

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: P319938

Luminaire Tested: **GAN-SA4D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24872 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

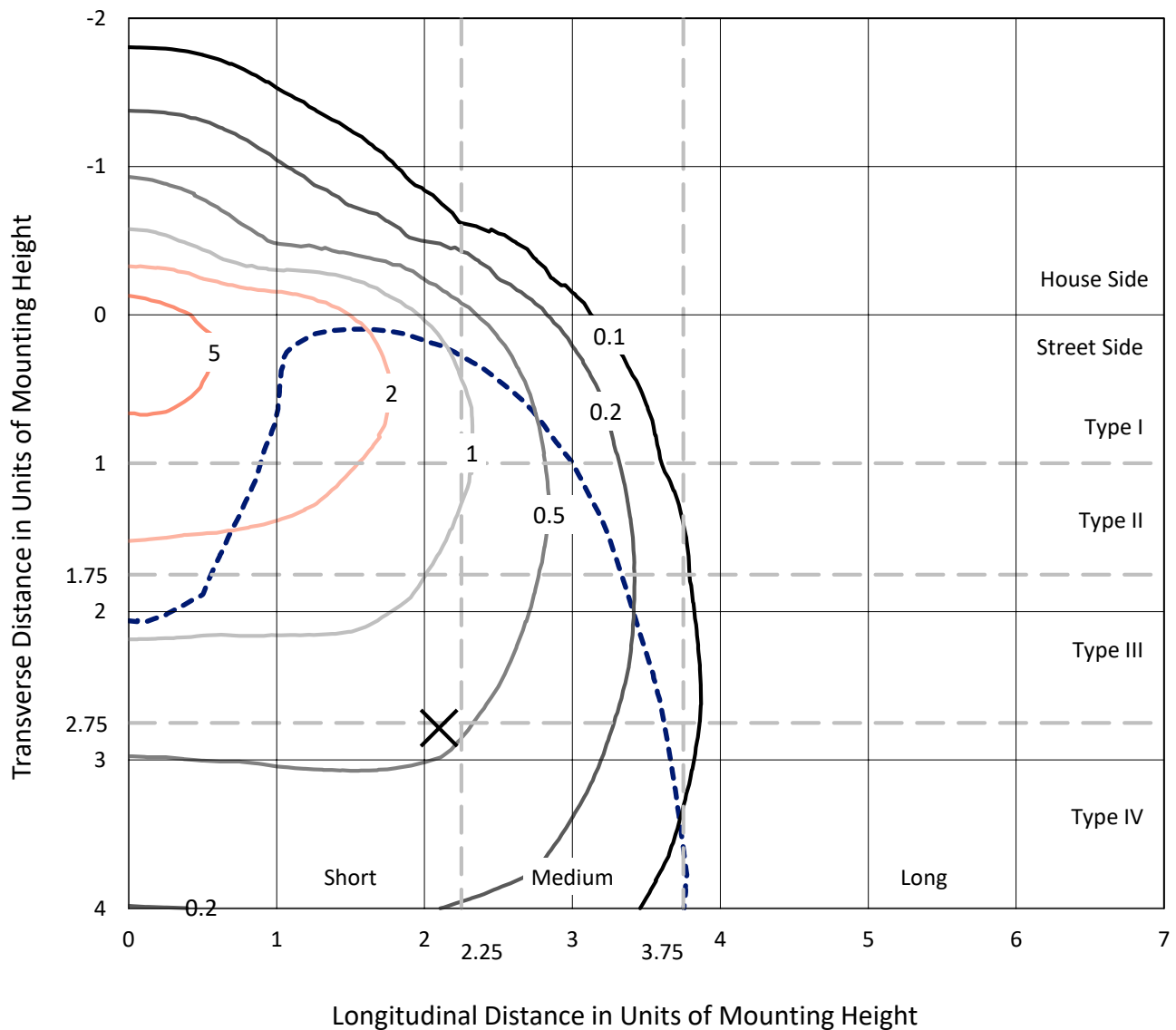
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

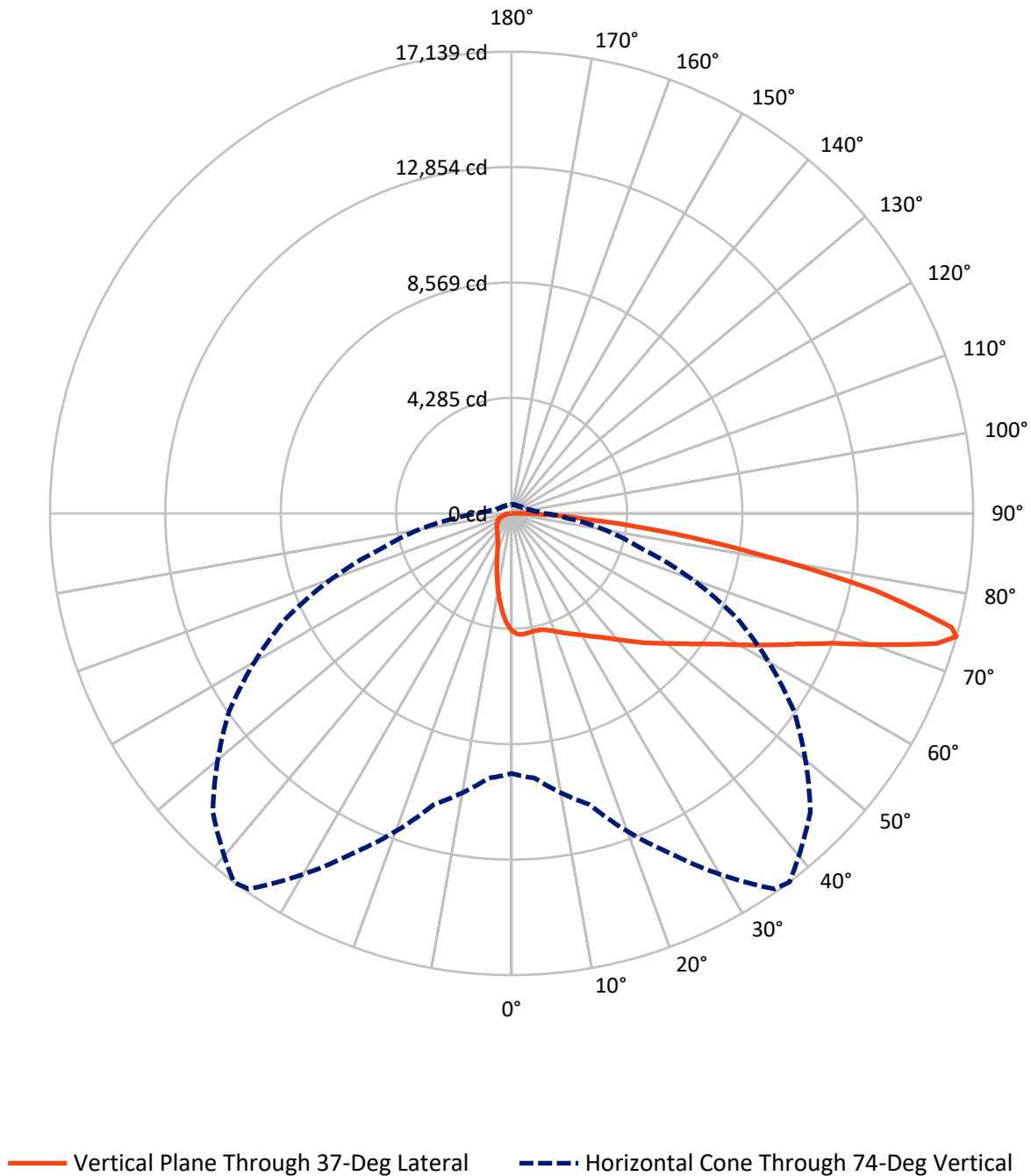
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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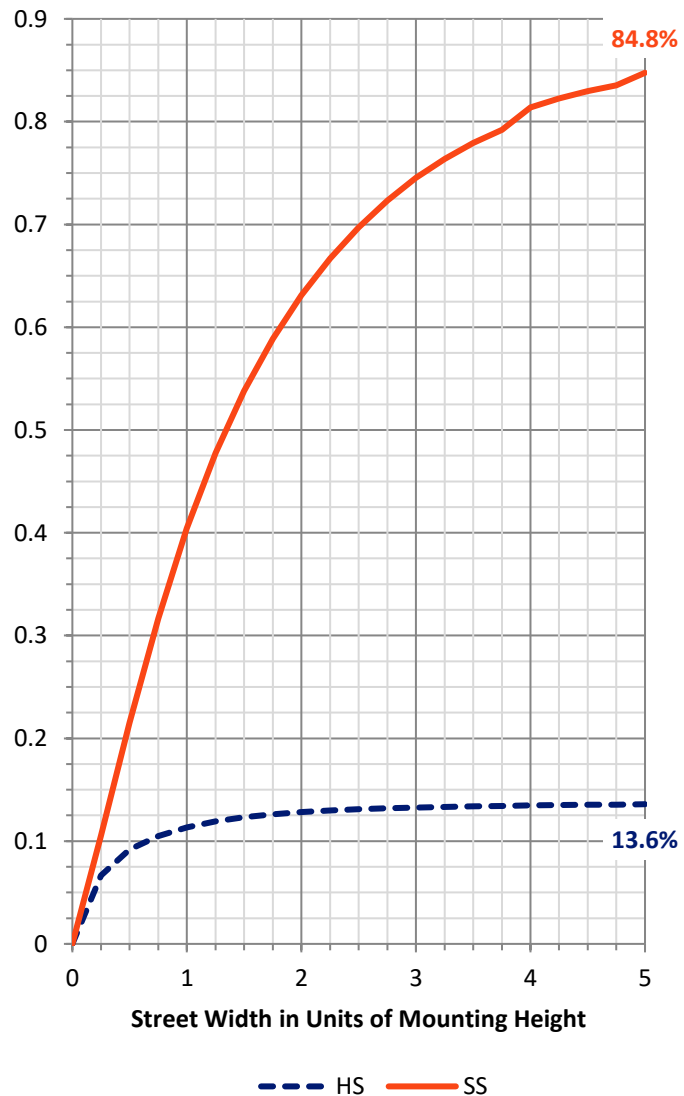
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3422.2	0.0	3422.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	21449.8	0.0	21449.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	24872.0	0.0	24872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.9	1.6
10°-20°	989.2	4.0
20°-30°	1524.2	6.1
30°-40°	2216.4	8.9
40°-50°	3262.1	13.1
50°-60°	4581.0	18.4
60°-70°	5798.2	23.3
70°-80°	5105.5	20.5
80°-90°	1009.5	4.1
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°	24872.0	100.0
0°-180°	24872.0	100.0

Coefficient of Utilization



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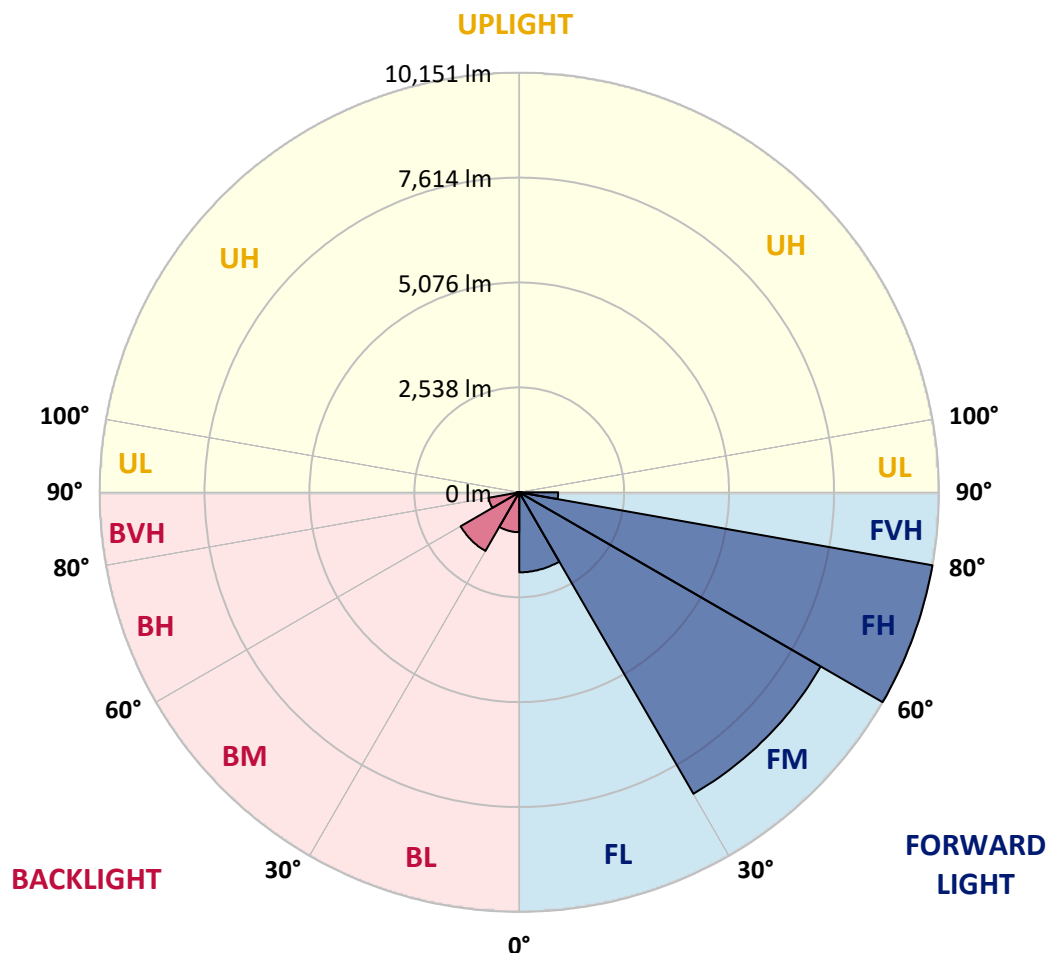
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1935.3	7.8			
FM	(30°-60°)	8421.9	33.9			
