

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: P317381

Luminaire Tested: **GAN-SA7D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47815 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

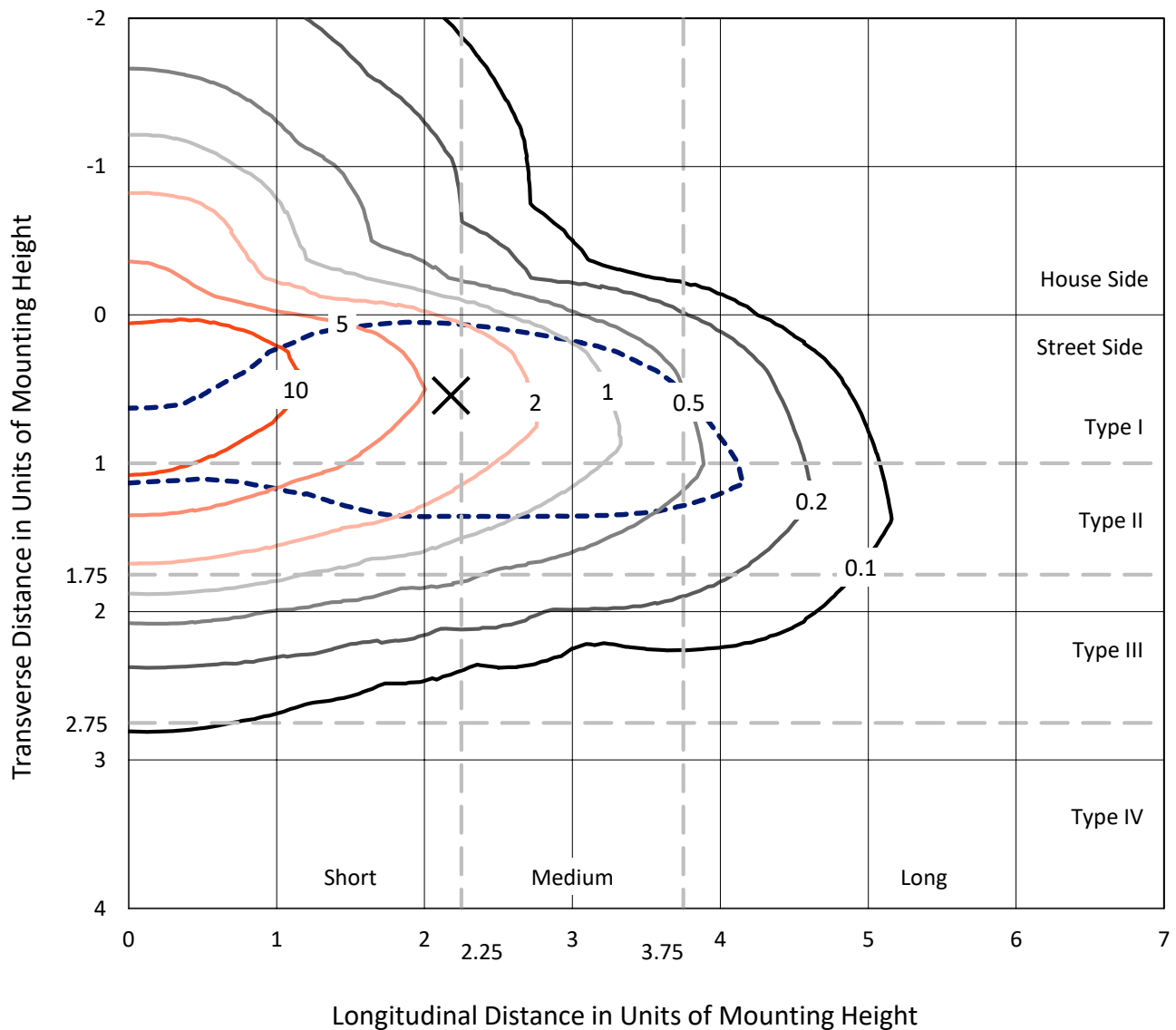


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Iso-Footcandle Lines of Horizontal Illumination

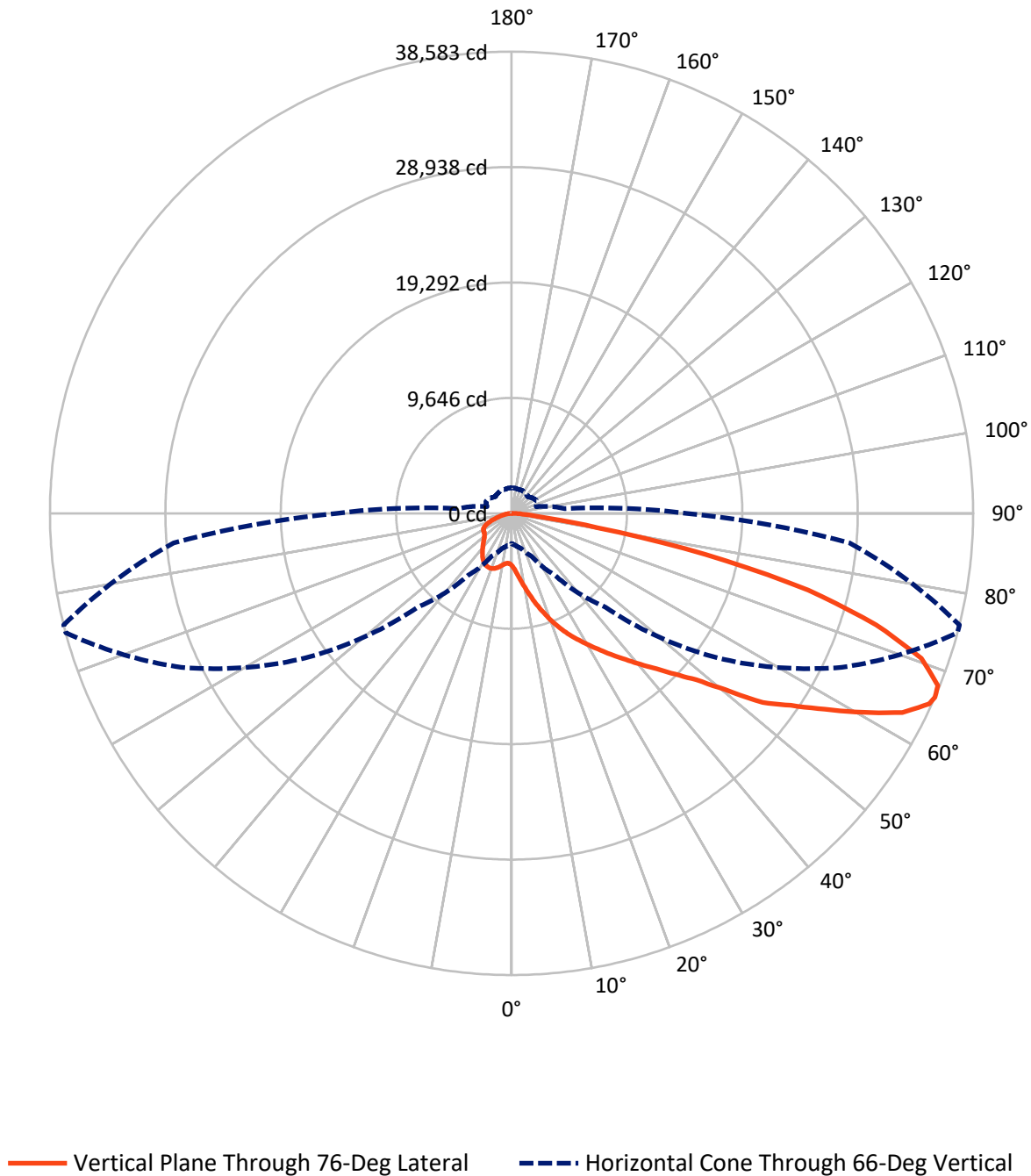
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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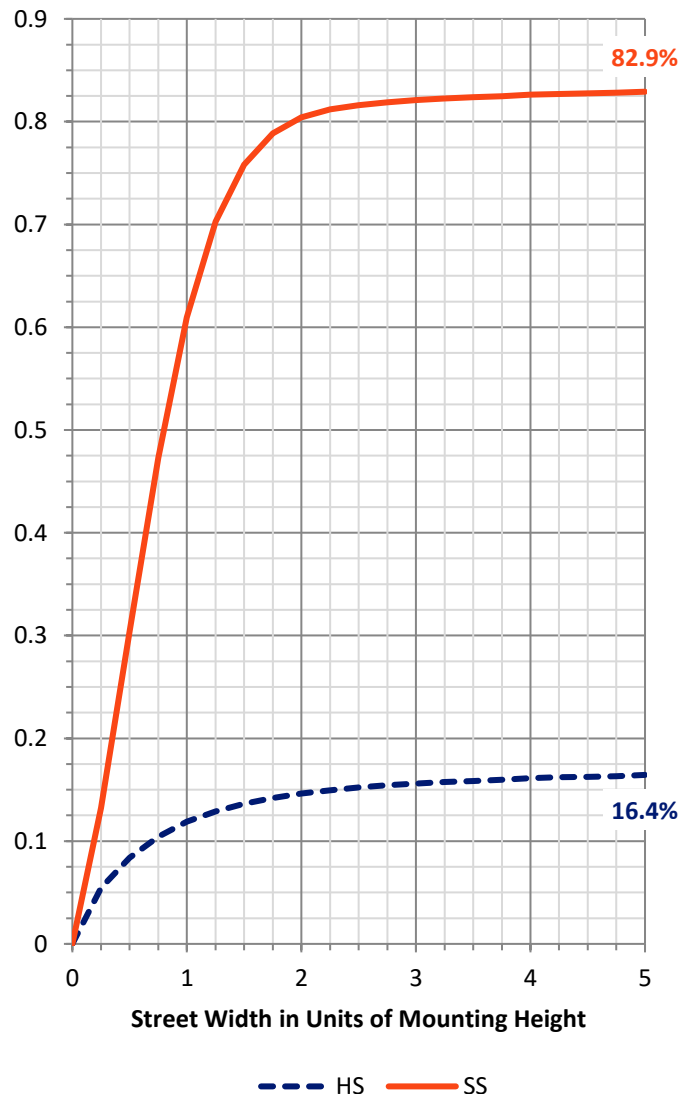
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8045.6	0.0	8045.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	39769.4	0.0	39769.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	47815.0	0.0	47815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.0	1.1
10°-20°	2085.2	4.4
20°-30°	4052.0	8.5
30°-40°	6613.8	13.8
40°-50°	9036.1	18.9
50°-60°	10525.2	22.0
60°-70°	9436.0	19.7
70°-80°	4768.6	10.0
80°-90°	770.1	1.6
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°	47815.0	100.0
0°-180°	47815.0	100.0

Coefficient of Utilization



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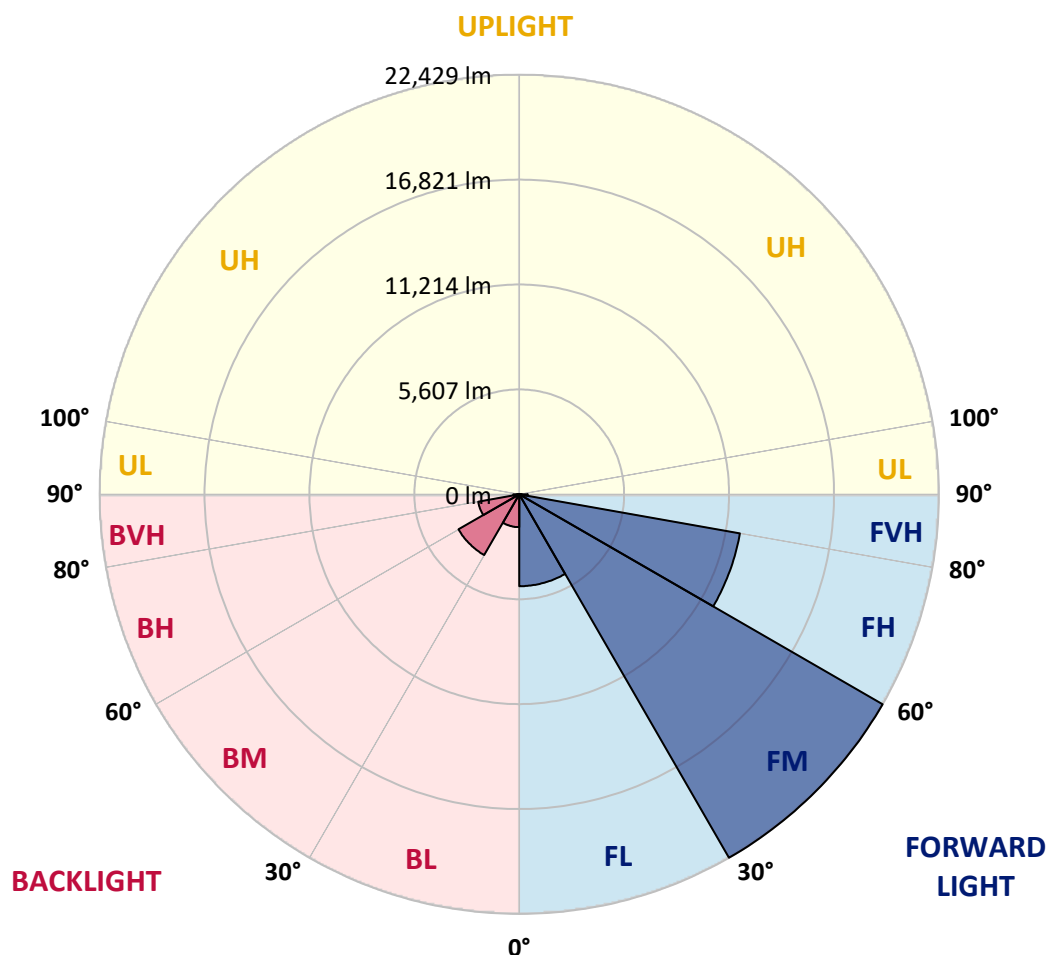
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4910.5	10.3			
FM	(30°-60°)	22428.6	46.9			
