291.9	11558.3	10753.1	9960.7
7.5°	15095.5	15097.3	15071.6	15014.6	14757.2	14334.4	13764.5	13650.5	12652.2	11444.3	10192.4
10°	14786.6	14856.5	14999.9	15189.3	15386.0	15332.7	14904.3	14801.4	13716.7	12176.0	10449.7
12.5°	14066.0	14075.2	14235.1	14545.8	15112.0	15693.0	15700.4	15665.4	14733.3	12940.8	10732.9
15°	13707.5	13742.4	13801.2	14001.6	14538.5	15468.7	16134.2	16183.9	15665.4	13753.4	11034.4
17.5°	13942.8	13992.4	13942.8	13966.7	14277.4	15113.9	16209.6	16336.5	16479.9	14556.8	11319.3
20°	14580.7	14626.7	14538.5	14441.0	14501.7	15010.9	16156.3	16327.3	17117.8	15270.2	11558.3
22.5°	15441.1	15459.5	15325.3	15165.4	15121.2	15360.2	16200.4	16376.9	17628.9	15915.5	11709.1
25°	16387.9	16404.5	16237.2	16053.3	15948.5	16046.0	16562.6	16695.0	18079.3	16531.3	11795.5
27.5°	17419.3	17434.0	17224.4	16998.3	16877.0	16880.6	17160.1	17301.6	18559.1	17233.6	11865.3
30°	18509.5	18502.1	18309.1	17994.7	17840.3	17836.6	18020.5	18163.9	19254.1	18134.5	11960.9
32.5°	19733.9	19719.2	19445.3	19055.5	18880.9	18906.6	19070.2	19153.0	20116.3	19094.1	12131.9
35°	21346.2	21303.9	20890.3	20406.8	20085.1	20075.9	20213.7	20279.9	21215.7	20256.0	12416.9
37.5°	23438.4	23399.8	22839.0	22136.8	21684.5	21515.4	21679.0	21763.6	22783.9	21747.0	12874.7
40°	25501.1	25462.5	25129.8	24486.3	23789.5	23383.2	23511.9	23602.0	24741.8	23556.0	13451.9
42.5°	26924.1	26957.2	27073.0	27126.3	26473.7	25620.6	25679.5	25773.2	26799.1	25490.1	14111.9
45°	27299.1	27370.8	28025.3	29310.4	29554.9	28889.4	28273.5	28325.0	28889.4	27424.1	14771.9
47.5°	26172.2	26304.5	27567.5	29957.5	32027.6	32498.3	31332.7	31264.7	30895.1	28988.7	15240.7
50°	23611.2	23732.5	25368.8	28904.1	32777.7	35943.5	34998.5	34798.2	32654.5	29924.4	15406.2
52.5°	19904.9	20052.0	21381.2	25587.5	31363.9	37480.5	38469.5	38302.2	33945.1	29998.0	15433.8
55°	14056.8	14235.1	15641.5	19610.7	26883.6	36257.9	39699.5	39649.8	35016.9	29803.1	15492.6
57.5°	7899.8	8028.5	9545.2	12571.3	19689.8	31580.9	38414.4	38743.5	35664.1	29464.8	15580.9
60°	3507.8	3542.7	4327.7	6258.1	11527.1	24135.2	34735.7	35290.9	35108.9	29012.6	15729.8
62.5°	1945.1	1915.7	1915.7	2601.4	5009.8	14941.1	28325.0	29242.4	32739.1	28477.6	15737.1
65°	1524.1	1496.5	1417.4	1428.5	1908.3	6631.3	19614.4	21245.1	28238.6	26909.4	15207.6
67.5°	1292.4	1268.5	1189.5	1158.2	1185.8	2187.8	10777.0	12470.2	21427.1	22833.5	13172.5
70°	1092.0	1075.5	1035.0	996.4	926.6	1081.0	4123.6	5274.5	13203.7	15189.3	8991.9
72.5°	878.8	871.4	886.1	853.0	768.5	720.7	1410.1	1707.9	5930.8	6778.4	3704.5
75°	757.4	753.8	761.1	728.0	632.4	501.9	717.0	783.2	1673.0	1658.3	750.1
77.5°	492.7	498.2	630.6	615.9	544.2	334.6	371.4	400.8	507.4	380.6	228.0
80°	314.4	310.7	319.9	511.1	489.0	255.5	185.7	194.9	244.5	187.5	110.3
82.5°	191.2	187.5	209.6	239.0	246.4	178.3	114.0	115.8	152.6	121.3	58.8
