

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: P323449

Luminaire Tested: **GAN-SA5C-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323449
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-SA5C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 25256 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

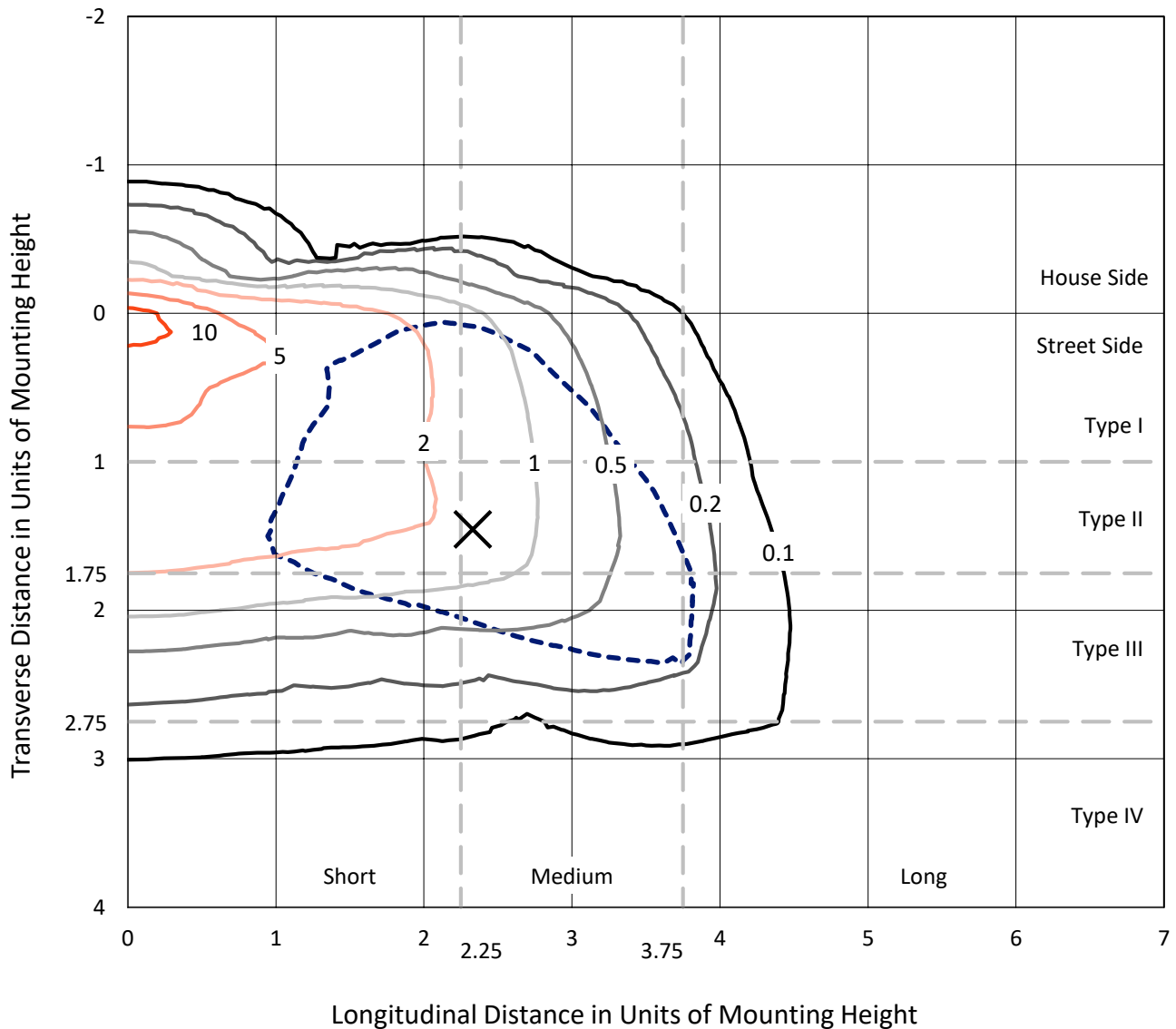
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

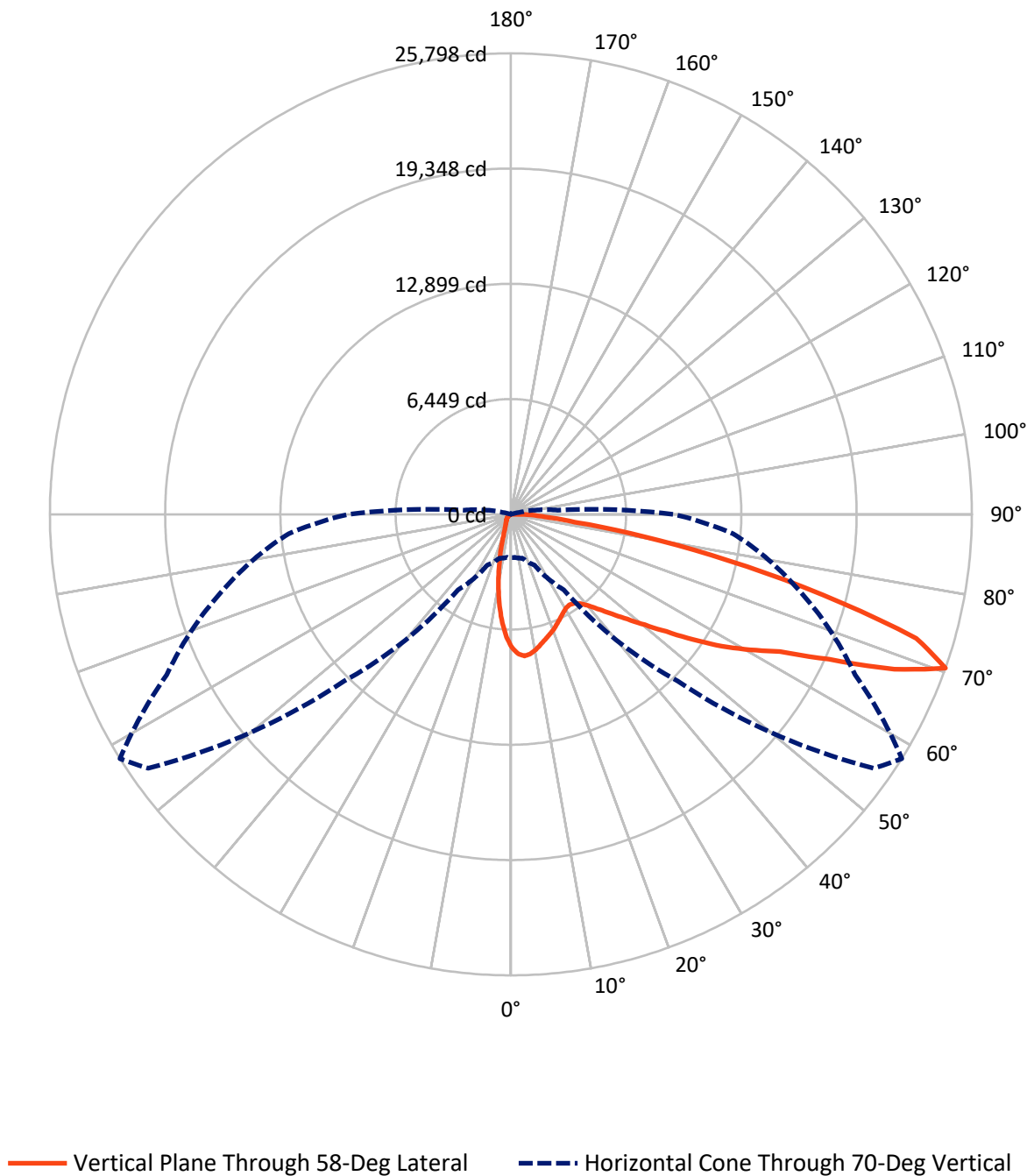
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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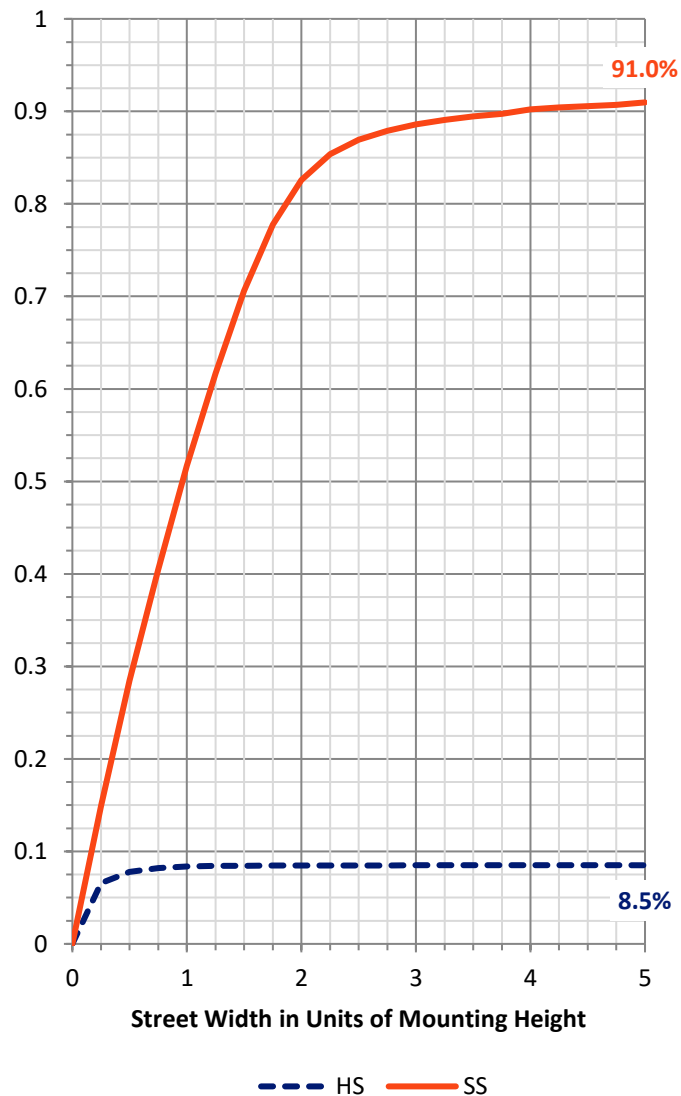
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.4	0.0	2161.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	23094.7	0.0	23094.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	25256.0	0.0	25256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	2.4
10°-20°	1280.4	5.1
20°-30°	1683.3	6.7
30°-40°	2229.3	8.8
40°-50°	3332.2	13.2
50°-60°	5338.0	21.1
60°-70°	6728.5	26.6
70°-80°	3629.3	14.4
80°-90°	424.8	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°	25256.0	100.0
0°-180°	25256.0	100.0

Coefficient of Utilization



