

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: P322073

Luminaire Tested: **GAN-SA9A-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23551 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 290
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

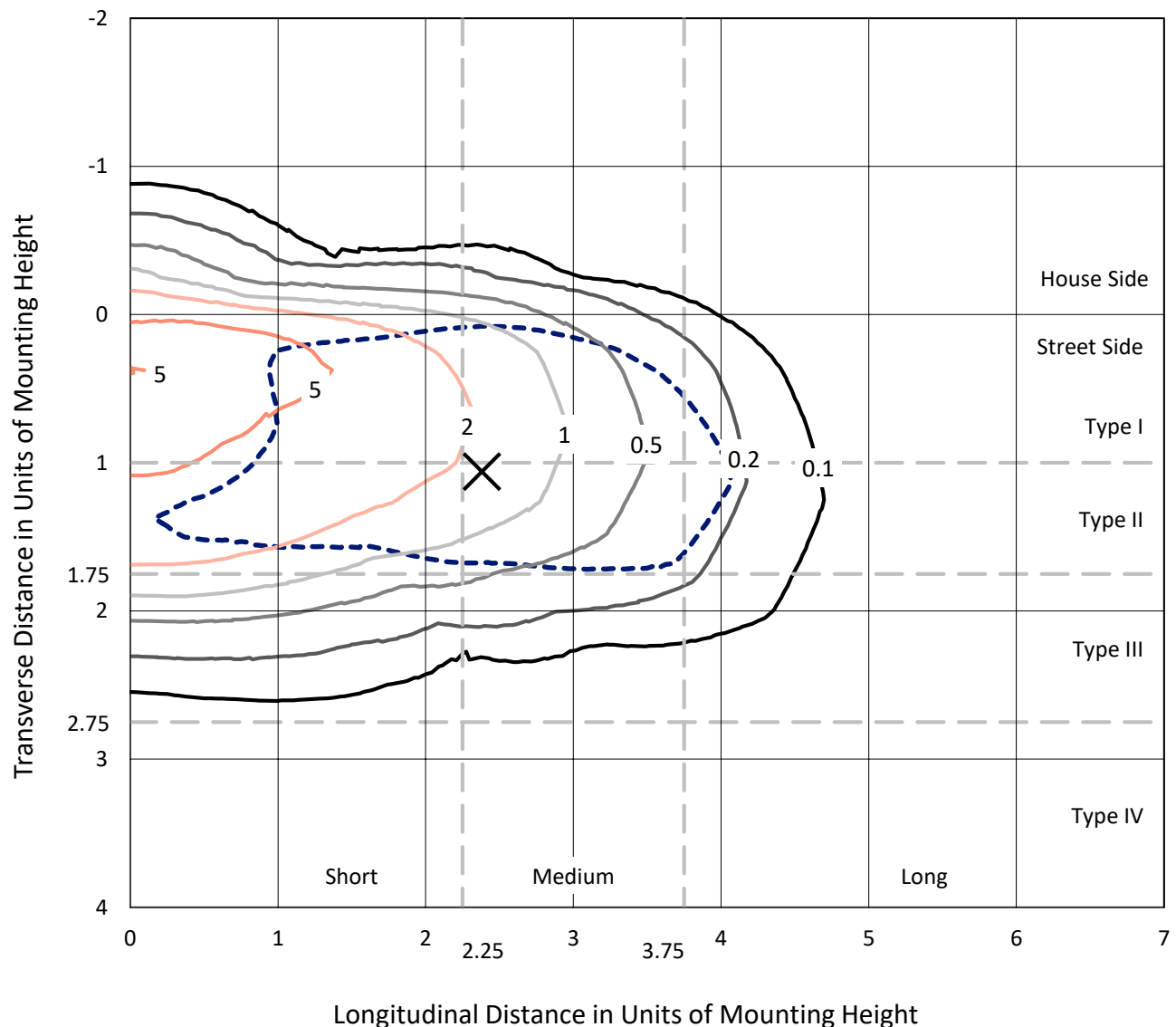


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Iso-Footcandle Lines of Horizontal Illumination

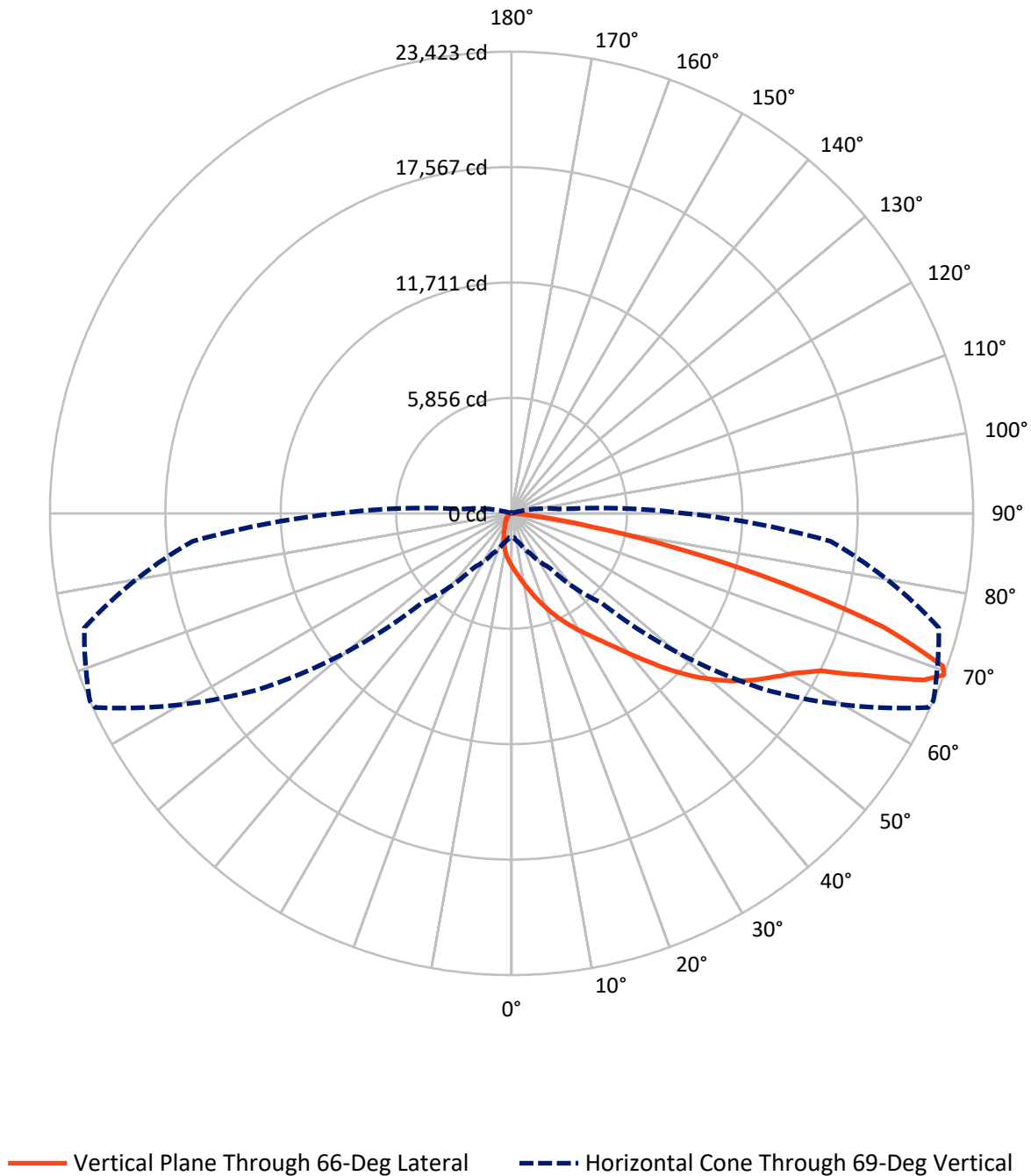
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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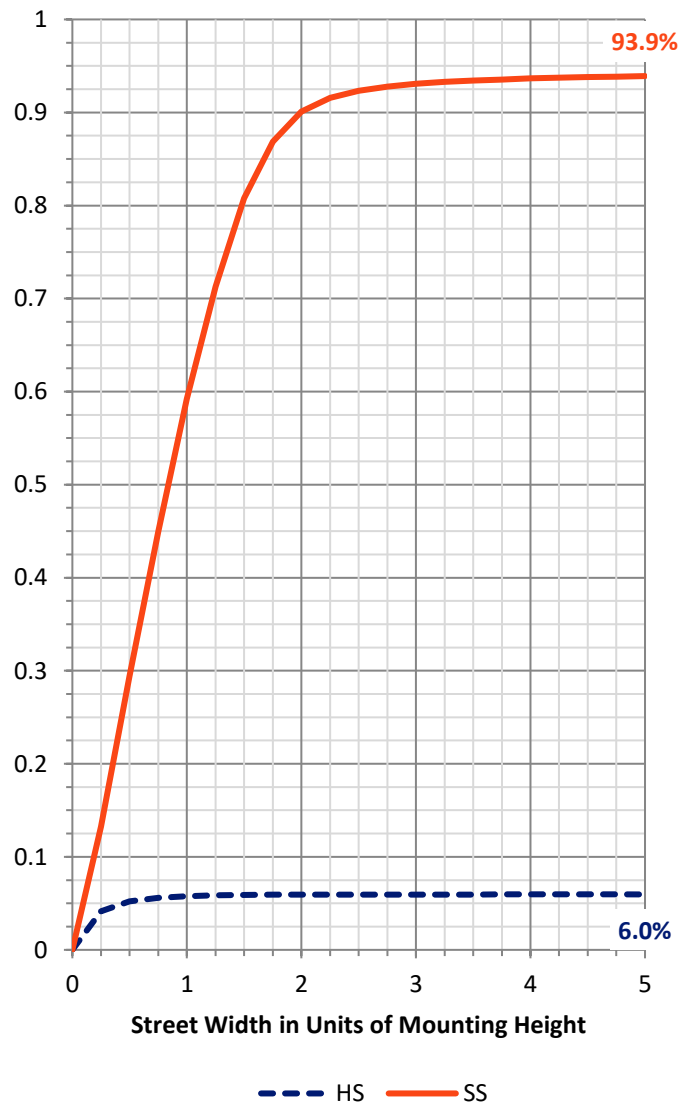
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.7	0.0	1412.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	22138.3	0.0	22138.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	23551.0	0.0	23551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.1
10°-20°	771.1	3.3
20°-30°	1342.7	5.7
30°-40°	2355.7	10.0
40°-50°	3943.1	16.7
50°-60°	5796.1	24.6
60°-70°	5951.1	25.3
70°-80°	2937.9	12.5
80°-90°	194.3	0.8
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°	23551.0	100.0
0°-180°	23551.0	100.0

Coefficient of Utilization



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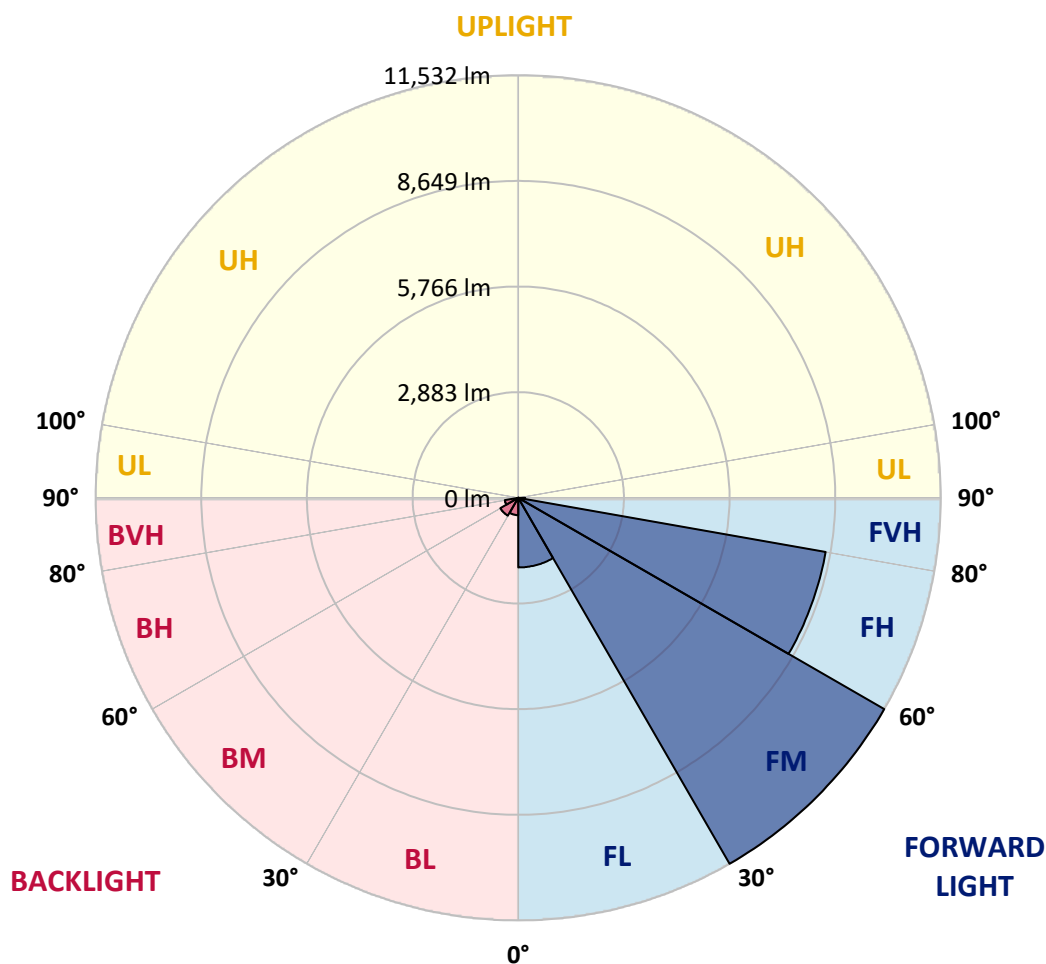
