

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: P319483

Luminaire Tested: **GAN-SA9B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36791 lumens
Efficiency: N/A
Efficacy: 98.4 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): 374
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

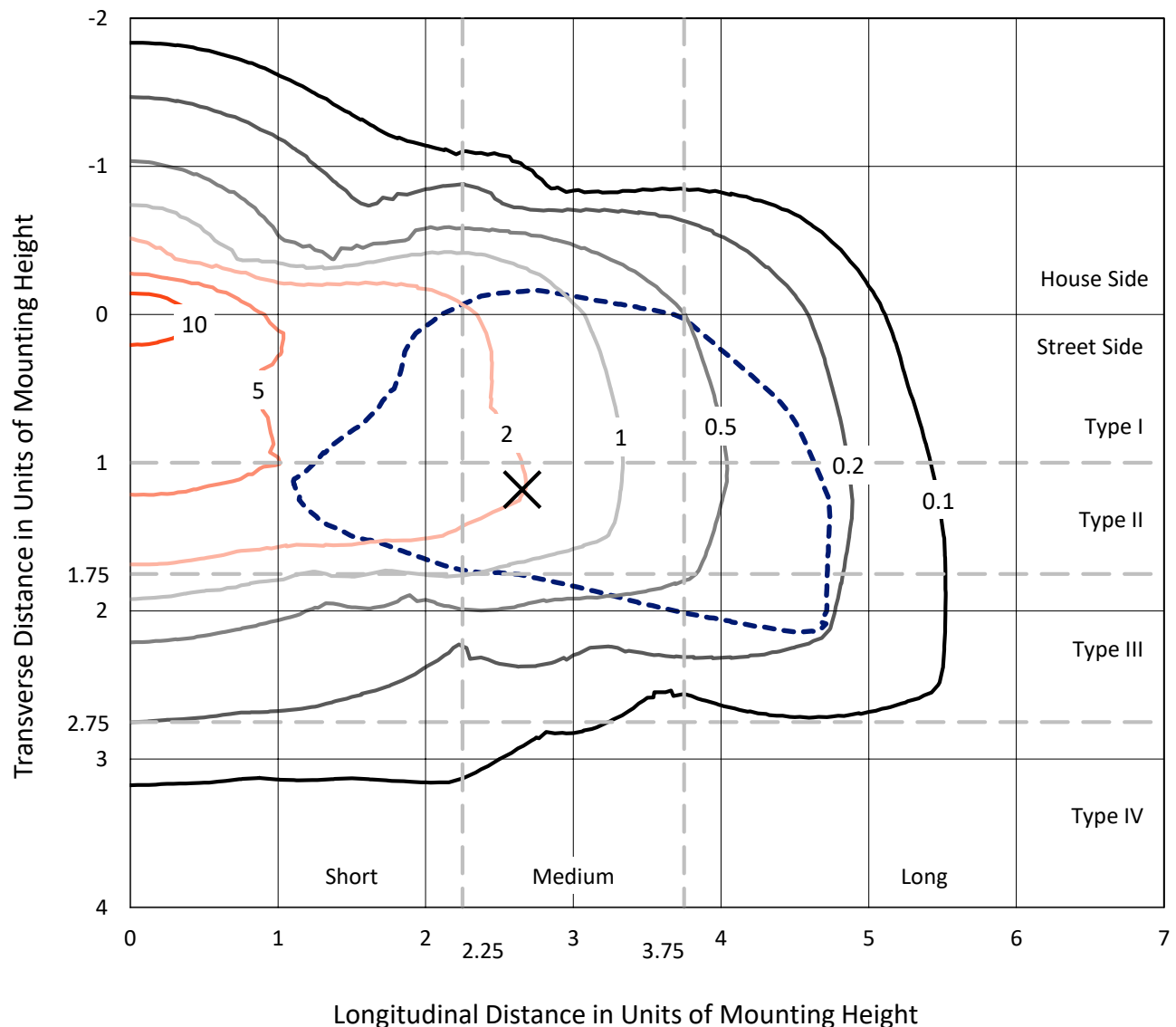


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Iso-Footcandle Lines of Horizontal Illumination

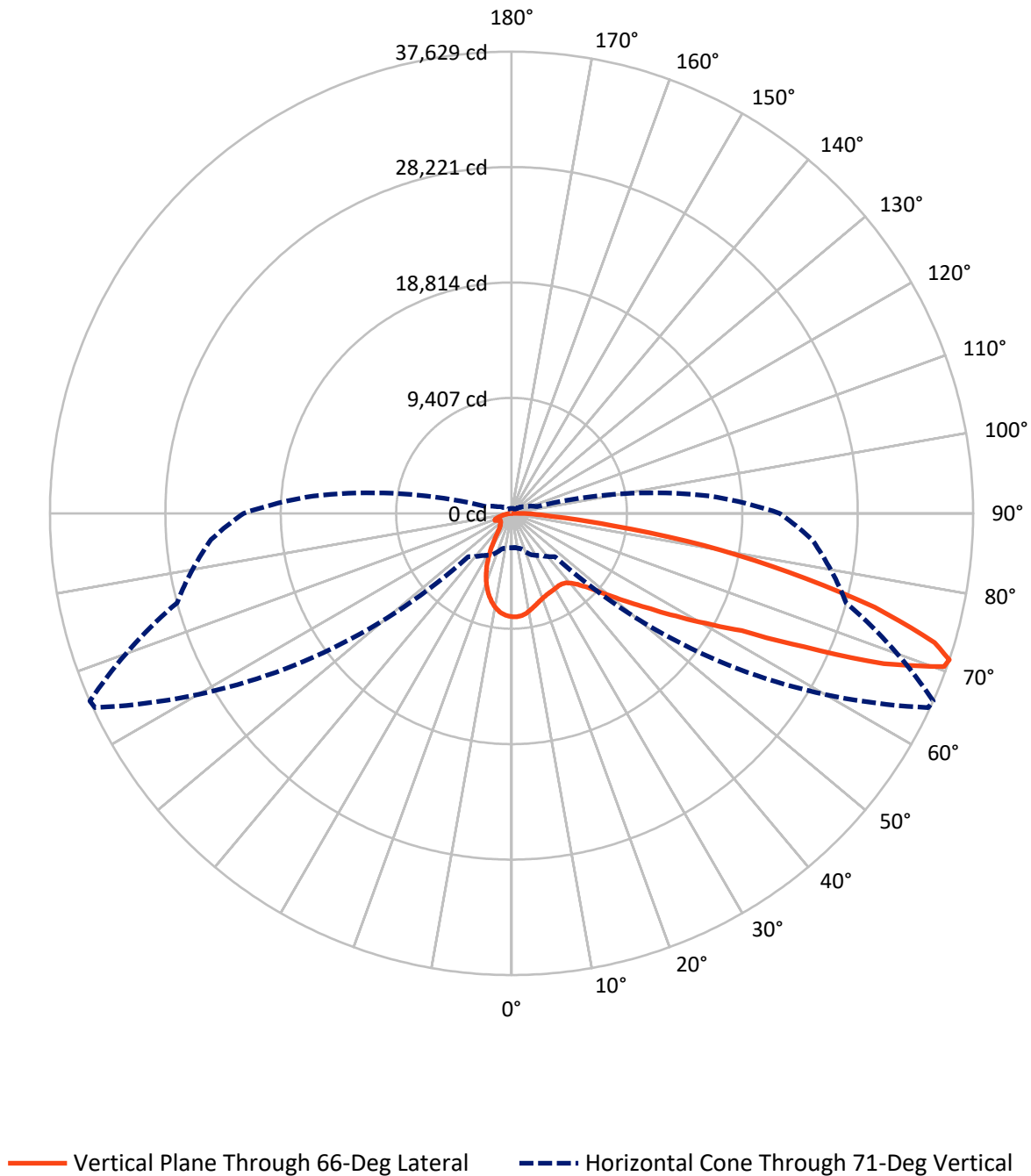
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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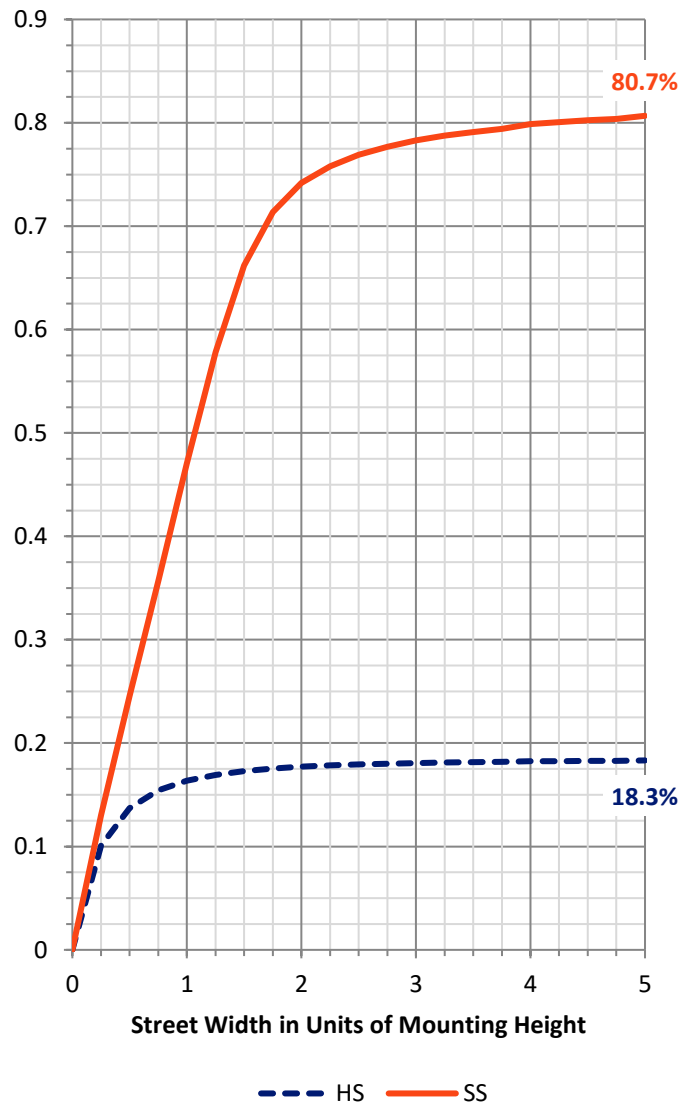
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6818.4	0.0	6818.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	29972.6	0.0	29972.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	36791.0	0.0	36791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.9	2.0
10°-20°	1779.3	4.8
20°-30°	2390.1	6.5
30°-40°	3144.1	8.5
40°-50°	4573.9	12.4
50°-60°	7144.9	19.4
60°-70°	8950.1	24.3
70°-80°	6827.0	18.6
80°-90°	1239.7	3.4
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°	36791.0	100.0
0°-180°	36791.0	100.0

Coefficient of Utilization



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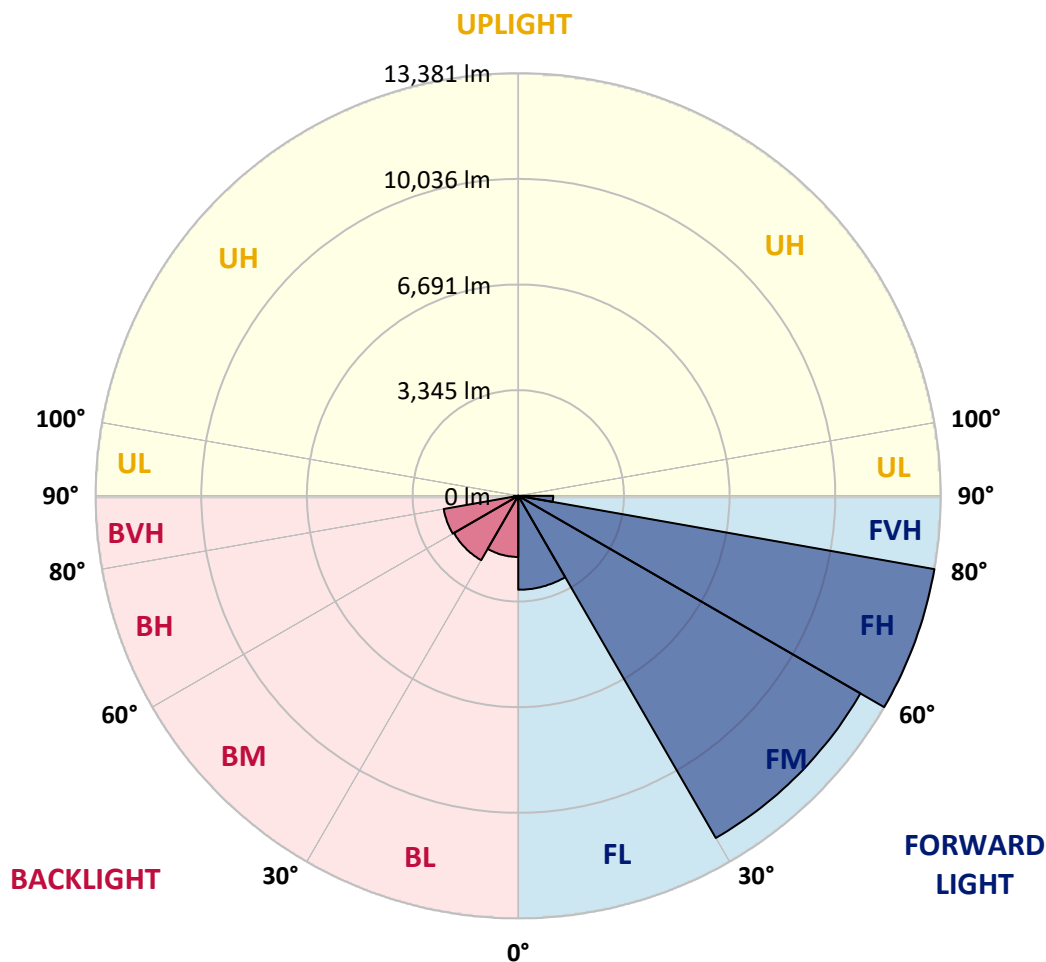
