

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: P458240

Luminaire Tested: **GLAN-SA9C-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35025 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 481
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

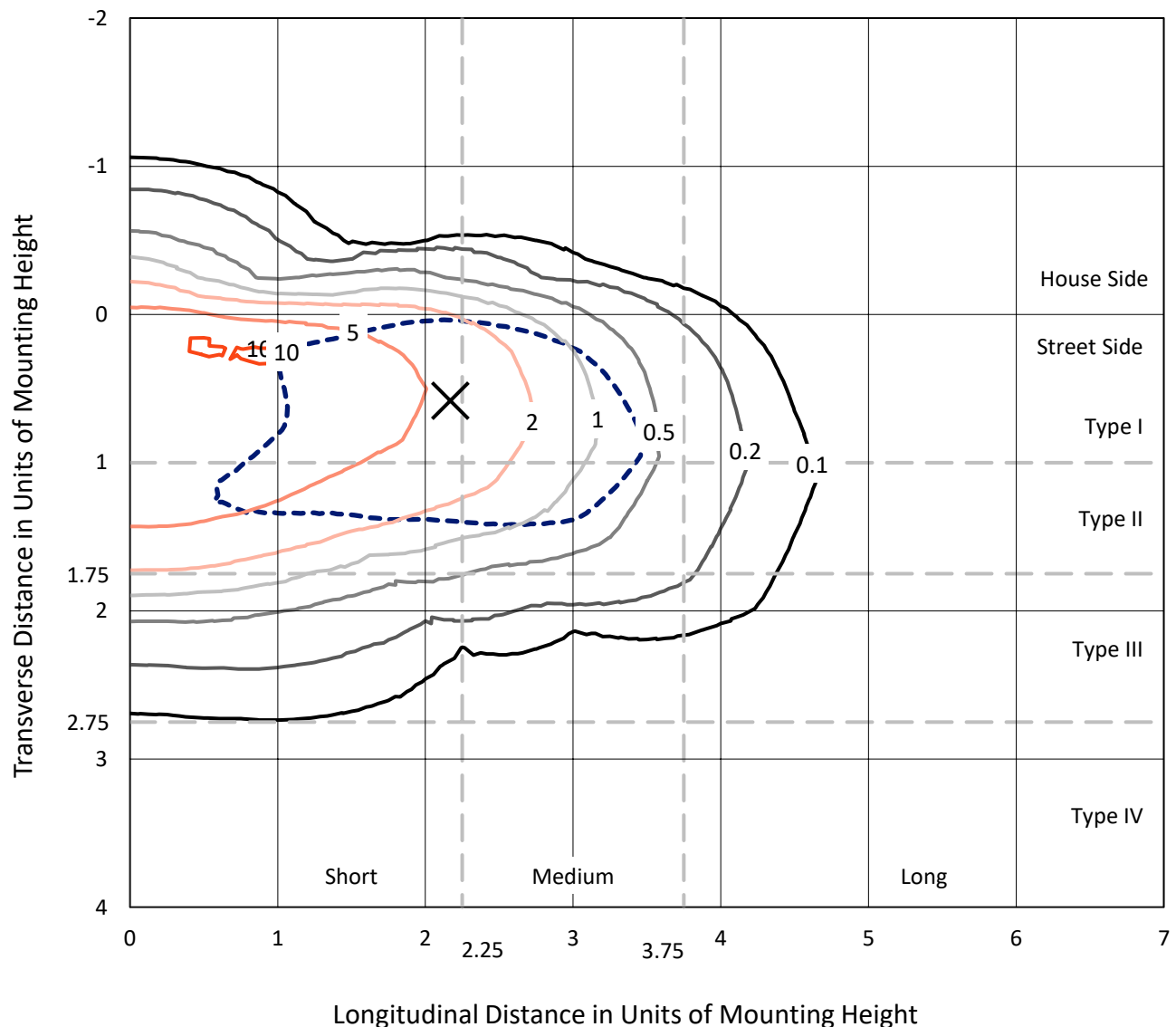


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



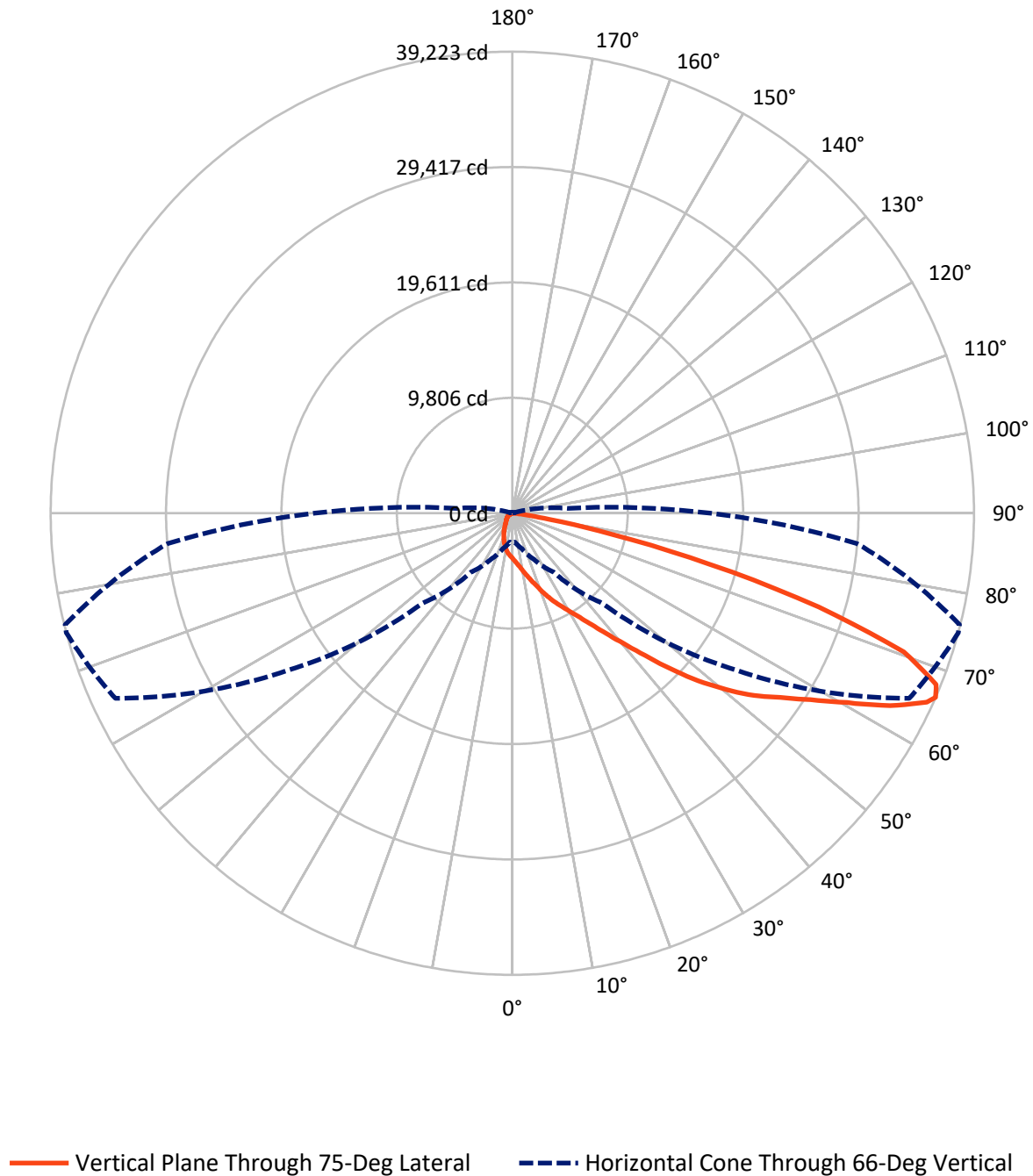
Based on 25 foot mounting height. Maximum calculated value = 10.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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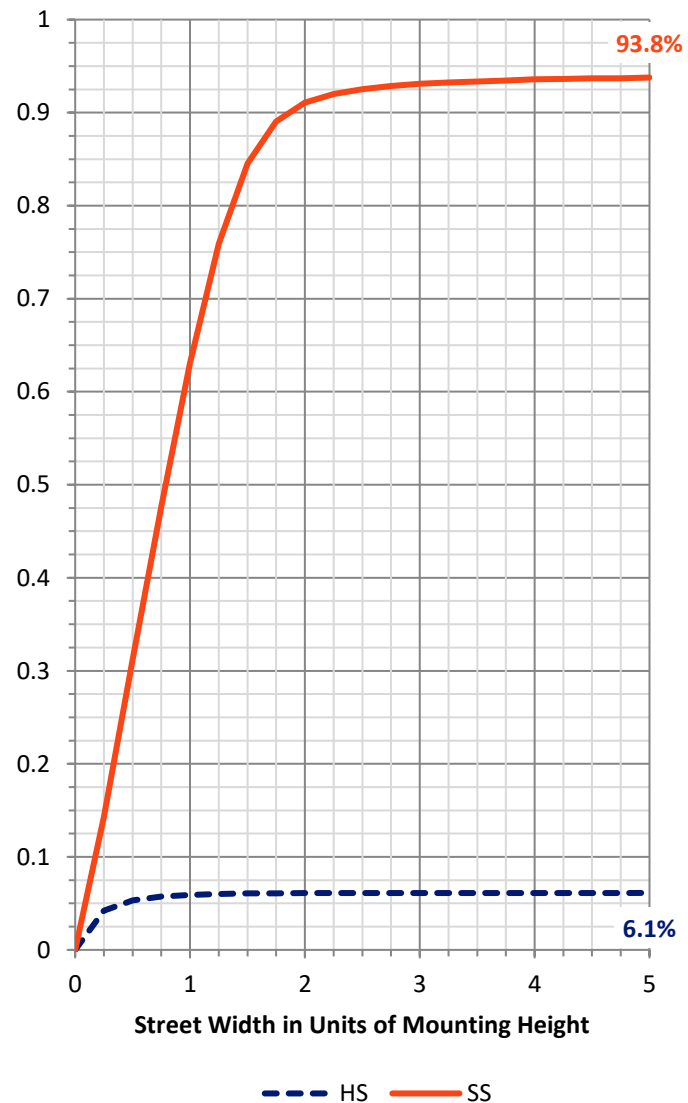
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2162.3	0.0	2162.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	32862.7	0.0	32862.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	35025.0	0.0	35025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.4	1.1
10°-20°	1087.3	3.1
20°-30°	1877.5	5.4
30°-40°	3386.6	9.7
40°-50°	6118.0	17.5
50°-60°	9538.0	27.2
60°-70°	9060.7	25.9
70°-80°	3395.8	9.7
80°-90°	191.6	0.5
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°	35025.0	100.0
0°-180°	35025.0	100.0



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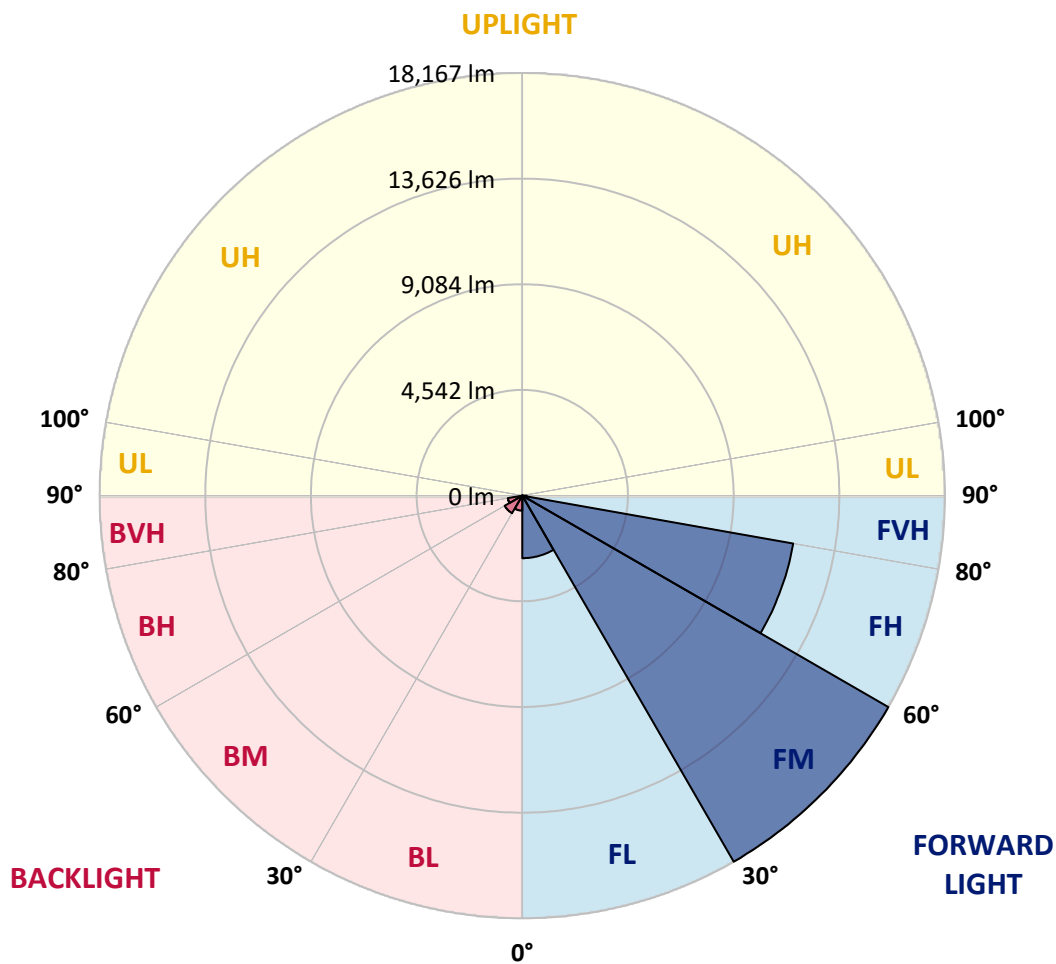
