

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: P321743

Luminaire Tested: **GAN-SA9D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39218 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

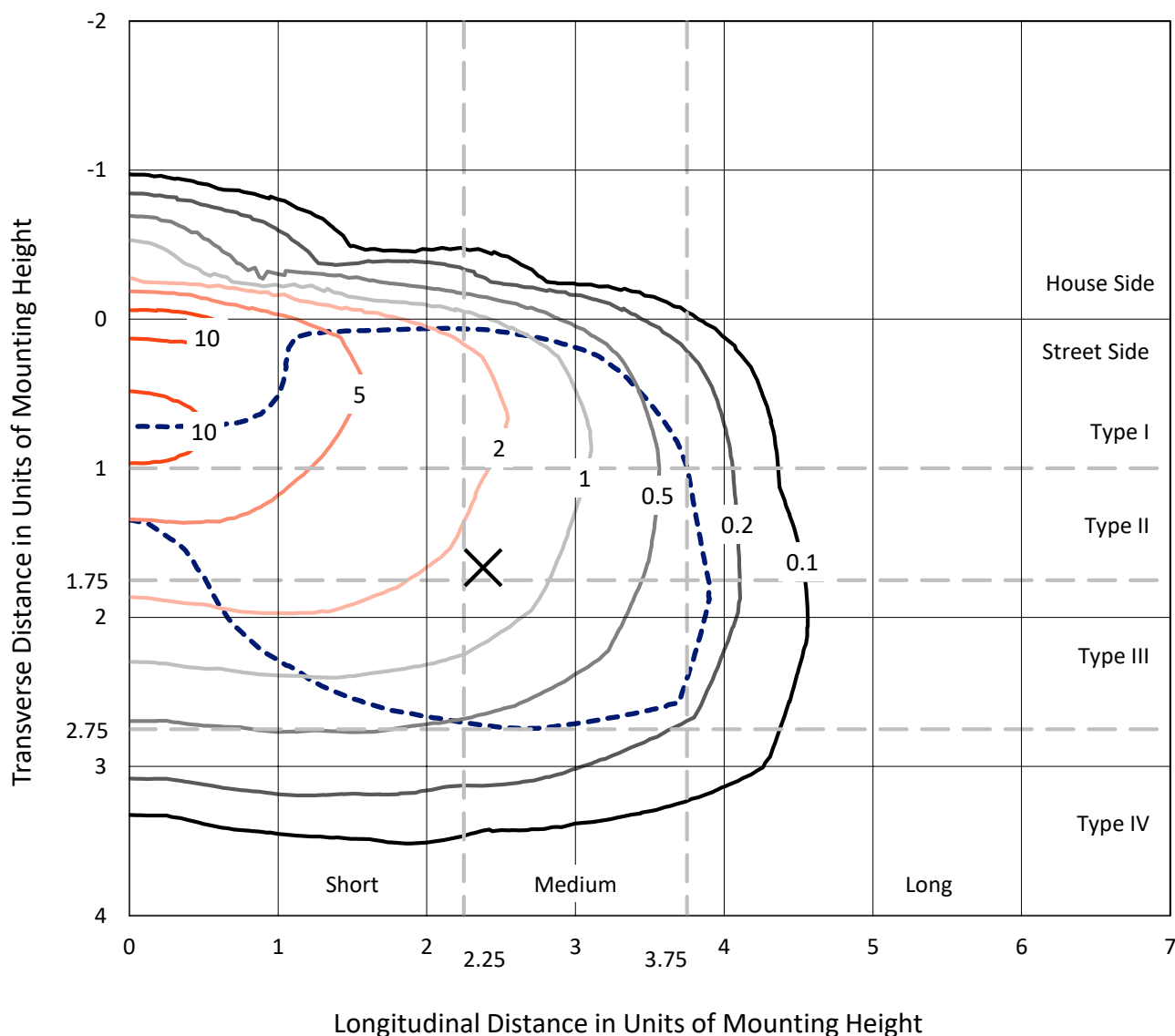
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

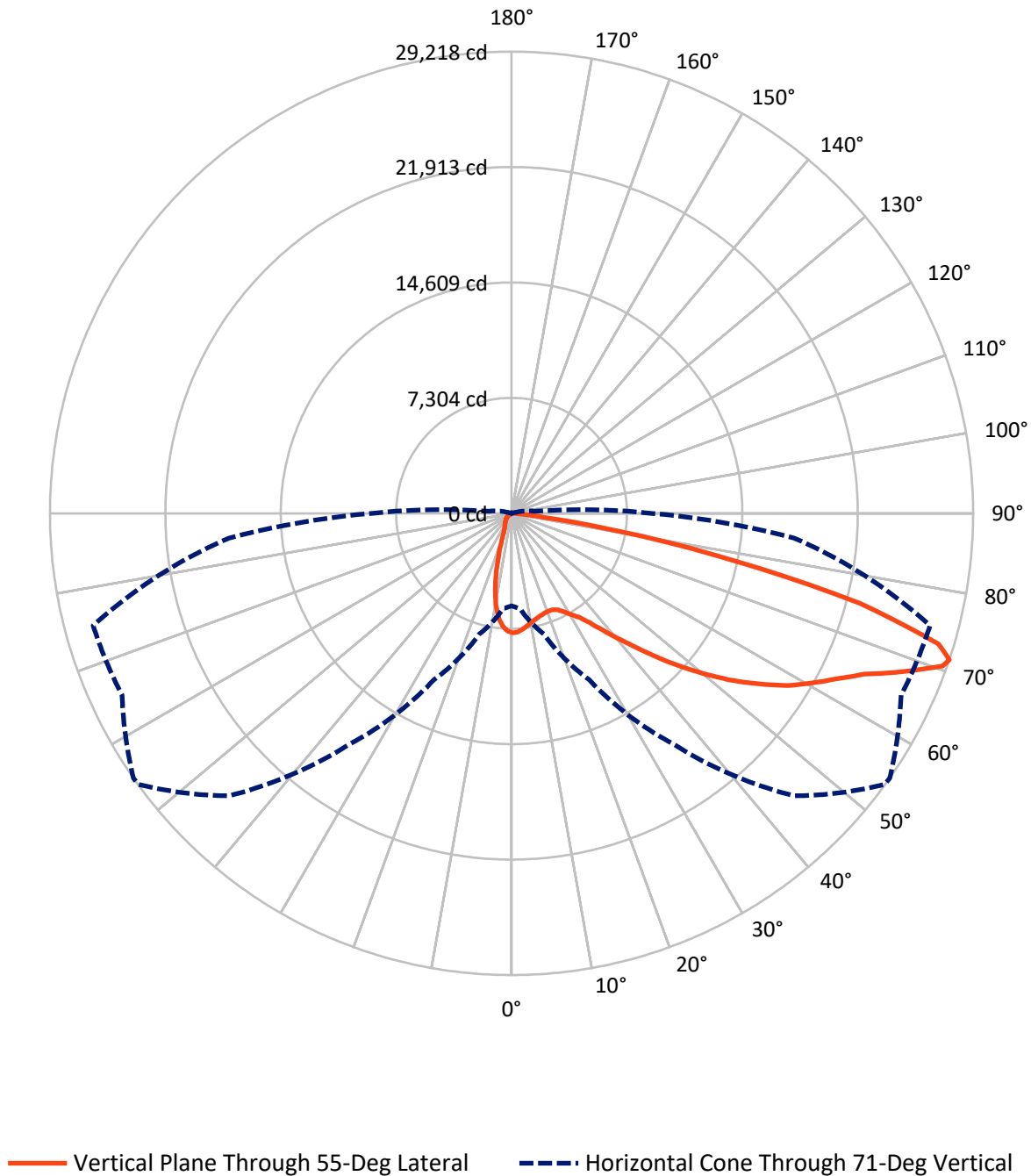
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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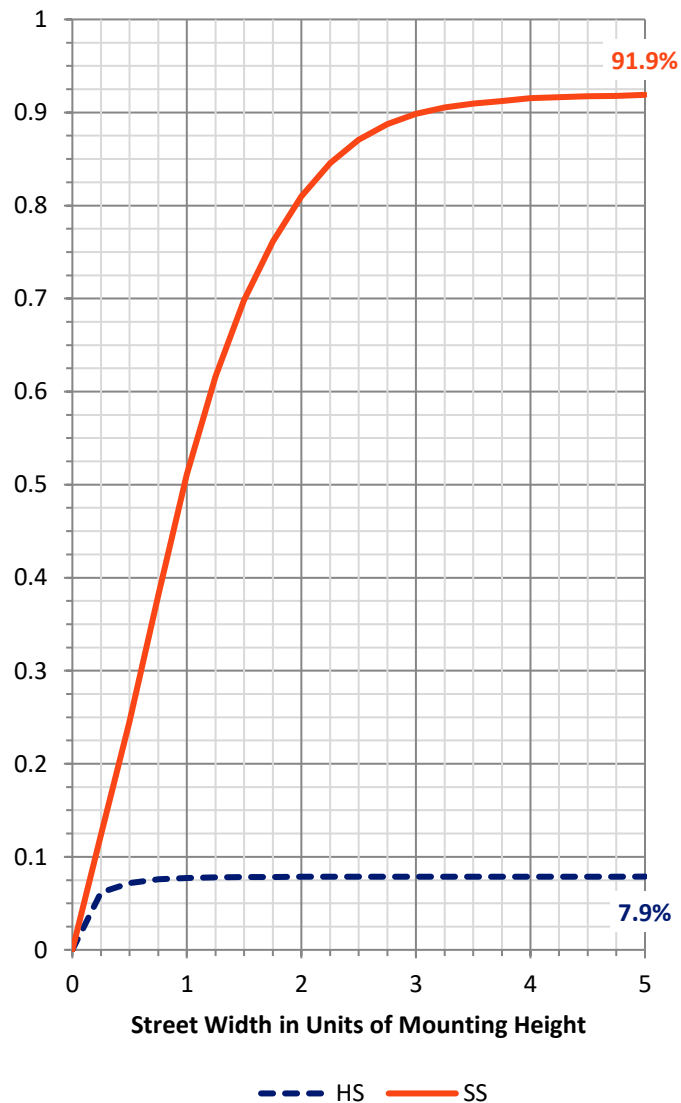
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3105.0	0.0	3105.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	36113.0	0.0	36113.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	39218.0	0.0	39218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.9	1.6
10°-20°	1455.9	3.7
20°-30°	2339.6	6.0
30°-40°	3975.1	10.1
40°-50°	6169.9	15.7
50°-60°	8295.2	21.2
60°-70°	10147.8	25.9
70°-80°	5933.2	15.1
80°-90°	256.5	0.7
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°	39218.0	100.0
0°-180°	39218.0	100.0

Coefficient of Utilization



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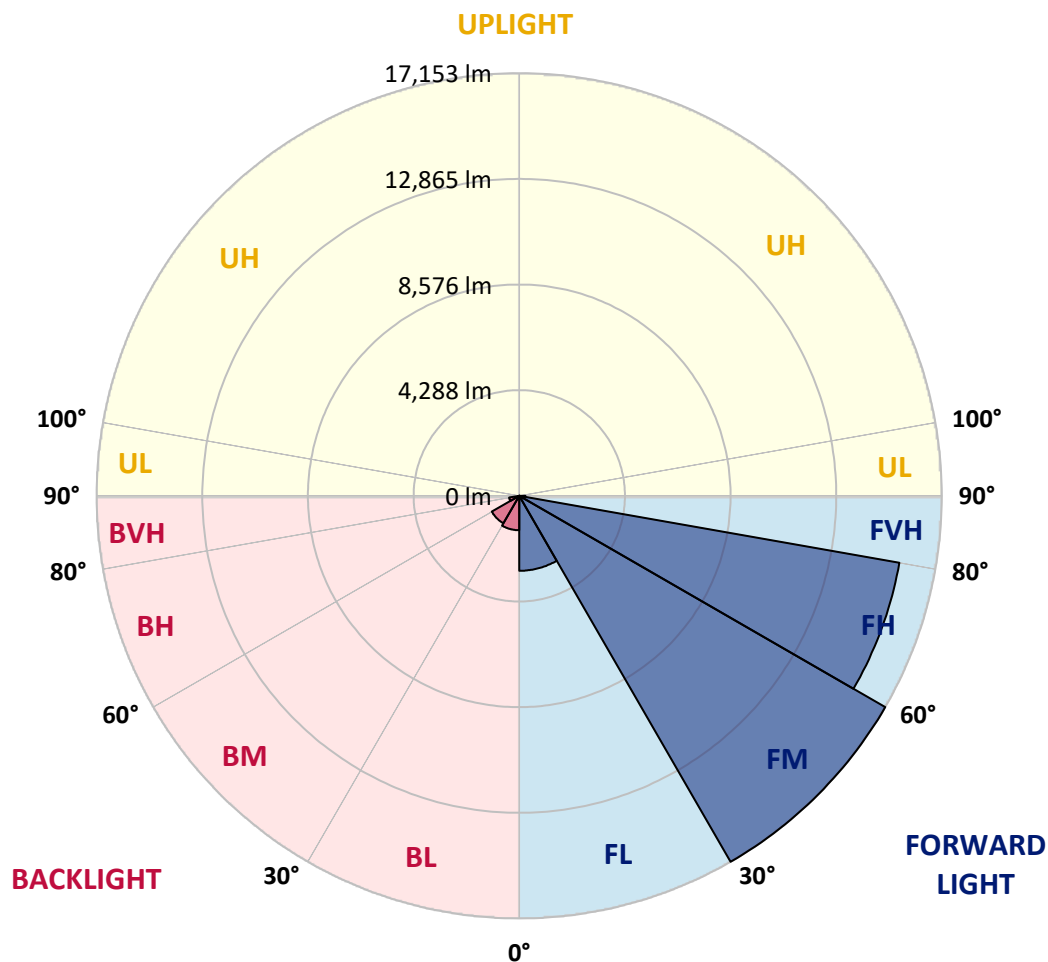
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3042.8	7.8			
