

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: P323341

Luminaire Tested: **GAN-SA7D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33416 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

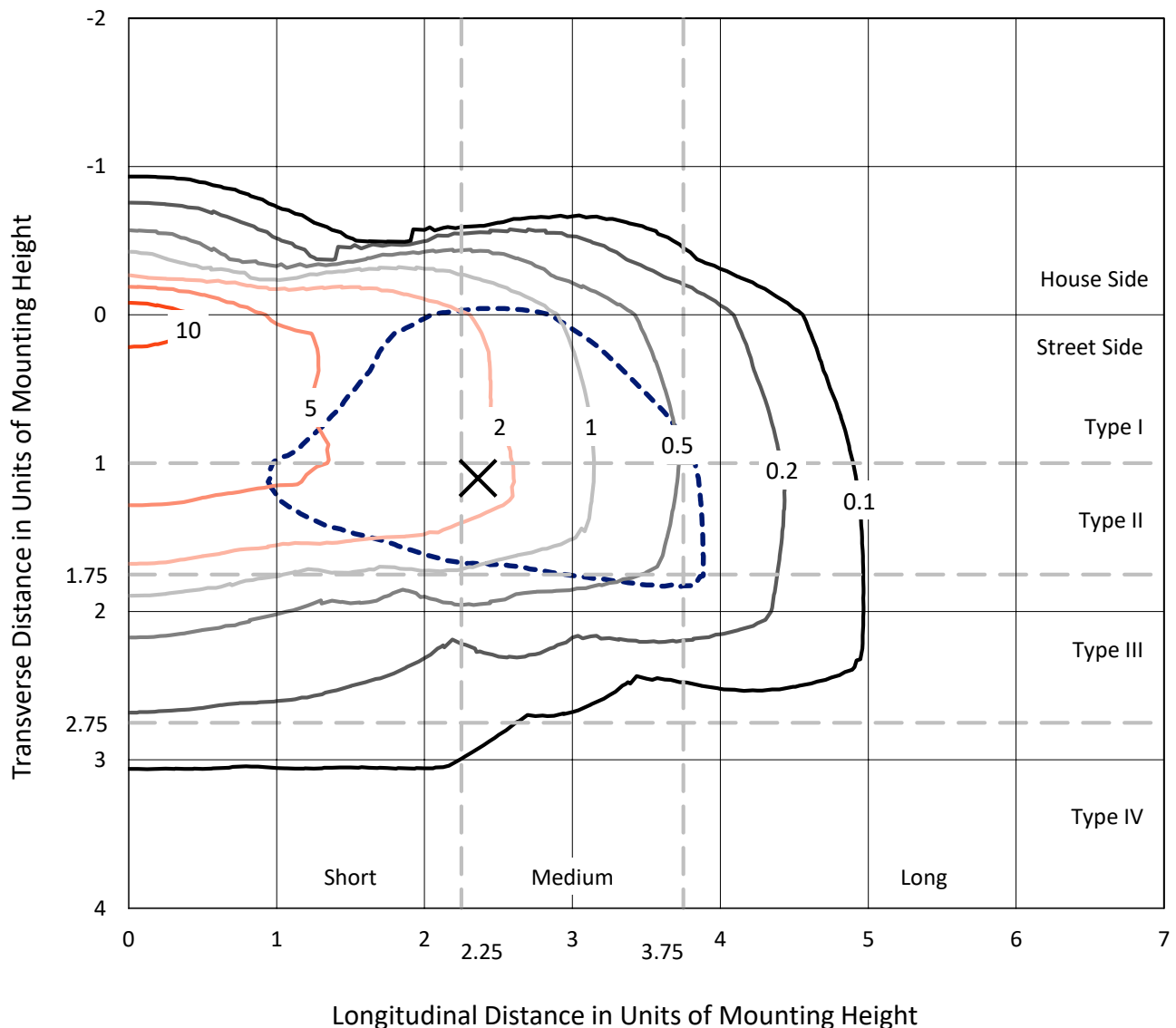
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

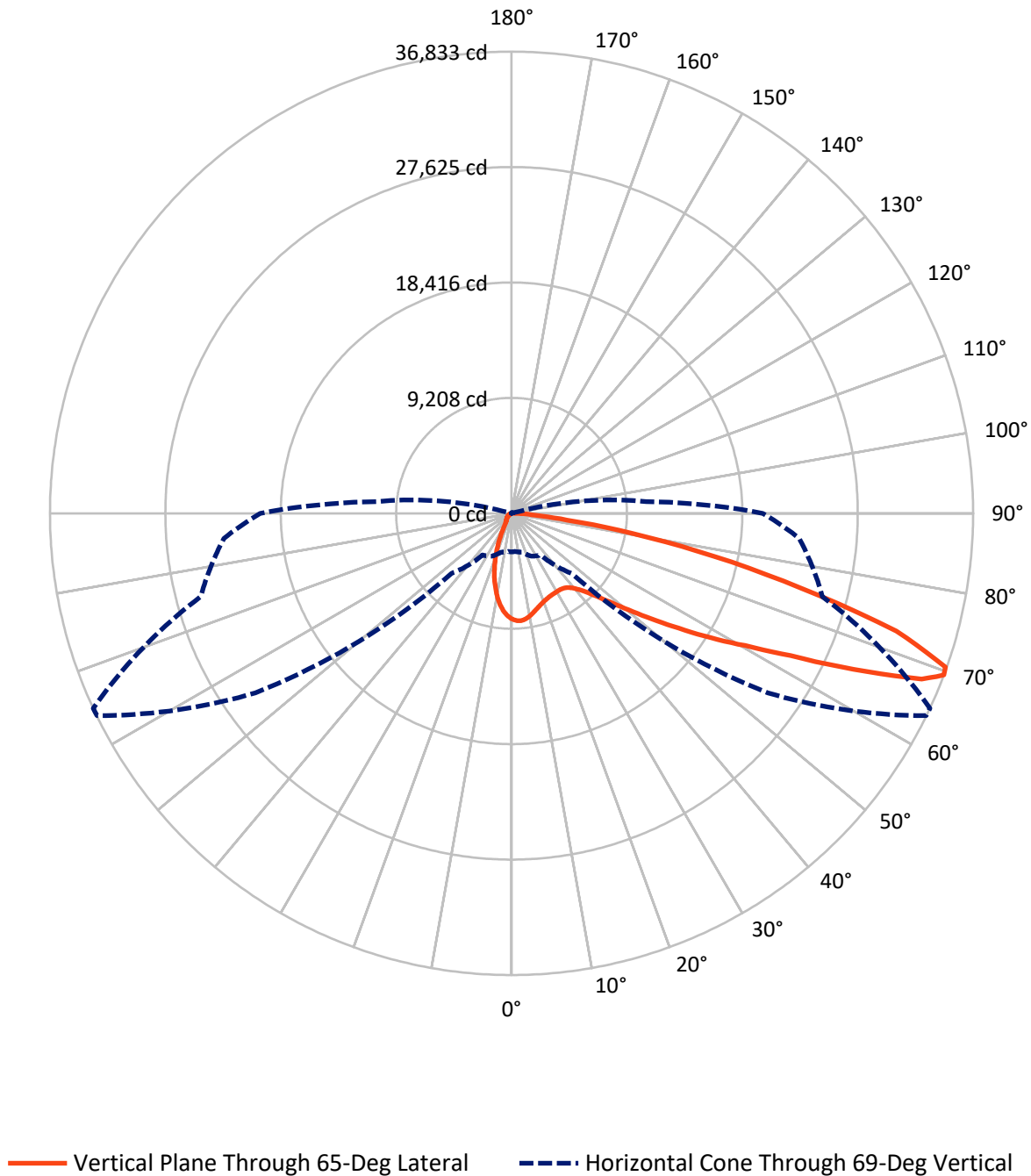
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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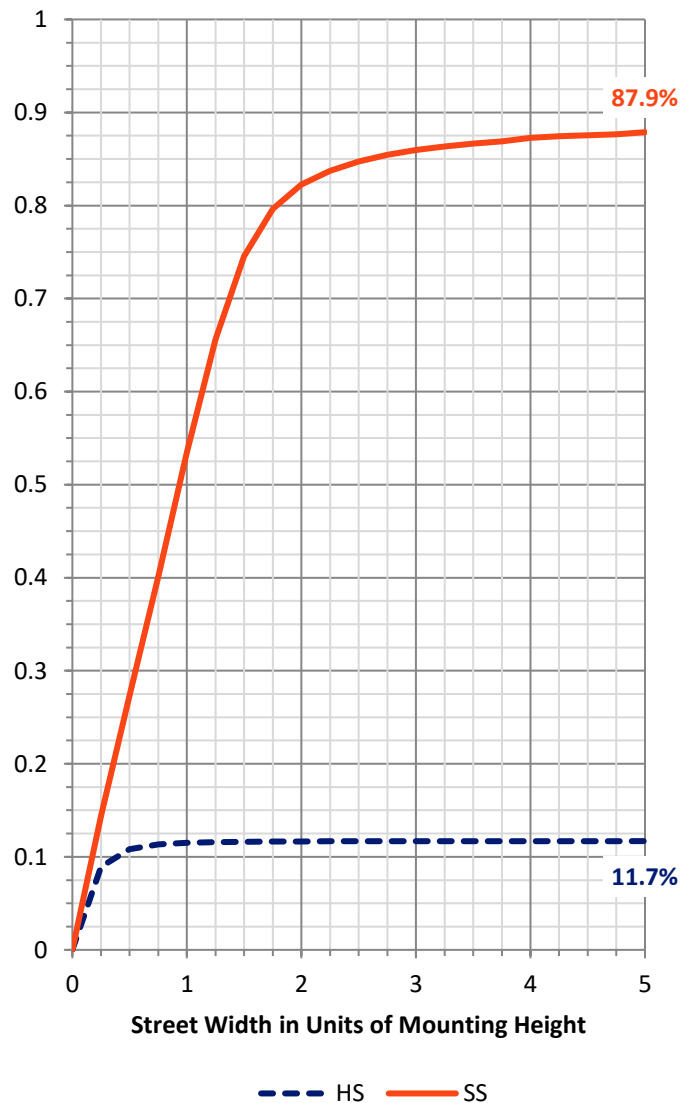
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3939.0	0.0	3939.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	29477.0	0.0	29477.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	33416.0	0.0	33416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.1	2.1
10°-20°	1545.7	4.6
20°-30°	2140.9	6.4
30°-40°	2985.1	8.9
40°-50°	4639.8	13.9
50°-60°	7448.7	22.3
60°-70°	8425.7	25.2
70°-80°	4948.5	14.8
80°-90°	575.6	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°	33416.0	100.0
0°-180°	33416.0	100.0

Coefficient of Utilization



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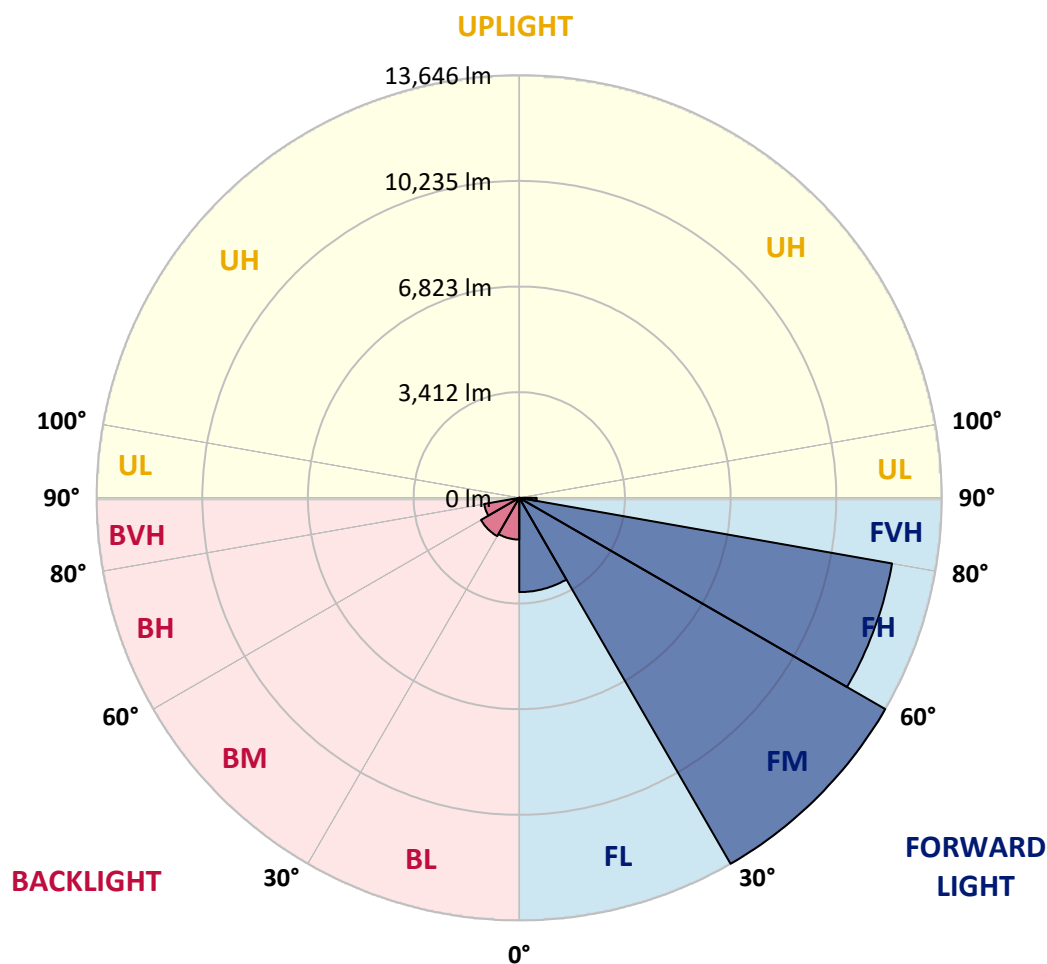
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3045.0	9.1			
FM	(30°-60°)	13646.1	40.8			
