

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: P323133

Luminaire Tested: **GAN-SA9C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43801 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

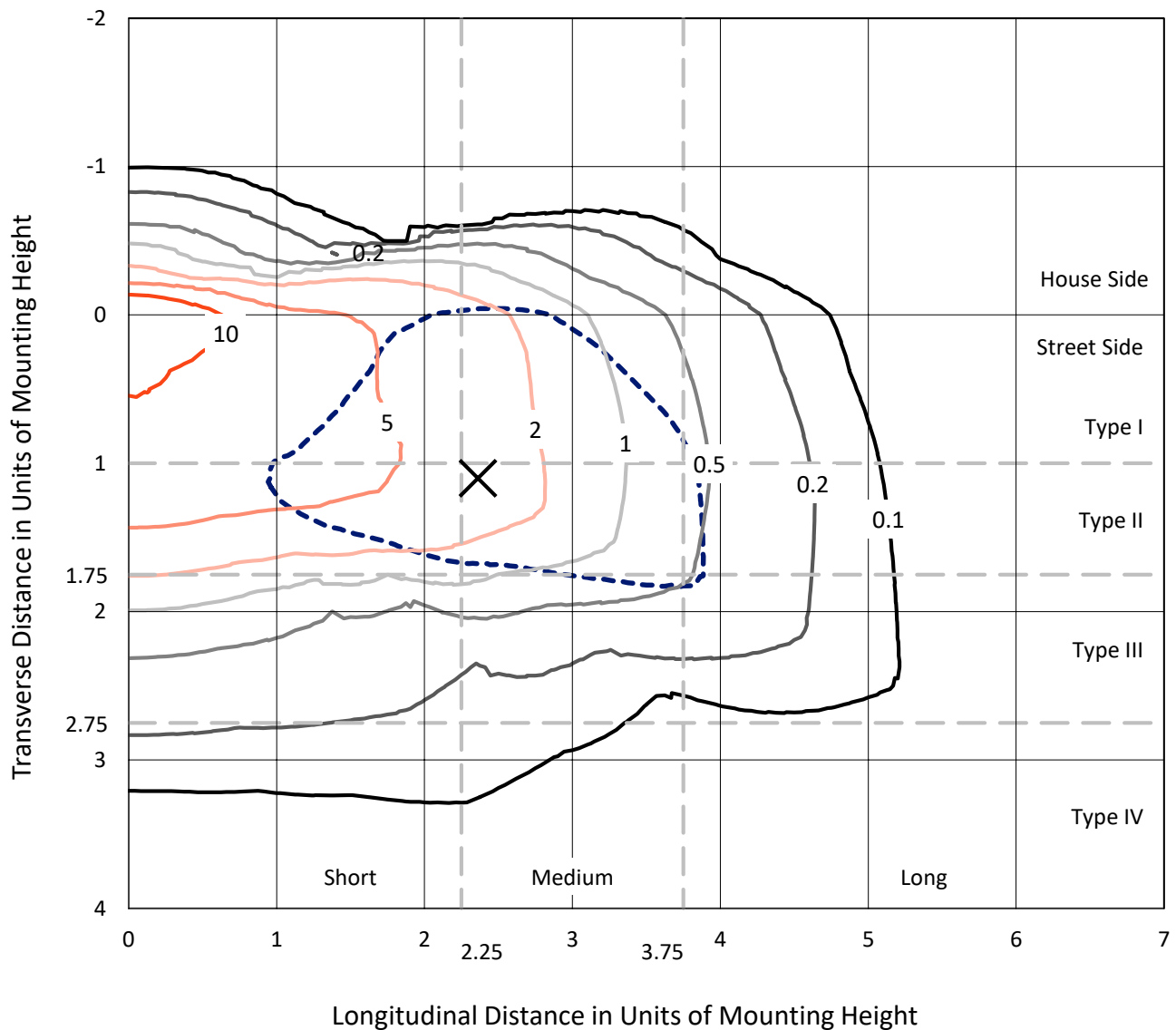
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

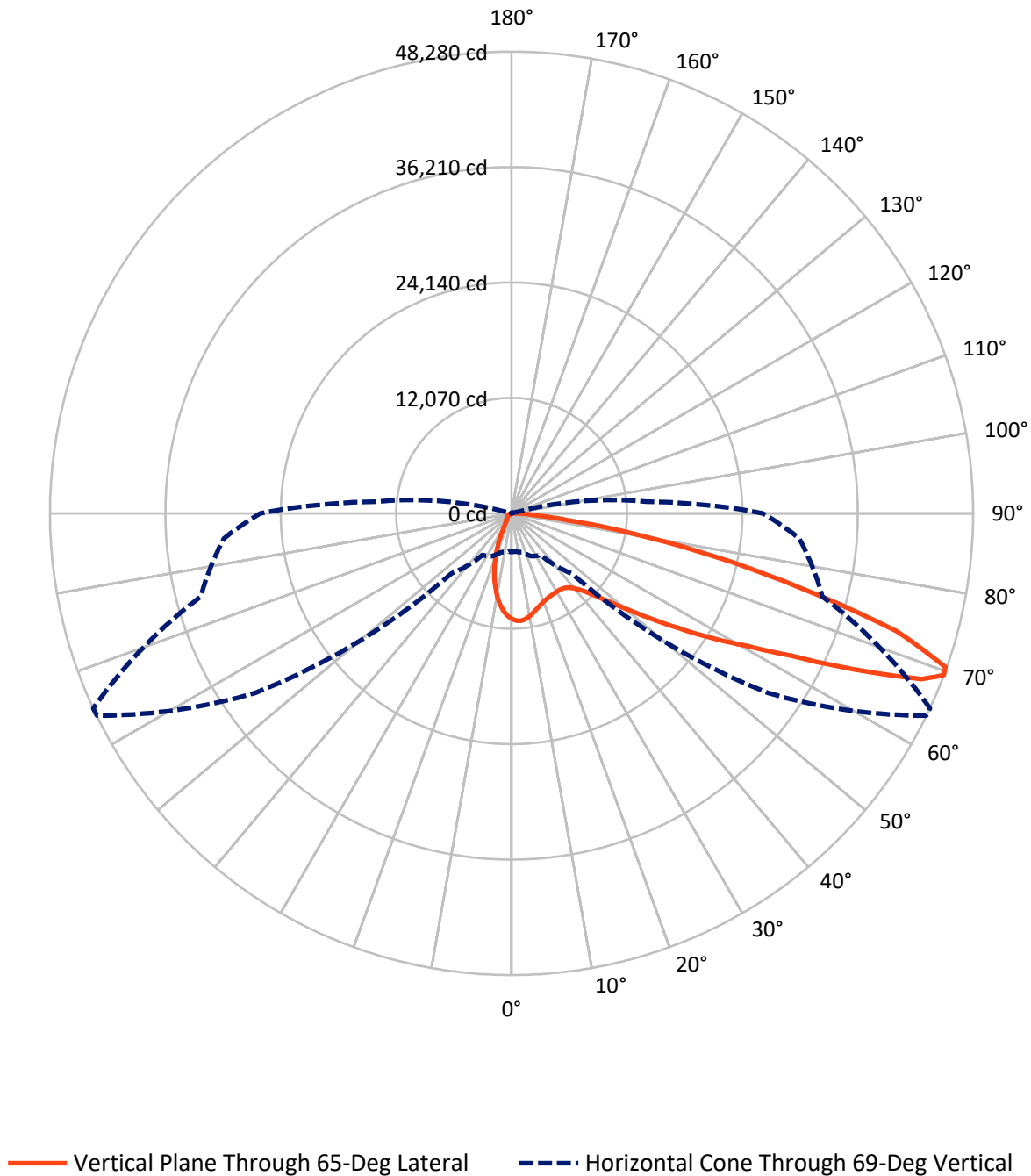
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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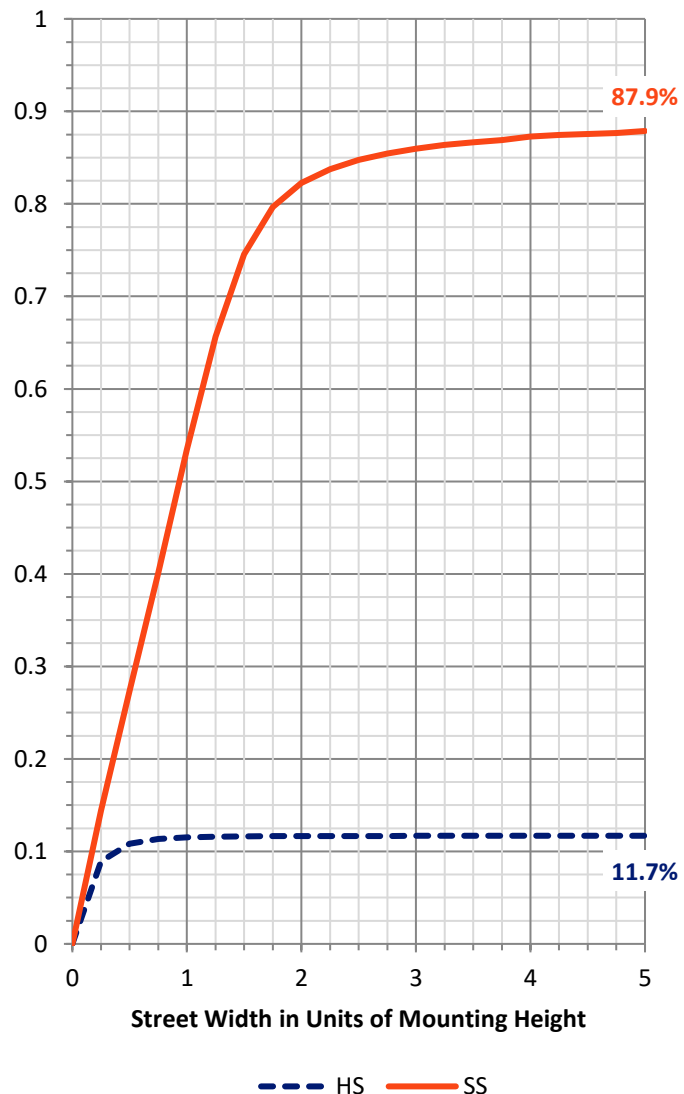
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5163.1	0.0	5163.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	38637.9	0.0	38637.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	43801.0	0.0	43801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.6	2.1
10°-20°	2026.1	4.6
20°-30°	2806.2	6.4
30°-40°	3912.8	8.9
40°-50°	6081.7	13.9
50°-60°	9763.5	22.3
60°-70°	11044.2	25.2
70°-80°	6486.3	14.8
80°-90°	754.5	1.7
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°	43801.0	100.0
0°-180°	43801.0	100.0

Coefficient of Utilization



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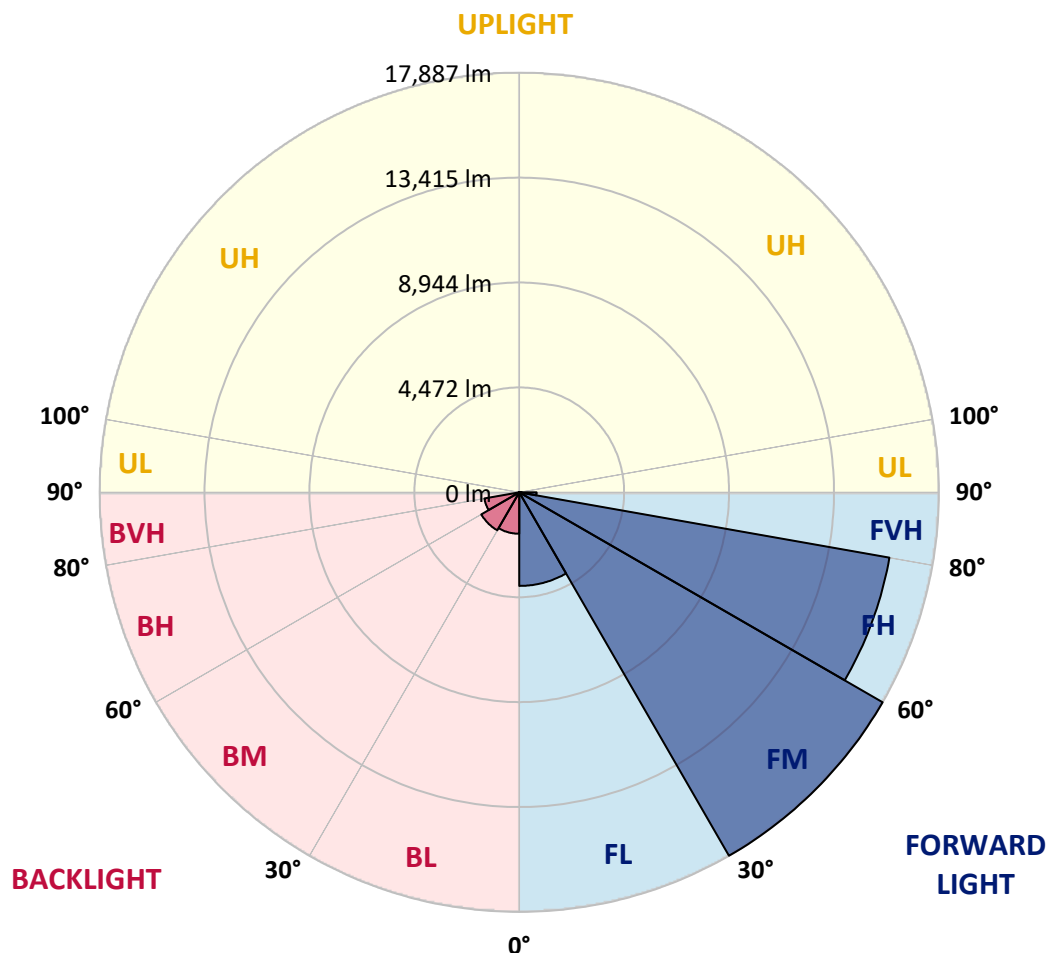
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3991.3	9.1			
FM	(30°-60°)	17887.1	40.8			