FH	(60°-80°)	11975.6	25.0			G4/12000
FVH	(80°-90°)	454.8	1.0			G3/500
BL	(0°-30°)	1754.8	3.7	B3/2500		
BM	(30°-60°)	3746.5	7.8	B3/5000		
BH	(60°-80°)	2229.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	315.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6
2.5°	5796.7	5709.0	5700.9	5572.7	5543.5	5298.3	5118.2	4929.9	4715.6	4673.4	4504.6
5°	7445.9	7437.8	7325.8	7116.4	6952.5	6533.6	6119.7	5681.4	5200.9	5123.0	4743.2
7.5°	8929.6	8916.6	8830.6	8604.9	8367.9	7853.4	7262.5	6590.5	5811.3	5696.0	5066.2
10°	10056.1	10051.3	10022.0	9856.5	9655.2	9161.7	8509.2	7592.0	6520.7	6363.2	5470.4
12.5°	10926.2	10935.9	10955.4	10897.0	10801.2	10380.8	9712.0	8653.6	7277.1	7121.3	5920.1
15°	11515.5	11544.7	11645.3	11728.1	11778.4	11520.3	10872.6	9739.6	8124.5	7937.8	6418.4
17.5°	11812.5	11845.0	12018.7	12268.7	12499.2	12473.2	11958.6	10775.2	8937.7	8757.5	6954.1
20°	12069.0	12093.3	12288.1	12588.4	12995.9	13176.1	12887.1	11771.9	9828.9	9614.6	7522.2
22.5°	12812.4	12843.3	12901.7	13072.2	13432.5	13763.7	13624.1	12715.0	10645.4	10445.7	8061.1
25°	14247.4	14284.7	14158.1	14013.7	14081.8	14312.3	14338.3	13575.4	11473.3	11247.6	8640.6
27.5°	15976.2	16029.8	15813.9	15442.1	15117.5	15028.2	14997.4	14279.9	12263.8	12002.4	9213.7
30°	17669.3	17761.8	17481.0	16998.9	16403.1	15984.3	15674.3	14969.8	13042.9	12793.0	9754.2