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2688.5	7.7			
FM	(30°-60°)	18167.5	51.9			
FH	(60°-80°)	11825.1	33.8			G4/12000
FVH	(80°-90°)	181.7	0.5			G2/225
BL	(0°-30°)	645.8	1.8	B2/1000		
BM	(30°-60°)	875.2	2.5	B1/1000		
BH	(60°-80°)	631.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	9.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3
2.5°	4576.2	4519.2	4537.3	4511.5	4451.9	4363.8	4286.1	4174.8	4063.4	4045.3	3921.0
5°	5179.6	5164.1	5143.4	5068.3	5026.8	4892.2	4731.6	4539.9	4309.4	4268.0	4042.7
7.5°	5591.4	5583.6	5594.0	5555.1	5518.9	5397.2	5226.2	4964.7	4607.3	4584.0	4208.4
10°	5726.1	5746.8	5785.6	5847.8	5904.8	5865.9	5736.4	5410.1	4993.2	4925.8	4397.5
12.5°	5648.4	5671.7	5764.9	5930.7	6114.5	6220.7	6168.9	5930.7	5402.3	5348.0	4609.9
15°	5449.0	5477.4	5609.5	5865.9	6194.8	6495.2	6624.7	6453.8	5878.9	5790.8	4866.3
17.5°	5153.7	5195.2	5384.2	5723.5	6174.1	6692.1	7057.2	7000.3	6386.5	6303.6	5146.0
20°	4931.0	4962.1	5122.6	5511.1	6086.1	6800.8	7469.0	7629.6	7013.2	6870.8	5474.9
22.5°	5078.6	5089.0	5143.4	5376.4	5928.1	6829.3	7831.6	8284.8	7678.8	7551.9	5816.7
25°	5801.2	5697.6	5643.2	5591.4	5894.4	6803.4	8160.5	8968.5	8341.8	8207.1	6156.0