FH	(60°-80°)	16022.0	36.6			G5
FVH	(80°-90°)	737.6	1.7			G4/750
BL	(0°-30°)	1766.6	4.0	B3/2500		
BM	(30°-60°)	1871.0	4.3	B2/2500		
BH	(60°-80°)	1508.6	3.4	B3/2500		G3/2500
BVH	(80°-90°)	17.0	0.0			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6
2.5°	11166.8	11139.0	11161.3	11209.4	11233.5	11233.5	11252.1	11229.8	11237.3	11183.5	11105.7
5°	10468.1	10425.5	10486.6	10621.9	10788.7	10931.4	11142.7	11253.9	11265.1	11266.9	11176.1
7.5°	9715.6	9676.7	9767.5	9926.9	10141.9	10406.9	10775.8	11098.2	11116.8	11291.0	11224.3
10°	9104.0	9076.2	9181.8	9352.3	9604.4	9900.9	10353.2	10801.7	10855.4	11241.0	11216.9
12.5°	8618.4	8596.1	8696.2	8892.7	9150.3	9478.4	9951.0	10471.8	10544.1	11127.9	11179.8
15°	8264.4	8260.7	8344.1	8533.1	8818.5	9124.4	9608.1	10166.0	10249.4	11005.6	11174.2
17.5°	8079.0	8084.6	8145.8	8307.0	8551.7	8855.6	9319.0	9908.4	9999.2	10896.2	11202.0
20°	8060.5	8066.1	8099.4	8190.2	8388.6	8657.3	9083.6	9691.5	9786.0	10814.7	11246.5
22.5°	8223.6	8219.9	8229.2	8219.9	8331.1	8535.0	8927.9	9524.7	9634.0	10760.9	11281.7
25°	8536.8	8531.3	8527.6	8459.0	8384.8	8494.2	8863.0	9430.2	9534.0	10722.0	11302.1
27.5°	8972.4	8968.7	8963.1	8850.1	8627.6	8559.1	8870.4	9395.0	9482.1	10690.5	11298.4
30°	9545.1	9571.0	9563.6	9406.1	9059.5	8757.4	8948.3	9376.4	9452.4	10629.3	11259.5
