

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: P318004

Luminaire Tested: **GAN-SA0B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46421 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

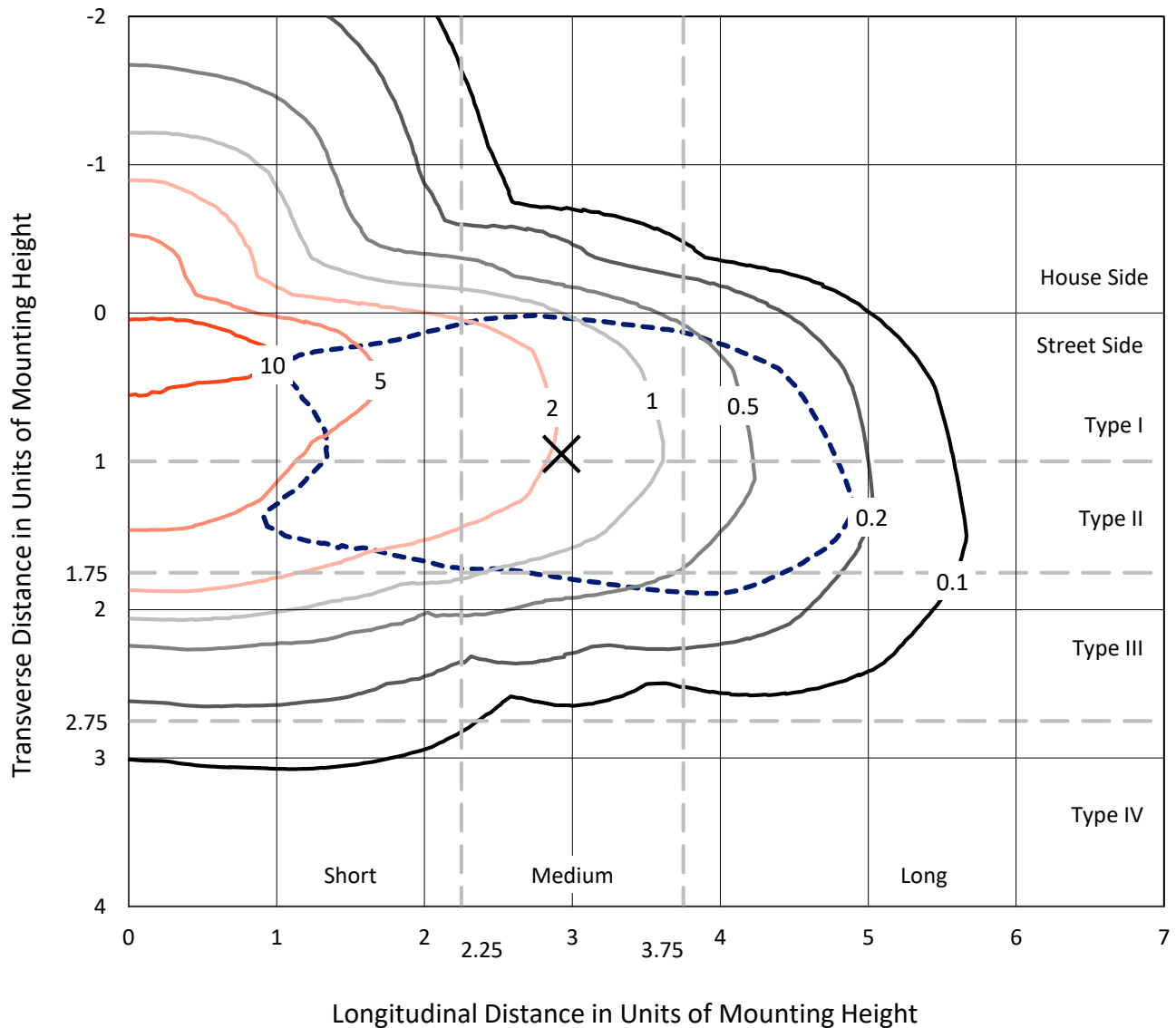
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

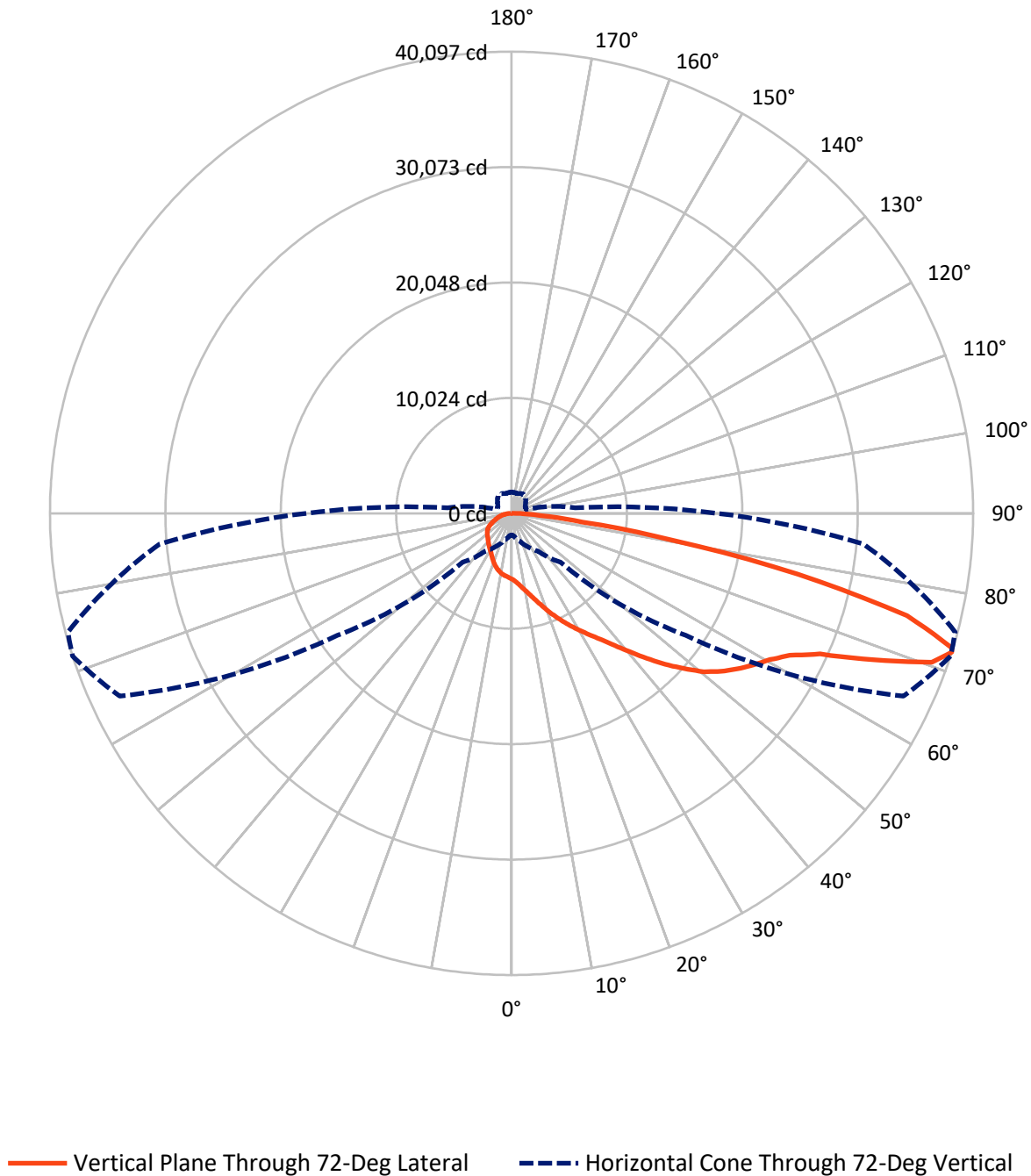
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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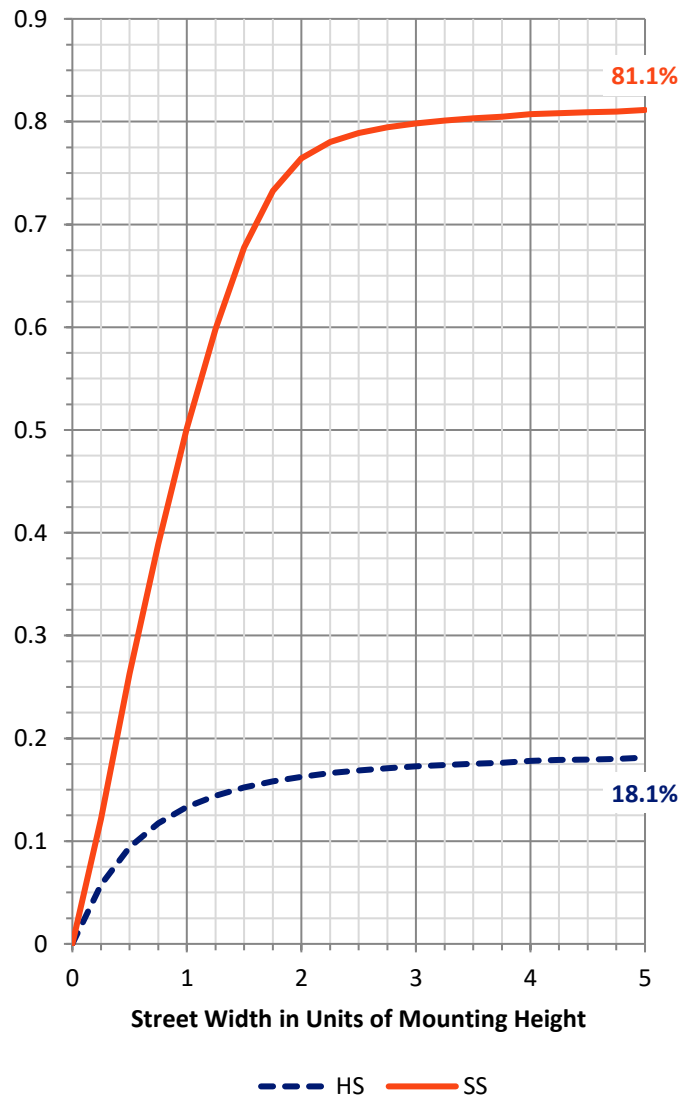
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8611.4	0.0	8611.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	37809.6	0.0	37809.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	46421.0	0.0	46421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.3	1.2
10°-20°	1849.3	4.0
20°-30°	3240.5	7.0
30°-40°	4804.6	10.4
40°-50°	7027.2	15.1
50°-60°	9669.3	20.8
60°-70°	10764.8	23.2
70°-80°	7294.2	15.7
80°-90°	1198.9	2.6
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°	46421.0	100.0
0°-180°	46421.0	100.0

Coefficient of Utilization



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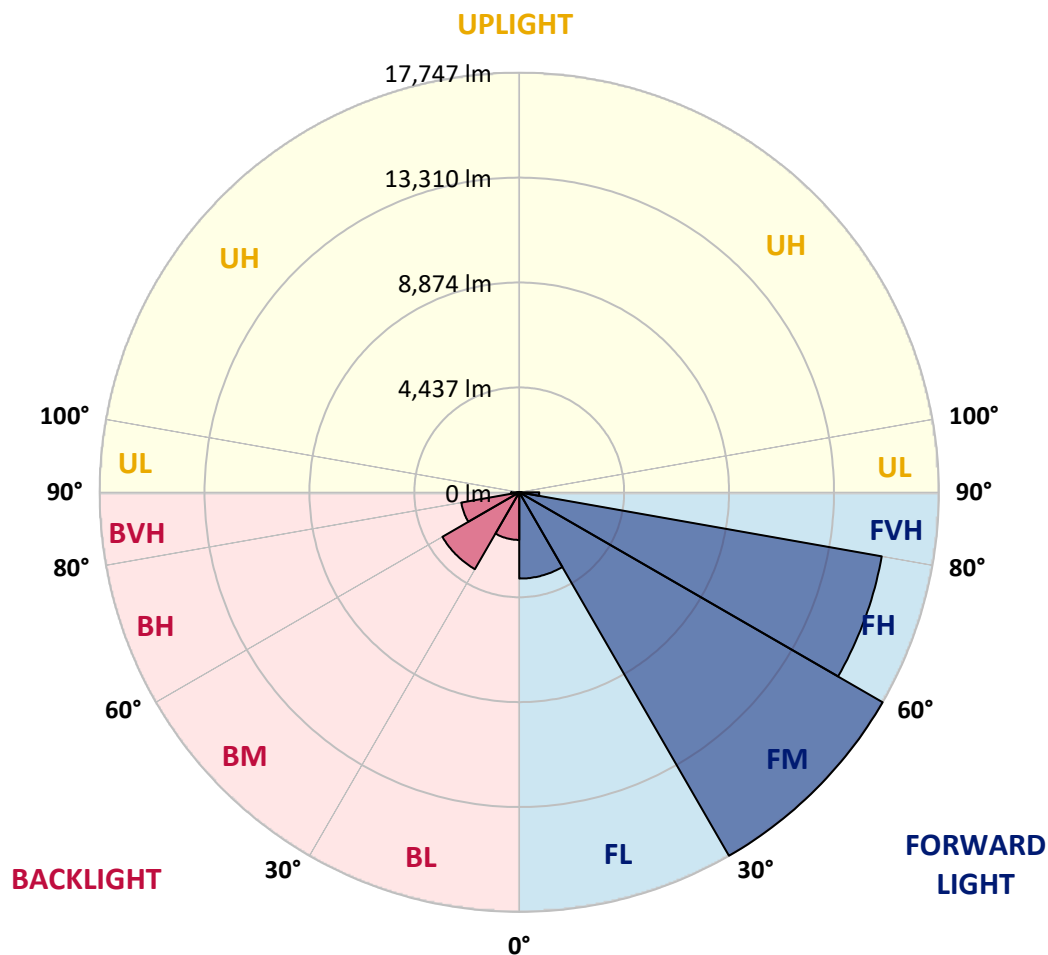
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3649.0	7.9			
FM	(30°-60°)	17747.3	38.2			
FH	(60°-80°)	15567.6	33.5			G5
FVH	(80°-90°)	845.7	1.8			G5
