

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: P320131

Luminaire Tested: **GAN-SA7C-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320131
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-SA7C-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 34946 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

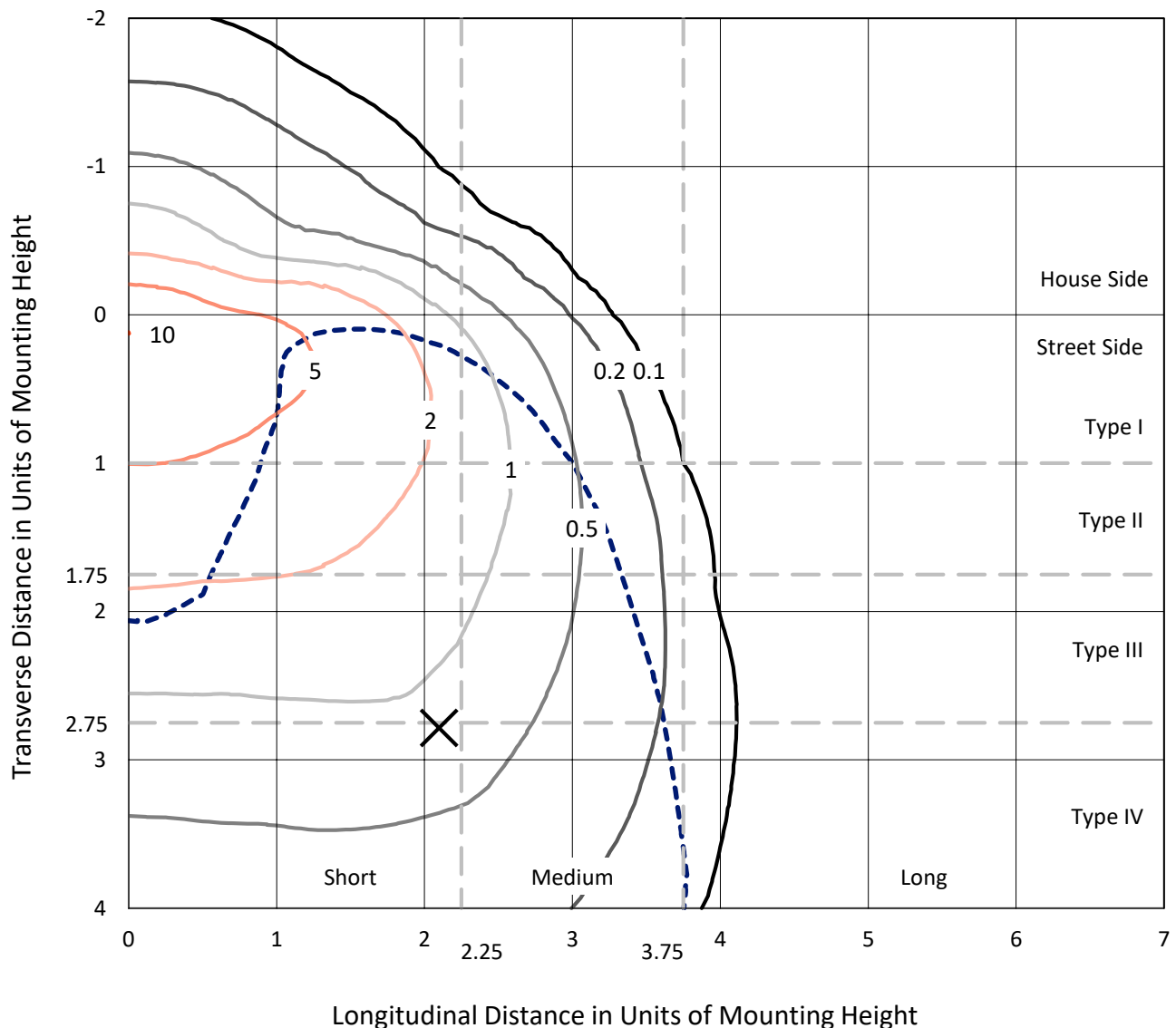
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

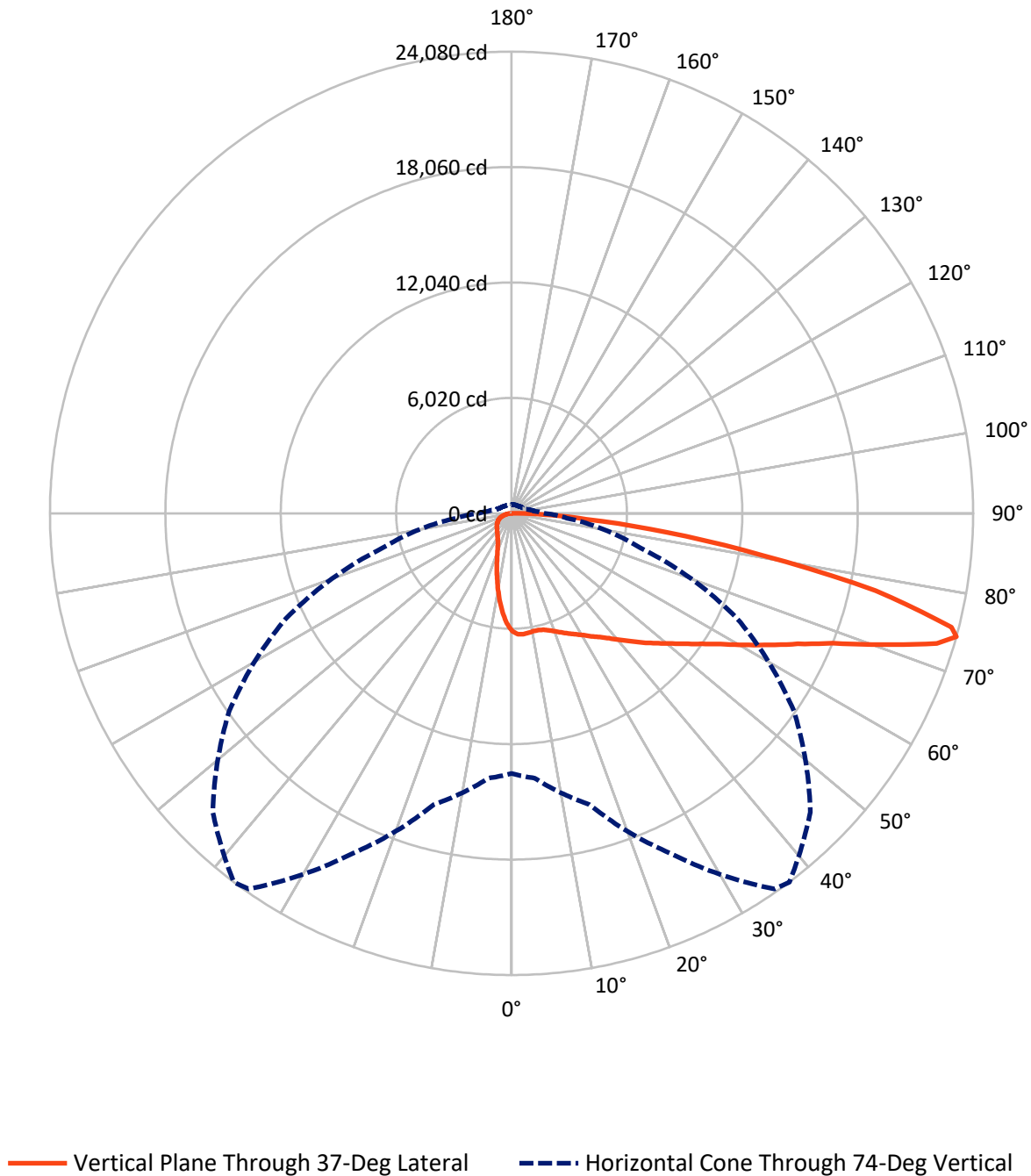
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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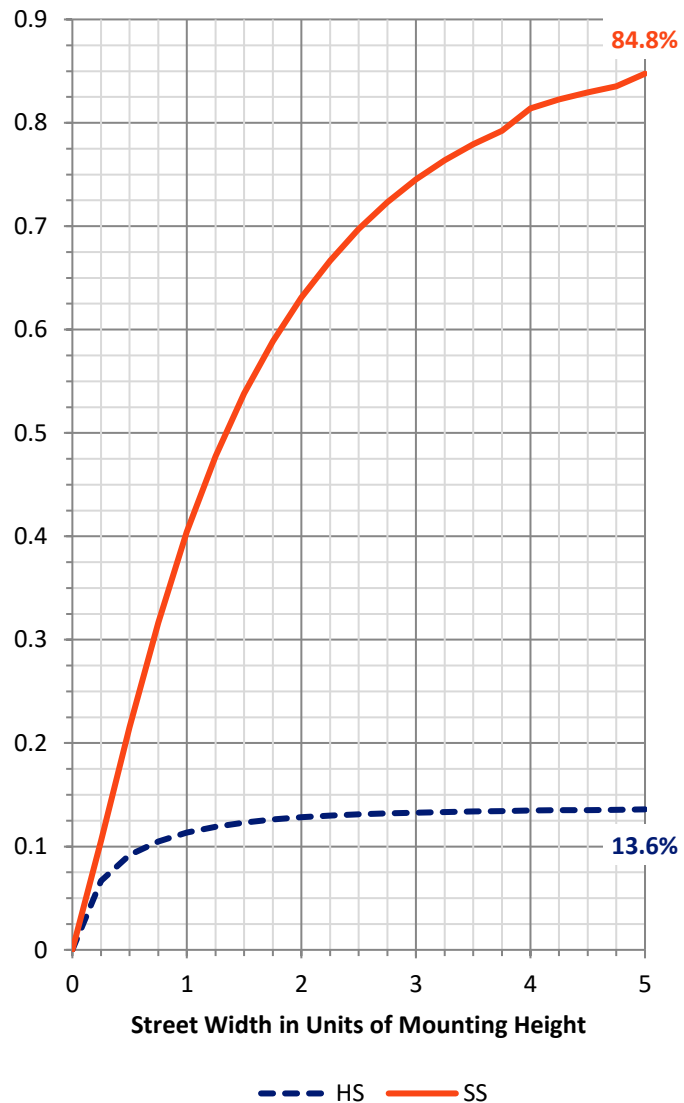
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4808.3	0.0	4808.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	30137.7	0.0	30137.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	34946.0	0.0	34946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.2	1.6
10°-20°	1389.9	4.0
20°-30°	2141.5	6.1
30°-40°	3114.1	8.9
40°-50°	4583.4	13.1
50°-60°	6436.5	18.4
60°-70°	8146.7	23.3
70°-80°	7173.4	20.5
80°-90°	1418.3	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°	34946.0	100.0
0°-180°	34946.0	100.0

Coefficient of Utilization



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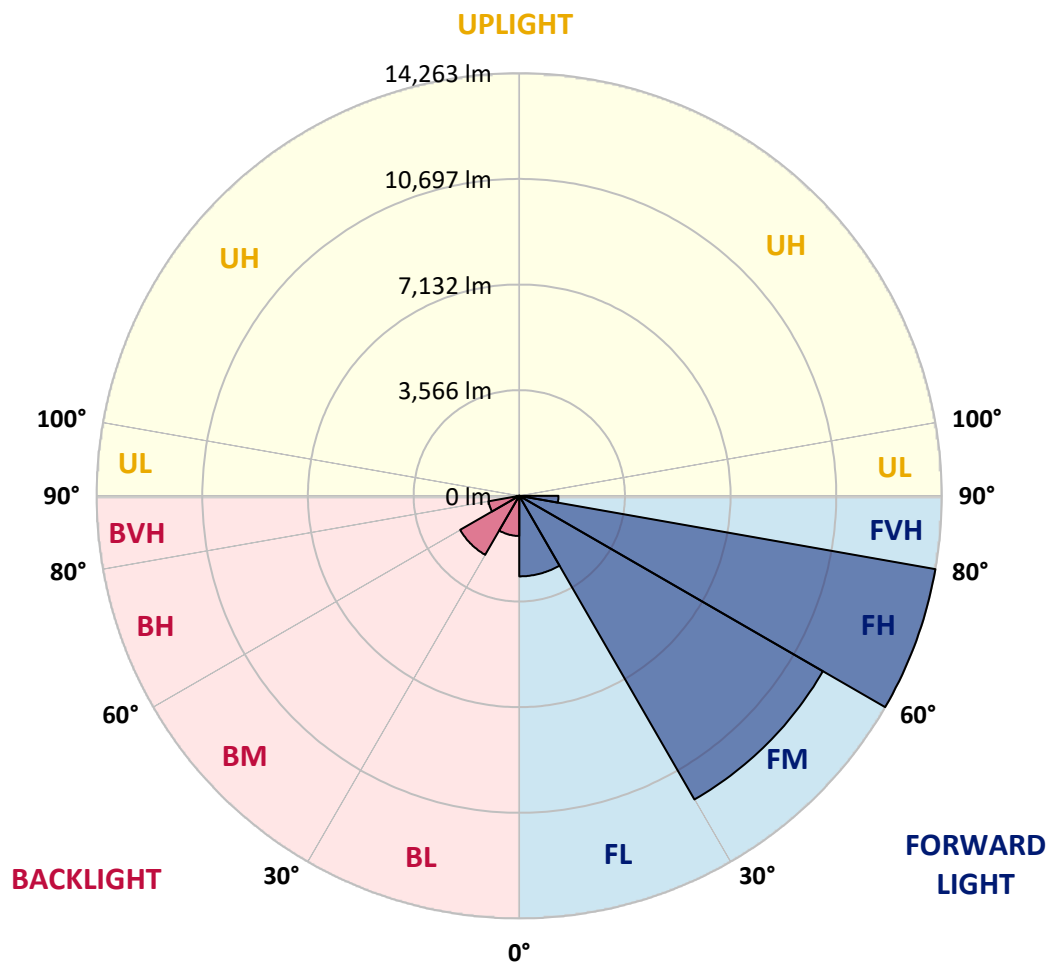
