

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: P323303

Luminaire Tested: **GAN-SA9D-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57453 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

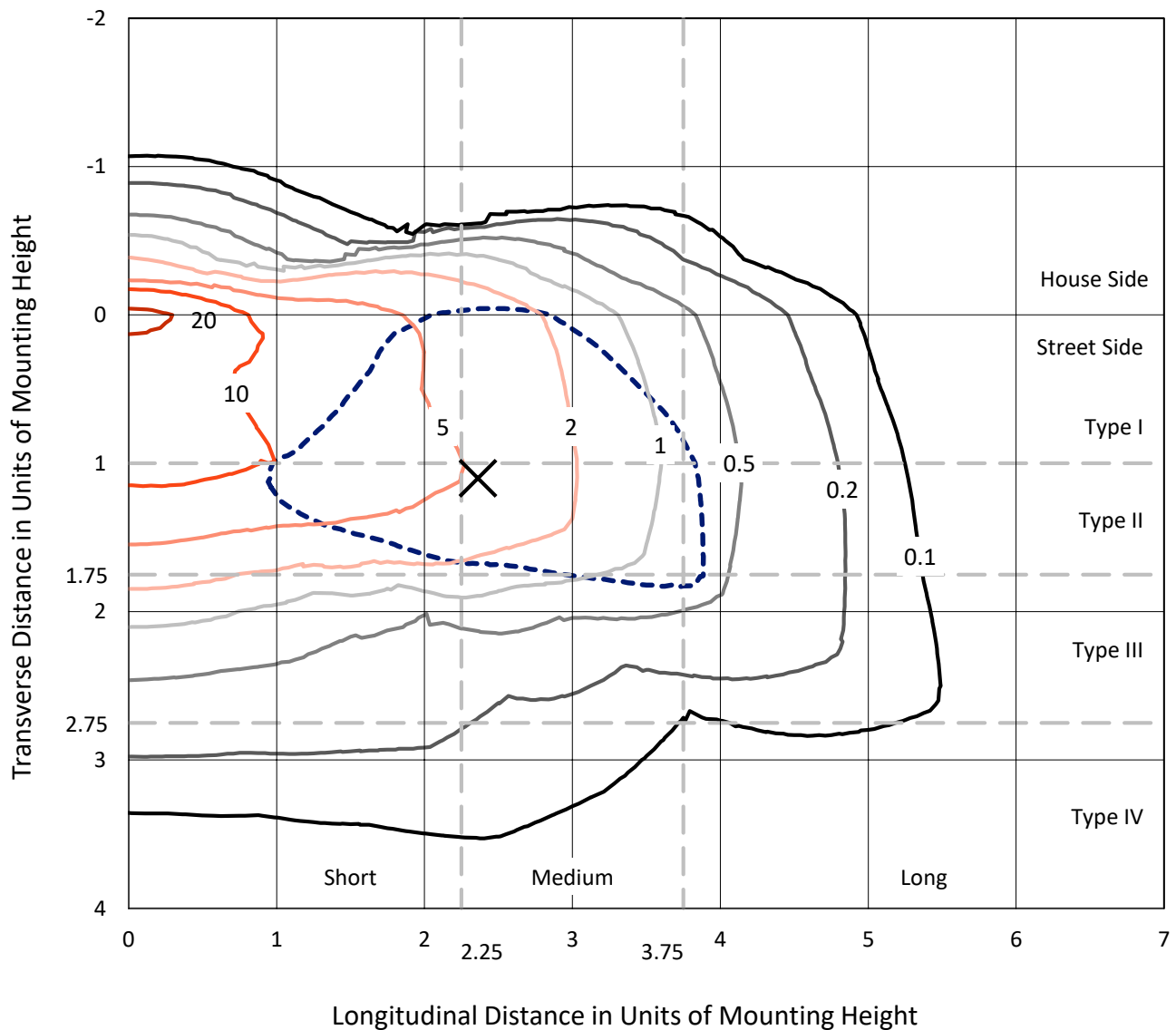
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

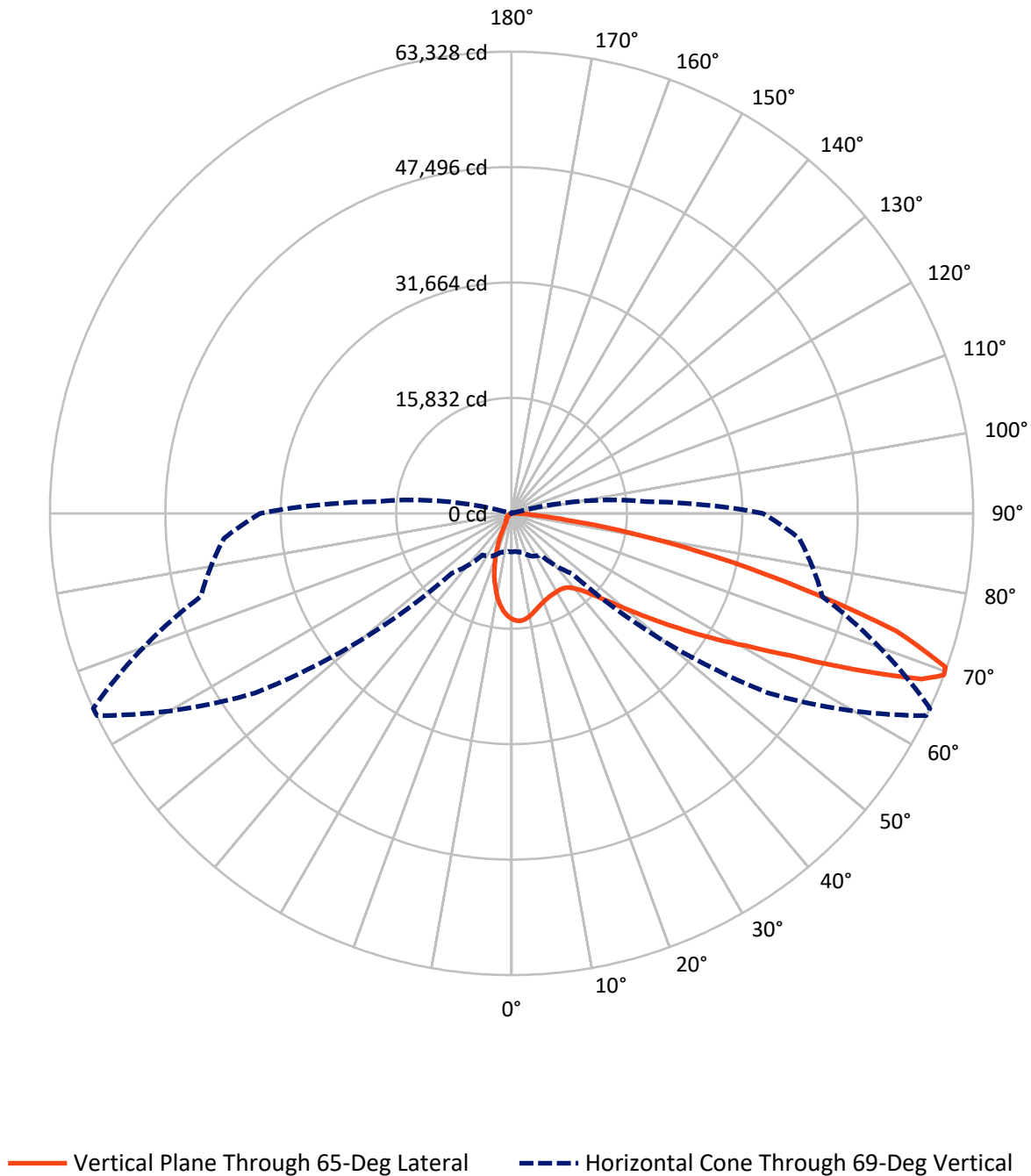
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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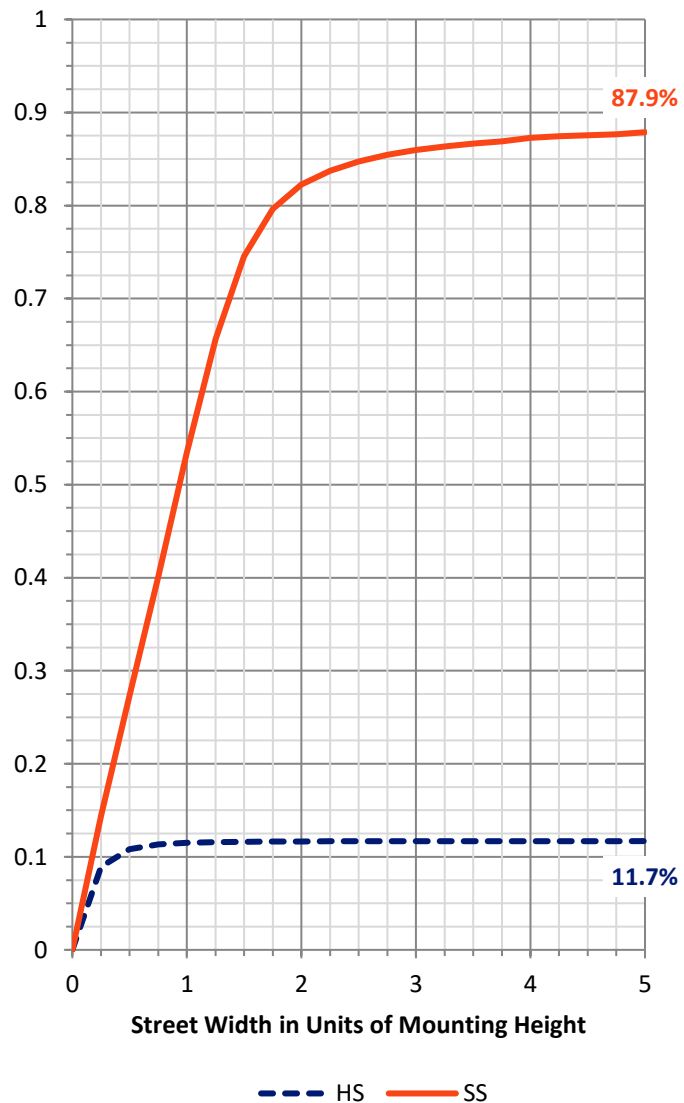
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6772.3	0.0	6772.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	50680.7	0.0	50680.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	57453.0	0.0	57453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1214.0	2.1
10°-20°	2657.6	4.6
20°-30°	3680.9	6.4
30°-40°	5132.3	8.9
40°-50°	7977.3	13.9
50°-60°	12806.7	22.3
60°-70°	14486.5	25.2
70°-80°	8508.0	14.8
80°-90°	989.7	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°	57453.0	100.0
0°-180°	57453.0	100.0

Coefficient of Utilization



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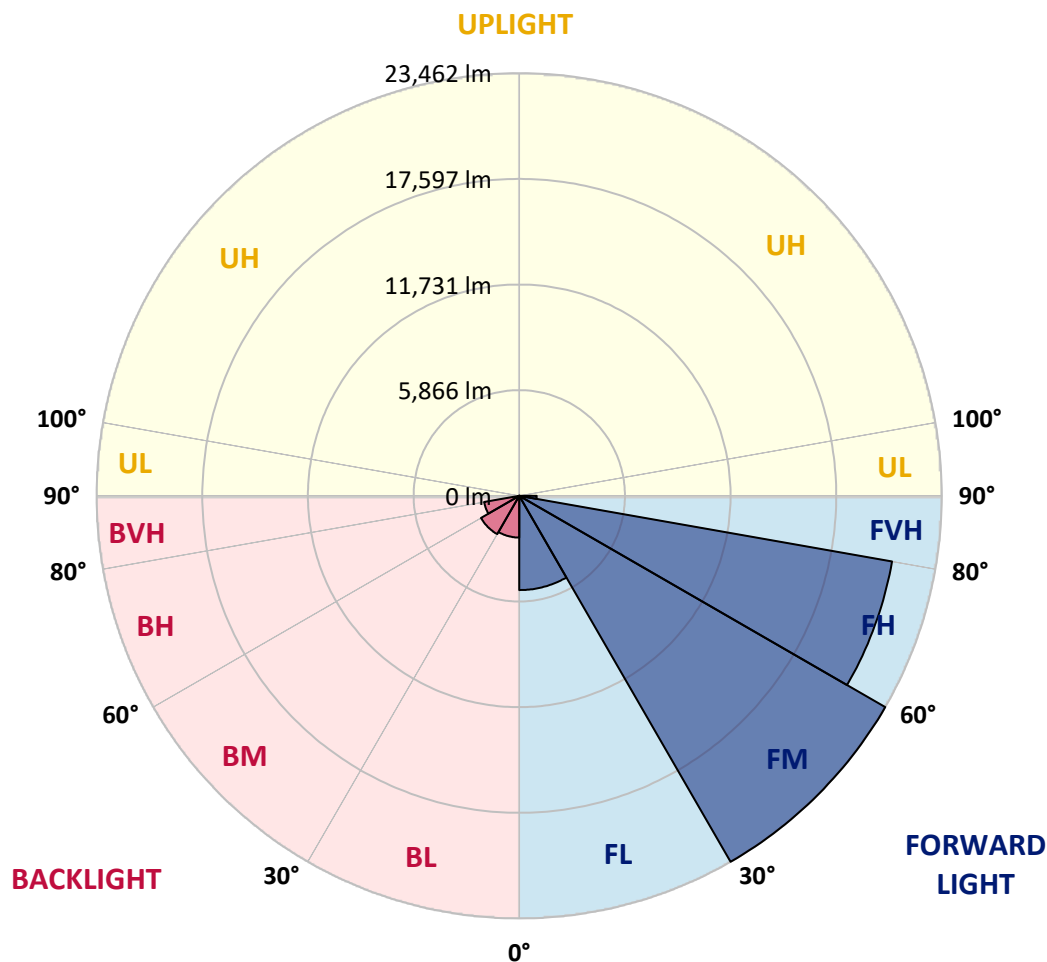
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5235.3	9.1			
FM	(30°-60°)	23462.2	40.8			
FH	(60°-80°)	21015.7	36.6			G5
