

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: P323659

Luminaire Tested: **GAN-SA5D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323659
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-SA5D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 24354 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

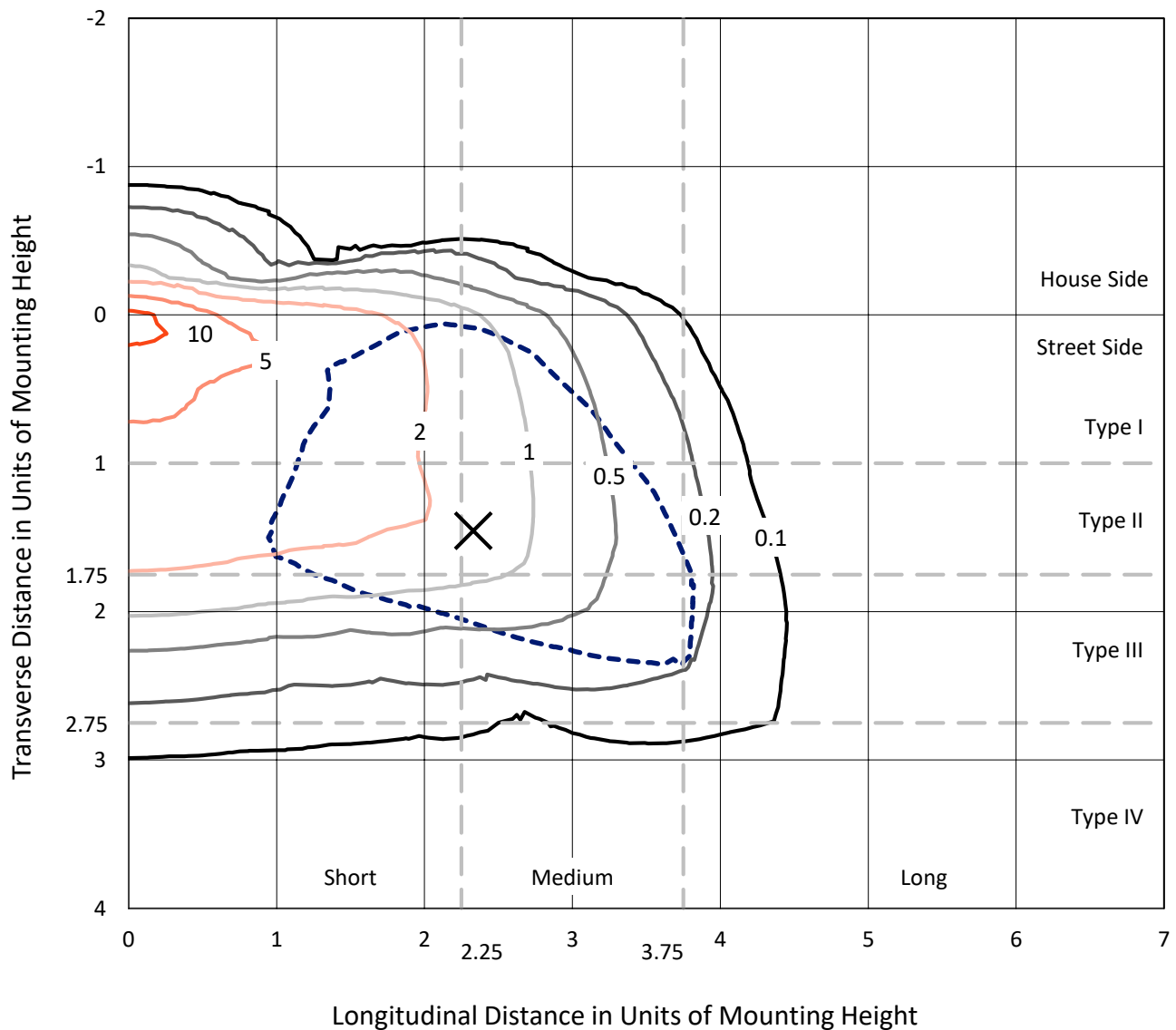
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

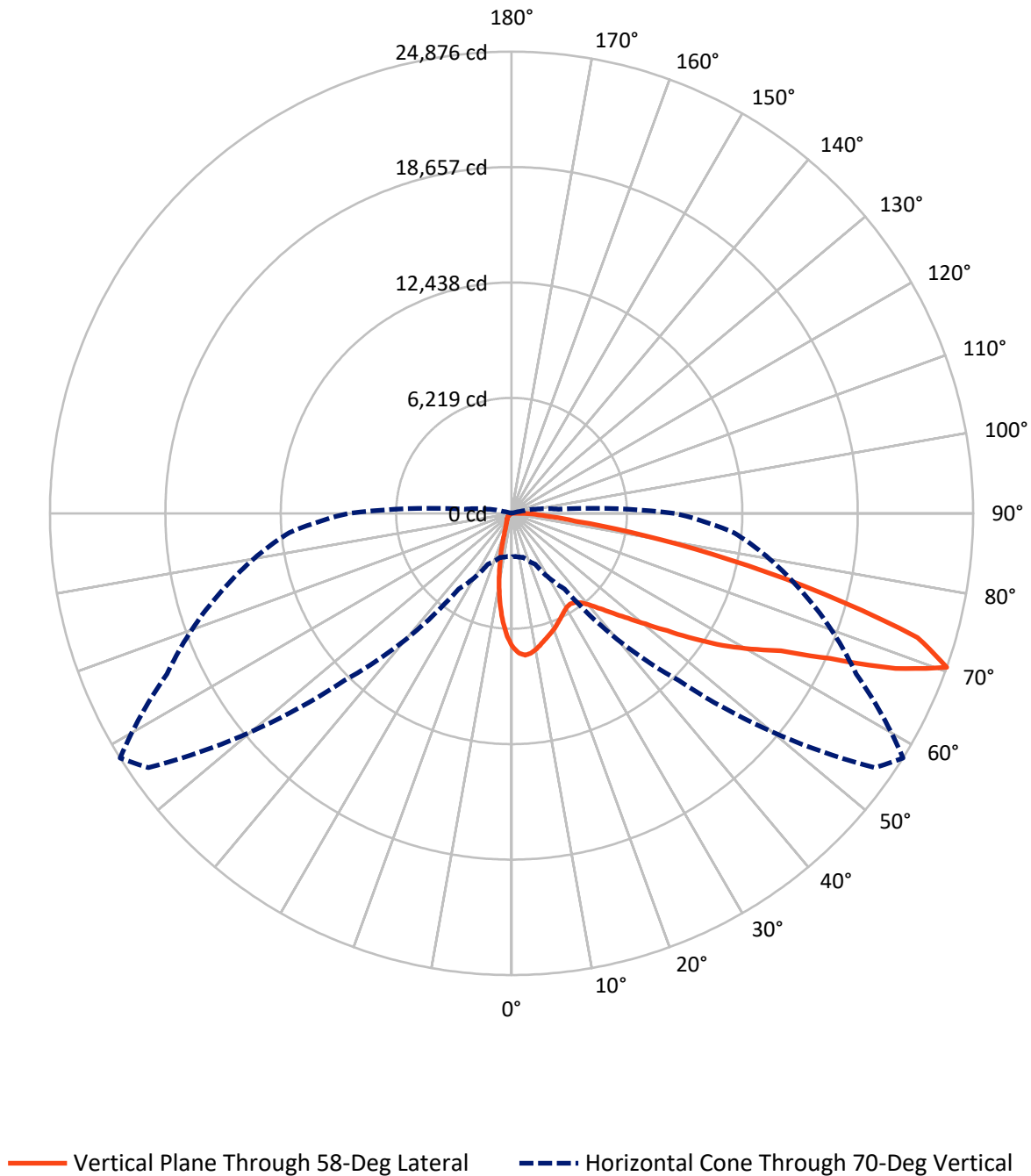
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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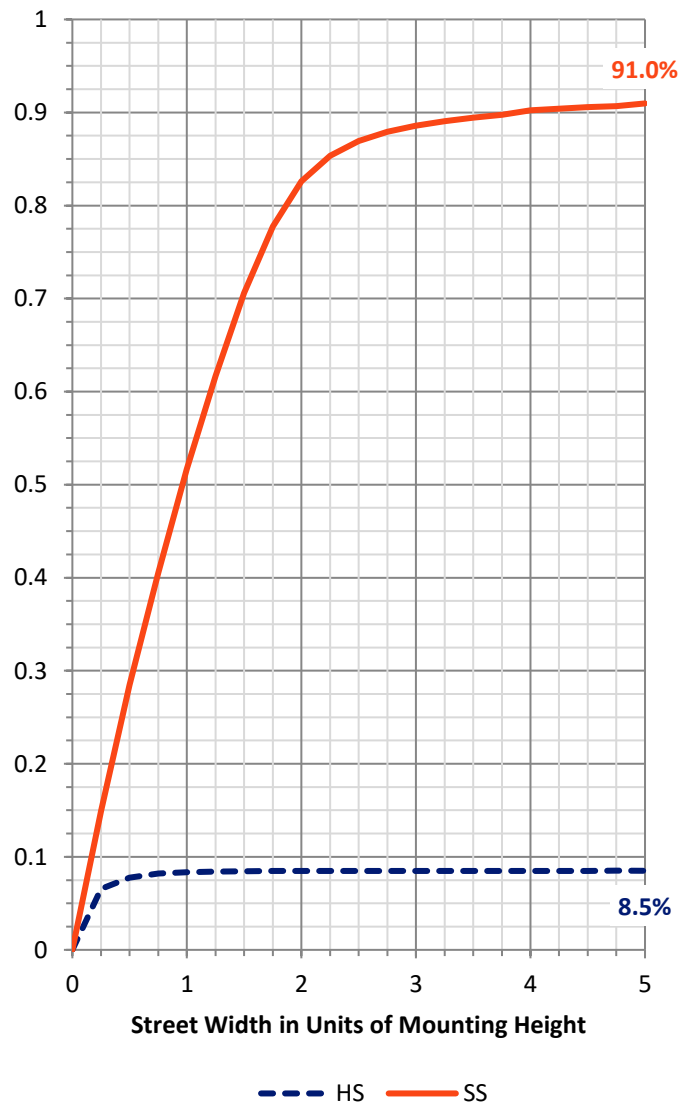
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2084.2	0.0	2084.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	22269.8	0.0	22269.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	24354.0	0.0	24354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	2.4
10°-20°	1234.7	5.1
20°-30°	1623.2	6.7
30°-40°	2149.7	8.8
40°-50°	3213.2	13.2
50°-60°	5147.4	21.1
60°-70°	6488.2	26.6
70°-80°	3499.7	14.4
80°-90°	409.7	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°	24354.0	100.0
0°-180°	24354.0	100.0

Coefficient of Utilization