85°	16.5	22.1	126.9	117.7	84.6	55.2	55.2	58.8	80.9	71.7	33.1
87.5°	0.0	0.0	22.1	33.1	18.4	20.2	20.2	22.1	31.3	31.3	16.5
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°	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2	9534.2
2.5°	9541.5	9350.4	8964.3	8592.9	8278.5	7975.2	7629.6	7287.6	7127.7	7063.3	6997.1
5°	9558.1	9164.7	8368.6	7567.1	6736.1	5987.8	5349.9	4695.4	4368.2	4224.8	4158.6
7.5°	9580.2	8980.8	7693.9	6348.2	5009.8	3994.9	3108.8	2538.9	2292.5	2253.9	2158.3
10°	9583.8	8758.4	6910.7	5002.4	3358.8	2408.4	1853.2	1559.0	1450.5	1432.2	1400.9
12.5°	9591.2	8495.5	6041.1	3704.5	2239.2	1610.5	1340.2	1242.8	1213.4	1211.5	1211.5
15°	9613.2	8219.7	5138.5	2669.4	1608.6	1275.9	1176.6	1138.0	1127.0	1132.5	1130.6
17.5°	9613.2	7894.3	4252.3	1989.2	1299.8	1147.2	1092.0	1066.3	1062.6	1068.1	1070.0
20°	9543.4	7499.0	3439.7	1548.0	1152.7	1064.5	1014.8	990.9	981.7	985.4	987.2
22.5°	9376.1	7013.7	2777.9	1281.4	1055.3	989.1	935.8	899.0	884.3	886.1	886.1
25°	9115.0	6438.2	2173.0	1108.6	976.2	908.2	845.7	803.4	794.2	792.4	796.0
27.5°	8780.4	5802.1	1730.0	976.2	882.5	818.1	755.6	720.7	713.3	715.2	717.0
30°	8451.3	5142.1	1364.1	864.1	777.7	717.0	669.2	652.6	652.6	658.2	660.0
32.5°	8149.8	4507.9	1079.2	766.6	683.9	628.7	601.2	599.3	608.5	612.2	614.0
35°	7890.6	3921.4	893.5	691.3	610.4	562.6	553.4	560.7	571.8	579.1	580.9
37.5°	7706.8	3397.5	781.3	628.7	553.4	514.8	512.9	527.6	542.3	558.9	562.6
40°	7629.6	2954.4	704.1	573.6	507.4	478.0	472.5	492.7	520.3	544.2	547.9
42.5°	7565.2	2592.2	637.9	520.3	470.6	428.4	426.5	452.3	485.4	509.3	514.8
45°	7510.1	2301.7	577.3	463.3	422.8	367.7	373.2	406.3	432.0	457.8	463.3
47.5°	7396.1	2062.7	511.1	402.6	349.3	314.4	325.4	354.8	375.0	413.7	419.2
50°	7192.0	1867.9	443.1	329.1	285.0	272.1	288.6	308.9	334.6	367.7	371.4
52.5°	7054.1	1720.8	384.2	275.8	235.3	239.0	255.5	262.9	277.6	290.5	286.8
55°	6975.1	1639.9	336.4	239.0	200.4	211.4	215.1	205.9	198.6	185.7	180.2
57.5°	6965.9	1566.4	299.7	207.7	176.5	182.0	169.1	137.9	112.1	97.4	93.8
60°	6951.2	1476.3	270.3	174.7	156.3	148.9	121.3	75.4	53.3	49.6	49.6
62.5°	6791.2	1336.6	248.2	147.1	132.4	112.1	69.9	34.9	29.4	31.3	31.3
65°	6282.0	1141.7	226.1	119.5	104.8	80.9	34.9	20.2	11.0	12.9	12.9
67.5°	5340.7	910.0	202.2	91.9	79.1	51.5	20.2	9.2	0.0	0.0	0.0
70°	3575.8	564.4	171.0	64.3	51.5	31.3	14.7	1.8	0.0	0.0	0.0
72.5°	1371.5	305.2	137.9	38.6	33.1	22.1	9.2	0.0	0.0	0.0	0.0
75°	308.9	200.4	95.6	27.6	23.9	14.7	3.7	0.0	0.0	0.0	0.0
77.5°	117.7	145.2	55.2	18.4	16.5	9.2	0.0	0.0	0.0	0.0	0.0
80°	57.0	86.4	25.7	11.0	9.2	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	29.4	33.1	11.0	5.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	16.5	5.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	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)