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2719.2	7.8			
FM	(30°-60°)	11833.0	33.9			
FH	(60°-80°)	14263.2	40.8			G5
FVH	(80°-90°)	1322.3	3.8			G5
BL	(0°-30°)	1354.4	3.9	B3/2500		
BM	(30°-60°)	2301.0	6.6	B2/2500		
BH	(60°-80°)	1056.9	3.0	B3/2500		G3/2500
BVH	(80°-90°)	96.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3
2.5°	6367.8	6369.1	6367.8	6358.0	6334.6	6314.9	6298.9	6275.5	6223.8	6184.4	6125.3
5°	6428.2	6420.8	6415.9	6397.4	6360.5	6338.3	6307.5	6263.2	6178.3	6099.5	6003.5
7.5°	6399.9	6391.2	6380.2	6358.0	6316.1	6297.7	6254.6	6196.7	6094.6	5991.2	5853.3
10°	6312.5	6310.0	6305.1	6300.1	6264.4	6249.7	6210.3	6148.7	6047.8	5922.2	5761.0
12.5°	6215.2	6221.4	6241.1	6266.9	6250.9	6243.5	6218.9	6177.0	6073.6	5938.2	5743.7
15°	6153.7	6170.9	6223.8	6291.5	6305.1	6302.6	6296.5	6269.4	6159.8	6009.6	5783.1
17.5°	6132.7	6161.0	6262.0	6374.0	6413.4	6422.0	6424.5	6377.7	6255.8	6097.0	5823.8
20°	6170.9	6206.6	6354.3	6508.2	6571.0	6575.9	6564.8	6483.6	6346.9	6172.1	5845.9
22.5°	6286.6	6318.6	6503.3	6676.8	6748.2	6755.6	6722.4	6599.3	6442.9	6260.8	5876.7
25°	6509.4	6548.8	6733.4	6907.0	6943.9	6945.2	6897.2	6744.5	6568.5	6385.1	5943.2
27.5°	6799.9	6839.3	7005.5	7175.4	7155.7	7144.6	7079.4	6926.7	6732.2	6556.2	6061.3
30°	7123.7	7166.8	7324.3	7445.0	7398.2	7376.0	7323.1	7126.1	6959.9	6790.1	6242.3