FH	(60°-80°)	12223.2	36.6			G5
FVH	(80°-90°)	562.7	1.7			G4/750
BL	(0°-30°)	1347.7	4.0	B3/2500		
BM	(30°-60°)	1427.4	4.3	B2/2500		
BH	(60°-80°)	1150.9	3.4	B3/2500		G3/2500
BVH	(80°-90°)	12.9	0.0			G1/100
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°	64°	65°	75°	85°
0°	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3
2.5°	8519.2	8498.0	8515.0	8551.7	8570.1	8570.1	8584.3	8567.3	8573.0	8531.9	8472.6
5°	7986.2	7953.6	8000.3	8103.5	8230.8	8339.6	8500.8	8585.7	8594.2	8595.6	8526.3
7.5°	7412.1	7382.4	7451.7	7573.3	7737.3	7939.5	8220.9	8466.9	8481.0	8614.0	8563.1
10°	6945.5	6924.3	7004.9	7134.9	7327.2	7553.5	7898.5	8240.7	8281.7	8575.8	8557.4
12.5°	6575.0	6558.0	6634.4	6784.3	6980.8	7231.1	7591.7	7989.0	8044.1	8489.5	8529.1
15°	6304.9	6302.1	6365.7	6510.0	6727.7	6961.0	7330.1	7755.7	7819.3	8396.2	8524.9
17.5°	6163.5	6167.8	6214.4	6337.5	6524.1	6756.0	7109.5	7559.1	7628.4	8312.8	8546.1
20°	6149.4	6153.6	6179.1	6248.4	6399.7	6604.7	6929.9	7393.7	7465.8	8250.6	8580.0
22.5°	6273.8	6271.0	6278.1	6271.0	6355.8	6511.4	6811.1	7266.4	7349.9	8209.6	8606.9
25°	6512.8	6508.5	6505.7	6453.4	6396.8	6480.3	6761.6	7194.3	7273.5	8179.9	8622.4
27.5°	6845.1	6842.2	6838.0	6751.7	6582.1	6529.8	6767.3	7167.5	7233.9	8155.8	8619.6