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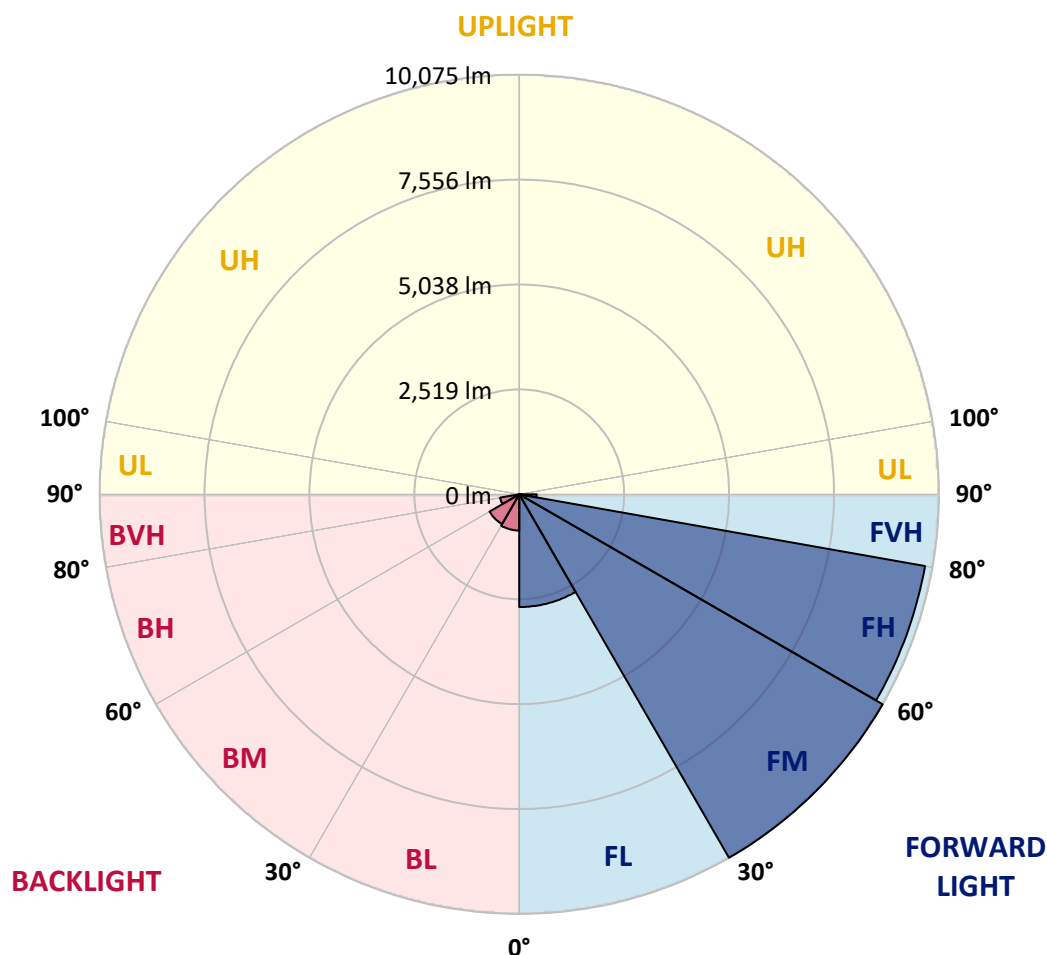
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2705.4	10.7			
FM	(30°-60°)	10075.0	39.9			
FH	(60°-80°)	9893.0	39.2			G4/12000
FVH	(80°-90°)	421.2	1.7			G3/500
BL	(0°-30°)	868.3	3.4	B2/1000		
BM	(30°-60°)	824.5	3.3	B1/1000		
BH	(60°-80°)	464.8	1.8	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5
2.5°	8079.1	8059.1	8051.8	8039.2	7990.8	7943.6	7850.1	7823.9	7765.1	7625.4	7477.3
5°	8085.4	8084.3	8106.4	8101.1	8084.3	8062.3	7995.0	7960.4	7860.6	7661.1	7390.1
7.5°	7695.7	7715.7	7765.1	7805.0	7851.2	7911.0	7919.4	7885.8	7803.9	7588.6	7229.5
10°	7172.8	7204.3	7273.6	7352.3	7473.1	7592.8	7699.9	7695.7	7667.4	7455.3	7036.2
12.5°	6648.7	6685.5	6765.3	6881.9	7053.0	7248.4	7439.5	7465.8	7513.0	7335.5	6857.7
15°	6189.8	6221.3	6300.1	6442.9	6655.0	6917.6	7198.0	7246.3	7368.1	7242.1	6708.6
17.5°	5800.2	5820.1	5877.9	6036.5	6282.2	6600.4	6964.8	7059.3	7241.0	7168.6	6579.4
20°	5528.2	5531.3	5569.1	5680.4	5926.2	6282.2	6723.3	6858.7	7106.6	7105.5	6446.0
22.5°	5393.7	5383.2	5390.6	5454.7	5635.3	5978.7	6481.7	6642.4	6985.8	7052.0	6310.6
25°	5368.5	5360.1	5339.1	5347.5	5456.8	5713.0	6238.1	6424.0	6879.8	7019.4	6192.9