32.5°	7458.5	7497.9	7635.8	7718.2	7659.1	7649.3	7569.3	7389.6	7256.6	7147.1	6535.3
35°	7801.9	7830.2	7965.7	8012.4	7933.7	7931.2	7909.0	7744.1	7660.4	7712.1	6961.2
37.5°	8152.8	8160.2	8275.9	8278.3	8254.9	8264.8	8288.2	8184.8	8208.2	8369.4	7515.1
40°	8465.4	8485.1	8568.8	8594.7	8635.3	8669.8	8786.7	8719.0	8900.0	9185.6	8204.5
42.5°	8696.9	8735.0	8869.2	8935.7	9067.4	9121.5	9286.5	9349.3	9713.6	10142.0	9024.3
45°	8892.6	8951.7	9167.1	9303.7	9526.5	9621.3	9857.7	10068.2	10633.2	11179.7	9887.2
47.5°	9104.3	9179.4	9449.0	9710.0	10012.8	10119.9	10549.5	10864.6	11614.3	12223.6	10700.9
50°	9415.7	9473.6	9737.0	10146.9	10524.9	10662.7	11257.3	11709.1	12611.4	13218.2	11406.2
52.5°	9850.3	9828.1	10050.9	10625.8	11133.0	11302.8	12013.1	12607.7	13622.0	14118.1	12002.0
55°	10287.3	10250.4	10406.7	11126.8	11842.0	12020.5	12845.3	13510.0	14583.4	14928.1	12458.7
57.5°	10773.5	10703.3	10835.1	11691.8	12649.5	12862.5	13777.1	14468.9	15528.8	15582.9	12749.2
60°	11274.5	11179.7	11327.5	12392.3	13674.9	13926.0	14867.7	15404.5	16420.0	16107.3	12842.8
62.5°	11712.8	11646.3	11874.0	13173.9	14830.8	15106.6	15938.7	16399.1	17298.9	16325.2	12505.5
65°	12095.6	12106.7	12500.6	14052.8	16119.7	16413.9	17167.2	17625.1	17990.7	16196.0	11716.4