FVH	(80°-90°)	967.4	1.7			G5
BL	(0°-30°)	2317.2	4.0	B3/2500		
BM	(30°-60°)	2454.1	4.3	B2/2500		
BH	(60°-80°)	1978.7	3.4	B3/2500		G3/2500
BVH	(80°-90°)	22.3	0.0			G1/100
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°	64°	65°	75°	85°
0°	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5
2.5°	14647.3	14610.9	14640.0	14703.2	14734.8	14734.8	14759.2	14730.0	14739.7	14669.2	14567.1
5°	13730.8	13674.9	13755.1	13932.6	14151.4	14338.6	14615.7	14761.6	14776.2	14778.6	14659.5
7.5°	12743.8	12692.7	12811.8	13020.9	13302.9	13650.6	14134.4	14557.4	14581.7	14810.2	14722.7
10°	11941.5	11905.1	12043.6	12267.3	12597.9	12986.9	13580.1	14168.4	14238.9	14744.6	14713.0
12.5°	11304.6	11275.4	11406.7	11664.4	12002.3	12432.6	13052.5	13735.7	13830.5	14596.3	14664.3
15°	10840.2	10835.4	10944.8	11192.7	11567.1	11968.3	12602.8	13334.5	13443.9	14435.8	14657.0
17.5°	10597.1	10604.4	10684.6	10896.1	11217.1	11615.8	12223.5	12996.6	13115.7	14292.4	14693.5
20°	10572.8	10580.1	10623.9	10743.0	11003.1	11355.6	11914.8	12712.2	12836.2	14185.4	14751.9
22.5°	10786.7	10781.9	10794.0	10781.9	10927.8	11195.2	11710.6	12493.4	12636.8	14114.9	14798.0
25°	11197.6	11190.3	11185.4	11095.5	10998.3	11141.7	11625.5	12369.4	12505.5	14063.9	14824.8
27.5°	11768.9	11764.0	11756.8	11608.5	11316.7	11226.8	11635.2	12323.2	12437.5	14022.5	14819.9