32.5°	10217.9	10269.8	10310.5	10141.9	9708.2	9150.3	9128.1	9396.8	9452.4	10583.0	11189.1
35°	10916.6	10983.3	11133.5	11074.1	10503.3	9741.5	9437.6	9519.1	9565.5	10608.9	11155.7
37.5°	11604.2	11683.9	12010.1	12182.5	11544.9	10523.7	9919.5	9821.2	9845.3	10766.5	11192.8
40°	12403.0	12523.5	13018.4	13296.4	12788.6	11570.9	10640.5	10340.2	10349.5	11113.1	11365.1
42.5°	13452.1	13576.3	14111.9	14547.4	14189.7	12894.2	11619.1	11133.5	11124.2	11761.8	11771.0
45°	14730.9	14860.7	15414.8	15898.6	15737.3	14462.2	12872.0	12291.8	12280.7	12784.9	12540.2
47.5°	16180.3	16308.2	16803.1	17301.6	17475.8	16293.4	14467.8	13872.8	13846.9	14206.4	13728.2
50°	17423.9	17507.4	17963.3	18634.2	19420.1	18543.4	16452.8	15880.1	15852.3	16095.0	15472.3
52.5°	17876.2	17924.4	18387.7	19327.4	21288.3	21590.4	19060.5	18322.9	18302.5	18408.1	17794.6
55°	16960.6	17047.7	17616.7	19010.5	22300.3	25034.1	22352.2	21347.6	21193.8	20965.8	20222.6
57.5°	14465.9	14604.9	15216.5	17069.9	21827.7	27766.0	27189.6	24769.0	24542.9	23149.1	22196.5
60°	10838.8	11009.3	11517.1	13516.9	19305.2	28739.0	32475.5	28581.5	28071.8	24887.6	24011.0
62.5°	7437.8	7523.0	7867.7	9170.7	14217.5	27145.1	36897.8	33687.7	32757.2	26778.1	25973.7