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1900.3	8.1			
FM	(30°-60°)	11531.7	49.0			
FH	(60°-80°)	8516.7	36.2			G4/12000
FVH	(80°-90°)	189.6	0.8			G2/225
BL	(0°-30°)	472.5	2.0	B1/500		
BM	(30°-60°)	563.3	2.4	B1/1000		
BH	(60°-80°)	372.3	1.6	B1/500		G1/500
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2
2.5°	3154.5	3141.0	3135.5	3110.8	3068.3	3035.9	2973.3	2900.5	2887.1	2816.6	2730.5
5°	3563.9	3552.7	3544.9	3510.2	3466.6	3384.9	3270.8	3135.5	3109.7	2975.5	2803.2
7.5°	3849.1	3869.3	3869.3	3846.9	3792.1	3730.6	3590.7	3406.2	3373.7	3167.9	2900.5
10°	4015.8	4040.4	4059.4	4078.4	4070.6	4046.0	3914.0	3705.9	3666.8	3393.8	3013.5
12.5°	4031.5	4056.1	4109.8	4189.2	4266.4	4322.3	4239.5	4038.2	3993.4	3655.6	3147.8
15°	3944.2	3969.9	4052.7	4207.1	4393.9	4557.2	4584.0	4406.2	4360.3	3967.7	3315.5
17.5°	3792.1	3808.9	3927.4	4141.1	4434.2	4733.9	4896.1	4801.1	4758.5	4324.5	3502.4
20°	3679.1	3691.4	3795.4	4024.7	4409.5	4844.7	5191.4	5220.5	5175.8	4707.1	3704.8
22.5°	3872.6	3895.0	3898.3	4006.8	4342.4	4899.5	5451.0	5633.3	5599.7	5113.1	3903.9
25°	4401.7	4427.4	4342.4	4275.3	4399.5	4924.1	5673.6	6056.1	6029.3	5550.5	4104.2