FH	(60°-80°)	10151.5	40.8			G4/12000
FVH	(80°-90°)	941.1	3.8			G5
BL	(0°-30°)	964.0	3.9	B2/1000		
BM	(30°-60°)	1637.7	6.6	B2/2500		
BH	(60°-80°)	752.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	68.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4
2.5°	4532.2	4533.0	4532.2	4525.2	4508.5	4494.5	4483.1	4466.5	4429.7	4401.6	4359.6
5°	4575.1	4569.8	4566.3	4553.2	4526.9	4511.1	4489.2	4457.7	4397.2	4341.2	4272.8
7.5°	4554.9	4548.8	4540.9	4525.2	4495.4	4482.2	4451.6	4410.4	4337.7	4264.1	4165.9
10°	4492.7	4491.0	4487.5	4484.0	4458.6	4448.1	4420.0	4376.2	4304.4	4215.0	4100.2
12.5°	4423.5	4427.9	4441.9	4460.3	4448.9	4443.7	4426.2	4396.4	4322.8	4226.4	4088.0
15°	4379.7	4392.0	4429.7	4477.8	4487.5	4485.7	4481.4	4462.1	4384.1	4277.2	4116.0
17.5°	4364.8	4385.0	4456.8	4536.5	4564.6	4570.7	4572.5	4539.2	4452.4	4339.4	4144.9
20°	4392.0	4417.4	4522.5	4632.0	4676.7	4680.2	4672.3	4614.5	4517.3	4392.9	4160.7
22.5°	4474.3	4497.1	4628.5	4752.1	4802.9	4808.1	4784.5	4696.9	4585.6	4455.9	4182.6
25°	4632.9	4661.0	4792.4	4915.9	4942.2	4943.1	4908.9	4800.3	4675.0	4544.4	4229.9
27.5°	4839.7	4867.7	4986.0	5106.9	5092.9	5085.0	5038.6	4929.9	4791.5	4666.2	4314.0
30°	5070.1	5100.8	5212.9	5298.8	5265.5	5249.7	5212.0	5071.9	4953.6	4832.7	4442.8
