

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: P323661

Luminaire Tested: **GAN-SA7D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323661
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-SA7D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 34468 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

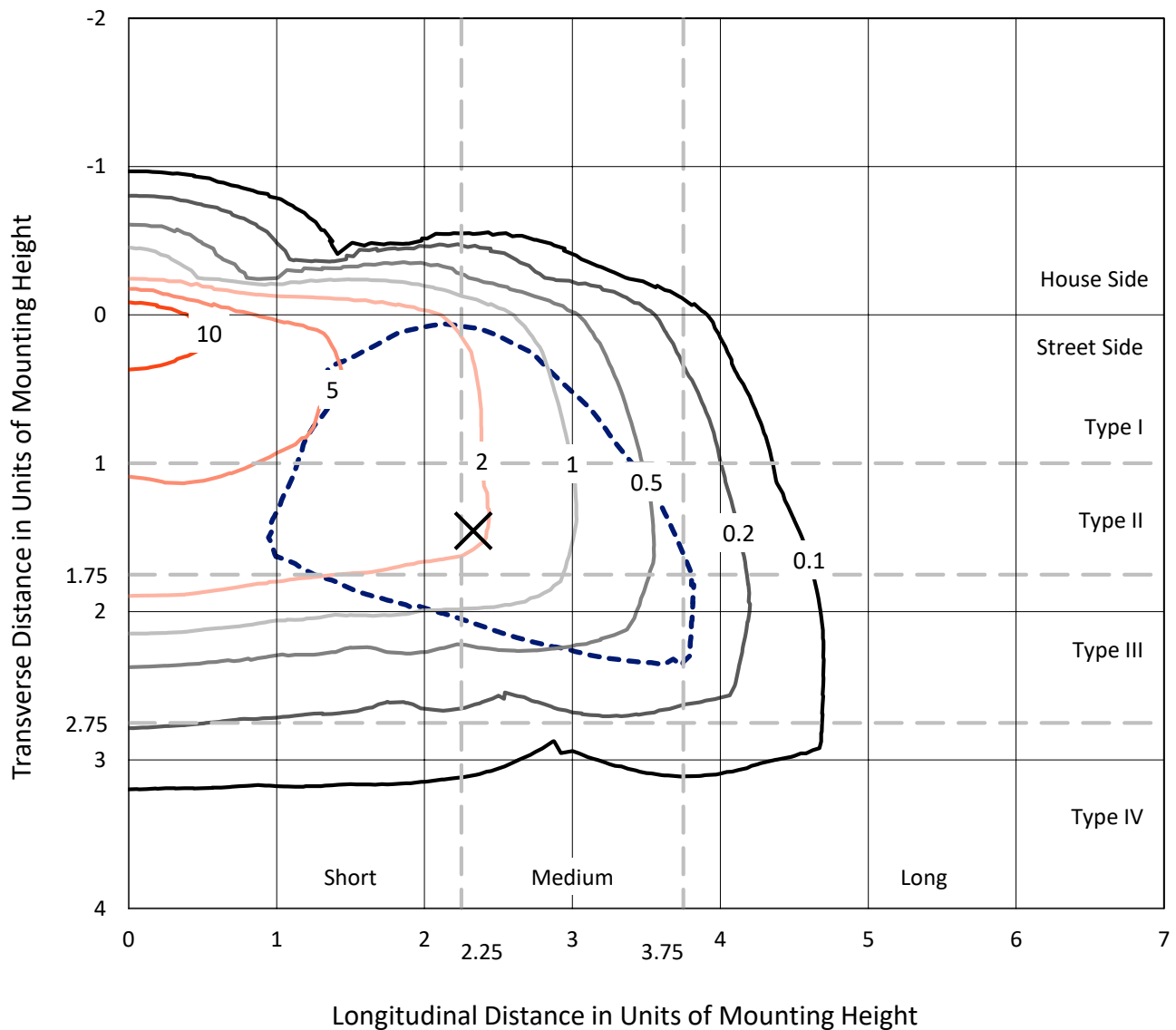
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

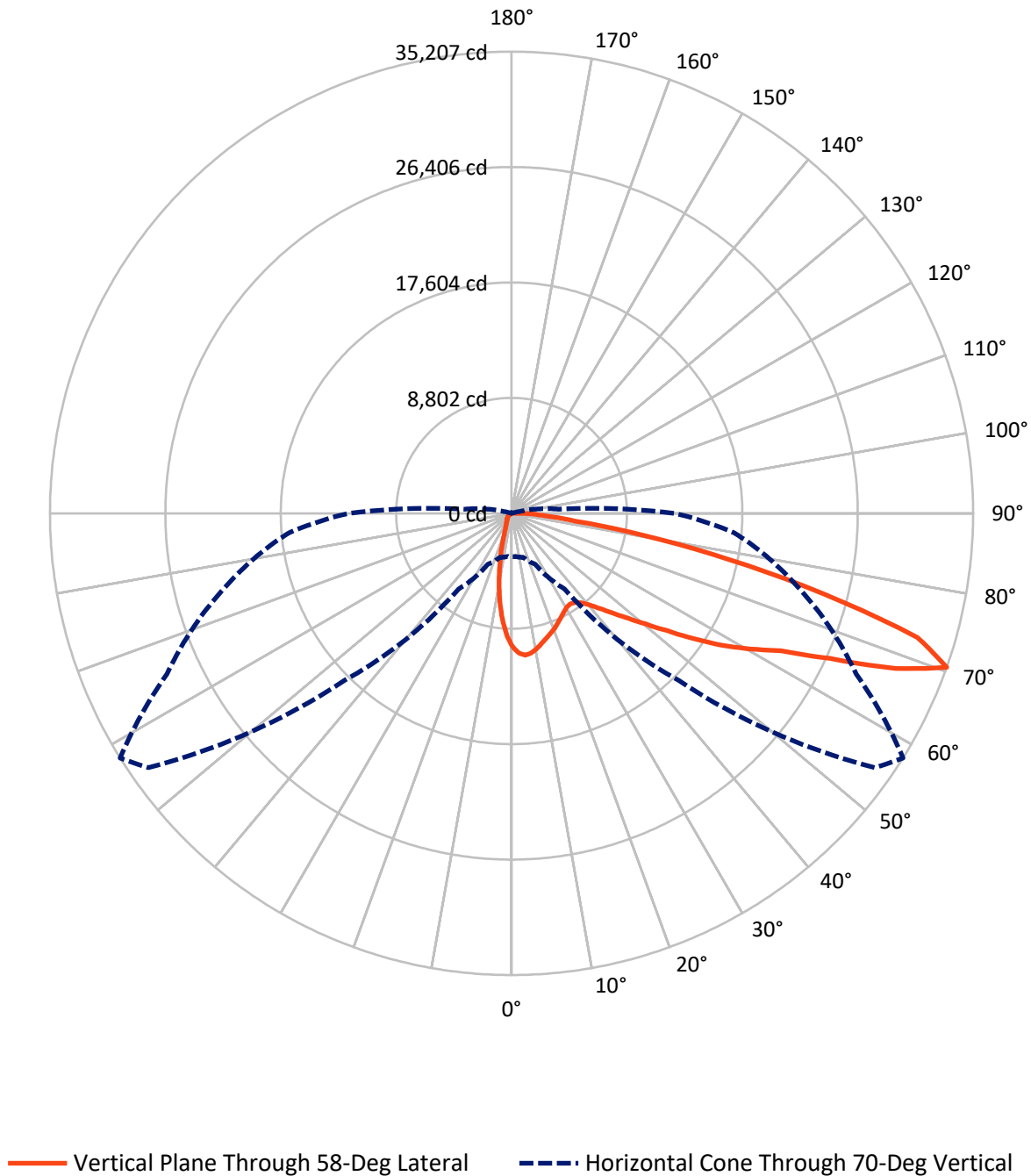
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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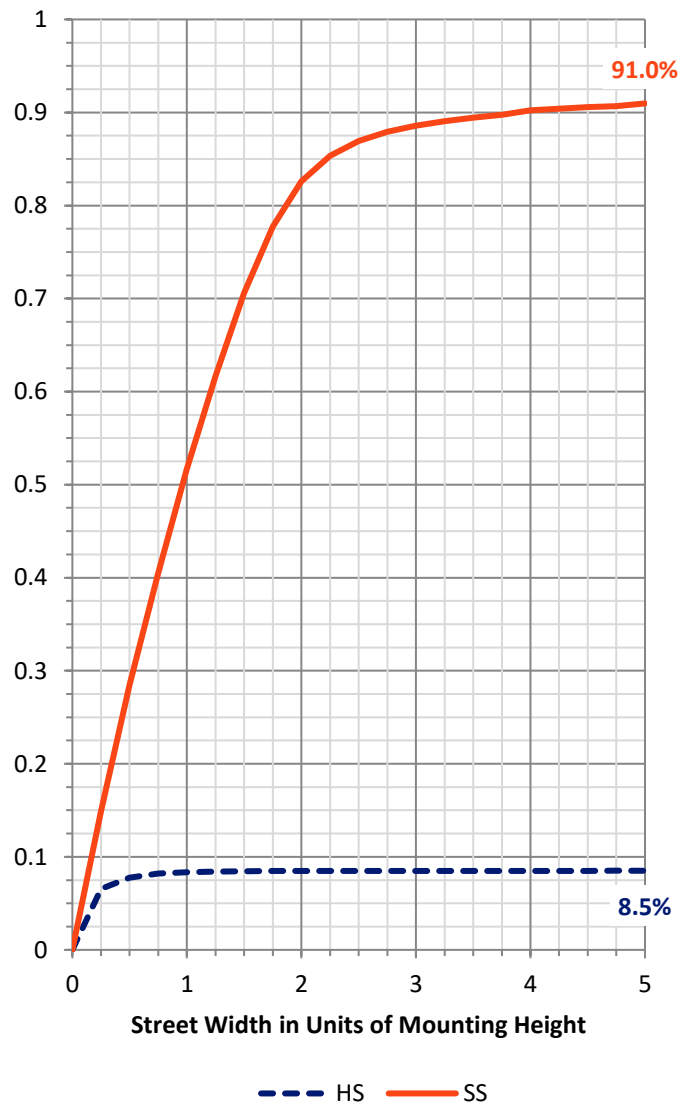
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2949.7	0.0	2949.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	31518.3	0.0	31518.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	34468.0	0.0	34468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	2.4
10°-20°	1747.4	5.1
20°-30°	2297.3	6.7
30°-40°	3042.5	8.8
40°-50°	4547.6	13.2
50°-60°	7285.0	21.1
60°-70°	9182.7	26.6
70°-80°	4953.1	14.4
80°-90°	579.8	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°	34468.0	100.0
0°-180°	34468.0	100.0

Coefficient of Utilization



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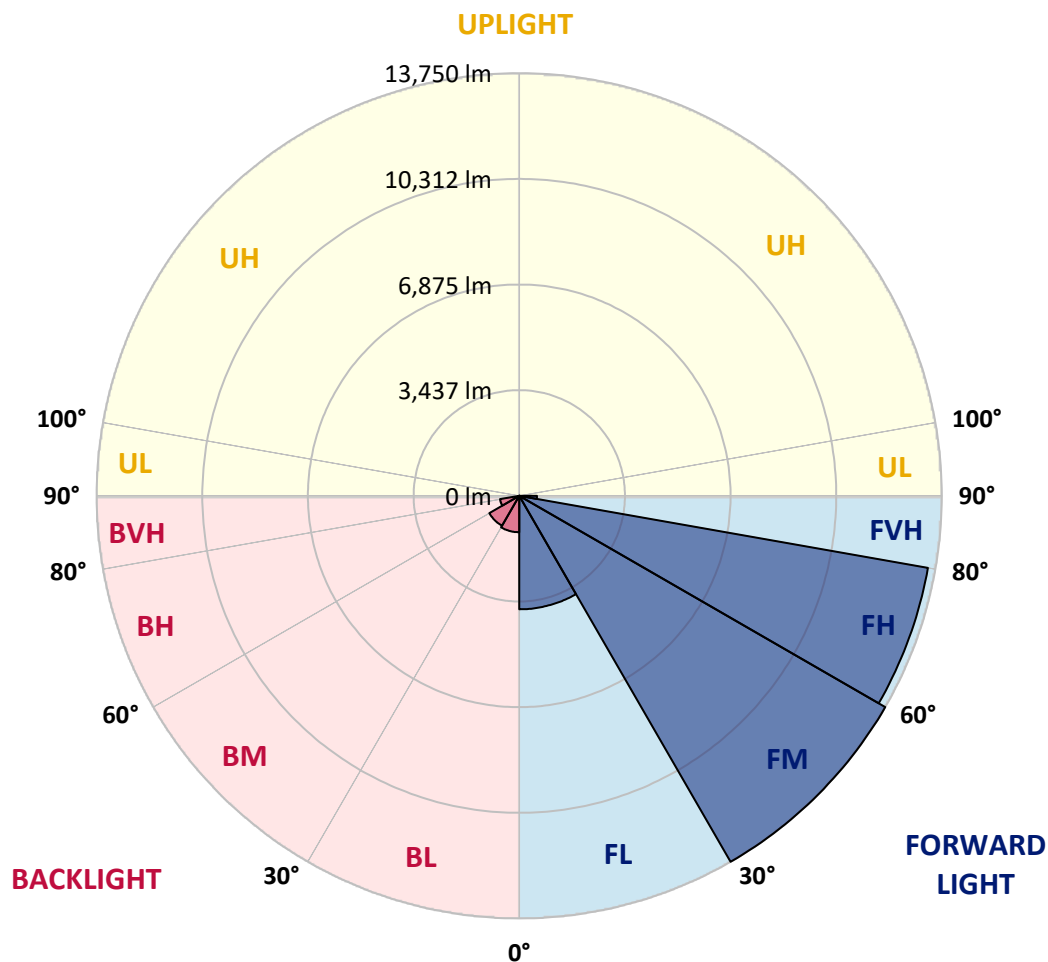