30°	7282.0	7301.8	7296.1	7175.9	6911.5	6681.1	6826.7	7153.3	7211.3	8109.2	8589.9
32.5°	7795.3	7834.9	7866.0	7737.3	7406.4	6980.8	6963.8	7168.9	7211.3	8073.8	8536.2
35°	8328.3	8379.2	8493.8	8448.5	8013.0	7431.9	7200.0	7262.2	7297.5	8093.6	8510.7
37.5°	8852.9	8913.7	9162.6	9294.1	8807.7	8028.6	7567.6	7492.7	7511.1	8213.8	8539.0
40°	9462.3	9554.3	9931.8	10143.9	9756.5	8827.5	8117.7	7888.6	7895.7	8478.2	8670.5
42.5°	10262.7	10357.4	10766.0	11098.3	10825.4	9837.1	8864.2	8493.8	8486.7	8973.1	8980.2
45°	11238.3	11337.3	11760.1	12129.1	12006.1	11033.3	9820.1	9377.5	9369.0	9753.6	9567.0
47.5°	12344.0	12441.6	12819.1	13199.5	13332.4	12430.3	11037.5	10583.6	10563.8	10838.1	10473.3
50°	13292.8	13356.4	13704.3	14216.1	14815.7	14146.9	12551.9	12115.0	12093.8	12279.0	11803.9
52.5°	13637.8	13674.6	14028.1	14745.0	16241.0	16471.4	14541.4	13978.6	13963.0	14043.6	13575.6
55°	12939.3	13005.8	13439.9	14503.2	17013.0	19098.6	17052.6	16286.2	16168.8	15994.9	15427.9
57.5°	11036.1	11142.2	11608.8	13022.7	16652.4	21182.8	20743.1	18896.4	18723.9	17660.6	16933.8
60°	8268.9	8399.0	8786.5	10312.1	14728.0	21925.2	24775.7	21805.0	21416.1	18986.9	18318.1
62.5°	5674.3	5739.3	6002.3	6996.4	10846.6	20709.1	28149.5	25700.5	24990.7	20429.2	19815.5