32.5°	5308.4	5336.4	5434.6	5493.3	5451.2	5444.2	5387.3	5259.3	5164.7	5086.8	4651.3
35°	5552.8	5573.0	5669.4	5702.7	5646.6	5644.8	5629.1	5511.7	5452.1	5488.9	4954.5
37.5°	5802.5	5807.8	5890.2	5891.9	5875.3	5882.3	5898.9	5825.3	5842.0	5956.7	5348.7
40°	6025.1	6039.1	6098.7	6117.1	6146.0	6170.5	6253.7	6205.6	6334.3	6537.6	5839.3
42.5°	6189.8	6216.9	6312.4	6359.8	6453.5	6492.0	6609.4	6654.1	6913.5	7218.3	6422.8
45°	6329.1	6371.1	6524.5	6621.7	6780.3	6847.8	7016.0	7165.8	7567.9	7956.9	7037.0
47.5°	6479.8	6533.2	6725.1	6910.8	7126.4	7202.6	7508.3	7732.6	8266.2	8699.9	7616.1
50°	6701.4	6742.6	6930.1	7221.9	7490.8	7588.9	8012.1	8333.6	8975.8	9407.8	8118.1
52.5°	7010.7	6994.9	7153.5	7562.7	7923.6	8044.5	8550.1	8973.2	9695.1	10048.2	8542.2
55°	7321.7	7295.4	7406.7	7919.2	8428.3	8555.3	9142.3	9615.4	10379.4	10624.7	8867.2
57.5°	7667.8	7617.9	7711.6	8321.4	9003.0	9154.6	9805.5	10297.9	11052.2	11090.8	9074.0
60°	8024.4	7956.9	8062.1	8819.9	9732.8	9911.5	10581.8	10963.8	11686.6	11464.0	9140.6
62.5°	8336.3	8289.0	8451.0	9376.2	10555.5	10751.7	11344.0	11671.7	12312.1	11619.1	8900.5
65°	8608.8	8616.6	8897.0	10001.8	11472.8	11682.2	12218.4	12544.3	12804.5	11527.1	8338.9
67.5°	8933.8	8978.5	9456.8	10825.3	12627.5	12857.1	13490.5	13495.7	13079.6	10987.4	7233.2