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3692.2	10.7			
FM	(30°-60°)	13749.8	39.9			
FH	(60°-80°)	13501.5	39.2			G5
FVH	(80°-90°)	574.8	1.7			G4/750
BL	(0°-30°)	1185.1	3.4	B3/2500		
BM	(30°-60°)	1125.3	3.3	B2/2500		
BH	(60°-80°)	634.3	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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°	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7
2.5°	11025.9	10998.6	10988.6	10971.4	10905.5	10841.0	10713.4	10677.6	10597.3	10406.7	10204.6
5°	11034.5	11033.0	11063.1	11056.0	11033.0	11002.9	10911.2	10863.9	10727.7	10455.4	10085.7
7.5°	10502.7	10530.0	10597.3	10651.8	10714.8	10796.5	10808.0	10762.1	10650.4	10356.5	9866.4
10°	9789.0	9832.0	9926.6	10034.1	10198.9	10362.3	10508.5	10502.7	10464.0	10174.5	9602.7
12.5°	9073.8	9124.0	9232.9	9392.0	9625.6	9892.2	10153.0	10188.9	10253.3	10011.1	9359.0
15°	8447.5	8490.5	8598.0	8792.9	9082.4	9440.7	9823.4	9889.3	10055.6	9883.6	9155.5
17.5°	7915.7	7943.0	8021.8	8238.2	8573.6	9007.9	9505.2	9634.2	9882.1	9783.2	8979.2
20°	7544.5	7548.8	7600.4	7752.4	8087.7	8573.6	9175.6	9360.4	9698.7	9697.3	8797.2
22.5°	7361.1	7346.8	7356.8	7444.2	7690.7	8159.4	8845.9	9065.2	9533.9	9624.2	8612.3