27.5°	5447.3	5455.7	5420.0	5382.2	5390.6	5540.8	6021.8	6237.0	6793.6	7019.4	6110.0
30°	5605.9	5610.1	5583.8	5534.5	5468.3	5492.5	5871.6	6086.9	6750.6	7067.7	6057.5
32.5°	5781.3	5804.4	5801.2	5761.3	5666.8	5569.1	5835.9	6032.3	6747.4	7174.9	6052.2
35°	5998.6	6024.9	6069.0	6060.6	5961.9	5801.2	5957.7	6112.1	6809.4	7351.3	6108.9
37.5°	6229.7	6269.6	6364.1	6409.3	6345.2	6163.5	6230.7	6341.0	6975.3	7636.9	6252.8
40°	6453.4	6498.5	6670.8	6848.2	6799.9	6613.0	6644.5	6732.7	7270.4	8047.6	6525.8
42.5°	6672.9	6740.1	6993.2	7285.1	7342.9	7193.8	7210.6	7280.9	7708.3	8612.6	6972.2
45°	6935.4	7011.0	7385.9	7746.2	7900.5	7835.4	7906.8	7953.0	8280.7	9359.2	7573.9
47.5°	7320.8	7408.0	7868.0	8278.6	8549.5	8591.6	8735.4	8765.9	9004.3	10228.8	8358.4
50°	8072.8	8096.9	8512.8	8885.6	9276.3	9528.3	9692.1	9715.2	9880.1	11179.2	9338.2
52.5°	9019.0	9034.7	9270.0	9519.9	9964.1	10478.7	10862.0	10894.6	10929.3	12105.5	10305.4
55°	9958.9	9956.8	10112.2	10259.2	10767.5	11515.3	12347.0	12367.0	12118.1	12984.5	11044.8
57.5°	10545.9	10602.7	10838.9	11028.0	11737.9	12696.7	13850.9	13924.4	13366.7	13635.6	11775.7
60°	10359.0	10386.3	10910.4	11609.8	12946.7	14376.0	15372.6	15391.5	14305.6	14285.6	12699.9
