

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: P318662

Luminaire Tested: **GAN-SA8D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52316 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

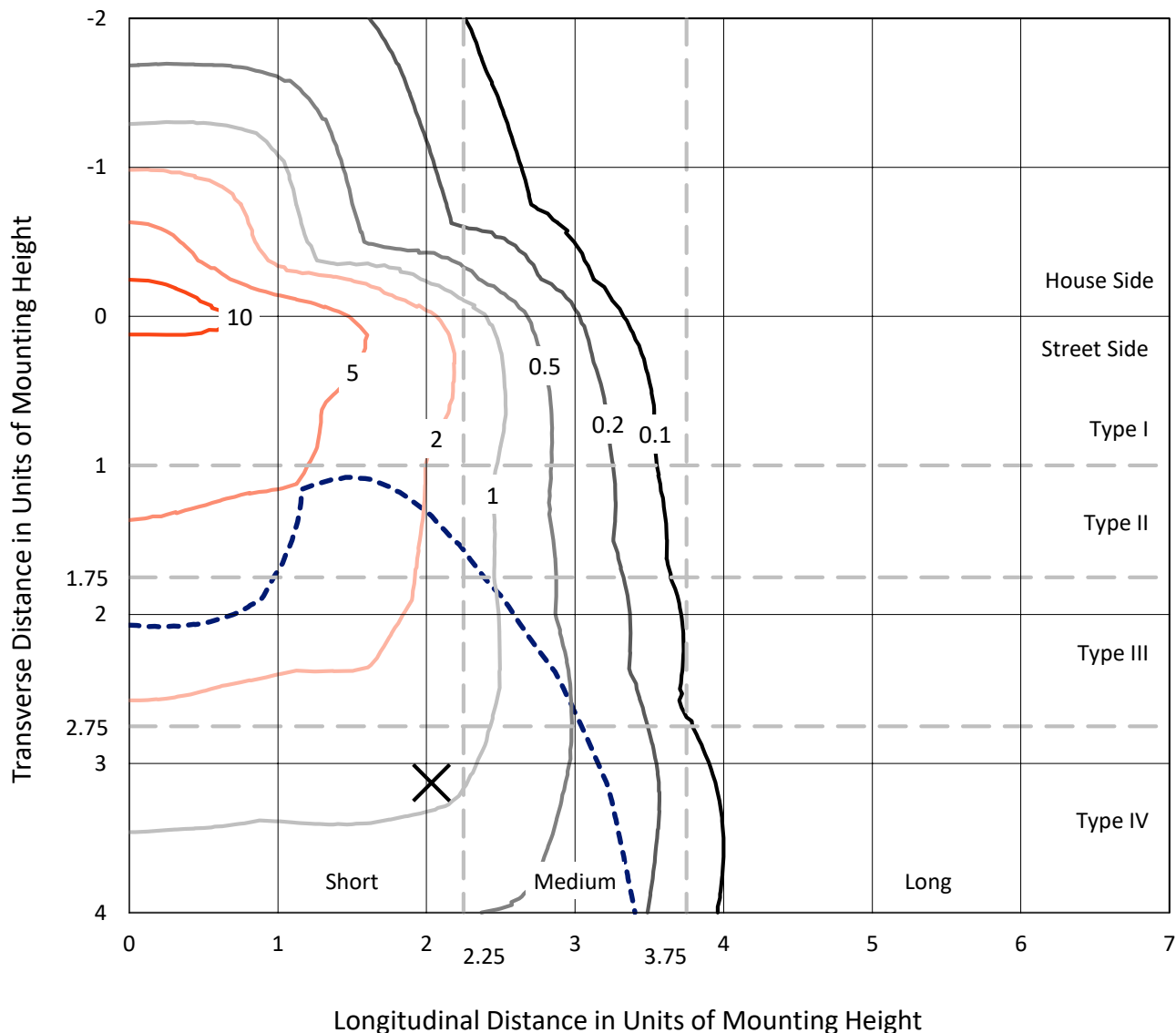
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

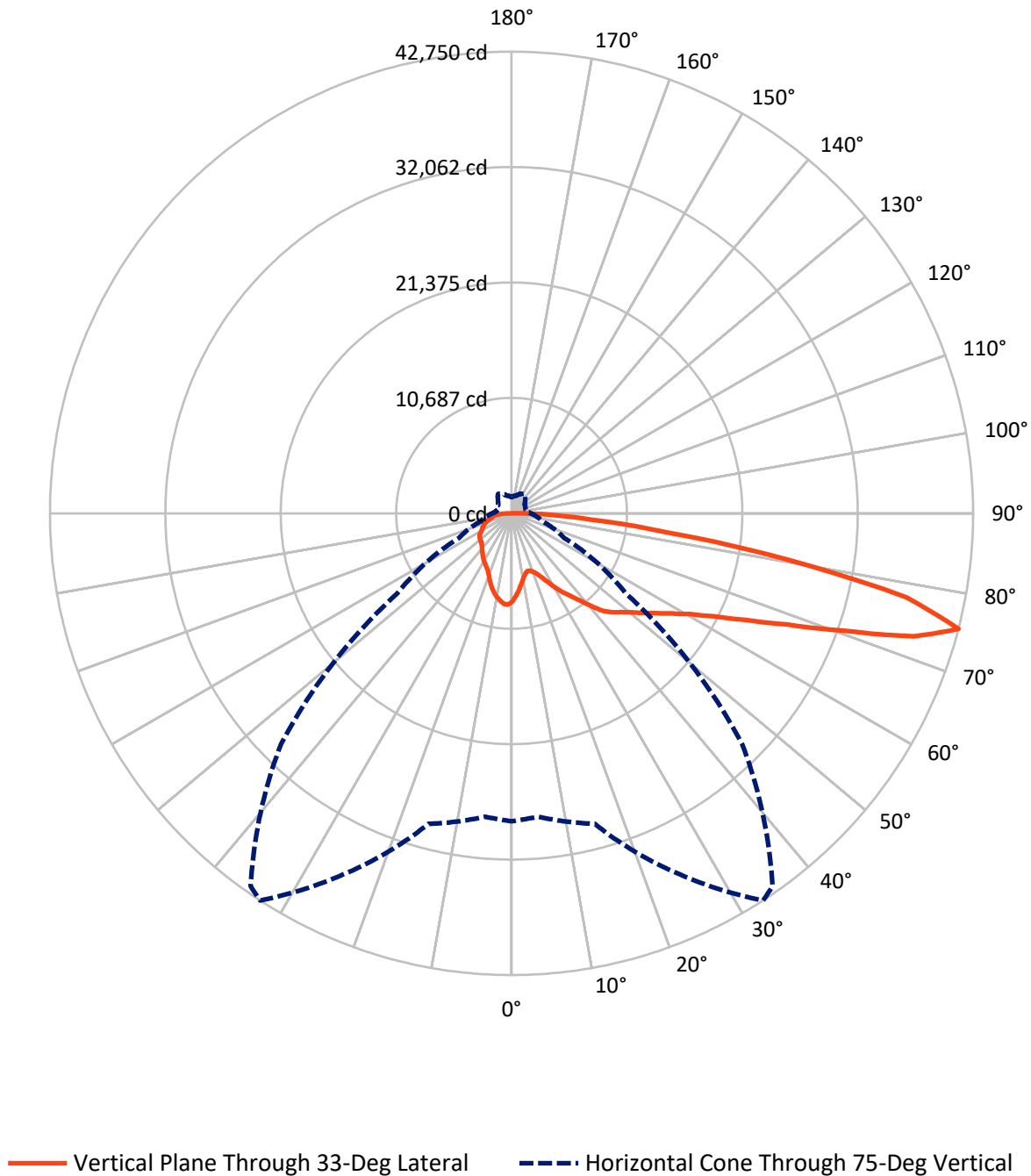
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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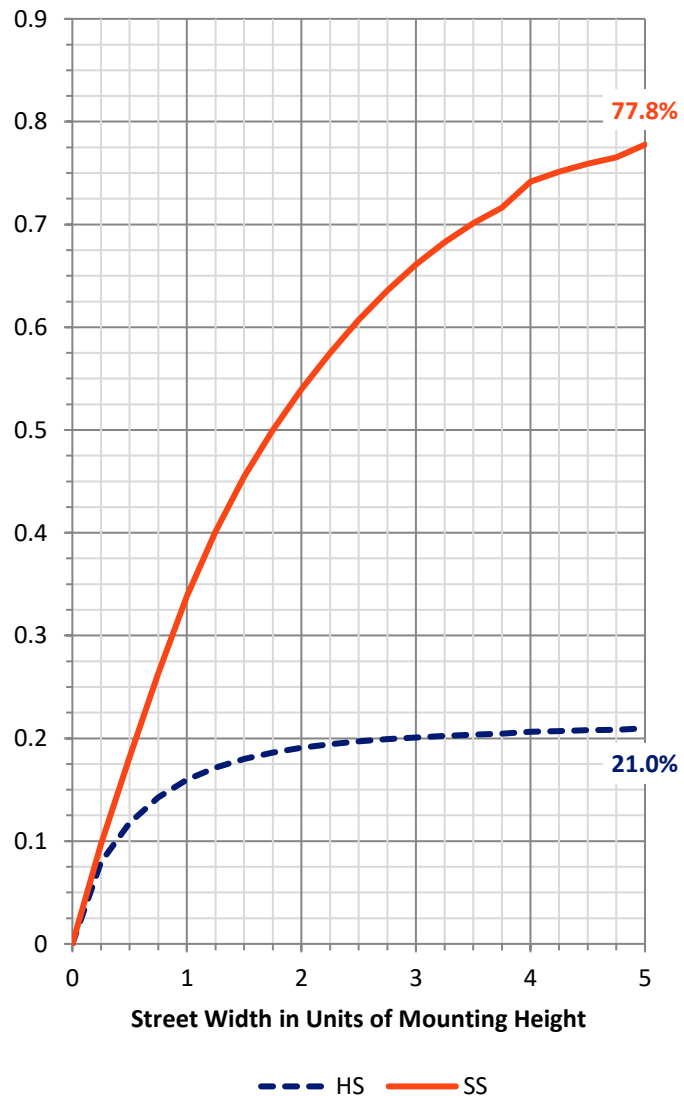
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11233.6	0.0	11233.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	41082.4	0.0	41082.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	52316.0	0.0	52316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.5	1.4
10°-20°	2003.0	3.8
20°-30°	3271.1	6.3
30°-40°	4871.5	9.3
40°-50°	6987.0	13.4
50°-60°	9592.1	18.3
60°-70°	12008.9	23.0
70°-80°	10863.9	20.8
80°-90°	1978.9	3.8
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°	52316.0	100.0
0°-180°	52316.0	100.0

Coefficient of Utilization



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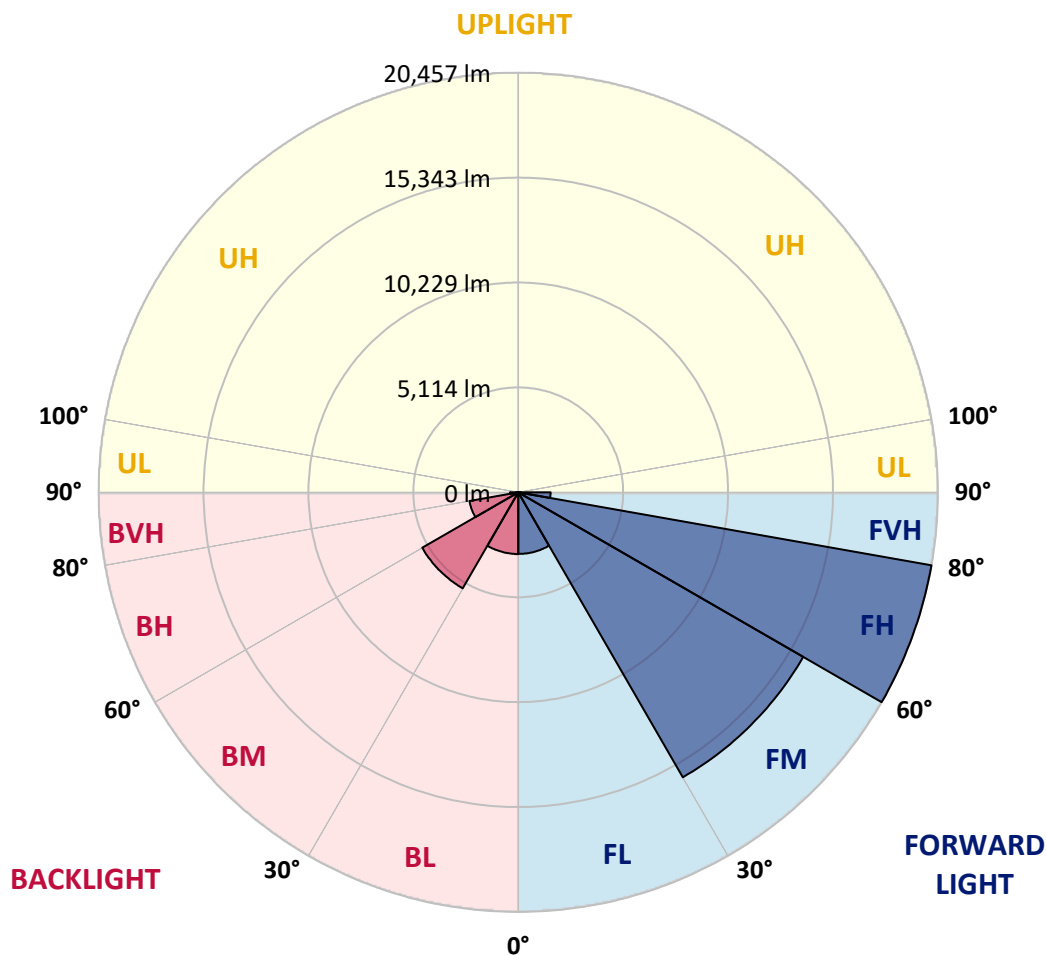
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3004.8	5.7			
FM	(30°-60°)	16044.2	30.7			
FH	(60°-80°)	20457.4	39.1			G5