FM	(30°-60°)	17152.8	43.7			
FH	(60°-80°)	15665.0	39.9			G5
FVH	(80°-90°)	252.4	0.6			G3/500
BL	(0°-30°)	1397.6	3.6	B3/2500		
BM	(30°-60°)	1287.4	3.3	B2/2500		
BH	(60°-80°)	416.0	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	54°	55°	65°	75°	85°
0°	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3
2.5°	7341.5	7350.3	7382.0	7396.0	7429.5	7485.8	7514.0	7515.8	7561.6	7579.2	7593.3
5°	6822.0	6874.8	6927.6	6984.0	7086.1	7221.7	7355.5	7367.9	7515.8	7625.0	7683.1
7.5°	6374.7	6422.2	6485.6	6575.4	6719.8	6932.9	7156.5	7183.0	7463.0	7711.3	7841.6
10°	5915.1	5953.8	6045.4	6177.5	6376.4	6661.7	6962.8	7006.9	7415.4	7827.5	8056.4
12.5°	5423.8	5446.7	5557.6	5747.8	6040.1	6402.9	6799.1	6857.2	7385.5	7961.3	8310.0
15°	5050.4	5061.0	5166.7	5363.9	5698.5	6170.4	6672.3	6742.7	7392.5	8121.6	8586.5
17.5°	4955.3	4960.6	5017.0	5152.6	5448.4	5962.6	6571.9	6658.2	7413.7	8278.3	8864.7
20°	5341.0	5304.0	5245.9	5224.8	5351.6	5837.6	6512.0	6608.9	7441.8	8417.4	9114.7
22.5°	6399.3	6290.2	6048.9	5726.6	5531.2	5846.4	6527.9	6624.7	7531.6	8588.2	9403.5
25°	7970.1	7818.7	7408.4	6774.4	6165.1	6100.0	6660.0	6758.6	7706.0	8792.5	9680.0
27.5°	9757.5	9607.8	9105.9	8200.8	7161.8	6601.8	6962.8	7054.4	7964.8	8973.9	9891.3