BL	(0°-30°)	2013.0	4.3	B3/2500		
BM	(30°-60°)	3753.8	8.1	B3/5000		
BH	(60°-80°)	2491.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	353.2	0.8			G3/500
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°	72°	75°	85°
0°	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0
2.5°	6308.8	6299.2	6265.6	6265.6	6201.7	6147.4	6045.1	5976.3	5894.8	5866.0	5770.1
5°	6919.4	6922.6	6881.0	6852.2	6757.9	6642.8	6468.6	6310.4	6152.1	6088.2	5891.6
7.5°	7432.4	7426.1	7414.9	7390.9	7303.0	7184.7	6949.7	6714.8	6481.4	6385.5	6046.7
10°	7761.7	7776.1	7785.7	7796.9	7760.1	7675.4	7453.2	7167.1	6861.8	6730.8	6232.1
12.5°	7927.9	7953.5	7998.3	8075.0	8135.7	8126.1	7964.7	7661.0	7298.2	7133.5	6463.8
15°	8025.4	8059.0	8129.3	8266.8	8437.8	8535.3	8492.2	8217.2	7812.9	7609.9	6746.7
17.5°	8086.2	8113.4	8222.0	8405.9	8660.0	8918.9	9032.4	8802.3	8394.7	8162.9	7071.2
20°	8127.7	8148.5	8284.4	8500.2	8829.4	9241.8	9558.3	9500.7	9035.6	8735.1	7410.1
22.5°	8220.4	8238.0	8367.5	8584.9	8949.3	9481.6	10065.0	10151.3	9711.7	9371.3	7772.9
25°	8479.4	8479.4	8588.1	8739.9	9082.0	9689.3	10493.3	10875.3	10402.2	10005.8	8108.6
27.5°	8973.3	8968.5	9008.4	9061.2	9320.1	9900.3	10875.3	11514.7	11118.3	10685.1	8434.6
30°	9558.3	9590.3	9595.0	9569.5	9690.9	10164.1	11228.6	12189.2	11839.2	11372.4	8768.7