FVH	(80°-90°)	1576.0	3.0			G5
BL	(0°-30°)	3008.9	5.8	B4/5000		
BM	(30°-60°)	5406.4	10.3	B4/8500		
BH	(60°-80°)	2415.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	402.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3
2.5°	7593.6	7564.7	7618.9	7626.1	7673.1	7691.2	7756.2	7857.4	7940.5	8036.3	8123.1
5°	6905.1	6885.2	6961.1	7015.3	7118.3	7161.7	7315.3	7530.3	7721.9	7938.7	8135.7
7.5°	6250.9	6240.0	6325.0	6447.9	6567.1	6626.8	6892.4	7205.0	7524.9	7875.5	8177.3
10°	5699.7	5696.1	5777.4	5898.5	6073.8	6140.6	6484.0	6896.0	7344.2	7826.7	8247.8
12.5°	5390.7	5403.3	5441.3	5542.5	5705.1	5772.0	6153.3	6637.6	7192.4	7810.4	8350.8
15°	5466.6	5486.5	5421.4	5417.8	5533.4	5585.9	5943.7	6453.3	7084.0	7837.5	8500.8
17.5°	5790.1	5793.7	5622.0	5513.6	5584.0	5611.2	5878.6	6348.5	7020.7	7899.0	8688.7
20°	6245.5	6236.4	5932.8	5752.1	5790.1	5797.3	5970.8	6350.3	7015.3	8005.6	8932.7
22.5°	6849.0	6782.2	6373.8	6128.0	6119.0	6108.1	6207.5	6484.0	7094.8	8179.1	9223.6
25°	7637.0	7573.7	7011.7	6675.6	6603.3	6576.2	6590.6	6769.5	7252.0	8365.2	9548.9
27.5°	8513.4	8403.2	7861.0	7385.8	7235.8	7197.8	7111.1	7172.5	7423.7	8544.1	9935.6
30°	9247.1	9187.5	8714.0	8150.2	7973.1	7918.9	7691.2	7624.3	7671.3	8788.1	10423.6
32.5°	9657.3	9617.6	9330.2	8874.8	8710.4	8634.5	8312.8	8179.1	8068.9	9173.0	11085.0