25°	7326.7	7315.2	7286.6	7298.0	7447.1	7796.8	8513.4	8767.1	9389.1	9579.7	8451.8
27.5°	7434.2	7445.6	7396.9	7345.3	7356.8	7561.7	8218.2	8512.0	9271.6	9579.7	8338.5
30°	7650.6	7656.3	7620.5	7553.1	7462.8	7495.8	8013.2	8307.0	9212.8	9645.7	8266.9
32.5°	7889.9	7921.5	7917.2	7862.7	7733.7	7600.4	7964.5	8232.5	9208.5	9791.8	8259.7
35°	8186.6	8222.5	8282.7	8271.2	8136.5	7917.2	8130.7	8341.4	9293.1	10032.6	8337.1
37.5°	8501.9	8556.4	8685.4	8747.0	8659.6	8411.6	8503.4	8653.9	9519.5	10422.5	8533.5
40°	8807.2	8868.8	9103.9	9346.1	9280.2	9025.1	9068.1	9188.5	9922.3	10982.9	8906.1
42.5°	9106.8	9198.5	9543.9	9942.3	10021.2	9817.6	9840.6	9936.6	10519.9	11753.9	9515.2
45°	9465.1	9568.3	10079.9	10571.5	10782.2	10693.3	10790.8	10853.9	11301.0	12773.0	10336.5
47.5°	9991.1	10110.0	10737.8	11298.2	11667.9	11725.3	11921.6	11963.2	12288.5	13959.7	11407.1
50°	11017.3	11050.2	11617.8	12126.6	12659.7	13003.7	13227.3	13258.8	13483.9	15256.8	12744.3
52.5°	12308.6	12330.1	12651.1	12992.3	13598.5	14300.8	14823.9	14868.4	14915.7	16520.9	14064.3
55°	13591.3	13588.5	13800.6	14001.2	14694.9	15715.4	16850.5	16877.7	16538.1	17720.5	15073.3
57.5°	14392.5	14469.9	14792.4	15050.4	16019.2	17327.8	18902.9	19003.2	18242.2	18609.1	16070.8