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2975.1	8.1			
FM	(30°-60°)	12510.8	34.0			
FH	(60°-80°)	13381.3	36.4			G5
FVH	(80°-90°)	1105.5	3.0			G5
BL	(0°-30°)	1936.2	5.3	B3/2500		
BM	(30°-60°)	2352.1	6.4	B2/2500		
BH	(60°-80°)	2395.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	134.2	0.4			G2/225
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°	65°	66°	75°	85°
0°	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1
2.5°	8271.9	8259.2	8297.3	8336.6	8351.9	8377.3	8415.4	8437.0	8435.7	8439.5	8426.8
5°	7723.1	7706.6	7782.8	7845.1	7964.5	8099.1	8263.0	8379.8	8382.4	8448.4	8466.2
7.5°	7203.6	7192.2	7279.8	7380.1	7518.6	7724.4	7989.9	8241.4	8256.6	8435.7	8498.0
10°	6786.9	6784.4	6869.5	6978.8	7140.1	7370.0	7674.8	8043.2	8066.1	8374.8	8503.1
12.5°	6461.8	6466.8	6540.5	6665.0	6835.2	7075.3	7405.6	7820.9	7857.8	8278.2	8473.8
15°	6221.7	6242.0	6301.7	6427.5	6595.1	6839.0	7178.2	7615.1	7671.0	8170.2	8457.3
17.5°	6084.5	6107.4	6149.3	6253.4	6410.9	6645.9	6967.3	7446.2	7497.0	8087.7	8458.6
20°	6043.8	6062.9	6087.0	6150.5	6283.9	6497.3	6800.9	7293.8	7348.4	8021.6	8471.3
22.5°	6123.9	6137.8	6140.4	6135.3	6216.6	6390.6	6680.2	7182.0	7240.4	7978.4	8480.2
25°	6295.4	6314.4	6300.4	6253.4	6226.8	6333.5	6618.0	7108.3	7166.7	7946.7	8462.4