65°	4333.8	4356.5	4463.9	4806.1	6459.1	16822.1	29491.4	30840.3	29982.0	22154.2	21369.5
67.5°	3492.5	3474.1	3622.6	4111.9	4325.4	10262.7	27926.1	35703.0	35301.4	24460.4	22933.3
69°	3079.6	3054.2	3205.5	3773.9	4062.4	6784.3	24965.2	36807.3	36832.7	25677.9	23040.8
70°	2771.4	2788.4	2938.2	3573.1	3973.3	5325.0	22137.3	36525.9	36726.7	26133.2	22396.0
72.5°	1850.9	1896.1	2197.3	2966.5	3820.6	4029.8	13366.3	31343.7	32115.7	25108.0	19214.6
75°	1043.5	1077.5	1435.2	2236.9	3600.0	3837.5	7060.0	23091.7	23838.3	20996.2	14817.1
77.5°	511.9	530.2	811.6	1443.7	3010.4	3656.5	4004.4	15685.3	16537.9	13704.3	8380.7
80°	216.3	226.2	405.8	890.8	2152.1	3489.7	2973.6	9653.2	9759.3	5368.9	2232.7
82.5°	83.4	86.3	171.1	555.7	1367.3	2720.5	2487.2	4577.0	4466.8	1011.0	509.0
85°	9.9	11.3	62.2	333.7	760.7	1399.8	2020.6	1972.5	1825.4	200.8	261.6
87.5°	0.0	0.0	4.2	101.8	226.2	656.1	1050.6	818.7	738.1	65.0	135.7
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°	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3	8444.3
2.5°	8423.1	8408.9	8332.6	8222.3	8117.7	7987.6	7863.1	7788.2	7728.8	7689.2	7735.9
5°	8445.7	8383.5	8151.6	7854.7	7563.4	7235.3	6929.9	6671.2	6569.3	6456.2	6507.1