67.5°	12552.3	12615.1	13287.2	15210.0	17742.1	18064.6	18954.6	18962.0	18377.3	15437.7	10163.0
70°	13218.2	13347.5	14369.2	16815.2	20048.9	20492.1	21179.0	19747.3	17834.4	13382.0	7996.4
72.5°	13809.1	14050.4	15520.2	18651.8	22860.5	23196.5	22480.1	19294.3	15565.7	10028.8	4981.8
74°	13569.1	13868.2	15729.4	19556.5	23919.1	24080.4	22040.7	17972.3	12978.2	6945.2	2895.3
75°	13052.1	13377.0	15424.1	19547.9	23784.9	23695.1	20979.6	16461.9	10688.6	4736.8	1926.5
77.5°	10533.5	10876.9	12996.7	16753.6	19502.4	19417.4	16116.0	11043.1	4681.4	1553.5	978.6
80°	6124.1	6386.3	8067.8	10639.3	13150.5	13304.4	10598.7	5464.3	1841.5	872.8	663.5
82.5°	2720.5	2901.4	3897.3	5431.1	7936.1	8134.3	5550.5	2863.3	1137.4	530.6	398.8
85°	1784.9	1919.1	2365.9	2586.3	3779.1	3914.5	2716.8	2229.3	750.9	291.7	293.0
87.5°	1283.9	1413.2	1757.8	1535.0	1734.4	1642.1	1478.4	2063.1	301.6	166.2	98.5
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°	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3	6157.3
2.5°	6099.5	6079.8	6035.5	5951.8	5905.0	5865.6	5800.4	5762.2	5745.0	5743.7	5751.1
5°	5948.1	5902.5	5788.1	5647.7	5535.7	5433.5	5306.7	5230.4	5176.3	5144.3	5152.9
7.5°	5772.1	5700.7	5520.9	5296.9	5117.2	4919.0	4723.3	4606.3	4515.2	4447.5	4459.8
10°	5651.4	5552.9	5290.7	4968.2	4669.1	4381.0	4111.5	3950.2	3822.2	3723.7	3731.1