30°	12520.1	12554.2	12544.4	12337.8	11883.2	11486.9	11737.3	12298.9	12398.6	13942.3	14768.9
32.5°	13402.6	13470.7	13524.2	13302.9	12734.1	12002.3	11973.1	12325.6	12398.6	13881.5	14676.5
35°	14319.1	14406.6	14603.6	14525.8	13777.0	12777.8	12379.1	12486.1	12546.9	13915.6	14632.7
37.5°	15221.1	15325.6	15753.5	15979.6	15143.3	13803.7	13011.2	12882.3	12914.0	14122.2	14681.4
40°	16268.9	16426.9	17076.0	17440.6	16774.5	15177.3	13956.9	13563.1	13575.2	14576.8	14907.4
42.5°	17644.9	17807.7	18510.3	19081.6	18612.4	16913.1	15240.5	14603.6	14591.4	15427.7	15439.9
45°	19322.3	19492.5	20219.4	20853.9	20642.4	18969.8	16883.9	16123.0	16108.4	16769.7	16448.8
47.5°	21223.4	21391.2	22040.3	22694.2	22922.8	21371.7	18977.1	18196.7	18162.7	18634.3	18007.1
50°	22854.7	22964.1	23562.1	24442.2	25473.0	24323.1	21580.8	20829.6	20793.1	21111.6	20294.7
52.5°	23447.9	23511.1	24118.9	25351.4	27923.5	28319.8	25001.3	24033.8	24007.0	24145.6	23340.9
55°	22246.9	22361.2	23107.5	24935.7	29250.9	32836.7	29319.0	28001.3	27799.5	27500.5	26525.6
57.5°	18974.7	19157.0	19959.3	22390.3	28631.0	36420.2	35664.1	32489.1	32192.5	30364.3	29114.7
60°	14217.0	14440.7	15106.8	17729.9	25322.2	37696.5	42597.6	37489.8	36821.3	32644.7	31494.8
