

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: P323704

Luminaire Tested: **GAN-SA0D-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52137 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

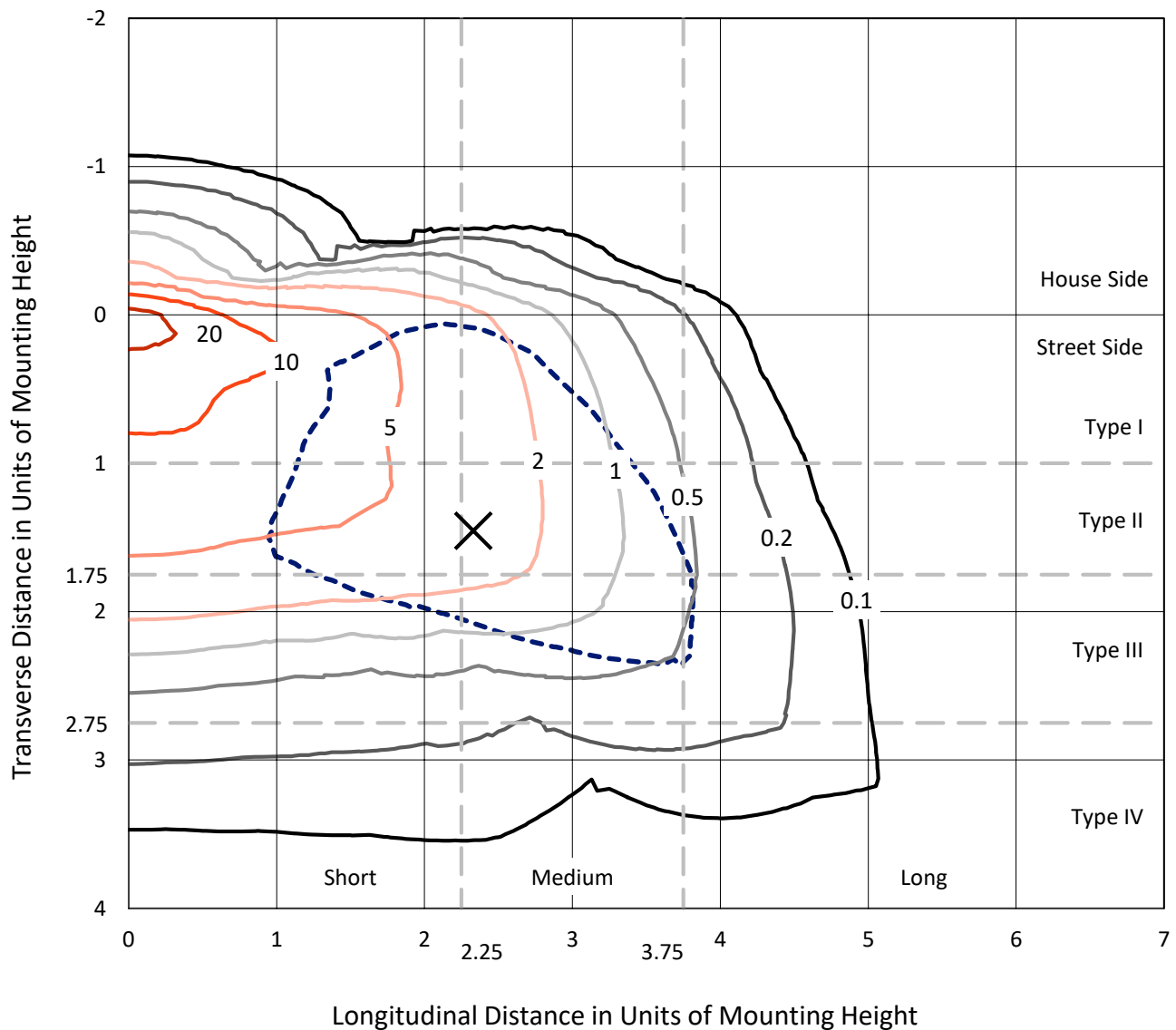


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Iso-Footcandle Lines of Horizontal Illumination

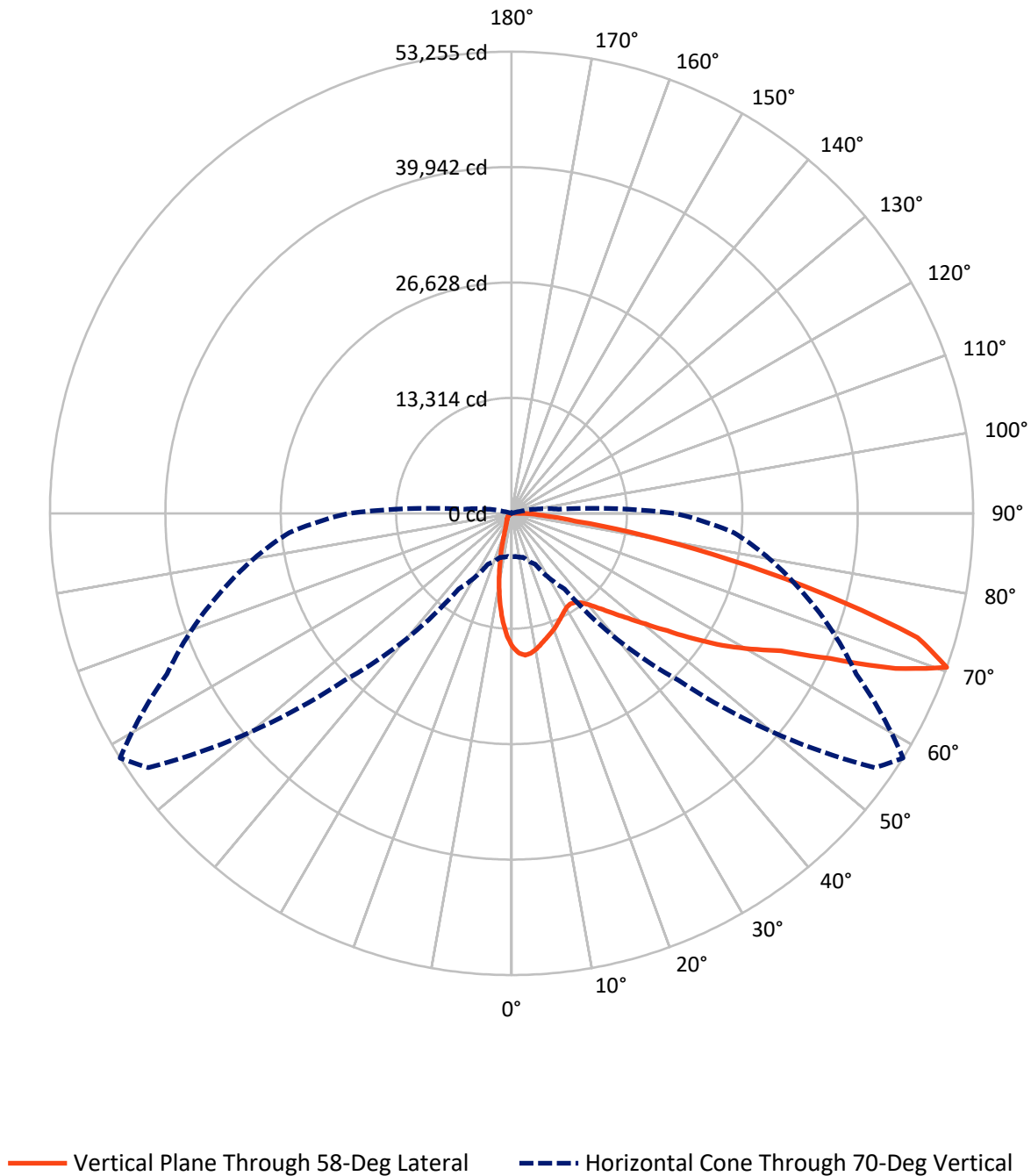
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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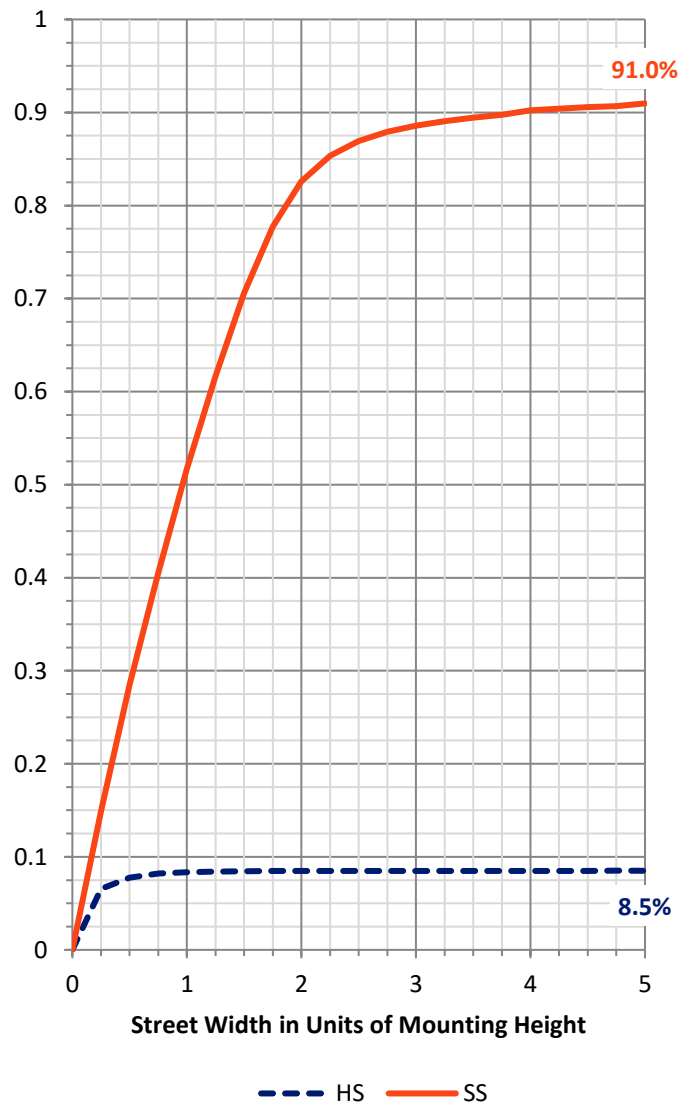
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4461.8	0.0	4461.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	47675.2	0.0	47675.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	52137.0	0.0	52137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.4	2.4
10°-20°	2643.2	5.1
20°-30°	3474.9	6.7
30°-40°	4602.1	8.8
40°-50°	6878.8	13.2
50°-60°	11019.5	21.1
60°-70°	13890.0	26.6
70°-80°	7492.2	14.4
80°-90°	877.0	1.7
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°	52137.0	100.0
0°-180°	52137.0	100.0

Coefficient of Utilization



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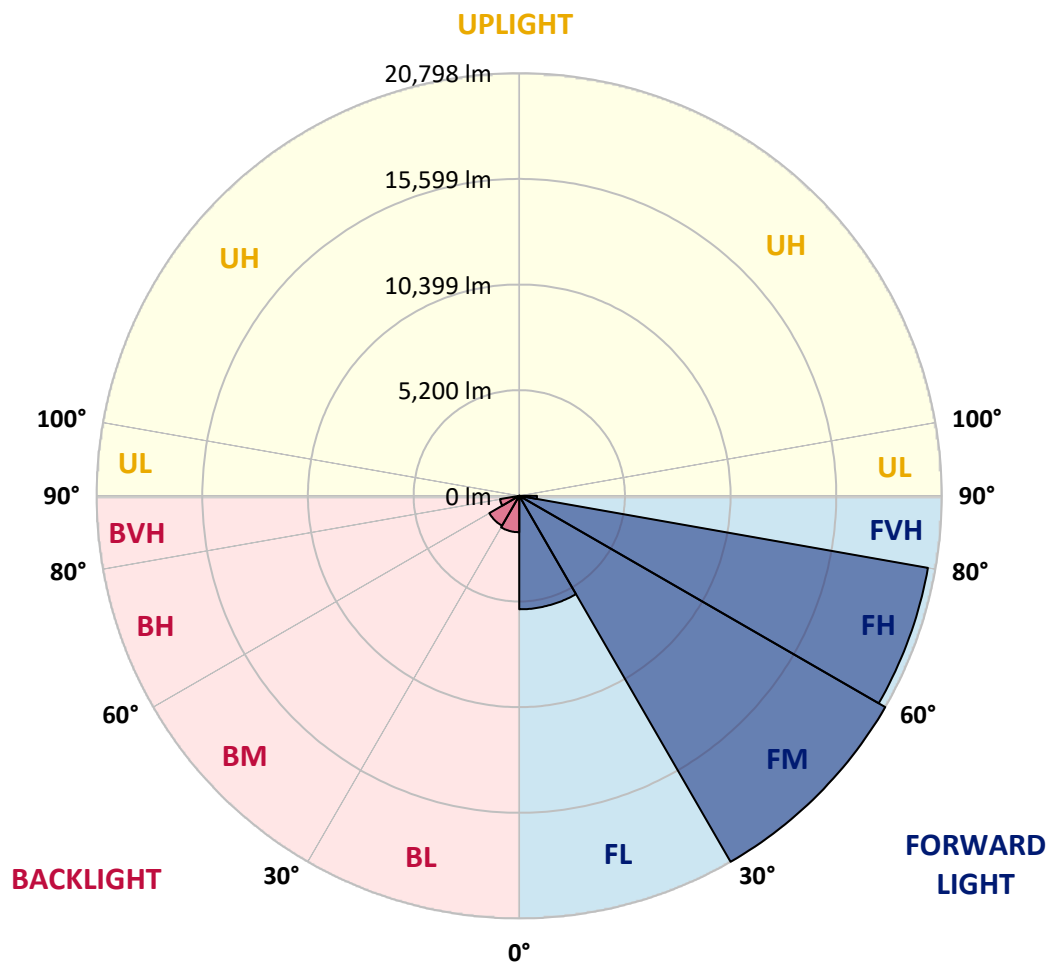
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5584.9	10.7			