27.5°	5100.8	5127.7	5018.1	4817.8	4698.1	5016.9	5871.6	6485.7	6484.6	6013.6	4320.1
30°	5787.7	5814.5	5702.7	5502.4	5227.2	5279.8	6042.7	6935.4	6942.1	6491.3	4549.4
32.5°	6508.0	6541.6	6426.4	6169.1	5881.6	5734.0	6283.2	7387.3	7425.3	7045.0	4807.8
35°	7326.9	7331.3	7169.1	6899.6	6568.5	6341.4	6669.1	7894.0	7984.6	7730.7	5135.5
37.5°	8130.0	8162.5	8029.4	7604.3	7300.0	7042.7	7243.0	8527.1	8655.8	8568.5	5563.9
40°	8725.1	8793.4	8774.3	8315.7	8027.1	7843.7	7955.5	9280.0	9443.3	9543.9	6104.2
42.5°	9098.7	9150.2	9237.4	8961.2	8699.4	8729.6	8796.7	10156.9	10358.3	10655.8	6725.1
45°	9527.2	9551.8	9624.5	9502.6	9325.8	9630.1	9689.4	11144.7	11356.1	11851.6	7414.1
47.5°	10050.7	10108.8	10129.0	10017.1	9936.6	10426.5	10549.6	12042.9	12339.3	13132.4	8143.4
50°	10717.4	10733.0	10767.7	10695.0	10614.5	11111.1	11321.4	12985.9	13255.5	14417.7	8862.7
52.5°	11369.5	11425.4	11546.2	11500.4	11467.9	11693.9	12009.4	13836.0	14136.9	15489.3	9580.9
55°	11557.4	11605.5	12022.8	12308.0	12572.0	12412.0	12667.1	14597.8	14923.3	16446.9	10272.2
57.5°	10806.9	10904.2	11626.8	12369.5	13464.7	13528.4	13570.9	15379.7	15671.7	17180.7	10991.4
60°	8909.7	8928.7	10114.4	11388.5	13317.0	14502.7	14890.9	16219.8	16464.8	17864.1	11852.7