30°	11469.1	11426.9	10835.2	9806.8	8415.6	7415.4	7353.8	7431.3	8156.8	9083.0	10058.6
32.5°	12920.2	12853.3	12377.8	11377.6	9850.8	8392.7	7813.4	7836.3	8301.2	9223.9	10277.0
35°	14265.6	14182.8	13765.4	12819.8	11323.0	9586.7	8521.3	8487.8	8616.4	9507.4	10593.9
37.5°	15440.1	15515.8	15052.7	14152.9	12643.7	10828.2	9475.7	9375.4	9109.5	9968.8	11053.6
40°	16422.7	16422.7	16181.5	15431.3	14070.1	12111.9	10555.2	10423.1	9850.8	10680.2	11636.4
42.5°	16776.7	16852.4	16942.2	16517.8	15346.8	13446.7	11757.9	11620.6	10895.1	11689.3	12372.5
45°	16797.8	16917.6	17377.2	17375.4	16500.2	14772.7	13113.9	13048.7	12233.4	12985.3	13284.7
47.5°	16500.2	16649.9	17407.1	17836.8	17414.2	16007.1	14596.6	14515.6	13805.9	14573.7	14239.1
50°	16040.6	16206.1	17086.6	18018.2	18035.8	17081.3	16158.6	16037.1	15537.0	16389.3	15225.3
52.5°	15218.2	15538.7	16799.6	18060.4	18444.3	18009.4	17644.8	17592.0	17474.0	18137.9	16010.7
55°	13459.0	13814.7	16079.3	18074.5	18822.9	18831.7	19037.8	19051.8	19289.6	19772.1	16595.3
57.5°	12627.9	12828.6	14822.0	18141.4	19384.7	19765.0	20457.1	20566.3	20934.3	21323.5	17262.7
60°	12104.9	12342.6	14202.2	18049.9	20266.9	20988.9	21772.5	21809.5	22204.0	22924.2	18166.1