12.5°	5610.8	5477.9	5114.7	4683.9	4264.1	3870.2	3518.1	3270.7	3139.0	3027.0	3035.6
15°	5617.0	5438.5	4967.0	4427.8	3899.7	3403.7	2976.5	2687.2	2508.7	2431.2	2432.4
17.5°	5621.9	5392.9	4811.9	4153.3	3539.1	2967.9	2503.8	2210.8	2042.2	1970.8	1972.0
20°	5605.9	5319.1	4619.9	3838.2	3162.4	2567.8	2118.5	1869.9	1741.8	1686.4	1686.4
22.5°	5584.9	5231.7	4403.2	3521.8	2790.6	2220.7	1842.8	1653.2	1579.3	1542.4	1541.2
25°	5594.8	5166.4	4181.6	3196.8	2448.4	1943.7	1659.4	1533.8	1484.6	1461.2	1459.9
27.5°	5647.7	5135.6	3977.3	2873.1	2149.3	1735.7	1536.3	1447.6	1415.6	1400.9	1400.9
30°	5743.7	5135.6	3764.3	2597.4	1900.6	1581.8	1441.5	1381.2	1359.0	1349.2	1349.2
32.5°	5911.2	5164.0	3558.8	2324.1	1702.4	1461.2	1362.7	1322.1	1304.8	1299.9	1299.9
35°	6199.2	5260.0	3358.1	2065.6	1542.4	1362.7	1287.6	1264.2	1251.9	1250.7	1254.4
37.5°	6604.2	5455.7	3169.8	1874.8	1429.2	1282.7	1224.8	1206.4	1199.0	1205.1	1210.1
40°	7113.8	5721.6	2998.7	1702.4	1343.0	1218.7	1167.0	1154.7	1151.0	1159.6	1167.0
42.5°	7729.3	6081.0	2858.3	1578.1	1276.5	1164.5	1117.7	1103.0	1099.3	1109.1	1119.0
45°	8395.3	6467.6	2759.9	1485.8	1224.8	1123.9	1074.6	1058.6	1051.3	1056.2	1067.3
47.5°	9000.9	6833.2	2720.5	1420.5	1175.6	1089.4	1036.5	1016.8	1004.5	1002.0	1010.6