62.5°	5666.9	5860.4	7161.3	8960.0	11755.4	14361.8	16487.1	17490.5	17580.0	18684.1	13087.7
65°	2699.2	2824.5	3761.9	5536.0	8514.8	12557.5	17589.0	19789.3	19829.5	20309.4	14737.6
67.5°	1494.5	1554.9	2001.2	2980.0	4977.8	8880.6	17143.8	22511.9	22550.0	21969.4	16185.1
69°	1168.9	1220.4	1571.6	2246.2	3374.8	6382.8	15513.9	23309.5	23422.5	22444.8	16236.6
70°	992.2	1042.5	1353.5	1897.2	2713.7	4931.9	13809.2	23111.5	23231.2	22400.1	15852.9
72.5°	607.4	636.5	901.6	1335.6	1818.9	2481.1	8515.9	19545.4	19747.9	20547.7	13624.6
75°	409.4	425.1	563.8	921.7	1300.9	1277.4	4424.1	13776.7	14215.2	15983.8	10063.0
77.5°	293.1	307.6	378.1	596.2	911.7	843.4	2003.4	8561.8	8655.8	9586.5	5487.9
80°	166.7	180.1	267.3	354.6	618.6	562.7	796.4	4089.6	4136.6	4110.9	1832.3
82.5°	87.3	98.4	146.5	233.8	397.1	368.0	331.1	1369.2	1375.9	1144.3	401.6
85°	16.8	20.1	72.7	160.0	204.7	160.0	135.4	321.0	327.8	289.7	99.6
87.5°	0.0	1.1	29.1	35.8	40.3	41.4	43.6	62.6	67.1	90.6	26.8
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°	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2	2680.2
2.5°	2692.5	2652.2	2575.0	2485.5	2416.2	2348.0	2294.3	2238.3	2218.2	2208.1	2207.0
5°	2719.3	2634.3	2471.0	2303.2	2165.6	2035.9	1943.0	1854.6	1813.3	1794.2	1786.4
