

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: P318332

Luminaire Tested: **GAN-SA8C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47416 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

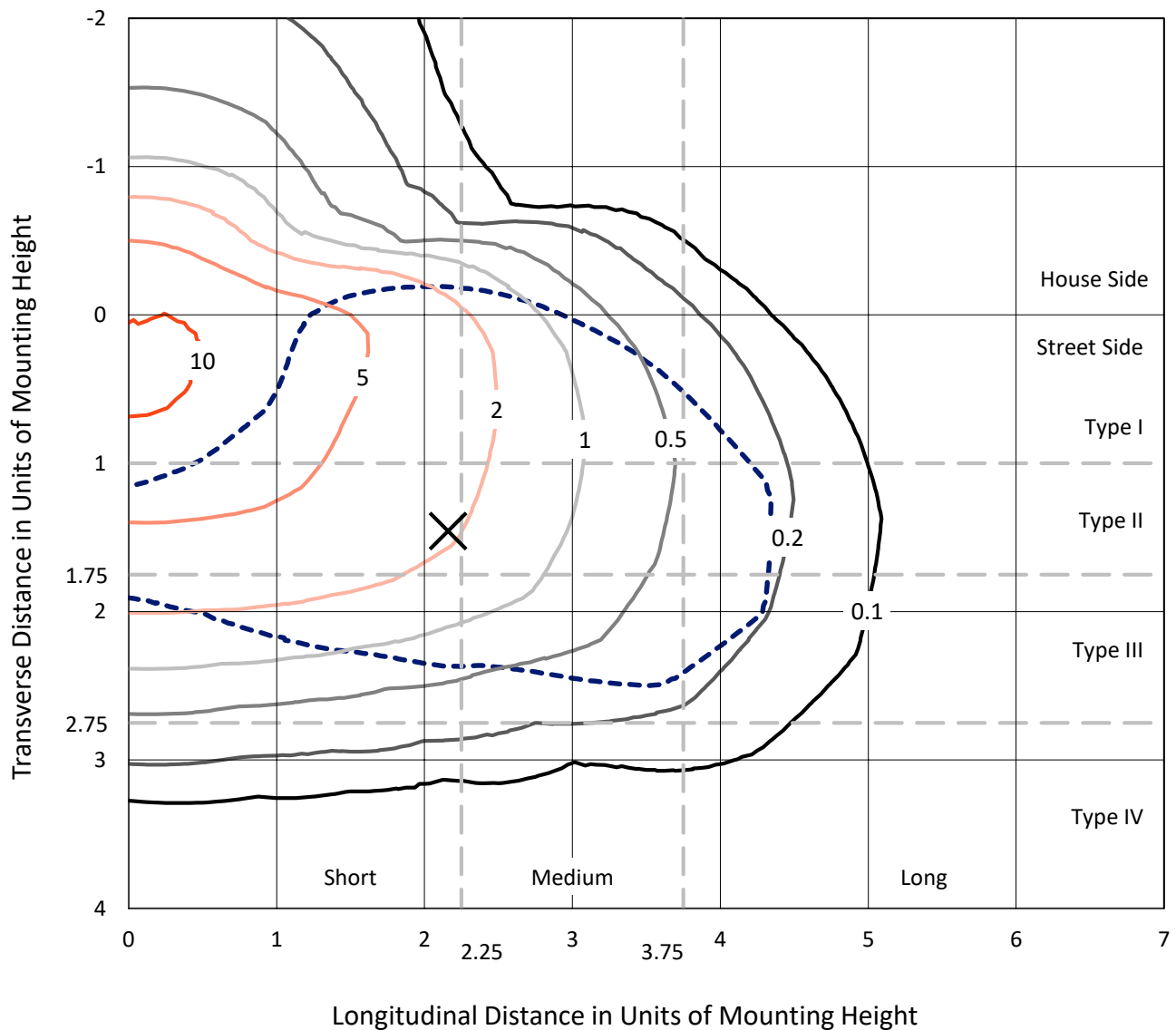


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Iso-Footcandle Lines of Horizontal Illumination

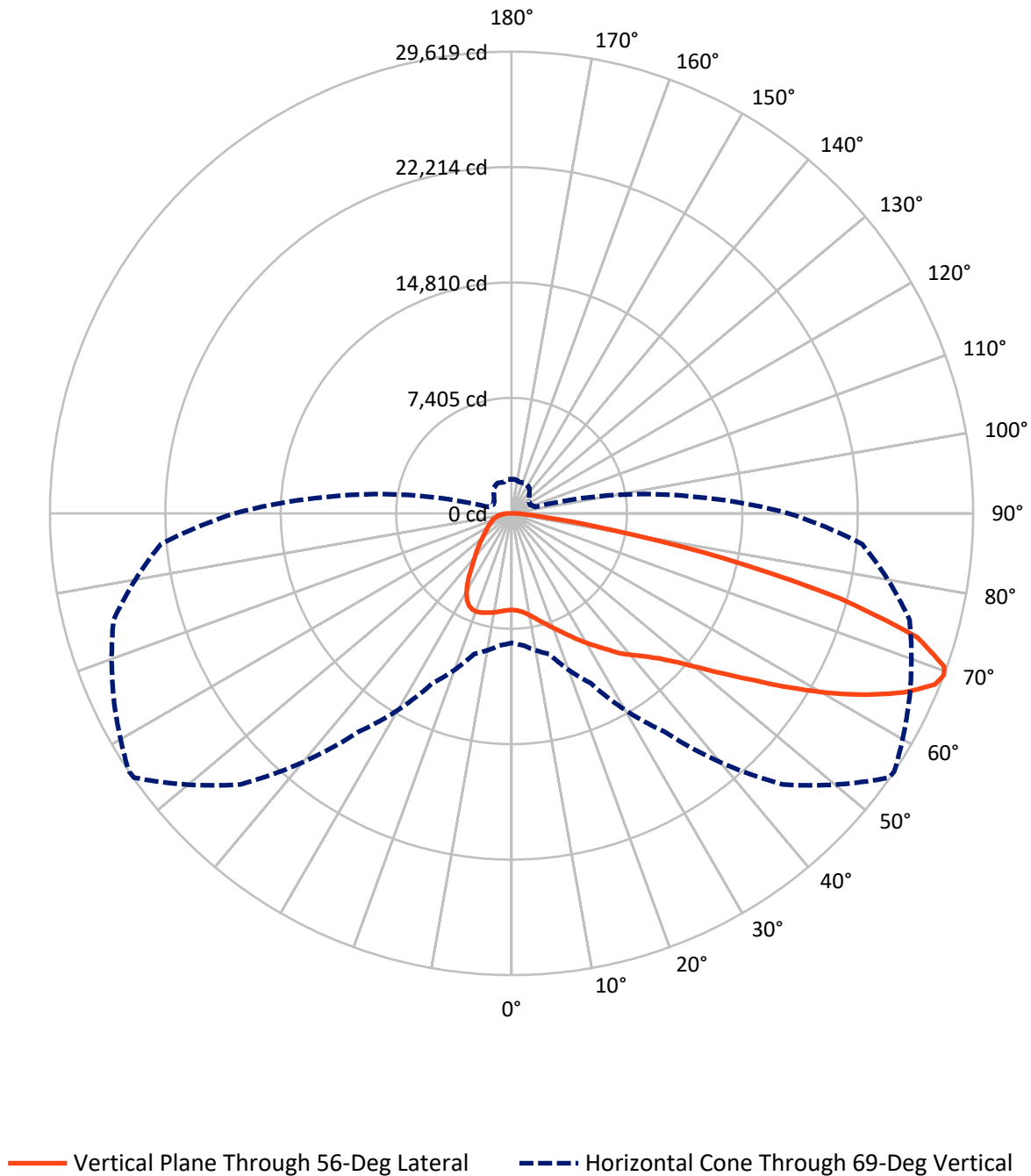
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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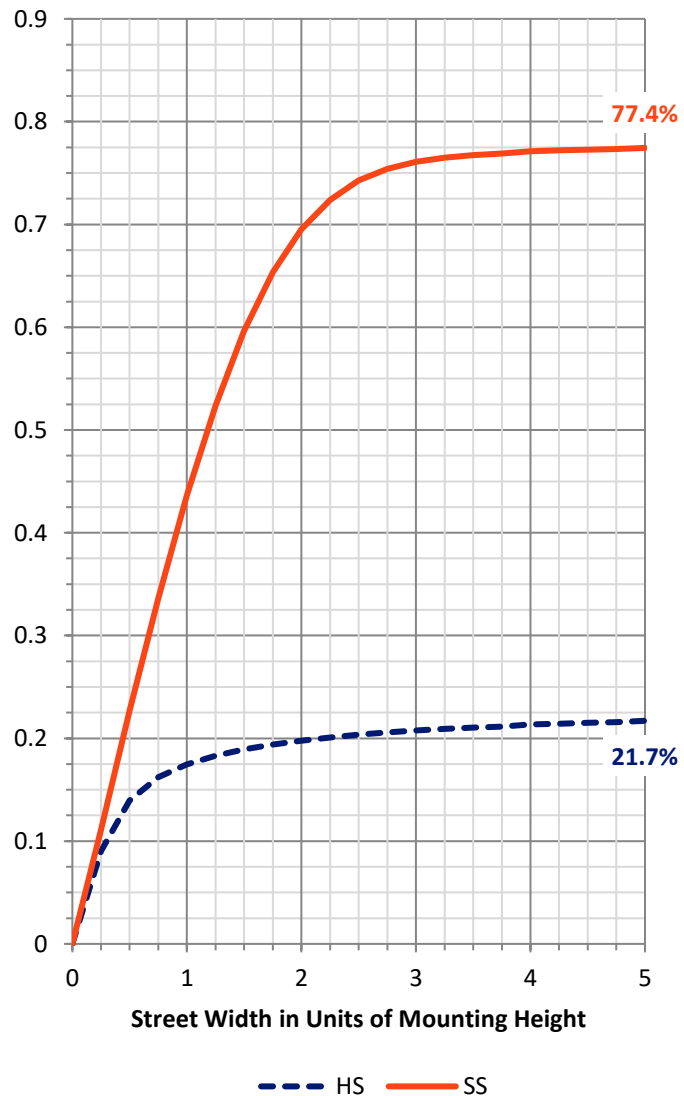
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10559.4	0.0	10559.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	36856.5	0.0	36856.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	47416.0	0.0	47416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.8	1.3
10°-20°	1957.8	4.1
20°-30°	3417.5	7.2
30°-40°	4909.1	10.4
40°-50°	6794.0	14.3
50°-60°	9954.1	21.0
60°-70°	12135.9	25.6
70°-80°	6709.5	14.2
80°-90°	929.3	2.0
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°	47416.0	100.0
0°-180°	47416.0	100.0

Coefficient of Utilization



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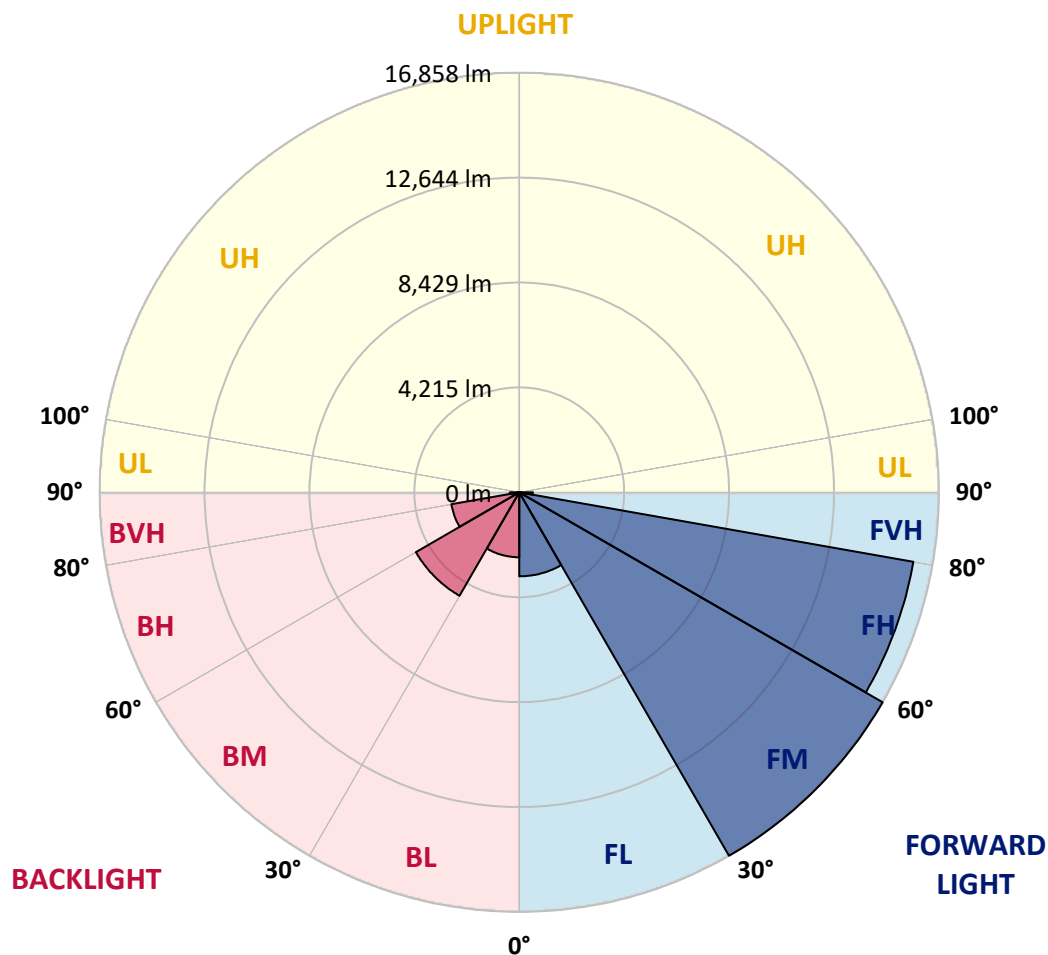
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3374.6	7.1			
FM	(30°-60°)	16858.2	35.6			