FM	(30°-60°)	20798.3	39.9			
FH	(60°-80°)	20422.6	39.2			G5
FVH	(80°-90°)	869.4	1.7			G5
BL	(0°-30°)	1792.6	3.4	B3/2500		
BM	(30°-60°)	1702.1	3.3	B2/2500		
BH	(60°-80°)	959.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	7.6	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0
2.5°	16677.9	16636.7	16621.6	16595.6	16495.8	16398.3	16205.3	16151.1	16029.7	15741.4	15435.7
5°	16690.9	16688.8	16734.3	16723.5	16688.8	16643.3	16504.5	16433.0	16227.0	15815.1	15255.8
7.5°	15886.6	15927.8	16029.7	16112.1	16207.5	16331.1	16348.4	16279.0	16109.9	15665.5	14924.1
10°	14807.0	14872.0	15015.1	15177.7	15427.0	15674.2	15895.3	15886.6	15828.1	15390.2	14525.2
12.5°	13725.2	13801.1	13965.8	14206.5	14559.9	14963.1	15357.7	15411.9	15509.4	15143.0	14156.6
15°	12777.8	12842.9	13005.5	13300.3	13738.2	14280.2	14859.0	14958.8	15210.2	14950.1	13848.8
17.5°	11973.5	12014.7	12133.9	12461.3	12968.6	13625.5	14377.8	14572.9	14947.9	14798.3	13582.1
20°	11412.0	11418.5	11496.6	11726.4	12233.7	12968.6	13879.1	14158.8	14670.4	14668.3	13306.8
22.5°	11134.5	11112.8	11128.0	11260.3	11633.1	12342.1	13380.5	13712.2	14421.1	14557.7	13027.1
25°	11082.5	11065.1	11021.8	11039.1	11264.6	11793.6	12877.5	13261.3	14202.2	14490.5	12784.3