27.5°	6940.7	6894.1	6619.6	6251.8	6181.9	6837.1	8378.0	9616.0	8965.9	8820.9	6487.5
30°	8181.2	8100.9	7932.6	7393.9	6852.6	7075.4	8536.0	10245.3	9704.0	9512.4	6790.5
32.5°	9320.7	9372.5	9121.3	8567.1	7940.4	7583.0	8740.6	10931.6	10550.9	10312.6	7142.7
35°	10649.3	10752.9	10367.0	9836.1	9103.2	8499.8	9139.4	11705.9	11625.7	11325.2	7686.6
37.5°	11998.6	12060.7	11825.1	11079.2	10418.8	9665.2	9890.5	12661.6	12949.1	12692.7	8336.6
40°	13132.9	13218.4	13044.9	12381.9	11677.5	11014.5	10980.8	13702.7	14523.7	14259.5	9305.2
42.5°	14000.5	14065.3	14070.4	13601.7	12967.2	12666.8	12371.5	15031.3	16497.1	16191.5	10429.2
45°	15096.0	15189.2	15134.9	14816.3	14342.4	14288.0	14135.2	16636.9	18859.0	18473.1	11887.2
47.5°	16789.7	16851.9	16717.2	16341.7	15860.0	15945.5	15854.8	18436.9	21267.5	20936.0	13397.1
50°	17965.5	18069.1	18260.8	18411.0	18061.3	17745.4	17476.0	20117.6	23554.3	23256.5	14940.6
52.5°	17952.6	18123.5	18729.5	19485.7	20249.7	20153.9	19379.6	21974.5	25737.5	25369.8	16390.9
55°	16743.1	17074.6	17965.5	19307.0	21422.9	22477.0	22124.8	24124.1	27622.9	27374.3	18071.7
57.5°	14246.5	14448.6	15686.5	17561.5	20767.7	23569.9	25305.0	27037.6	29883.8	29767.3	20682.2
60°	9582.3	9672.9	11265.7	13583.6	17680.6	22479.6	27635.9	30562.4	32667.9	32610.9	23730.4