32.5°	19323.4	19286.0	18878.6	18407.8	17709.8	17185.5	16435.6	15710.0	13919.5	13632.2	10291.5
35°	20456.4	20469.4	20091.2	19532.8	18867.2	18464.7	17455.0	16508.6	14813.9	14549.3	10901.9
37.5°	21420.6	21360.6	20932.0	20411.0	19837.9	19665.9	18648.1	17388.4	15783.0	15494.1	11551.2
40°	21742.0	21672.2	21391.4	21016.4	20557.1	20542.4	19964.6	18385.1	16878.7	16593.0	12283.3
42.5°	21547.2	21458.0	21342.7	21240.4	21099.2	21164.2	21201.5	19553.9	18083.2	17763.4	13130.6
45°	20828.1	20693.4	20774.6	20997.0	21303.8	21670.6	22318.3	20847.6	19432.1	19164.3	14125.7
47.5°	19722.7	19600.9	19854.2	20329.8	21164.2	22092.7	23375.0	22276.1	21042.4	20776.2	15542.8
50°	18167.6	18203.3	18565.3	19430.5	20691.8	22287.5	24676.9	24167.2	23383.2	23134.8	17476.1
52.5°	15615.8	15622.3	16641.7	18062.1	19854.2	22186.8	25399.3	26584.2	26579.4	26279.1	19316.9
55°	13245.9	13390.3	14197.1	16085.0	18497.1	21784.2	25904.1	27759.5	28678.3	28326.0	21032.7
57.5°	10931.1	11015.5	11780.0	13676.0	16560.6	20711.3	26421.9	29170.1	31096.9	30874.5	23165.6
60°	8298.1	8428.0	9218.5	10970.0	14083.5	18807.2	26470.6	30642.4	33988.0	33764.0	25547.0
62.5°	5386.0	5610.0	6350.2	7991.3	11086.9	16068.7	25340.8	31605.0	36728.0	36648.5	27660.5
65°	3095.6	3264.4	3779.0	5045.1	7648.8	12630.6	22654.3	31234.9	38414.6	38369.2	28451.0