27.5°	11245.1	11262.4	11188.7	11110.7	11128.0	11438.0	12430.9	12875.4	14024.4	14490.5	12613.1
30°	11572.4	11581.1	11526.9	11425.0	11288.4	11338.3	12120.9	12565.4	13935.5	14590.2	12504.7
32.5°	11934.5	11982.2	11975.7	11893.3	11698.2	11496.6	12047.2	12452.6	13929.0	14811.3	12493.8
35°	12383.3	12437.5	12528.5	12511.2	12307.4	11975.7	12298.7	12617.4	14056.9	15175.6	12610.9
37.5°	12860.2	12942.6	13137.7	13230.9	13098.7	12723.6	12862.4	13090.0	14399.4	15765.2	12907.9
40°	13322.0	13415.2	13770.7	14137.1	14037.4	13651.5	13716.5	13898.6	15008.6	16612.9	13471.6
42.5°	13775.1	13913.8	14436.3	15039.0	15158.2	14850.4	14885.1	15030.3	15912.7	17779.2	14392.9
45°	14317.1	14473.1	15247.1	15990.7	16309.4	16175.0	16322.4	16417.8	17094.2	19320.7	15635.2
47.5°	15112.7	15292.6	16242.2	17089.8	17649.2	17735.9	18032.9	18095.8	18587.9	21115.7	17254.6
50°	16664.9	16714.8	17573.3	18342.9	19149.4	19669.7	20007.9	20055.6	20395.9	23077.7	19277.3
52.5°	18618.2	18650.8	19136.4	19652.3	20569.4	21631.7	22423.0	22490.2	22561.7	24989.8	21274.0
55°	20558.5	20554.2	20875.1	21178.6	22227.9	23771.4	25488.4	25529.6	25015.8	26804.4	22800.2
57.5°	21770.4	21887.5	22375.3	22765.5	24231.0	26210.4	28592.9	28744.7	27593.5	28148.5	24309.1
60°	21384.5	21440.9	22522.7	23966.5	26726.3	29676.9	31734.3	31773.3	29531.6	29490.4	26216.9