27.5°	6553.2	6555.8	6544.3	6483.4	6357.6	6339.8	6598.9	7065.1	7121.0	7909.8	8425.6
30°	6903.8	6920.3	6900.0	6817.4	6611.6	6441.4	6621.8	7023.2	7074.0	7862.8	8365.9
32.5°	7314.1	7354.7	7353.5	7267.1	6972.4	6668.8	6715.8	6997.8	7037.2	7813.3	8293.5
35°	7739.6	7795.5	7899.7	7862.8	7498.3	7028.3	6896.2	7038.5	7065.1	7807.0	8242.6
37.5°	8181.7	8237.6	8452.2	8551.3	8124.5	7542.7	7180.7	7182.0	7194.7	7884.4	8238.8
40°	8644.0	8703.7	9026.4	9284.3	8936.2	8194.4	7639.3	7481.8	7467.8	8075.0	8313.8
42.5°	9291.9	9345.2	9732.7	10061.6	9836.8	9028.9	8273.1	7944.1	7914.9	8448.4	8553.9
45°	10111.2	10156.9	10568.5	10920.3	10804.7	9981.6	9069.6	8580.5	8575.5	9070.9	9040.4
47.5°	11085.5	11121.0	11490.7	11831.1	11873.0	11077.8	10070.5	9562.4	9479.9	9924.5	9793.6
50°	12100.4	12139.8	12391.3	12757.1	13068.3	12545.0	11358.6	10765.4	10654.9	11051.2	10860.6
52.5°	12772.4	12824.4	13042.9	13506.6	14412.3	14153.1	12881.6	12223.6	12055.9	12416.7	12270.6
55°	12472.6	12589.4	12923.5	13666.6	15486.9	16609.8	14760.3	13924.5	13735.2	14035.0	13948.6
57.5°	11109.6	11269.7	11725.7	12872.7	15638.0	18774.3	17600.6	15927.7	15794.3	15707.9	15747.3
60°	8618.6	8772.3	9337.6	10832.7	14585.0	20354.5	21875.0	18397.0	18203.9	17387.2	17422.7
62.5°	6099.7	6022.3	6409.7	7503.4	11851.4	20539.9	26738.8	21699.7	21064.5	19160.4	19004.2