62.5°	11687.5	11921.7	13811.2	17697.7	21258.3	22461.1	23058.0	23061.6	23357.4	24831.3	19192.7
65°	10657.3	10854.6	13020.6	17301.5	21913.4	23917.4	24551.3	24528.4	24769.7	26842.3	20384.9
67.5°	9167.6	9319.0	11405.8	15799.4	21666.9	25241.6	26805.4	26729.6	26437.3	28580.4	20853.3
70°	7087.9	7142.5	8989.7	13166.7	19356.5	25750.5	28983.7	28944.9	27460.4	28268.7	19136.4
71°	5858.7	6038.3	7922.6	11620.6	17808.6	25280.4	29195.0	29217.9	27203.3	27419.9	17954.8
72.5°	3402.2	3555.4	5742.5	8924.6	15119.6	23318.7	28099.7	28265.2	26002.4	24940.5	15336.2
75°	729.0	780.1	2129.0	4319.6	8317.0	16343.5	22179.3	22769.2	21193.2	16966.9	9243.3
77.5°	507.2	547.7	912.2	1960.0	2748.9	8075.8	13777.8	14443.4	12661.3	6376.4	2958.4
80°	401.5	447.3	711.4	968.5	743.1	2604.5	6453.9	6860.7	4222.8	1422.9	498.4
82.5°	223.6	265.9	554.7	523.0	285.3	494.8	1806.7	2042.7	845.3	287.0	118.0
85°	65.2	79.2	357.5	380.4	121.5	95.1	308.2	382.1	160.2	75.7	52.8
87.5°	0.0	0.0	172.6	146.2	35.2	14.1	28.2	31.7	31.7	31.7	35.2
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°	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3	7563.3
2.5°	7593.3	7605.6	7561.6	7503.5	7441.8	7366.1	7286.9	7225.2	7223.5	7193.5	7163.6
5°	7686.6	7679.6	7558.0	7373.1	7154.8	6927.6	6711.0	6466.3	6385.2	6284.9	6251.4