60°	14137.4	14174.7	14889.9	15844.4	17668.9	19619.5	20979.7	21005.5	19523.5	19496.3	17332.1
62.5°	12044.9	12065.0	13188.6	15156.4	18504.5	22592.0	23484.9	23065.0	20996.9	20727.4	18841.3
65°	8255.4	8385.8	9324.6	11756.8	16969.5	24456.7	27363.3	26668.2	23242.7	22501.8	20205.7
67.5°	4861.5	4834.3	5298.7	7090.2	12463.4	23218.4	32269.2	31578.4	26305.6	23689.9	19805.8
70°	3320.8	3302.2	3479.9	4292.5	7035.7	18011.4	33812.8	35207.4	29010.1	22890.2	17045.4
72.5°	2370.6	2380.6	2642.9	3335.1	4417.2	10494.1	29077.4	32378.2	28163.0	19954.9	12956.4
75°	1609.5	1636.8	2012.3	2736.0	3872.6	5338.8	20634.2	24612.9	22933.2	14502.9	7447.1
77.5°	865.7	895.8	1338.6	2204.3	3501.4	3709.2	13273.2	16939.4	14405.4	6519.8	2158.4
80°	361.2	378.4	626.3	1602.4	3025.6	3257.7	7809.7	10272.0	6138.5	1285.6	481.6
82.5°	156.2	164.8	260.8	956.0	2261.6	2750.4	4134.9	4941.8	1860.3	282.3	242.2
85°	30.1	31.5	107.5	505.9	1443.3	1552.2	2680.1	2627.1	835.6	121.8	176.3
87.5°	0.0	0.0	25.8	159.1	424.2	845.6	1635.3	1615.3	283.8	58.8	65.9
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°	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7	10181.7
2.5°	10101.4	10002.5	9794.7	9538.2	9341.8	9125.4	8953.4	8735.6	8641.0	8645.3	8593.7