35°	10154.3	10129.0	9955.5	9624.8	9380.8	9301.3	9051.9	8912.8	8629.1	9702.5	11939.7
37.5°	10786.8	10759.7	10763.3	10495.8	10204.9	10130.8	9966.3	9820.0	9355.5	10398.3	12868.6
40°	11502.4	11450.0	11430.1	11417.5	11233.1	11191.6	11104.8	10906.1	10266.3	11229.5	13784.8
42.5°	12579.5	12393.3	11995.8	12145.8	12328.3	12306.6	12377.1	12091.5	11278.3	12212.6	14679.4
45°	13618.6	13313.2	12626.4	12659.0	13058.4	13179.4	13707.1	13504.7	12375.3	13289.7	15604.6
47.5°	14092.0	13860.7	13277.0	13278.8	13674.6	13925.8	15082.3	14937.8	13528.2	14513.1	16734.1
50°	14621.5	14390.2	13866.1	14063.1	14408.3	14675.7	16410.6	16336.5	14625.1	15852.2	18087.6
52.5°	15199.8	14807.7	14475.1	14827.5	15311.9	15622.7	17740.6	17538.2	15631.7	17200.3	19643.6
55°	15207.0	15100.4	15353.4	15611.8	16336.5	16717.8	19133.9	18599.0	16452.2	18524.9	20910.4
57.5°	16072.7	15899.2	16435.9	16555.2	17502.1	17932.2	20520.0	19522.5	17287.0	19540.5	21593.5
60°	17218.4	17070.2	17509.3	17823.8	18944.2	19518.9	22000.1	20471.2	17943.0	20306.8	21560.9
62.5°	19197.2	19029.1	19023.7	19464.6	20973.6	21642.2	23660.8	21401.9	18203.3	20458.6	20641.1
65°	22094.0	21826.6	21322.4	21532.0	23776.5	24443.3	25516.7	22076.0	17859.9	19645.4	18271.9