70°	9407.8	9499.8	10226.9	11967.8	14269.4	14584.8	15073.6	14054.7	12693.2	9524.3	5691.3
72.5°	9828.3	10000.0	11046.1	13275.0	16270.4	16509.6	15999.7	13732.3	11078.5	7137.7	3545.7
74°	9657.5	9870.4	11195.1	13918.9	17023.9	17138.7	15686.9	12791.3	9236.9	4943.1	2060.6
75°	9289.5	9520.8	10977.8	13912.8	16928.4	16864.4	14931.7	11716.3	7607.3	3371.3	1371.1
77.5°	7497.0	7741.4	9250.1	11924.0	13880.4	13819.9	11470.2	7859.7	3331.9	1105.7	696.5
80°	4358.7	4545.3	5742.1	7572.3	9359.6	9469.1	7543.4	3889.1	1310.7	621.2	472.2
82.5°	1936.2	2065.0	2773.8	3865.4	5648.3	5789.4	3950.4	2037.9	809.5	377.6	283.9
85°	1270.4	1365.9	1683.9	1840.7	2689.7	2786.1	1933.6	1586.7	534.4	207.6	208.5
87.5°	913.8	1005.8	1251.1	1092.5	1234.5	1168.7	1052.2	1468.4	214.6	118.3	70.1
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°	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4	4382.4
2.5°	4341.2	4327.2	4295.6	4236.0	4202.7	4174.7	4128.3	4101.1	4088.8	4088.0	4093.2
5°	4233.4	4201.0	4119.5	4019.6	3939.9	3867.2	3777.0	3722.6	3684.1	3661.3	3667.4
7.5°	4108.1	4057.3	3929.4	3769.9	3642.0	3501.0	3361.7	3278.4	3213.6	3165.4	3174.2
10°	4022.3	3952.2	3765.6	3536.0	3323.1	3118.1	2926.2	2811.5	2720.4	2650.3	2655.5