5°	9875.0	9671.5	9211.4	8630.9	8183.8	7722.3	7325.3	6929.7	6696.1	6620.1	6548.4
7.5°	9551.1	9228.6	8494.8	7600.4	6843.7	6104.1	5460.6	4894.5	4536.2	4361.3	4296.8
10°	9185.6	8732.7	7670.7	6492.5	5411.9	4411.5	3577.3	2852.1	2562.6	2366.3	2316.1
12.5°	8864.5	8251.1	6865.2	5356.0	4073.2	2866.5	2071.0	1619.6	1423.2	1345.8	1332.9
15°	8562.1	7801.1	6089.8	4326.9	2820.6	1764.3	1317.1	1163.8	1117.9	1105.0	1105.0
17.5°	8276.9	7372.5	5331.6	3313.6	1866.1	1236.9	1090.7	1056.3	1042.0	1040.5	1042.0
20°	7978.8	6944.0	4586.3	2427.9	1302.8	1047.7	1007.6	988.9	984.6	984.6	984.6
22.5°	7693.6	6515.5	3861.1	1734.2	1044.8	956.0	935.9	923.0	918.7	917.3	914.4
25°	7419.8	6108.4	3153.1	1225.4	917.3	875.7	858.5	841.3	828.4	821.2	816.9
27.5°	7194.8	5745.8	2493.8	983.2	828.4	792.6	771.1	745.3	713.7	699.4	693.7
30°	7015.7	5414.8	1922.0	829.8	745.3	709.5	676.5	632.1	586.2	561.8	560.4
32.5°	6875.2	5089.4	1459.0	733.8	670.8	626.3	579.0	523.1	470.1	442.9	441.4
35°	6806.4	4802.8	1115.1	663.6	604.8	548.9	490.2	428.5	376.9	351.1	348.3
37.5°	6852.3	4560.5	870.0	604.8	548.9	484.4	415.6	351.1	305.3	282.3	280.9
40°	7020.0	4405.8	706.6	554.7	501.6	422.8	348.3	288.1	249.4	230.8	229.3
42.5°	7376.8	4348.4	603.4	513.1	455.8	365.5	289.5	237.9	202.1	189.2	186.3