32.5°	10311.1	10331.9	10307.9	10223.2	10205.6	10538.1	11575.4	12895.7	12619.2	12090.1	9074.0
35°	11266.9	11227.0	11151.9	10979.2	10814.6	11038.4	11971.8	13602.2	13495.1	12958.0	9494.3
37.5°	12291.5	12293.1	12200.4	11808.8	11581.8	11677.7	12518.5	14403.0	14554.8	13990.6	10033.0
40°	13113.1	13156.2	13213.8	12699.1	12405.0	12537.7	13213.8	15331.6	15807.9	15214.9	10734.7
42.5°	13686.9	13736.4	13899.5	13576.6	13271.3	13517.5	14032.1	16322.6	17214.5	16627.9	11556.3
45°	14294.3	14321.4	14436.5	14297.5	14102.5	14657.1	14954.4	17348.8	18702.6	18133.6	12475.3
47.5°	14933.6	14962.4	15080.7	14988.0	14885.7	15721.6	15916.6	18315.8	20128.3	19787.9	13456.7
50°	15723.2	15742.4	15854.3	15686.5	15718.4	16524.0	16776.5	19202.9	21622.8	21274.4	14441.3
52.5°	16800.5	16805.3	16960.4	16808.5	16658.3	17112.2	17516.6	20038.8	22794.4	22629.8	15425.9
55°	17644.5	17695.6	18203.9	18171.9	18085.6	17646.1	18135.2	20834.8	23839.8	23918.1	16471.3
57.5°	17105.8	17305.6	18335.0	19060.6	19767.1	18974.3	18971.1	21731.5	24811.6	25182.4	17620.5
60°	14981.6	15253.3	16770.2	18379.7	20590.3	21285.6	20706.9	22826.4	25793.0	26435.5	19060.6
62.5°	10699.5	11147.1	13202.6	15772.8	19461.8	22816.8	24239.4	24563.8	27127.6	27886.8	20932.3
65°	5408.9	5747.8	7470.8	10566.9	15549.0	21816.2	28078.7	28368.0	29446.9	30121.4	23814.2