FH	(60°-80°)	16076.4	33.9			G5
FVH	(80°-90°)	547.4	1.2			G4/750
BL	(0°-30°)	2609.5	5.5	B4/5000		
BM	(30°-60°)	4799.0	10.1	B3/5000		
BH	(60°-80°)	2769.0	5.8	B4/5000		G4/5000
BVH	(80°-90°)	381.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9
2.5°	6238.1	6244.7	6239.8	6252.8	6238.1	6247.9	6239.8	6239.8	6234.9	6220.2	6203.8
5°	6336.1	6349.2	6341.0	6354.1	6336.1	6339.4	6324.7	6324.7	6310.0	6279.0	6246.3
7.5°	6489.7	6504.4	6497.8	6510.9	6486.4	6486.4	6466.8	6465.2	6435.8	6385.1	6347.6
10°	6672.6	6692.2	6685.7	6705.3	6685.7	6692.2	6672.6	6672.6	6633.4	6561.6	6514.2
12.5°	6938.9	6963.4	6945.4	6943.8	6935.6	6948.7	6932.3	6929.1	6893.1	6795.1	6729.8
15°	7295.0	7321.1	7283.5	7280.3	7234.5	7229.6	7229.6	7224.7	7201.9	7084.3	6976.4
17.5°	7705.0	7713.1	7680.5	7628.2	7569.4	7531.8	7526.9	7540.0	7540.0	7402.8	7231.3
20°	8106.8	8121.5	8095.4	8036.6	7961.4	7905.9	7866.7	7892.8	7891.2	7727.8	7484.5
22.5°	8544.6	8578.9	8539.7	8464.5	8376.3	8314.2	8245.6	8268.5	8270.1	8069.2	7732.7
25°	9111.4	9080.3	9055.8	8949.7	8823.9	8760.2	8696.5	8719.3	8712.8	8436.7	7989.2
27.5°	9612.8	9619.4	9586.7	9474.0	9328.6	9188.1	9184.9	9199.6	9175.1	8819.0	8230.9
30°	10196.0	10199.2	10153.5	10052.2	9893.8	9712.5	9670.0	9694.5	9642.2	9181.6	8485.8
32.5°	10775.8	10792.2	10741.5	10619.0	10491.6	10271.1	10186.2	10202.5	10071.8	9552.4	8748.7