62.5°	9756.0	9867.8	10320.0	12029.0	18648.9	35605.8	48398.2	44187.5	42967.1	35124.4	34069.3
65°	7451.3	7490.2	7675.0	8263.3	11105.2	28922.7	50705.3	53024.5	51548.8	38090.3	36741.1
67.5°	6004.8	5973.2	6228.5	7069.6	7436.7	17644.9	48014.0	61385.0	60694.6	42055.4	39429.9
69°	5294.9	5251.2	5511.3	6488.6	6984.5	11664.4	42923.3	63283.7	63327.5	44148.6	39614.6
70°	4764.9	4794.1	5051.8	6143.4	6831.4	9155.5	38061.2	62799.9	63145.2	44931.4	38506.0
72.5°	3182.3	3260.1	3777.9	5100.4	6568.8	6928.6	22981.1	53890.0	55217.4	43168.9	33036.1
75°	1794.1	1852.5	2467.6	3846.0	6189.6	6598.0	12138.4	39702.1	40985.8	36099.3	25475.4
77.5°	880.1	911.7	1395.4	2482.1	5175.8	6286.8	6884.8	26968.1	28434.0	23562.1	14409.1
80°	372.0	389.0	697.7	1531.6	3700.1	5999.9	5112.6	16597.1	16779.4	9230.9	3838.7
82.5°	143.4	148.3	294.2	955.4	2350.9	4677.4	4276.3	7869.4	7679.8	1738.2	875.2
85°	17.0	19.4	107.0	573.7	1307.9	2406.8	3474.0	3391.4	3138.5	345.2	449.8
87.5°	0.0	0.0	7.3	175.0	389.0	1128.0	1806.3	1407.6	1269.0	111.8	233.4
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°	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5	14518.5
2.5°	14482.0	14457.7	14326.4	14136.8	13956.9	13733.2	13519.3	13390.4	13288.3	13220.3	13300.5
5°	14520.9	14413.9	14015.2	13504.7	13003.9	12439.9	11914.8	11469.9	11294.8	11100.4	11187.9