66°	2529.0	2634.6	3029.0	3942.9	6311.3	11091.8	21092.7	30454.1	38581.8	38583.4	28360.1
67.5°	2022.6	2069.7	2246.6	2822.9	4657.2	8791.6	18302.3	28731.8	38374.0	38430.8	27774.1
70°	1673.6	1697.9	1753.1	1892.7	2542.0	5301.6	12991.0	24256.5	36288.1	36332.0	25486.9
72.5°	1501.5	1516.1	1537.2	1556.7	1793.7	2962.5	7934.5	19404.5	31816.0	31872.8	22001.8
75°	1360.3	1368.4	1365.2	1366.8	1504.8	1887.9	4100.4	14487.7	25725.5	25611.9	16854.4
77.5°	1194.7	1202.8	1186.6	1189.9	1331.1	1451.2	2040.4	10142.2	17360.8	16558.9	9496.1
80°	1009.7	1016.2	1009.7	1021.0	1159.0	1095.7	1186.6	5705.8	7676.4	7260.9	3376.4
82.5°	762.9	790.5	810.0	855.5	954.5	779.2	793.8	2222.3	2337.5	2225.5	1035.6
85°	334.4	407.4	610.3	654.2	717.5	467.5	521.1	905.8	951.2	922.0	376.6
87.5°	87.7	95.8	301.9	379.8	397.7	211.0	271.1	412.3	435.0	412.3	125.0
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°	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6	4366.6
2.5°	4415.3	4335.7	4192.9	4066.3	3970.5	3905.6	3840.6	3808.2	3788.7	3769.2	3772.5
5°	4556.5	4395.8	4150.7	3977.0	3879.6	3817.9	3785.5	3772.5	3764.4	3744.9	3744.9
7.5°	4769.2	4541.9	4204.3	4025.7	3949.4	3902.3	3882.9	3876.4	3866.6	3843.9	3847.1
10°	5037.0	4718.8	4316.3	4142.6	4072.8	4020.8	3993.2	3983.5	3965.6	3939.7	3942.9
12.5°	5351.9	4938.0	4464.0	4282.2	4197.8	4128.0	4082.5	4054.9	4024.1	3990.0	3991.6