62.5°	18219.3	18249.7	19949.4	22925.9	27990.2	34173.2	35523.8	34888.6	31760.3	31352.7	28499.7
65°	12487.3	12684.6	14104.6	17783.6	25668.4	36993.7	41390.2	40338.8	35157.4	34036.6	30563.6
67.5°	7353.6	7312.5	8014.9	10724.8	18852.4	35120.6	48811.1	47766.2	39790.3	35833.8	29958.7
70°	5023.1	4994.9	5263.8	6493.0	10642.4	27244.5	51146.0	53255.4	43881.2	34624.1	25783.3
72.5°	3585.8	3600.9	3997.7	5044.8	6681.6	15873.6	43983.1	48975.9	42600.0	30184.2	19598.1
75°	2434.6	2475.8	3043.8	4138.6	5857.8	8075.6	31211.8	37230.0	34689.2	21937.4	11264.6
77.5°	1309.4	1355.0	2024.9	3334.3	5296.3	5610.6	20077.3	25622.8	21789.9	9861.9	3264.9
80°	546.3	572.3	947.4	2423.8	4576.5	4927.7	11813.1	15537.6	9285.3	1944.6	728.4
82.5°	236.3	249.3	394.6	1446.0	3421.0	4160.3	6254.5	7475.0	2814.0	427.1	366.4
85°	45.5	47.7	162.6	765.3	2183.1	2347.9	4054.0	3973.8	1263.9	184.3	266.7
87.5°	0.0	0.0	39.0	240.6	641.7	1279.1	2473.6	2443.3	429.3	88.9	99.7
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°	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0	15401.0
2.5°	15279.6	15130.0	14815.7	14427.6	14130.6	13803.3	13543.1	13213.6	13070.5	13077.0	12998.9
5°	14937.1	14629.2	13933.3	13055.3	12378.9	11680.8	11080.3	10482.0	10128.6	10013.7	9905.3