65°	5680.7	5710.4	5851.2	6299.8	8466.4	22050.1	38656.7	40424.8	39299.8	29039.3	28010.6
67.5°	4577.9	4553.8	4748.4	5389.7	5669.6	13452.1	36604.9	46798.7	46272.3	32062.2	30060.5
69°	4036.7	4003.4	4201.7	4946.8	5324.9	8892.7	32723.9	48246.2	48279.6	33658.0	30201.4
70°	3632.7	3654.9	3851.4	4683.6	5208.1	6980.0	29017.1	47877.4	48140.6	34254.8	29356.2
72.5°	2426.1	2485.4	2880.2	3888.5	5007.9	5282.2	17520.3	41084.6	42096.6	32911.1	25186.0
75°	1367.8	1412.3	1881.2	2932.1	4718.8	5030.2	9254.1	30268.1	31246.7	27521.3	19421.9
77.5°	670.9	695.0	1063.9	1892.3	3945.9	4792.9	5248.9	20559.9	21677.5	17963.3	10985.2
80°	283.6	296.5	531.9	1167.7	2820.9	4574.2	3897.7	12653.3	12792.3	7037.4	2926.5
82.5°	109.4	113.1	224.3	728.4	1792.3	3566.0	3260.2	5999.5	5854.9	1325.2	667.2
85°	13.0	14.8	81.6	437.4	997.1	1834.9	2648.5	2585.5	2392.8	263.2	342.9
87.5°	0.0	0.0	5.6	133.4	296.5	860.0	1377.1	1073.1	967.5	85.3	177.9
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°	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6	11068.6
2.5°	11040.8	11022.3	10922.2	10777.6	10640.5	10469.9	10306.8	10208.6	10130.8	10078.9	10140.0
5°	11070.4	10988.9	10684.9	10295.7	9913.9	9483.9	9083.6	8744.4	8611.0	8462.7	8529.4
7.5°	11061.2	10907.3	10360.6	9667.4	8966.8	8242.1	7556.4	7028.1	6753.8	6485.1	6553.7