65°	4651.7	4633.9	4807.9	5155.9	7178.2	18320.8	29636.2	27250.7	26258.6	21246.2	20877.8
67.5°	3822.2	3790.4	3961.9	4468.7	4622.4	11819.7	29699.7	33690.8	32716.5	23842.6	23044.9
70°	3142.6	3107.0	3267.1	3921.3	4271.8	5994.3	24996.0	37462.2	37410.1	27130.0	24680.9
71°	2817.4	2792.0	2983.8	3710.4	4196.9	4995.9	21581.5	37472.4	37628.6	28242.7	24584.4
72.5°	2294.1	2303.0	2506.2	3302.6	4141.0	4411.6	15861.6	35725.8	36056.0	29303.4	23706.7
75°	1524.3	1531.9	1798.7	2540.5	4015.3	4316.3	8717.7	29977.9	30585.1	28668.3	21632.4
77.5°	1023.8	1021.3	1202.9	1742.8	3498.3	4316.3	5111.5	22421.2	23088.1	22811.1	16677.1
80°	705.0	699.9	828.2	1202.9	2648.5	4368.4	3951.7	15713.0	15915.0	12318.9	6778.1
82.5°	431.9	435.7	541.1	849.8	1802.5	3931.4	3730.7	8567.8	8348.1	3455.1	1693.2
85°	247.7	246.4	345.5	575.4	1157.2	3317.9	3638.0	3687.5	3382.7	1040.3	612.3
87.5°	88.9	95.3	185.5	318.8	663.1	2310.6	3086.7	1918.1	1728.8	470.0	276.9
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°	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1	8428.1
2.5°	8417.9	8425.6	8416.7	8365.9	8322.7	8252.8	8213.4	8158.8	8142.3	8134.7	8155.0
5°	8449.7	8452.2	8377.3	8243.9	8094.0	7917.5	7790.4	7634.2	7560.5	7528.8	7549.1
7.5°	8478.9	8467.5	8303.6	8048.3	7771.4	7464.0	7190.9	6940.6	6794.6	6734.9	6739.9
10°	8482.7	8434.5	8171.5	7776.5	7347.1	6896.2	6477.0	6090.8	5847.0	5688.2	5736.4