35°	11283.8	11306.7	11290.4	11208.7	11069.9	10880.4	10779.1	10769.3	10607.6	10006.5	9096.7
37.5°	11801.6	11822.9	11804.9	11736.3	11680.8	11479.9	11426.0	11426.0	11145.0	10470.4	9539.3
40°	12334.2	12366.8	12345.6	12250.8	12203.5	12112.0	11983.0	11951.9	11648.1	11027.4	10261.3
42.5°	12829.1	12871.6	12956.5	12901.0	12804.6	12817.7	12557.9	12541.6	12319.5	11850.7	11167.9
45°	13531.5	13593.5	13737.3	13694.8	13675.2	13603.3	13294.6	13279.9	13195.0	12958.1	12293.3
47.5°	14297.6	14382.5	14642.2	14650.4	14861.1	14725.5	14305.7	14255.1	14274.7	14284.5	13667.0
50°	15003.2	15096.3	15522.6	15723.6	16220.1	16249.5	15578.2	15532.4	15609.2	15834.6	15267.8
52.5°	15566.7	15684.4	16216.9	16837.6	17688.6	17930.3	17144.7	17110.3	17167.5	17556.3	17077.7
55°	15980.0	16107.4	16687.3	17817.6	19176.7	19603.0	18948.0	18915.3	18951.2	19446.2	19046.0
57.5°	16076.4	16107.4	16948.6	18477.5	20432.8	21456.9	21154.8	21089.4	20913.0	21344.2	21218.5
60°	15623.9	15748.1	16733.0	18709.5	21404.7	23284.8	23461.2	23379.5	22884.6	23237.4	23136.1
62.5°	14705.9	14928.1	15927.7	18356.7	21785.3	24777.7	25723.5	25625.5	24772.8	25001.5	24514.8
65°	13206.4	13301.2	14351.5	17139.8	21301.8	25733.3	27740.8	27691.8	26618.6	26260.9	24769.6
67.5°	10524.3	10702.3	11594.2	14596.5	19323.7	25620.6	29300.8	29295.9	27824.1	26728.1	23866.3