10°	11014.8	10755.4	9926.9	8900.1	7851.1	6809.4	5836.4	5096.9	4683.6	4309.2	4362.9
12.5°	10912.9	10551.5	9415.3	8021.6	6618.5	5245.2	4105.3	3158.2	2650.4	2426.1	2453.9
15°	10851.7	10353.2	8874.1	7131.9	5302.6	3653.1	2509.5	1866.4	1634.7	1560.6	1569.8
17.5°	10822.1	10162.3	8314.4	6114.4	3957.0	2326.0	1621.7	1430.8	1380.8	1367.8	1371.5
20°	10792.4	9969.5	7738.0	5108.0	2726.4	1564.3	1332.6	1277.0	1258.5	1241.8	1245.5
22.5°	10742.4	9784.2	7119.0	4088.6	1838.6	1269.6	1201.0	1147.3	1108.3	1088.0	1091.7
25°	10681.2	9589.6	6486.9	3045.2	1341.9	1132.4	1067.6	991.6	945.2	908.2	910.0
27.5°	10583.0	9350.5	5834.5	2216.7	1126.9	1013.8	926.7	843.3	765.5	722.8	722.8
30°	10445.8	9079.9	5109.9	1586.5	1010.1	897.1	791.4	687.6	604.2	565.3	561.6
32.5°	10293.9	8798.2	4377.8	1202.9	917.4	787.7	667.2	557.9	483.7	452.2	450.4
35°	10164.1	8494.2	3647.5	1008.3	824.8	682.1	550.5	457.8	398.5	372.5	370.7
37.5°	10080.7	8190.2	2935.8	900.8	741.4	583.8	461.5	378.1	335.5	315.1	313.2
40°	10067.7	7964.1	2285.3	819.2	663.5	496.7	385.5	320.6	281.7	259.5	257.6
42.5°	10236.4	7834.4	1753.3	750.6	583.8	420.7	328.1	274.3	233.5	211.3	209.4
45°	10679.4	7875.2	1349.3	689.5	504.1	355.9	278.0	228.0	190.9	174.2	170.5