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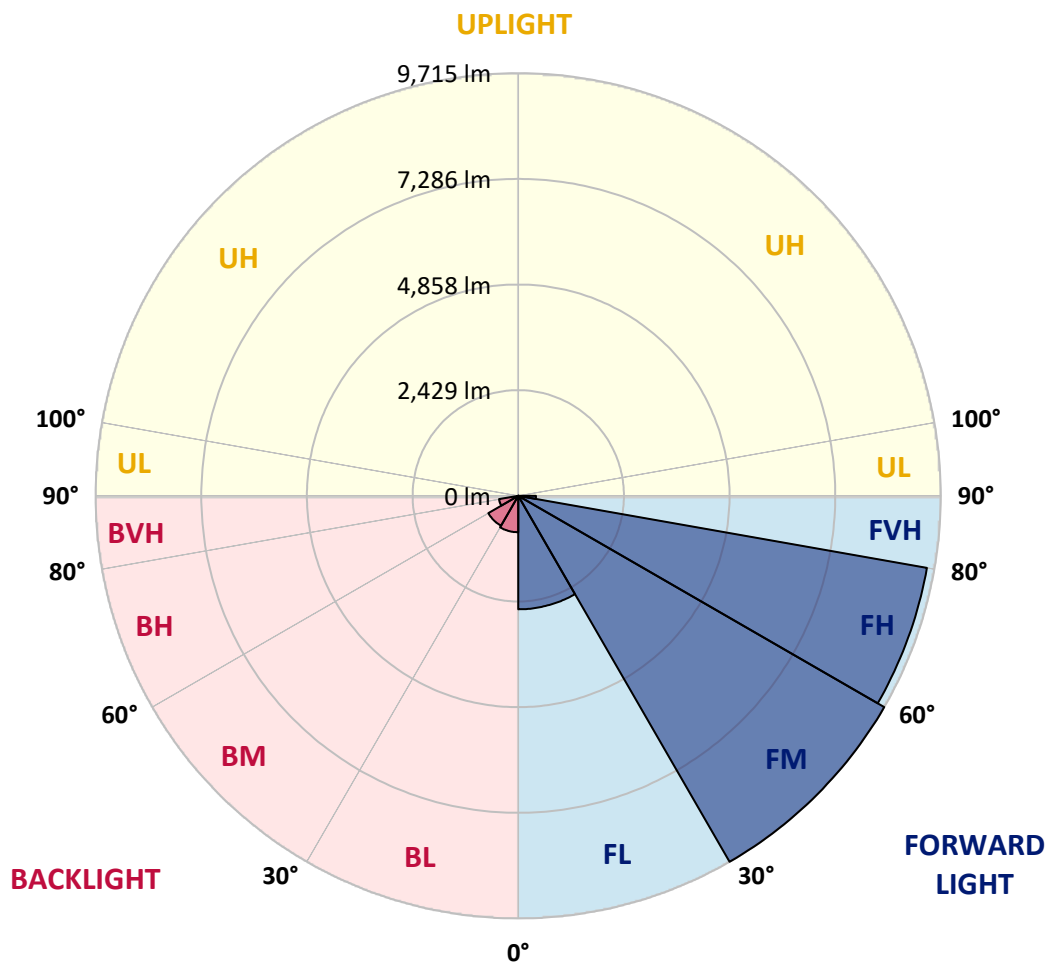
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2608.8	10.7			
FM	(30°-60°)	9715.2	39.9			
FH	(60°-80°)	9539.7	39.2			G4/12000
FVH	(80°-90°)	406.1	1.7			G3/500
BL	(0°-30°)	837.3	3.4	B2/1000		
BM	(30°-60°)	795.1	3.3	B1/1000		
BH	(60°-80°)	448.2	1.8	B1/500		G1/500
BVH	(80°-90°)	3.5	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°	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1
2.5°	7790.5	7771.3	7764.2	7752.0	7705.5	7659.9	7569.8	7544.4	7487.7	7353.0	7210.3
5°	7796.6	7795.6	7816.9	7811.8	7795.6	7774.3	7709.5	7676.1	7579.9	7387.5	7126.2
7.5°	7420.9	7440.1	7487.7	7526.2	7570.8	7628.5	7636.6	7604.2	7525.2	7317.6	6971.3
10°	6916.6	6947.0	7013.8	7089.8	7206.2	7321.7	7424.9	7420.9	7393.6	7189.0	6784.9
12.5°	6411.3	6446.7	6523.7	6636.1	6801.1	6989.5	7173.8	7199.1	7244.7	7073.5	6612.8
15°	5968.7	5999.1	6075.0	6212.8	6417.3	6670.5	6940.9	6987.5	7104.9	6983.4	6469.0
17.5°	5593.0	5612.3	5668.0	5820.9	6057.8	6364.7	6716.1	6807.2	6982.4	6912.5	6344.4
20°	5330.7	5333.8	5370.2	5477.6	5714.5	6057.8	6483.2	6613.8	6852.8	6851.8	6215.8
22.5°	5201.1	5191.0	5198.1	5259.8	5434.0	5765.2	6250.2	6405.2	6736.3	6800.1	6085.2