62.5°	8825.7	8840.4	9663.8	11105.7	13558.9	16554.0	17208.3	16900.6	15385.2	15187.8	13805.7
65°	6049.1	6144.6	6832.5	8614.7	12434.2	17920.3	20050.1	19540.8	17030.8	16487.9	14805.5
67.5°	3562.2	3542.3	3882.5	5195.3	9132.4	17013.0	23644.9	23138.7	19275.1	17358.5	14512.5
70°	2433.3	2419.6	2549.8	3145.3	5155.4	13197.7	24775.9	25797.8	21256.8	16772.5	12489.8
72.5°	1737.0	1744.4	1936.5	2443.8	3236.7	7689.4	21306.1	23724.7	20636.1	14621.7	9493.7
75°	1179.4	1199.3	1474.5	2004.8	2837.6	3911.9	15119.5	18034.8	16804.0	10626.8	5456.8
77.5°	634.3	656.4	980.9	1615.2	2565.6	2717.9	9725.7	12412.1	10555.4	4777.3	1581.6
80°	264.6	277.2	458.9	1174.1	2216.9	2387.1	5722.4	7526.7	4497.9	942.0	352.9
82.5°	114.5	120.8	191.1	700.5	1657.2	2015.3	3029.8	3621.0	1363.1	206.9	177.5
85°	22.1	23.1	78.8	370.7	1057.5	1137.3	1963.8	1925.0	612.3	89.3	129.2
87.5°	0.0	0.0	18.9	116.6	310.9	619.6	1198.3	1183.6	207.9	43.1	48.3
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°	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5	7460.5
2.5°	7401.7	7329.2	7177.0	6989.0	6845.1	6686.5	6560.5	6400.9	6331.6	6334.7	6296.9
5°	7235.8	7086.6	6749.5	6324.2	5996.5	5658.4	5367.5	5077.6	4906.5	4850.8	4798.3