7.5°	14508.7	14307.0	13589.8	12680.6	11761.6	10811.1	9911.6	9218.7	8858.9	8506.4	8596.3
10°	14448.0	14107.6	13020.9	11674.1	10298.1	8931.8	7655.5	6685.5	6143.4	5652.3	5722.8
12.5°	14314.3	13840.2	12349.9	10521.8	8681.4	6880.0	5384.9	4142.6	3476.5	3182.3	3218.8
15°	14234.0	13580.1	11640.1	9354.8	6955.4	4791.7	3291.7	2448.1	2144.2	2047.0	2059.1
17.5°	14195.1	13329.7	10905.9	8020.2	5190.4	3051.0	2127.2	1876.8	1811.2	1794.1	1799.0
20°	14156.2	13076.8	10149.8	6700.1	3576.1	2051.8	1748.0	1675.0	1650.7	1628.8	1633.7
22.5°	14090.6	12833.7	9337.8	5363.0	2411.6	1665.3	1575.3	1504.8	1453.8	1427.1	1431.9
25°	14010.4	12578.5	8508.8	3994.3	1760.1	1485.4	1400.3	1300.6	1239.9	1191.2	1193.7
27.5°	13881.5	12264.9	7653.1	2907.6	1478.1	1329.8	1215.5	1106.1	1004.0	948.1	948.1
30°	13701.6	11909.9	6702.5	2081.0	1324.9	1176.6	1038.1	901.9	792.5	741.5	736.6
32.5°	13502.3	11540.4	5742.2	1577.8	1203.4	1033.2	875.2	731.8	634.5	593.2	590.8
35°	13332.1	11141.7	4784.4	1322.5	1081.8	894.6	722.0	600.5	522.7	488.6	486.2
37.5°	13222.7	10743.0	3850.8	1181.5	972.4	765.8	605.3	495.9	440.0	413.3	410.9
40°	13205.7	10446.4	2997.5	1074.5	870.3	651.5	505.7	420.6	369.5	340.4	337.9
42.5°	13426.9	10276.2	2299.8	984.6	765.8	551.9	430.3	359.8	306.3	277.1	274.7
45°	14007.9	10329.7	1769.8	904.4	661.3	466.8	364.7	299.0	250.4	228.5	223.7