67.5°	3286.3	3414.1	4254.9	5877.2	9532.7	16993.9	29331.8	34708.7	33935.1	34293.1	27923.6
70°	2421.5	2515.8	3040.1	3903.2	5482.4	9972.3	25486.1	39233.7	38725.4	38685.5	30960.5
72°	1886.1	1954.8	2418.3	3153.6	4008.7	5982.7	18472.4	37563.4	40096.8	39895.4	30682.4
72.5°	1788.6	1849.3	2271.3	2968.2	3788.1	5423.3	16608.7	36436.6	39997.7	39906.6	30322.8
75°	1408.2	1451.3	1681.5	2295.3	2965.0	3076.9	9101.1	28236.9	35482.3	36957.6	27273.1
77.5°	1165.2	1171.6	1293.1	1670.3	2311.3	2175.4	4470.7	19591.3	25407.8	27030.1	19319.6
80°	949.4	957.4	1015.0	1171.6	1748.6	1609.6	2122.6	11265.3	14225.5	14243.1	9187.5
82.5°	756.0	757.6	821.6	856.7	1256.3	1150.8	1216.4	5289.0	6216.1	5979.5	3302.2
85°	532.3	521.1	802.4	703.3	821.6	738.4	671.3	2093.9	2570.2	2458.3	1034.1
87.5°	177.4	183.8	356.4	455.5	479.5	418.8	298.9	802.4	970.2	962.2	327.7
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°	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0	5711.0
2.5°	5739.8	5688.6	5613.5	5530.4	5464.8	5397.7	5348.2	5322.6	5293.8	5269.8	5298.6
5°	5800.5	5704.6	5544.8	5388.1	5273.0	5170.7	5097.2	5058.9	5023.7	4999.7	5002.9
7.5°	5899.6	5744.6	5476.0	5247.5	5087.6	4977.3	4902.2	4876.6	4854.3	4847.9	4855.9
10°	6005.1	5776.5	5384.9	5081.2	4899.0	4807.9	4774.3	4791.9	4807.9	4822.3	4838.3
12.5°	6125.0	5805.3	5252.3	4886.2	4731.2	4696.0	4729.6	4806.3	4862.3	4895.8	4916.6