12.5°	3993.4	3898.7	3640.3	3333.6	3034.9	2754.5	2503.9	2327.8	2234.1	2154.4	2160.5
15°	3997.7	3870.7	3535.1	3151.4	2775.5	2422.5	2118.5	1912.6	1785.5	1730.3	1731.2
17.5°	4001.2	3838.3	3424.8	2956.0	2518.8	2112.3	1782.0	1573.5	1453.5	1402.7	1403.5
20°	3989.8	3785.7	3288.1	2731.7	2250.8	1827.6	1507.8	1330.8	1239.7	1200.3	1200.3
22.5°	3975.0	3723.5	3133.9	2506.6	1986.2	1580.5	1311.6	1176.6	1124.1	1097.8	1096.9
25°	3982.0	3677.1	2976.2	2275.3	1742.6	1383.4	1181.0	1091.6	1056.6	1040.0	1039.1
27.5°	4019.6	3655.2	2830.7	2044.9	1529.7	1235.3	1093.4	1030.3	1007.5	997.0	997.0
30°	4088.0	3655.2	2679.2	1848.6	1352.7	1125.8	1025.9	983.0	967.2	960.2	960.2
32.5°	4207.1	3675.3	2532.9	1654.1	1211.7	1040.0	969.9	941.0	928.7	925.2	925.2
35°	4412.1	3743.7	2390.1	1470.1	1097.8	969.9	916.4	899.8	891.0	890.1	892.8
37.5°	4700.4	3883.0	2256.0	1334.3	1017.2	912.9	871.7	858.6	853.3	857.7	861.2
40°	5063.1	4072.2	2134.2	1211.7	955.8	867.4	830.6	821.8	819.2	825.3	830.6
42.5°	5501.2	4328.0	2034.3	1123.2	908.5	828.8	795.5	785.0	782.4	789.4	796.4
45°	5975.1	4603.1	1964.3	1057.5	871.7	799.9	764.9	753.5	748.2	751.7	759.6
47.5°	6406.2	4863.3	1936.2	1011.0	836.7	775.4	737.7	723.7	714.9	713.2	719.3
50°	6769.8	5057.0	1949.4	983.0	808.7	748.2	711.4	695.6	682.5	674.6	679.0