7.5°	7859.2	7809.9	7552.8	7147.7	6668.8	6193.3	5702.0	5207.2	4995.8	4805.7	4772.2
10°	8075.8	7982.4	7519.3	6809.6	5930.9	5054.0	4312.6	3639.9	3344.1	3116.9	3106.3
12.5°	8301.2	8158.5	7426.0	6299.0	4964.2	3731.5	2877.4	2215.3	1968.8	1810.3	1824.4
15°	8537.1	8324.1	7225.2	5610.4	3863.6	2532.3	1768.0	1378.8	1280.2	1239.7	1250.3
17.5°	8778.4	8438.5	6945.2	4781.0	2777.0	1634.2	1223.9	1114.7	1114.7	1123.5	1127.0
20°	8988.0	8500.2	6533.2	3851.2	1882.5	1190.4	1070.7	1054.8	1063.6	1077.7	1079.5
22.5°	9195.7	8503.7	5996.1	2909.1	1317.2	1042.5	1019.6	1012.6	1017.8	1033.7	1035.4
25°	9364.8	8461.4	5323.4	2069.1	1051.3	982.6	972.1	968.5	972.1	991.4	991.4
27.5°	9433.5	8308.2	4502.8	1454.6	942.1	915.7	912.2	915.7	921.0	935.1	936.8
30°	9440.5	8040.6	3608.2	1053.1	854.1	825.9	832.9	845.3	840.0	836.5	840.0
32.5°	9458.1	7730.6	2736.5	866.4	780.1	736.1	727.3	727.3	706.1	693.8	686.8
35°	9516.2	7366.1	1984.6	778.3	704.4	653.3	619.9	581.1	540.6	519.5	514.2
37.5°	9607.8	6984.0	1421.1	720.2	637.5	579.4	516.0	447.3	389.2	373.3	373.3
40°	9775.1	6589.5	1051.3	674.4	584.6	512.4	417.3	327.5	274.7	265.9	265.9
42.5°	10039.2	6173.9	838.2	633.9	538.9	443.8	318.7	237.7	199.0	193.7	191.9