25°	5176.8	5168.7	5148.4	5156.6	5261.9	5509.0	6015.3	6194.5	6634.0	6768.7	5971.8
27.5°	5252.8	5260.9	5226.4	5190.0	5198.1	5342.9	5806.7	6014.3	6551.0	6768.7	5891.8
30°	5405.7	5409.7	5384.4	5336.8	5273.0	5296.3	5661.9	5869.5	6509.5	6815.3	5841.1
32.5°	5574.8	5597.1	5594.0	5555.5	5464.4	5370.2	5627.4	5816.8	6506.4	6918.6	5836.1
35°	5784.4	5809.7	5852.3	5844.2	5749.0	5594.0	5744.9	5893.8	6566.2	7088.7	5890.7
37.5°	6007.2	6045.7	6136.8	6180.4	6118.6	5943.4	6008.2	6114.5	6726.2	7364.2	6029.5
40°	6222.9	6266.4	6432.5	6603.7	6557.1	6376.8	6407.2	6492.3	7010.8	7760.1	6292.8
42.5°	6434.5	6499.4	6743.4	7024.9	7080.6	6936.8	6953.0	7020.9	7433.0	8305.0	6723.2
45°	6687.7	6760.6	7122.2	7469.5	7618.4	7555.6	7624.4	7669.0	7985.0	9025.0	7303.4
47.5°	7059.4	7143.4	7587.0	7982.9	8244.2	8284.7	8423.4	8452.8	8682.7	9863.5	8059.9
50°	7784.4	7807.7	8208.8	8568.3	8945.0	9188.0	9346.0	9368.3	9527.3	10779.9	9004.7
52.5°	8696.9	8712.1	8938.9	9179.9	9608.3	10104.5	10474.1	10505.5	10538.9	11673.1	9937.4
55°	9603.2	9601.2	9751.1	9892.8	10383.0	11104.0	11906.0	11925.3	11685.3	12520.7	10650.3
57.5°	10169.3	10224.0	10451.8	10634.1	11318.7	12243.3	13356.2	13427.1	12889.4	13148.6	11355.1