7.5°	14447.1	13959.3	12849.4	11496.6	10351.9	9233.2	8259.8	7403.5	6861.5	6597.0	6499.5
10°	13894.3	13209.2	11602.8	9820.8	8186.1	6672.9	5411.2	4314.2	3876.3	3579.3	3503.4
12.5°	13408.7	12480.8	10384.4	8101.6	6161.3	4335.9	3132.7	2449.8	2152.8	2035.7	2016.2
15°	12951.3	11800.1	9211.6	6545.0	4266.5	2668.7	1992.3	1760.4	1691.0	1671.5	1671.5
17.5°	12519.8	11151.9	8064.7	5012.3	2822.7	1870.9	1649.8	1597.8	1576.1	1573.9	1576.1
20°	12068.9	10503.7	6937.4	3672.5	1970.7	1584.8	1524.1	1495.9	1489.4	1489.4	1489.4
22.5°	11637.5	9855.4	5840.4	2623.2	1580.4	1446.0	1415.7	1396.2	1389.6	1387.5	1383.1
25°	11223.4	9239.7	4769.5	1853.6	1387.5	1324.6	1298.6	1272.6	1253.1	1242.2	1235.7
27.5°	10883.0	8691.3	3772.2	1487.2	1253.1	1198.9	1166.3	1127.3	1079.6	1058.0	1049.3
30°	10612.1	8190.5	2907.2	1255.2	1127.3	1073.1	1023.3	956.1	886.7	849.8	847.7
32.5°	10399.6	7698.3	2207.0	1110.0	1014.6	947.4	875.8	791.3	711.1	669.9	667.7
35°	10295.5	7264.8	1686.7	1003.8	914.9	830.3	741.4	648.2	570.2	531.1	526.8
37.5°	10364.9	6898.4	1315.9	914.9	830.3	732.8	628.7	531.1	461.8	427.1	424.9
40°	10618.6	6664.2	1068.8	839.0	758.8	639.5	526.8	435.8	377.2	349.0	346.9
42.5°	11158.4	6577.5	912.7	776.1	689.4	552.8	437.9	359.9	305.7	286.2	281.8