15°	6281.6	5830.9	5098.8	4691.2	4587.3	4627.3	4740.8	4873.4	4970.9	5033.3	5042.9
17.5°	6425.5	5829.3	4902.2	4494.6	4470.7	4587.3	4758.4	4945.4	5076.4	5164.3	5181.9
20°	6574.1	5786.1	4673.6	4302.8	4352.4	4544.2	4766.4	4991.7	5150.0	5252.3	5276.2
22.5°	6713.2	5711.0	4422.7	4128.6	4253.3	4486.6	4736.0	4964.6	5122.8	5205.9	5231.5
25°	6807.5	5579.9	4168.6	3981.6	4165.4	4416.3	4636.9	4820.7	4939.0	4980.5	4986.9
27.5°	6855.4	5408.9	3928.8	3853.7	4074.3	4301.2	4453.1	4544.2	4577.7	4574.5	4568.2
30°	6861.8	5183.5	3722.6	3749.8	3968.8	4131.8	4203.7	4186.1	4143.0	4069.5	4075.9
32.5°	6841.0	4929.4	3550.0	3650.7	3834.5	3925.6	3928.8	3844.1	3729.0	3612.3	3580.4
35°	6847.4	4680.0	3398.1	3538.8	3671.5	3711.4	3674.7	3550.0	3393.4	3243.1	3211.1
37.5°	6917.8	4462.7	3267.1	3409.3	3490.9	3500.4	3447.7	3316.6	3201.5	3054.5	3041.7
40°	7085.6	4307.6	3142.4	3263.9	3310.2	3315.0	3239.9	3147.2	3156.8	3078.5	3076.9
42.5°	7387.7	4240.5	3032.1	3112.0	3140.8	3150.4	3092.9	3033.7	3116.8	3065.7	3048.1
45°	7777.7	4256.5	2939.4	2963.4	3016.1	3060.9	3025.7	2953.8	2985.8	2763.6	2690.1
47.5°	8228.4	4358.8	2865.9	2835.5	2926.6	3011.3	2957.0	2848.3	2734.8	2514.2	2472.7
50°	8755.9	4517.0	2798.8	2709.2	2829.1	2944.2	2889.9	2734.8	2563.8	2456.7	2442.3
52.5°	9305.7	4710.4	2731.6	2570.2	2706.0	2893.1	2865.9	2709.2	2498.3	2392.8	2373.6