15°	5696.0	5176.6	4623.1	4407.2	4291.9	4194.5	4121.5	4074.4	4025.7	3983.5	3981.9
17.5°	6045.0	5407.1	4744.8	4475.3	4319.5	4191.3	4092.3	4019.2	3959.1	3907.2	3902.3
20°	6421.6	5614.9	4813.0	4468.9	4267.6	4115.0	3983.5	3892.6	3826.0	3774.1	3766.0
22.5°	6804.7	5809.7	4824.3	4402.3	4152.3	3965.6	3827.7	3727.0	3658.8	3605.3	3585.8
25°	7155.4	5960.6	4777.3	4274.1	3991.6	3790.3	3655.6	3553.3	3498.1	3434.8	3415.4
27.5°	7475.1	6066.1	4683.1	4110.1	3811.4	3613.4	3486.8	3399.1	3339.1	3290.4	3274.1
30°	7762.5	6123.0	4528.9	3915.3	3626.4	3446.2	3339.1	3279.0	3227.1	3165.4	3154.0
32.5°	8035.2	6123.0	4330.9	3702.7	3442.9	3298.5	3235.2	3197.8	3139.4	3079.3	3063.1
35°	8307.9	6085.6	4097.1	3480.3	3274.1	3193.0	3189.7	3145.9	3056.6	2975.4	2954.3
37.5°	8595.2	6009.3	3834.2	3272.5	3136.2	3145.9	3173.5	3076.1	2949.5	2834.2	2803.4
40°	8919.9	5903.8	3561.4	3092.3	3020.9	3124.8	3129.7	2975.4	2728.7	2623.2	2595.6
42.5°	9301.3	5798.3	3308.2	2933.2	2930.0	3061.5	3046.9	2757.9	2610.2	2556.6	2542.0
45°	9802.9	5738.2	3068.0	2782.3	2858.6	2959.2	2905.6	2637.8	2576.1	2545.3	2532.3
47.5°	10593.4	5769.1	2847.2	2662.2	2787.1	2856.9	2642.7	2589.1	2545.3	2507.9	2495.0
50°	11583.6	5751.2	2668.7	2579.4	2706.0	2749.8	2524.2	2525.8	2503.1	2460.9	2441.4