67.5°	24913.2	24904.1	24284.3	24714.4	27477.5	28012.4	27631.1	22142.8	16788.3	16813.6	14068.5
70°	27723.3	27759.4	27654.6	29150.9	32477.8	33034.4	29882.8	21244.7	14379.4	12142.1	8428.5
72.5°	29949.6	29940.6	30468.3	34326.5	38967.2	38842.6	31780.3	18523.1	10324.2	6554.5	4028.1
75°	28507.5	28193.1	29765.3	36889.0	42749.6	42140.6	30166.5	12921.0	5358.2	2983.6	2168.6
77.5°	18593.6	18891.8	21199.5	30473.7	37393.2	36652.3	22132.0	6028.6	2524.6	1957.1	1572.2
80°	6733.4	7047.8	9926.6	17261.7	25762.5	25641.4	10898.8	2477.6	1707.7	1478.2	1145.7
82.5°	2316.7	2432.4	3916.1	7665.9	14545.6	15087.8	4100.4	1407.8	1241.5	1048.1	784.3
85°	909.0	1040.9	1790.9	3688.4	7337.0	7391.2	1660.8	842.1	863.8	686.7	430.1
87.5°	345.2	419.3	856.6	1713.2	3350.4	3077.6	594.5	401.2	491.5	408.4	204.2
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°	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3	8177.3
2.5°	8189.9	8227.9	8307.4	8361.6	8419.4	8435.7	8442.9	8457.4	8471.8	8466.4	8468.2
5°	8240.5	8314.6	8442.9	8497.1	8522.4	8493.5	8437.5	8392.3	8359.8	8341.7	8336.3
7.5°	8323.7	8428.5	8565.8	8556.8	8499.0	8370.6	8226.1	8117.6	8027.3	7994.8	7976.7
10°	8433.9	8556.8	8652.6	8549.6	8381.5	8159.2	7942.4	7774.3	7638.8	7586.4	7577.3
12.5°	8574.9	8699.5	8717.6	8499.0	8220.7	7917.1	7622.5	7400.2	7197.8	7132.8	7118.3