62.5°	5490.4	5529.2	6684.3	8639.6	12581.3	19050.6	27832.7	34910.6	36006.1	36037.2	27257.8
65°	2955.0	2975.7	3908.0	5070.8	7655.5	13578.4	25027.9	37293.3	38704.7	38764.3	29443.6
66°	2551.0	2452.6	3110.4	4322.4	6091.2	10807.3	23253.9	37207.8	39222.7	39157.9	29365.9
67.5°	1939.8	2027.8	2483.6	3322.7	4514.0	7684.0	19198.3	35552.9	38829.0	38627.0	28172.0
70°	1388.1	1424.4	1768.8	2369.7	3074.1	4216.2	12267.9	29529.0	35291.3	35019.4	24543.6
72.5°	896.1	934.9	1253.5	1714.5	2222.1	2302.3	6868.2	21334.9	27208.6	27169.7	18483.5
75°	639.7	675.9	828.7	1227.6	1670.4	1424.4	3307.2	14378.6	17297.3	17180.8	11434.0
77.5°	463.6	481.7	554.2	802.8	1193.9	1020.4	1533.2	7678.8	8611.1	9017.7	5052.7
80°	266.8	282.3	385.9	489.5	808.0	696.7	732.9	3081.9	3177.7	3024.9	1579.8
82.5°	132.1	150.2	230.5	334.1	505.0	468.8	336.7	927.2	978.9	953.1	398.8
85°	31.1	38.8	129.5	220.1	246.0	209.8	163.2	271.9	336.7	328.9	152.8
87.5°	2.6	5.2	46.6	38.8	41.4	69.9	57.0	69.9	108.8	101.0	54.4
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°	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3	3830.3
2.5°	3864.0	3814.8	3672.4	3532.5	3416.0	3294.2	3182.9	3118.1	3092.2	3063.7	3076.7
5°	3918.4	3799.3	3511.8	3263.2	3019.7	2812.5	2646.8	2540.6	2488.8	2481.0	2468.1