7.5°	6998.4	6762.1	6224.4	5569.1	5014.6	4472.7	4001.2	3586.4	3323.8	3195.7	3148.4
10°	6730.6	6398.8	5620.6	4757.3	3965.5	3232.5	2621.3	2089.9	1877.7	1733.9	1697.1
12.5°	6495.4	6045.9	5030.4	3924.5	2984.6	2100.4	1517.5	1186.7	1042.8	986.1	976.7
15°	6273.8	5716.1	4462.2	3170.5	2066.8	1292.8	965.1	852.7	819.1	809.7	809.7
17.5°	6064.8	5402.1	3906.7	2428.0	1367.3	906.3	799.2	774.0	763.5	762.4	763.5
20°	5846.4	5088.1	3360.6	1779.0	954.6	767.7	738.3	724.6	721.5	721.5	721.5
22.5°	5637.4	4774.1	2829.2	1270.7	765.6	700.5	685.8	676.3	673.2	672.1	670.0
25°	5436.8	4475.9	2310.4	897.9	672.1	641.7	629.1	616.5	607.0	601.8	598.6
27.5°	5271.9	4210.2	1827.3	720.4	607.0	580.8	565.0	546.1	523.0	512.5	508.3
30°	5140.6	3967.6	1408.3	608.1	546.1	519.8	495.7	463.1	429.5	411.7	410.6
32.5°	5037.7	3729.2	1069.1	537.7	491.5	458.9	424.3	383.3	344.5	324.5	323.5
35°	4987.3	3519.2	817.0	486.2	443.2	402.2	359.2	314.0	276.2	257.3	255.2
37.5°	5020.9	3341.7	637.5	443.2	402.2	355.0	304.6	257.3	223.7	206.9	205.8
40°	5143.8	3228.3	517.7	406.4	367.6	309.8	255.2	211.1	182.7	169.1	168.0
42.5°	5405.3	3186.3	442.1	376.0	334.0	267.8	212.1	174.3	148.1	138.6	136.5