45°	7973.1	4433.0	533.2	473.0	408.5	311.0	239.3	194.9	163.4	153.4	151.9
47.5°	8767.1	4655.1	483.0	434.3	365.5	262.3	199.2	157.7	133.3	123.3	121.8
50°	9790.4	5007.7	441.4	395.6	325.3	222.2	164.8	124.7	103.2	96.0	96.0
52.5°	10904.0	5427.7	404.2	359.7	285.2	184.9	133.3	96.0	81.7	73.1	73.1
55°	11824.2	5794.6	364.0	332.5	236.5	153.4	101.8	73.1	60.2	55.9	55.9
57.5°	12742.9	6185.8	318.2	285.2	189.2	124.7	77.4	54.5	44.4	41.6	41.6
60°	13933.9	6664.5	273.7	232.2	149.1	94.6	57.3	38.7	33.0	31.5	31.5
62.5°	15243.9	6945.4	233.6	186.3	116.1	70.2	41.6	25.8	24.4	24.4	22.9
65°	16045.0	6548.4	196.4	149.1	90.3	53.0	27.2	18.6	21.5	20.1	17.2
67.5°	15023.1	5126.7	160.5	116.1	70.2	40.1	17.2	12.9	22.9	18.6	14.3
70°	12439.0	3588.8	124.7	81.7	55.9	34.4	11.5	8.6	24.4	18.6	11.5
72.5°	9308.8	2402.1	98.9	54.5	41.6	30.1	10.0	4.3	21.5	15.8	10.0
75°	5086.5	967.4	78.8	34.4	25.8	21.5	7.2	2.9	14.3	11.5	7.2
77.5°	1338.6	255.1	57.3	22.9	14.3	8.6	4.3	1.4	7.2	5.7	2.9
80°	341.1	98.9	37.3	15.8	10.0	4.3	0.0	0.0	1.4	0.0	0.0
82.5°	182.0	41.6	22.9	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	137.6	27.2	12.9	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	53.0	8.6	4.3	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)