7.5°	3990.9	3786.3	3340.9	2952.4	2633.8	2403.3	2214.3	2061.5	2014.9	1973.4	1939.8
10°	4079.0	3763.0	3128.5	2626.1	2286.8	1996.7	1748.1	1566.8	1473.6	1447.7	1465.8
12.5°	4172.2	3719.0	2905.8	2325.6	1934.6	1564.2	1333.8	1243.1	1217.2	1206.9	1209.4
15°	4265.4	3664.6	2672.7	2035.6	1540.9	1248.3	1142.1	1118.8	1108.4	1103.3	1098.1
17.5°	4350.9	3576.5	2411.1	1753.3	1248.3	1067.0	1028.2	1007.4	986.7	978.9	966.0
20°	4451.9	3475.5	2175.4	1437.3	1056.6	966.0	919.4	880.5	849.5	828.7	826.1
22.5°	4547.7	3346.0	1929.4	1191.3	963.4	867.6	792.5	751.0	714.8	688.9	696.7
25°	4599.5	3188.1	1709.3	1038.5	877.9	769.2	686.3	634.5	595.7	582.7	580.1
27.5°	4599.5	2993.8	1494.3	950.5	800.3	681.1	595.7	546.5	520.6	502.4	505.0
30°	4563.2	2778.9	1294.9	883.1	732.9	603.4	523.1	479.1	458.4	445.4	442.9
32.5°	4534.8	2574.3	1124.0	818.4	663.0	536.1	466.2	432.5	411.8	398.8	398.8
35°	4578.8	2398.2	991.9	753.6	598.2	484.3	422.1	391.1	370.3	360.0	357.4
37.5°	4695.3	2237.6	890.9	683.7	538.7	440.3	391.1	354.8	334.1	321.1	316.0
40°	4982.8	2147.0	815.8	619.0	481.7	404.0	354.8	321.1	295.2	282.3	279.7
42.5°	5443.8	2149.5	743.3	559.4	437.7	372.9	323.7	284.9	256.4	243.4	240.9
45°	6137.9	2248.0	686.3	502.4	398.8	339.3	290.1	248.6	222.7	209.8	209.8