7.5°	2764.1	2627.6	2364.7	2108.6	1910.6	1748.4	1619.7	1523.5	1475.4	1455.3	1447.5
10°	2816.6	2618.7	2240.6	1902.7	1649.9	1482.2	1354.6	1259.6	1207.0	1184.6	1173.4
12.5°	2878.2	2603.0	2097.4	1694.7	1427.3	1259.6	1105.2	987.7	927.3	901.6	889.3
15°	2954.2	2587.3	1947.5	1498.9	1231.6	1026.9	858.0	778.5	766.2	761.8	762.9
17.5°	3029.2	2562.7	1784.2	1305.4	1025.8	802.0	715.9	711.4	713.7	713.7	713.7
20°	3096.3	2506.8	1606.3	1139.9	830.0	676.8	658.9	651.0	645.4	641.0	635.4
22.5°	3148.9	2431.8	1435.2	975.4	677.9	619.7	591.7	567.1	547.0	533.6	526.9
25°	3184.7	2332.3	1278.6	817.7	609.6	563.8	513.4	472.1	440.7	421.7	413.9
27.5°	3211.5	2224.9	1138.7	684.6	562.7	498.9	432.9	383.7	351.2	334.5	327.8
30°	3230.5	2103.0	1015.7	601.8	510.1	430.7	360.2	312.1	288.6	279.7	275.2
32.5°	3248.4	1967.6	899.4	562.7	460.9	368.0	302.0	265.1	250.6	239.4	236.0
35°	3293.2	1842.3	788.6	521.3	410.5	314.3	259.5	232.7	218.1	211.4	209.2
37.5°	3399.4	1749.5	682.3	478.8	360.2	271.8	227.1	208.1	194.6	187.9	185.7
40°	3570.6	1702.5	592.9	432.9	311.0	239.4	205.8	187.9	173.4	163.3	161.1
42.5°	3822.3	1709.2	530.2	387.0	271.8	213.7	185.7	164.4	148.8	139.8	137.6