45°	12060.2	6705.4	806.5	715.4	617.9	470.4	362.0	294.8	247.1	232.0	229.8
47.5°	13261.3	7041.5	730.6	656.9	552.8	396.7	301.3	238.5	201.6	186.4	184.3
50°	14809.2	7574.8	667.7	598.4	492.1	336.0	249.3	188.6	156.1	145.3	145.3
52.5°	16493.7	8210.0	611.4	544.2	431.4	279.7	201.6	145.3	123.6	110.6	110.6
55°	17885.5	8765.0	550.7	503.0	357.7	232.0	153.9	110.6	91.1	84.5	84.5
57.5°	19275.1	9356.8	481.3	431.4	286.2	188.6	117.1	82.4	67.2	62.9	62.9
60°	21076.7	10080.9	414.1	351.2	225.5	143.1	86.7	58.5	49.9	47.7	47.7
62.5°	23058.2	10505.8	353.4	281.8	175.6	106.2	62.9	39.0	36.9	36.9	34.7
65°	24270.1	9905.3	297.0	225.5	136.6	80.2	41.2	28.2	32.5	30.4	26.0
67.5°	22724.3	7754.7	242.8	175.6	106.2	60.7	26.0	19.5	34.7	28.2	21.7
70°	18815.5	5428.5	188.6	123.6	84.5	52.0	17.3	13.0	36.9	28.2	17.3
72.5°	14080.7	3633.5	149.6	82.4	62.9	45.5	15.2	6.5	32.5	23.8	15.2
75°	7694.0	1463.4	119.2	52.0	39.0	32.5	10.8	4.3	21.7	17.3	10.8
77.5°	2024.9	385.9	86.7	34.7	21.7	13.0	6.5	2.2	10.8	8.7	4.3
80°	516.0	149.6	56.4	23.8	15.2	6.5	0.0	0.0	2.2	0.0	0.0
82.5°	275.3	62.9	34.7	17.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	208.1	41.2	19.5	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	80.2	13.0	6.5	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)