45°	10314.0	5716.1	732.6	595.2	489.5	364.5	236.0	176.1	153.2	147.9	147.9
47.5°	10588.7	5228.3	681.5	558.2	442.0	283.5	176.1	139.1	128.6	128.6	130.3
50°	10821.1	4719.4	644.5	517.7	380.4	214.8	139.1	118.0	114.5	121.5	123.3
52.5°	10879.2	4219.3	598.7	466.7	304.6	163.8	114.5	103.9	103.9	103.9	103.9
55°	10844.0	3831.9	538.9	403.3	225.4	130.3	98.6	91.6	89.8	89.8	89.8
57.5°	10963.7	3602.9	431.4	313.5	162.0	105.7	86.3	81.0	77.5	75.7	75.7
60°	11205.0	3453.2	308.2	225.4	121.5	88.0	74.0	68.7	63.4	59.9	59.9
62.5°	11525.5	3322.9	228.9	167.3	93.3	70.4	61.6	56.4	49.3	45.8	45.8
65°	11772.0	3090.5	174.3	125.0	70.4	56.4	47.5	45.8	35.2	31.7	29.9
67.5°	11395.2	2579.8	140.9	91.6	52.8	44.0	37.0	35.2	21.1	17.6	17.6
70°	9773.3	1796.2	112.7	66.9	38.7	35.2	29.9	22.9	15.8	14.1	14.1
71°	8862.9	1500.3	102.1	56.4	33.5	33.5	28.2	19.4	14.1	12.3	12.3
72.5°	7362.6	1065.4	86.3	44.0	29.9	35.2	29.9	17.6	14.1	12.3	10.6
75°	4273.9	445.5	59.9	29.9	22.9	42.3	38.7	15.8	10.6	8.8	8.8
77.5°	1285.5	163.8	33.5	19.4	17.6	37.0	44.0	14.1	5.3	1.8	1.8
80°	234.2	70.4	21.1	12.3	12.3	22.9	33.5	7.0	0.0	0.0	0.0
82.5°	82.8	35.2	12.3	7.0	5.3	10.6	15.8	0.0	0.0	0.0	0.0
85°	47.5	24.7	7.0	3.5	0.0	1.8	3.5	0.0	0.0	0.0	0.0
87.5°	31.7	7.0	0.0	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)