60°	9989.0	10015.4	10520.7	11195.1	12484.3	13862.5	14823.6	14841.8	13794.7	13775.4	12246.3
62.5°	8510.5	8524.7	9318.7	10709.1	13074.7	15962.8	16593.7	16297.0	14835.7	14645.3	13312.6
65°	5833.0	5925.2	6588.5	8307.0	11990.1	17280.3	19334.0	18842.9	16422.6	15899.0	14276.7
67.5°	3435.0	3415.8	3743.9	5009.7	8806.2	16405.4	22800.4	22312.3	18586.7	16738.5	13994.2
70°	2346.4	2333.2	2458.8	3033.0	4971.2	12726.3	23891.1	24876.4	20497.6	16173.5	12043.8
72.5°	1675.0	1682.1	1867.4	2356.5	3121.1	7414.8	20545.2	22877.4	19899.1	14099.5	9154.6
75°	1137.2	1156.5	1421.8	1933.2	2736.3	3772.2	14579.5	17390.7	16203.8	10247.3	5261.9
77.5°	611.7	632.9	945.8	1557.5	2474.0	2620.8	9378.4	11968.8	10178.4	4606.7	1525.1
80°	255.2	267.3	442.5	1132.2	2137.8	2301.8	5518.1	7257.9	4337.3	908.4	340.3
82.5°	110.4	116.5	184.3	675.5	1598.0	1943.3	2921.6	3491.7	1314.5	199.5	171.1
85°	21.3	22.3	76.0	357.5	1019.8	1096.7	1893.7	1856.2	590.4	86.1	124.6
87.5°	0.0	0.0	18.2	112.4	299.8	597.5	1155.5	1141.3	200.5	41.5	46.6
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°	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1	7194.1
2.5°	7137.3	7067.5	6920.6	6739.4	6600.6	6447.7	6326.2	6172.3	6105.4	6108.5	6072.0