47.5°	15067.9	10699.2	1407.6	824.1	561.6	396.3	311.2	248.0	206.6	184.8	182.3
50°	16954.4	11567.1	1176.6	736.6	469.2	337.9	257.7	201.8	167.7	148.3	145.9
52.5°	19458.5	13113.3	1050.2	651.5	389.0	286.9	211.5	160.5	131.3	116.7	114.3
55°	22220.2	14985.2	967.6	559.2	318.5	238.2	167.7	126.4	102.1	90.0	85.1
57.5°	24916.2	16606.8	889.8	469.2	265.0	194.5	133.7	99.7	80.2	68.1	65.6
60°	27393.5	18097.0	799.8	376.8	216.4	153.2	104.5	77.8	63.2	51.1	51.1
62.5°	30045.9	19249.4	675.8	294.2	177.5	116.7	85.1	70.5	51.1	43.8	41.3
65°	32856.2	20105.1	530.0	228.5	138.6	87.5	70.5	72.9	41.3	31.6	29.2
67.5°	34932.3	19934.9	391.4	179.9	107.0	68.1	68.1	77.8	36.5	24.3	21.9
69°	34475.3	18551.7	328.2	155.6	92.4	58.3	63.2	77.8	34.0	21.9	19.4
70°	33150.4	17020.1	289.3	138.6	82.7	53.5	60.8	75.4	31.6	21.9	19.4
72.5°	27607.5	12819.1	226.1	104.5	65.6	43.8	51.1	65.6	31.6	21.9	17.0
75°	20766.4	8204.9	172.6	75.4	48.6	34.0	38.9	48.6	31.6	19.4	17.0
77.5°	11299.7	2958.6	124.0	51.1	34.0	26.7	26.7	36.5	29.2	14.6	9.7
80°	2905.2	743.9	77.8	34.0	26.7	19.4	17.0	24.3	17.0	2.4	0.0
82.5°	717.2	167.7	41.3	24.3	19.4	7.3	7.3	12.2	7.3	0.0	0.0
85°	393.8	82.7	26.7	17.0	9.7	0.0	0.0	2.4	0.0	0.0	0.0
87.5°	201.8	24.3	7.3	4.9	2.4	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)