52.5°	12328.7	5611.6	2553.4	2532.3	2634.6	2559.9	2449.5	2464.1	2452.8	2391.1	2370.0
55°	13047.8	5491.5	2495.0	2514.4	2582.6	2322.9	2361.9	2397.6	2386.2	2326.1	2316.4
57.5°	13942.2	5468.8	2459.2	2519.3	2538.8	2204.4	2277.4	2324.5	2316.4	2290.4	2285.6
60°	15037.9	5475.3	2426.8	2527.4	2490.1	2116.7	2197.9	2258.0	2262.8	2258.0	2254.7
62.5°	15640.2	5298.3	2345.6	2504.7	2404.1	2040.4	2115.1	2202.8	2204.4	2214.1	2212.5
65°	15128.8	4769.2	2194.7	2425.2	2259.6	1977.1	2043.7	2139.5	2115.1	2158.9	2158.9
66°	14632.1	4464.0	2120.0	2373.2	2197.9	1952.8	2021.0	2107.0	2076.2	2136.2	2136.2
67.5°	13617.6	3949.4	1985.3	2262.8	2110.2	1918.7	1995.0	2053.4	2011.2	2100.5	2094.0
70°	11763.8	3055.0	1714.2	2012.9	1965.8	1868.4	1959.3	1946.3	1884.6	2021.0	1995.0
72.5°	9918.2	2321.3	1376.5	1685.0	1746.6	1805.1	1909.0	1809.9	1732.0	1827.8	1771.0
75°	7695.9	1745.0	1087.6	1310.0	1475.5	1706.1	1848.9	1652.5	1540.5	1530.7	1499.9
77.5°	4160.4	1198.0	862.0	999.9	1172.0	1582.7	1808.3	1483.7	1314.8	1275.9	1251.5
80°	1647.6	779.2	626.6	758.1	819.7	1404.1	1710.9	1287.3	1084.3	1045.4	1008.0
82.5°	680.1	461.0	404.2	508.1	534.1	1201.2	1535.6	1055.1	837.6	1159.0	1230.4
85°	292.2	253.2	240.2	263.0	301.9	842.5	1222.3	805.1	904.2	806.8	641.2
87.5°	87.7	107.1	102.3	100.6	110.4	201.3	650.9	448.0	663.9	251.6	188.3
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)