5°	6977.3	6833.5	6508.5	6098.3	5782.4	5456.3	5175.8	4896.3	4731.2	4677.6	4626.9
7.5°	6748.5	6520.6	6002.1	5370.2	4835.5	4313.0	3858.3	3458.3	3205.1	3081.6	3036.0
10°	6490.2	6170.2	5419.8	4587.4	3823.9	3117.0	2527.6	2015.2	1810.7	1671.9	1636.5
12.5°	6263.4	5830.0	4850.7	3784.4	2878.0	2025.4	1463.3	1144.3	1005.6	950.9	941.8
15°	6049.7	5512.0	4302.9	3057.3	1992.9	1246.6	930.7	822.3	789.9	780.8	780.8
17.5°	5848.2	5209.2	3767.2	2341.3	1318.5	873.9	770.6	746.3	736.2	735.2	736.2
20°	5637.6	4906.4	3240.6	1715.5	920.5	740.3	711.9	698.7	695.7	695.7	695.7
22.5°	5436.0	4603.6	2728.2	1225.3	738.2	675.5	661.3	652.2	649.1	648.1	646.1
25°	5242.6	4316.0	2227.9	865.8	648.1	618.7	606.6	594.4	585.3	580.3	577.2
27.5°	5083.6	4059.8	1762.1	694.7	585.3	560.0	544.8	526.6	504.3	494.2	490.1
30°	4957.1	3825.9	1358.0	586.3	526.6	501.3	478.0	446.6	414.2	397.0	396.0
32.5°	4857.8	3596.0	1030.9	518.5	473.9	442.5	409.1	369.6	332.2	312.9	311.9
35°	4809.2	3393.5	787.9	468.9	427.3	387.9	346.3	302.8	266.3	248.1	246.1
37.5°	4841.6	3222.3	614.7	427.3	387.9	342.3	293.7	248.1	215.7	199.5	198.5
40°	4960.1	3113.0	499.2	391.9	354.4	298.7	246.1	203.5	176.2	163.0	162.0
42.5°	5212.2	3072.5	426.3	362.5	322.0	258.2	204.6	168.1	142.8	133.7	131.6