69°	8314.2	8498.8	9348.2	12023.8	17098.9	24589.9	29562.1	29619.3	28163.9	26443.9	22575.9
70°	6628.5	6842.5	7425.6	10127.4	15124.1	23230.9	29344.9	29447.8	28098.5	25975.1	21385.1
72.5°	2821.0	2994.1	3409.0	5220.5	9217.5	17347.2	26831.0	27219.7	26584.3	23773.2	17673.9
75°	1231.6	1285.5	1473.4	2128.4	4091.8	9441.3	21019.2	21737.9	22731.0	20094.7	13165.6
77.5°	901.7	924.5	1027.4	1249.6	1836.0	3565.8	13516.8	13934.9	16393.3	14622.6	8075.8
80°	697.5	713.8	793.9	918.0	1198.9	1442.3	6164.6	6524.0	9217.5	7510.6	3363.3
82.5°	555.4	566.8	622.3	676.2	828.2	873.9	2046.7	2270.5	3402.5	2074.5	890.2
85°	516.2	529.2	548.8	493.3	530.9	512.9	885.3	926.2	1027.4	815.1	372.4
87.5°	233.6	276.1	543.9	383.9	282.6	225.4	362.6	379.0	426.3	428.0	165.0
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°	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9	6198.9
2.5°	6213.6	6208.7	6216.9	6197.3	6221.8	6220.2	6212.0	6215.3	6231.6	6230.0	6231.6
5°	6251.2	6247.9	6257.7	6243.0	6272.4	6282.2	6283.9	6298.6	6316.5	6321.4	6321.4
7.5°	6345.9	6345.9	6350.8	6331.2	6350.8	6349.2	6341.0	6355.7	6373.7	6375.3	6373.7
10°	6509.3	6510.9	6502.7	6452.1	6435.8	6391.7	6350.8	6352.5	6375.3	6393.3	6398.2
12.5°	6715.1	6708.6	6672.6	6579.5	6510.9	6421.1	6378.6	6377.0	6399.8	6414.5	6419.4