47.5°	6969.2	2439.6	637.1	453.2	362.6	308.2	256.4	215.0	189.1	178.7	178.7
50°	7870.4	2688.2	587.9	401.4	331.5	274.5	220.1	186.5	165.7	158.0	158.0
52.5°	8789.8	2988.6	538.7	360.0	297.8	238.3	189.1	165.7	147.6	142.4	139.8
55°	9996.7	3371.9	486.9	316.0	261.6	204.6	168.3	145.0	124.3	116.5	114.0
57.5°	11853.6	3949.5	429.9	277.1	215.0	170.9	145.0	121.7	98.4	85.5	82.9
60°	14093.7	4653.9	370.3	243.4	173.5	139.8	116.5	93.2	72.5	57.0	54.4
62.5°	16191.5	5101.9	313.4	204.6	137.3	106.2	82.9	69.9	51.8	36.3	33.7
65°	17118.6	4951.7	259.0	165.7	108.8	75.1	54.4	49.2	31.1	15.5	12.9
66°	16810.5	4729.0	238.3	150.2	98.4	64.7	46.6	41.4	23.3	7.8	7.8
67.5°	15901.4	4203.3	207.2	129.5	85.5	51.8	36.3	31.1	12.9	2.6	0.0
70°	13625.0	3400.4	163.2	95.8	62.2	36.3	20.7	15.5	7.8	0.0	0.0
72.5°	10465.4	2532.8	129.5	72.5	44.0	20.7	10.4	5.2	7.8	0.0	0.0
75°	6412.4	1447.7	101.0	54.4	28.5	12.9	7.8	0.0	7.8	2.6	0.0
77.5°	2846.2	650.0	67.3	36.3	20.7	10.4	5.2	0.0	5.2	2.6	0.0
80°	720.0	212.4	38.8	25.9	15.5	7.8	2.6	0.0	5.2	5.2	2.6
82.5°	196.8	77.7	28.5	20.7	12.9	7.8	2.6	0.0	5.2	5.2	5.2
85°	77.7	36.3	25.9	20.7	15.5	7.8	2.6	0.0	5.2	5.2	5.2
87.5°	36.3	25.9	25.9	23.3	18.1	7.8	2.6	0.0	5.2	2.6	5.2
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)