50°	9511.8	7105.2	2738.9	1381.2	1136.2	1051.3	999.6	977.4	958.9	947.9	954.0
52.5°	9883.5	7276.3	2756.2	1363.9	1105.4	1009.4	958.9	938.0	913.4	894.9	894.9
55°	10153.1	7315.7	2718.0	1350.4	1082.0	963.9	913.4	893.7	869.1	848.1	845.7
57.5°	10259.0	7204.9	2576.4	1330.7	1066.0	920.8	865.4	850.6	829.7	805.1	803.8
60°	10116.2	6862.7	2303.2	1288.8	1045.1	885.1	817.4	807.5	797.7	774.3	773.1
62.5°	9542.5	6111.8	1949.9	1203.9	1003.2	846.9	773.1	778.0	779.2	763.2	760.7
65°	8502.4	5080.2	1605.2	1093.1	940.5	801.4	727.5	750.9	764.4	762.0	758.3
67.5°	6990.7	3953.9	1360.2	976.2	858.0	738.6	678.3	705.4	716.4	725.0	722.6
70°	5188.6	2788.2	1125.1	853.1	758.3	664.7	614.3	627.8	620.4	630.3	634.0
72.5°	2892.8	1672.9	917.1	730.0	654.9	578.6	542.9	540.4	524.4	524.4	524.4
74°	1735.7	1227.3	806.3	653.6	592.1	521.9	491.2	480.1	465.3	466.5	465.3
75°	1395.9	1054.9	739.8	603.2	547.8	488.7	457.9	443.2	432.1	432.1	430.8
77.5°	881.4	801.4	595.8	480.1	438.2	402.5	381.6	361.9	361.9	360.7	359.4
80°	666.0	637.6	464.1	363.1	336.1	309.0	295.4	286.8	286.8	290.5	289.3
82.5°	456.7	480.1	326.2	253.6	240.0	220.3	217.9	219.1	215.4	210.5	209.3
85°	333.6	360.7	220.3	160.0	146.5	134.2	144.0	148.9	142.8	131.7	126.8
87.5°	128.0	236.3	118.2	66.5	61.5	52.9	61.5	64.0	68.9	54.2	55.4
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)