15°	6950.3	6932.3	6839.2	6687.3	6566.5	6478.2	6409.6	6393.3	6380.2	6363.9	6365.5
17.5°	7172.5	7131.6	6976.4	6765.7	6638.3	6520.7	6388.4	6282.2	6208.7	6166.3	6153.2
20°	7397.9	7317.8	7094.1	6839.2	6677.5	6463.5	6208.7	5993.1	5859.2	5797.1	5785.7
22.5°	7603.7	7474.6	7203.5	6916.0	6646.5	6270.8	5870.6	5557.0	5370.8	5287.5	5294.0
25°	7804.6	7624.9	7317.8	6969.9	6489.7	5931.0	5400.2	5014.7	4799.1	4706.0	4702.7
27.5°	7981.0	7776.8	7442.0	6925.8	6197.3	5447.5	4843.2	4467.5	4287.8	4207.8	4194.7
30°	8183.6	7968.0	7607.0	6757.6	5769.3	4888.9	4299.2	4034.6	3907.2	3827.2	3812.5
32.5°	8430.2	8227.7	7742.5	6452.1	5222.1	4305.8	3874.5	3690.0	3574.0	3484.1	3467.8
35°	8789.6	8570.7	7776.8	6014.3	4621.0	3845.1	3562.5	3373.1	3216.3	3100.3	3088.8
37.5°	9240.4	9000.3	7698.4	5447.5	4037.9	3546.2	3302.8	3069.2	2865.1	2701.7	2675.6
40°	9890.5	9527.9	7481.2	4794.2	3608.3	3315.9	3049.6	2783.4	2530.2	2339.1	2301.5
42.5°	10671.3	10147.0	7148.0	4144.1	3293.0	3082.3	2798.1	2468.1	2226.4	2090.8	2071.2
45°	11664.4	10790.5	6685.7	3575.6	2982.7	2848.7	2526.9	2223.1	2072.8	1973.2	1956.9
47.5°	12798.1	11512.5	6200.6	3113.3	2719.7	2629.8	2309.7	2113.7	1994.4	1916.0	1901.3
50°	14191.4	12327.6	5686.0	2734.4	2455.1	2366.9	2206.8	2053.2	1958.5	1898.1	1883.4
52.5°	15762.8	13247.2	5315.2	2435.5	2236.2	2172.5	2152.9	2020.6	1943.8	1898.1	1883.4