12.5°	8443.3	8362.1	7977.2	7424.6	6828.9	6214.1	5647.5	5068.3	4720.2	4558.9	4564.0
15°	8412.9	8265.5	7738.4	7010.5	6210.3	5396.0	4622.4	3941.6	3570.7	3405.5	3328.1
17.5°	8387.5	8161.4	7461.4	6544.3	5479.9	4447.1	3517.3	2910.1	2706.9	2658.6	2638.3
20°	8351.9	8050.8	7152.8	6004.5	4647.8	3385.2	2568.4	2268.7	2269.9	2325.8	2333.4
22.5°	8302.4	7925.1	6823.8	5398.6	3754.9	2465.6	2013.3	1927.0	2014.6	2121.3	2140.4
25°	8228.7	7776.5	6457.9	4729.1	2863.1	1895.2	1719.9	1716.1	1822.8	1934.6	1951.1
27.5°	8124.5	7582.1	6051.5	4010.2	2109.9	1610.7	1540.8	1567.5	1646.2	1727.5	1733.9
30°	7984.8	7356.0	5603.1	3251.8	1653.9	1434.1	1426.5	1450.6	1498.9	1556.1	1561.1
32.5°	7831.1	7126.1	5124.2	2517.6	1416.3	1338.8	1346.5	1357.9	1380.8	1403.6	1408.7
35°	7691.4	6891.1	4633.9	1913.0	1303.3	1276.6	1271.5	1269.0	1271.5	1263.9	1265.2
37.5°	7601.2	6696.8	4123.2	1523.0	1238.5	1222.0	1206.7	1187.7	1166.1	1153.4	1155.9
40°	7568.1	6551.9	3606.2	1316.0	1185.1	1173.7	1144.5	1103.8	1078.4	1070.8	1070.8
42.5°	7657.1	6477.0	3107.0	1211.8	1140.7	1121.6	1073.4	1026.4	1007.3	1006.0	1004.8
45°	7928.9	6507.5	2632.0	1154.7	1100.0	1063.2	999.7	960.3	947.6	950.1	948.9
47.5°	8416.7	6699.3	2225.5	1116.5	1059.4	1011.1	940.0	908.2	893.0	893.0	894.3