47.5°	11487.5	8156.9	1073.1	628.3	428.1	302.1	237.2	189.0	157.5	140.9	139.0
50°	12925.7	8818.5	897.1	561.6	357.7	257.6	196.5	153.8	127.9	113.1	111.2
52.5°	14834.7	9997.3	800.7	496.7	296.5	218.7	161.2	122.3	100.1	89.0	87.1
55°	16940.2	11424.4	737.7	426.3	242.8	181.6	127.9	96.4	77.8	68.6	64.9
57.5°	18995.6	12660.7	678.3	357.7	202.0	148.3	101.9	76.0	61.2	51.9	50.0
60°	20884.3	13796.8	609.8	287.3	165.0	116.8	79.7	59.3	48.2	38.9	38.9
62.5°	22906.3	14675.3	515.2	224.3	135.3	89.0	64.9	53.7	38.9	33.4	31.5
65°	25048.9	15327.7	404.0	174.2	105.6	66.7	53.7	55.6	31.5	24.1	22.2
67.5°	26631.7	15198.0	298.4	137.2	81.6	51.9	51.9	59.3	27.8	18.5	16.7
69°	26283.3	14143.4	250.2	118.6	70.4	44.5	48.2	59.3	25.9	16.7	14.8
70°	25273.2	12975.8	220.6	105.6	63.0	40.8	46.3	57.5	24.1	16.7	14.8
72.5°	21047.4	9773.1	172.4	79.7	50.0	33.4	38.9	50.0	24.1	16.7	13.0
75°	15831.9	6255.3	131.6	57.5	37.1	25.9	29.7	37.1	24.1	14.8	13.0
77.5°	8614.7	2255.6	94.5	38.9	25.9	20.4	20.4	27.8	22.2	11.1	7.4
80°	2214.8	567.1	59.3	25.9	20.4	14.8	13.0	18.5	13.0	1.9	0.0
82.5°	546.8	127.9	31.5	18.5	14.8	5.6	5.6	9.3	5.6	0.0	0.0
85°	300.3	63.0	20.4	13.0	7.4	0.0	0.0	1.9	0.0	0.0	0.0
87.5°	153.8	18.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
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)