55°	9929.1	4905.4	2646.9	2408.8	2573.4	2869.1	2854.7	2616.5	2448.7	2389.6	2375.2
57.5°	10704.3	5127.6	2535.0	2240.9	2448.7	2782.8	2738.0	2560.6	2397.6	2352.8	2348.0
60°	11714.5	5455.3	2373.6	2061.9	2296.9	2650.1	2640.5	2479.1	2316.0	2284.1	2277.7
62.5°	13229.8	5997.1	2151.4	1882.9	2127.4	2424.7	2512.6	2368.8	2229.7	2228.1	2231.3
65°	15579.4	6812.3	1910.1	1726.2	1956.4	2234.5	2364.0	2255.3	2141.8	2173.8	2178.6
67.5°	18303.0	7488.4	1673.5	1572.8	1782.2	2053.9	2229.7	2141.8	2025.1	2108.3	2109.9
70°	19209.3	6884.2	1465.7	1421.0	1601.6	1879.7	2084.3	2017.1	1898.9	1982.0	1974.0
72°	17876.2	5557.6	1331.4	1305.9	1465.7	1735.8	1954.8	1900.5	1783.8	1839.7	1819.0
72.5°	17455.9	5298.6	1297.9	1277.1	1428.9	1699.1	1921.2	1871.7	1755.0	1803.0	1783.8
75°	15571.4	4601.7	1115.7	1120.5	1246.7	1520.1	1732.6	1716.7	1596.8	1601.6	1595.2
77.5°	11294.1	3374.2	939.8	971.8	1061.3	1336.2	1542.4	1532.8	1401.8	1377.8	1373.0
80°	5241.1	1721.4	765.6	780.0	872.7	1117.3	1315.5	1302.7	1197.2	1166.8	1149.2
82.5°	1795.0	818.4	575.4	585.0	676.1	899.9	1141.2	1133.2	1045.3	986.2	949.4
85°	640.9	407.6	402.8	393.2	482.7	708.1	994.2	951.0	821.6	700.1	696.9
87.5°	207.8	174.2	207.8	206.2	281.3	479.5	722.5	615.4	596.2	495.5	485.9
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)