55°	17455.0	14183.2	4915.0	2183.9	2046.7	2064.7	2116.9	2023.8	1971.6	1916.0	1894.8
57.5°	19148.9	15150.2	4469.1	1971.6	1896.4	1984.6	2092.4	2030.4	1986.3	1932.4	1912.8
60°	20488.3	15762.8	3778.2	1793.5	1777.2	1896.4	2033.6	1981.4	1924.2	1925.8	1922.6
62.5°	21113.9	15730.1	3015.3	1635.1	1657.9	1777.2	1938.9	1904.6	1857.2	1920.9	1925.8
65°	20762.7	14946.0	2347.3	1491.3	1530.5	1653.0	1840.9	1867.0	1883.4	2005.9	2022.2
67.5°	19289.4	13420.4	1818.0	1365.6	1414.6	1568.1	1850.7	2033.6	2054.9	2183.9	2182.3
69°	17765.4	11989.5	1579.5	1300.2	1357.4	1589.3	1978.1	2139.8	2059.8	2197.0	2177.4
70°	16488.0	10857.5	1452.1	1256.1	1331.3	1626.9	2063.0	2138.2	2035.3	2152.9	2120.2
72.5°	12698.4	7811.1	1231.6	1174.4	1243.1	1556.7	2087.5	2090.8	1978.1	2001.0	1945.4
75°	8709.5	4936.3	1074.8	1063.4	1109.1	1403.1	2009.1	1997.7	1829.5	1796.8	1751.1
77.5°	4802.3	2507.3	913.1	957.2	988.2	1243.1	1826.2	1809.9	1671.0	1602.4	1586.1
80°	1852.3	1097.7	771.0	851.0	870.6	1076.4	1600.8	1586.1	1470.1	1381.9	1357.4
82.5°	699.1	575.0	637.0	736.7	730.2	888.6	1355.8	1347.6	1234.9	1105.8	1066.6
85°	323.4	344.7	504.7	607.6	560.3	658.3	1084.6	1099.3	962.1	808.6	808.6
87.5°	137.2	192.7	357.7	459.0	377.3	444.3	795.5	759.6	697.5	483.5	454.1
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)