45°	5633.5	3132.2	376.7	334.2	288.6	219.8	169.1	137.7	115.4	108.4	107.3
47.5°	6194.5	3289.2	341.3	306.8	258.2	185.3	140.8	111.4	94.2	87.1	86.1
50°	6917.6	3538.3	311.9	279.5	229.9	157.0	116.5	88.1	72.9	67.8	67.8
52.5°	7704.4	3835.0	285.6	254.2	201.5	130.6	94.2	67.8	57.7	51.6	51.6
55°	8354.6	4094.3	257.2	234.9	167.1	108.4	71.9	51.6	42.5	39.5	39.5
57.5°	9003.7	4370.7	224.8	201.5	133.7	88.1	54.7	38.5	31.4	29.4	29.4
60°	9845.2	4708.9	193.4	164.1	105.3	66.8	40.5	27.3	23.3	22.3	22.3
62.5°	10770.8	4907.4	165.1	131.6	82.0	49.6	29.4	18.2	17.2	17.2	16.2
65°	11336.9	4626.9	138.7	105.3	63.8	37.5	19.2	13.2	15.2	14.2	12.2
67.5°	10614.9	3622.3	113.4	82.0	49.6	28.4	12.2	9.1	16.2	13.2	10.1
70°	8789.0	2535.7	88.1	57.7	39.5	24.3	8.1	6.1	17.2	13.2	8.1
72.5°	6577.3	1697.2	69.9	38.5	29.4	21.3	7.1	3.0	15.2	11.1	7.1
75°	3594.0	683.6	55.7	24.3	18.2	15.2	5.1	2.0	10.1	8.1	5.1
77.5°	945.8	180.3	40.5	16.2	10.1	6.1	3.0	1.0	5.1	4.1	2.0
80°	241.0	69.9	26.3	11.1	7.1	3.0	0.0	0.0	1.0	0.0	0.0
82.5°	128.6	29.4	16.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	97.2	19.2	9.1	5.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.5	6.1	3.0	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)