7.5°	8438.6	8321.3	7904.1	7375.3	6840.8	6288.0	5764.8	5361.8	5152.5	4947.5	4999.8
10°	8403.3	8205.3	7573.3	6789.9	5989.6	5195.0	4452.6	3888.4	3573.1	3287.5	3328.5
12.5°	8325.5	8049.8	7183.0	6119.7	5049.3	4001.6	3132.0	2409.4	2022.0	1850.9	1872.1
15°	8278.8	7898.5	6770.1	5441.0	4045.4	2787.0	1914.5	1423.9	1247.1	1190.6	1197.6
17.5°	8256.2	7752.8	6343.1	4664.7	3018.8	1774.5	1237.2	1091.6	1053.4	1043.5	1046.3
20°	8233.6	7605.8	5903.4	3896.9	2080.0	1193.4	1016.7	974.2	960.1	947.4	950.2
22.5°	8195.4	7464.4	5431.1	3119.2	1402.7	968.6	916.3	875.3	845.6	830.0	832.8
25°	8148.8	7315.9	4948.9	2323.2	1023.7	863.9	814.5	756.5	721.1	692.8	694.3
27.5°	8073.8	7133.5	4451.2	1691.1	859.7	773.4	707.0	643.4	584.0	551.5	551.5
30°	7969.2	6927.1	3898.3	1210.4	770.6	684.4	603.8	524.6	461.0	431.3	428.4
32.5°	7853.2	6712.2	3339.8	917.7	699.9	600.9	509.0	425.6	369.0	345.0	343.6
35°	7754.3	6480.3	2782.7	769.2	629.2	520.3	420.0	349.3	304.0	284.2	282.8
37.5°	7690.6	6248.4	2239.7	687.2	565.6	445.4	352.1	288.5	255.9	240.4	239.0
40°	7680.7	6075.9	1743.4	625.0	506.2	378.9	294.1	244.6	214.9	198.0	196.5
42.5°	7809.4	5976.9	1337.6	572.7	445.4	321.0	250.3	209.3	178.2	161.2	159.8
45°	8147.3	6008.0	1029.4	526.0	384.6	271.5	212.1	173.9	145.6	132.9	130.1