15°	8757.4	8874.8	8762.8	8410.4	8021.9	7613.5	7232.2	6930.4	6717.1	6637.6	6608.7
17.5°	8948.9	9061.0	8771.8	8264.0	7761.6	7253.8	6774.9	6465.9	6222.0	6129.8	6119.0
20°	9178.4	9229.0	8733.9	8054.4	7403.8	6787.6	6283.4	5992.5	5862.3	5797.3	5790.1
22.5°	9462.2	9407.9	8647.1	7770.7	6950.2	6249.1	5838.9	5703.3	5670.8	5656.3	5661.8
25°	9762.1	9595.9	8518.8	7400.2	6377.4	5710.5	5513.6	5551.5	5594.9	5589.5	5589.5
27.5°	10092.8	9787.4	8321.9	6908.7	5743.1	5269.6	5293.1	5432.2	5497.3	5495.5	5493.7
30°	10517.5	10004.3	8070.7	6317.7	5150.3	4958.8	5101.5	5271.4	5360.0	5356.3	5358.2
32.5°	11039.8	10242.8	7729.1	5658.1	4722.0	4729.3	4893.7	5061.8	5164.8	5155.8	5157.6
35°	11650.6	10510.3	7266.5	5007.6	4438.3	4546.8	4676.9	4794.3	4891.9	4879.3	4866.6
37.5°	12315.6	10772.3	6652.1	4425.7	4207.0	4376.9	4485.3	4505.2	4550.4	4517.8	4494.3
40°	12948.1	10972.9	5860.5	3948.6	3973.9	4232.3	4302.8	4223.3	4142.0	4131.1	4098.6
42.5°	13499.3	11039.8	5060.0	3567.3	3728.1	4080.5	4123.9	3957.6	3811.2	3742.6	3713.7
45°	14081.2	11063.3	4313.6	3247.4	3491.4	3945.0	3992.0	3769.7	3563.7	3415.5	3366.7
47.5°	14842.0	11233.1	3733.5	3010.7	3310.7	3854.6	3921.5	3619.7	3352.2	3140.8	3095.6
50°	15837.7	11569.3	3261.9	2830.0	3193.2	3795.0	3870.9	3473.3	3178.7	2923.9	2878.8