52.5°	7034.4	5178.7	1961.6	970.7	786.8	718.4	682.5	667.6	650.1	636.9	636.9
55°	7226.2	5206.8	1934.5	961.1	770.1	686.0	650.1	636.1	618.5	603.6	601.9
57.5°	7301.6	5127.9	1833.7	947.1	758.7	655.3	615.9	605.4	590.5	573.0	572.1
60°	7200.0	4884.4	1639.2	917.3	743.8	629.9	581.7	574.7	567.7	551.1	550.2
62.5°	6791.7	4349.9	1387.8	856.8	714.0	602.8	550.2	553.7	554.6	543.2	541.4
65°	6051.4	3615.7	1142.5	778.0	669.4	570.4	517.8	534.4	544.1	542.3	539.7
67.5°	4975.5	2814.1	968.1	694.8	610.7	525.7	482.7	502.0	509.9	516.0	514.3
70°	3692.8	1984.4	800.8	607.2	539.7	473.1	437.2	446.8	441.6	448.6	451.2
72.5°	2058.9	1190.6	652.7	519.5	466.1	411.8	386.4	384.6	373.2	373.2	373.2
74°	1235.3	873.5	573.9	465.2	421.4	371.5	349.6	341.7	331.2	332.0	331.2
75°	993.5	750.8	526.5	429.3	389.9	347.8	325.9	315.4	307.5	307.5	306.6
77.5°	627.3	570.4	424.0	341.7	311.9	286.5	271.6	257.6	257.6	256.7	255.8
80°	474.0	453.8	330.3	258.5	239.2	219.9	210.3	204.1	204.1	206.8	205.9
82.5°	325.0	341.7	232.2	180.5	170.8	156.8	155.1	155.9	153.3	149.8	148.9
85°	237.4	256.7	156.8	113.9	104.3	95.5	102.5	106.0	101.6	93.7	90.2
87.5°	91.1	168.2	84.1	47.3	43.8	37.7	43.8	45.6	49.1	38.5	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)