45°	4127.7	1758.4	486.6	342.3	239.4	193.5	163.3	140.9	126.4	118.6	116.3
47.5°	4458.8	1837.9	450.8	302.0	213.7	174.5	140.9	117.5	105.1	98.4	97.3
50°	4807.8	1915.1	413.9	262.9	191.3	155.5	118.6	97.3	87.3	81.7	79.4
52.5°	5161.2	2004.5	380.3	227.1	172.3	133.1	98.4	79.4	71.6	67.1	64.9
55°	5541.6	2071.7	347.9	199.1	153.2	113.0	81.7	66.0	59.3	53.7	52.6
57.5°	5989.0	2175.7	314.3	172.3	130.9	94.0	67.1	52.6	47.0	41.4	40.3
60°	6593.1	2297.6	278.5	152.1	107.4	77.2	54.8	42.5	35.8	31.3	30.2
62.5°	7389.5	2433.0	233.8	133.1	87.3	62.6	43.6	33.6	25.7	20.1	20.1
65°	8399.6	2653.3	191.3	111.9	71.6	51.5	33.6	24.6	14.5	8.9	8.9
67.5°	8989.1	2691.4	154.4	91.7	58.2	43.6	28.0	16.8	4.5	1.1	0.0
69°	8800.1	2471.0	130.9	78.3	50.3	41.4	25.7	12.3	2.2	0.0	0.0
70°	8444.4	2259.6	115.2	69.4	45.9	39.2	24.6	8.9	2.2	0.0	0.0
72.5°	6977.9	1608.6	87.3	51.5	33.6	34.7	22.4	5.6	2.2	0.0	0.0
75°	5082.9	977.7	62.6	35.8	21.3	25.7	15.7	2.2	1.1	0.0	0.0
77.5°	2827.8	460.9	39.2	20.1	13.4	15.7	7.8	0.0	0.0	0.0	0.0
80°	918.4	125.3	17.9	11.2	7.8	8.9	3.4	0.0	0.0	0.0	0.0
82.5°	170.0	35.8	10.1	5.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	36.9	14.5	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	4.5	1.1	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)