50°	9246.1	7147.7	1901.6	1084.8	1025.1	962.8	896.8	857.4	837.1	835.8	835.8
52.5°	10454.2	7950.5	1699.6	1058.1	987.0	919.7	853.6	804.1	779.9	774.9	772.3
55°	11968.3	9101.3	1643.7	1040.3	936.2	872.7	801.5	752.0	725.3	713.9	712.6
57.5°	13661.5	10501.2	1754.2	1018.7	884.1	816.8	744.4	697.4	669.4	655.4	654.2
60°	15375.1	12029.3	2205.2	988.3	840.9	755.8	685.9	642.7	614.8	599.6	597.0
62.5°	17091.2	13639.9	3126.1	985.7	810.4	697.4	626.2	589.4	562.7	546.2	542.4
65°	19027.1	15403.0	4172.8	1053.0	800.3	644.0	565.3	536.0	513.2	497.9	496.7
67.5°	21250.0	17393.5	4072.4	1191.5	834.6	595.7	508.1	485.2	468.7	456.0	454.7
70°	22292.9	17082.3	2531.6	1289.3	882.8	548.7	453.5	437.0	424.3	415.4	411.6
71°	21855.9	16219.8	2122.6	1277.9	877.7	528.4	431.9	419.2	406.5	398.9	395.0
72.5°	20664.4	14792.1	1770.7	1189.0	820.6	491.6	403.9	391.2	379.8	370.9	368.4
75°	18543.1	13210.6	1417.6	950.1	654.2	415.4	354.4	340.4	331.5	326.5	321.4
77.5°	13631.0	9427.8	1096.2	750.7	481.4	339.2	302.3	292.2	283.3	275.6	271.8
80°	5222.0	3652.0	738.0	560.2	353.1	268.0	243.9	238.8	229.9	224.8	224.8
82.5°	1406.2	1091.1	393.8	339.2	236.3	195.6	186.7	184.2	176.6	166.4	167.7
85°	569.1	481.4	221.0	186.7	144.8	115.6	125.8	127.0	118.1	105.4	106.7
87.5°	250.2	204.5	123.2	82.6	63.5	44.5	57.2	57.2	52.1	43.2	39.4
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)