45°	5842.2	3248.2	390.7	346.6	299.3	227.9	175.4	142.8	119.7	112.4	111.3
47.5°	6424.0	3411.0	353.9	318.2	267.8	192.2	146.0	115.5	97.7	90.3	89.3
50°	7173.8	3669.3	323.5	289.9	238.4	162.8	120.8	91.4	75.6	70.4	70.4
52.5°	7989.8	3977.0	296.2	263.6	209.0	135.5	97.7	70.4	59.9	53.6	53.6
55°	8664.0	4245.9	266.7	243.6	173.3	112.4	74.6	53.6	44.1	41.0	41.0
57.5°	9337.2	4532.6	233.1	209.0	138.6	91.4	56.7	39.9	32.6	30.5	30.5
60°	10209.9	4883.4	200.6	170.1	109.2	69.3	42.0	28.4	24.2	23.1	23.1
62.5°	11169.8	5089.2	171.2	136.5	85.1	51.5	30.5	18.9	17.9	17.9	16.8
65°	11756.8	4798.3	143.9	109.2	66.2	38.9	20.0	13.7	15.8	14.7	12.6
67.5°	11008.0	3756.5	117.6	85.1	51.5	29.4	12.6	9.5	16.8	13.7	10.5
70°	9114.5	2629.7	91.4	59.9	41.0	25.2	8.4	6.3	17.9	13.7	8.4
72.5°	6820.9	1760.1	72.5	39.9	30.5	22.1	7.4	3.2	15.8	11.6	7.4
75°	3727.1	708.9	57.8	25.2	18.9	15.8	5.3	2.1	10.5	8.4	5.3
77.5°	980.9	186.9	42.0	16.8	10.5	6.3	3.2	1.1	5.3	4.2	2.1
80°	249.9	72.5	27.3	11.6	7.4	3.2	0.0	0.0	1.1	0.0	0.0
82.5°	133.4	30.5	16.8	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	100.8	20.0	9.5	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.9	6.3	3.2	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)