47.5°	8763.8	6222.9	818.7	479.3	326.6	230.5	181.0	144.2	120.2	107.5	106.0
50°	9861.1	6727.7	684.4	428.4	272.9	196.5	149.9	117.4	97.6	86.3	84.8
52.5°	11317.5	7627.0	610.8	378.9	226.2	166.8	123.0	93.3	76.4	67.9	66.5
55°	12923.8	8715.8	562.8	325.2	185.2	138.6	97.6	73.5	59.4	52.3	49.5
57.5°	14491.9	9658.9	517.5	272.9	154.1	113.1	77.8	58.0	46.7	39.6	38.2
60°	15932.7	10525.7	465.2	219.2	125.8	89.1	60.8	45.2	36.8	29.7	29.7
62.5°	17475.4	11195.9	393.1	171.1	103.2	67.9	49.5	41.0	29.7	25.5	24.0
65°	19109.9	11693.6	308.2	132.9	80.6	50.9	41.0	42.4	24.0	18.4	17.0
67.5°	20317.5	11594.6	227.7	104.6	62.2	39.6	39.6	45.2	21.2	14.1	12.7
69°	20051.6	10790.1	190.9	90.5	53.7	33.9	36.8	45.2	19.8	12.7	11.3
70°	19281.0	9899.3	168.3	80.6	48.1	31.1	35.3	43.8	18.4	12.7	11.3
72.5°	16057.1	7455.9	131.5	60.8	38.2	25.5	29.7	38.2	18.4	12.7	9.9
75°	12078.2	4772.2	100.4	43.8	28.3	19.8	22.6	28.3	18.4	11.3	9.9
77.5°	6572.2	1720.8	72.1	29.7	19.8	15.6	15.6	21.2	17.0	8.5	5.7
80°	1689.7	432.7	45.2	19.8	15.6	11.3	9.9	14.1	9.9	1.4	0.0
82.5°	417.1	97.6	24.0	14.1	11.3	4.2	4.2	7.1	4.2	0.0	0.0
85°	229.1	48.1	15.6	9.9	5.7	0.0	0.0	1.4	0.0	0.0	0.0
87.5°	117.4	14.1	4.2	2.8	1.4	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)