52.5°	16943.7	11878.3	2880.6	2683.6	3079.4	3690.2	3805.8	3368.5	3016.1	2723.4	2674.6
55°	17717.1	11641.6	2573.4	2531.8	2931.2	3540.2	3715.5	3279.9	2783.0	2528.2	2484.8
57.5°	17865.3	10832.0	2340.2	2374.6	2752.3	3352.2	3576.3	3083.0	2656.5	2443.2	2398.1
60°	17460.5	9704.3	2166.8	2230.0	2560.7	3115.5	3316.1	2943.8	2535.4	2352.9	2314.9
62.5°	16443.1	8549.6	2038.4	2099.9	2381.8	2875.2	3153.4	2797.4	2412.5	2249.9	2211.9
65°	14388.4	7177.9	1915.6	1984.2	2215.5	2667.3	3007.1	2661.9	2291.4	2166.8	2130.6
67.5°	10860.9	5376.2	1799.9	1861.3	2067.4	2486.6	2848.0	2528.2	2174.0	2094.5	2051.1
70°	6395.4	3366.7	1668.0	1733.0	1911.9	2298.7	2678.2	2381.8	2027.6	1991.5	1935.4
72.5°	2976.4	2025.8	1518.0	1581.2	1716.8	2047.5	2459.5	2190.2	1854.1	1774.6	1698.7
75°	1776.4	1481.9	1340.9	1396.9	1492.7	1780.0	2184.8	1995.1	1689.7	1584.9	1505.3
77.5°	1328.2	1133.1	1145.7	1205.4	1283.1	1557.8	1935.4	1841.5	1563.2	1481.9	1427.6
80°	956.0	860.2	934.3	999.3	1080.7	1416.8	1854.1	1702.3	1413.2	1304.8	1254.2
82.5°	637.9	618.0	703.0	769.8	849.4	1239.7	1742.1	1490.9	1207.2	1069.8	957.8
85°	352.4	372.3	473.5	502.4	571.1	872.8	1427.6	1198.1	909.0	731.9	699.4
87.5°	146.4	171.7	254.8	245.8	303.6	520.5	939.7	722.9	578.3	431.9	336.1
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)