

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: P319289

Luminaire Tested: **GAN-SA5C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28962 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 279
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

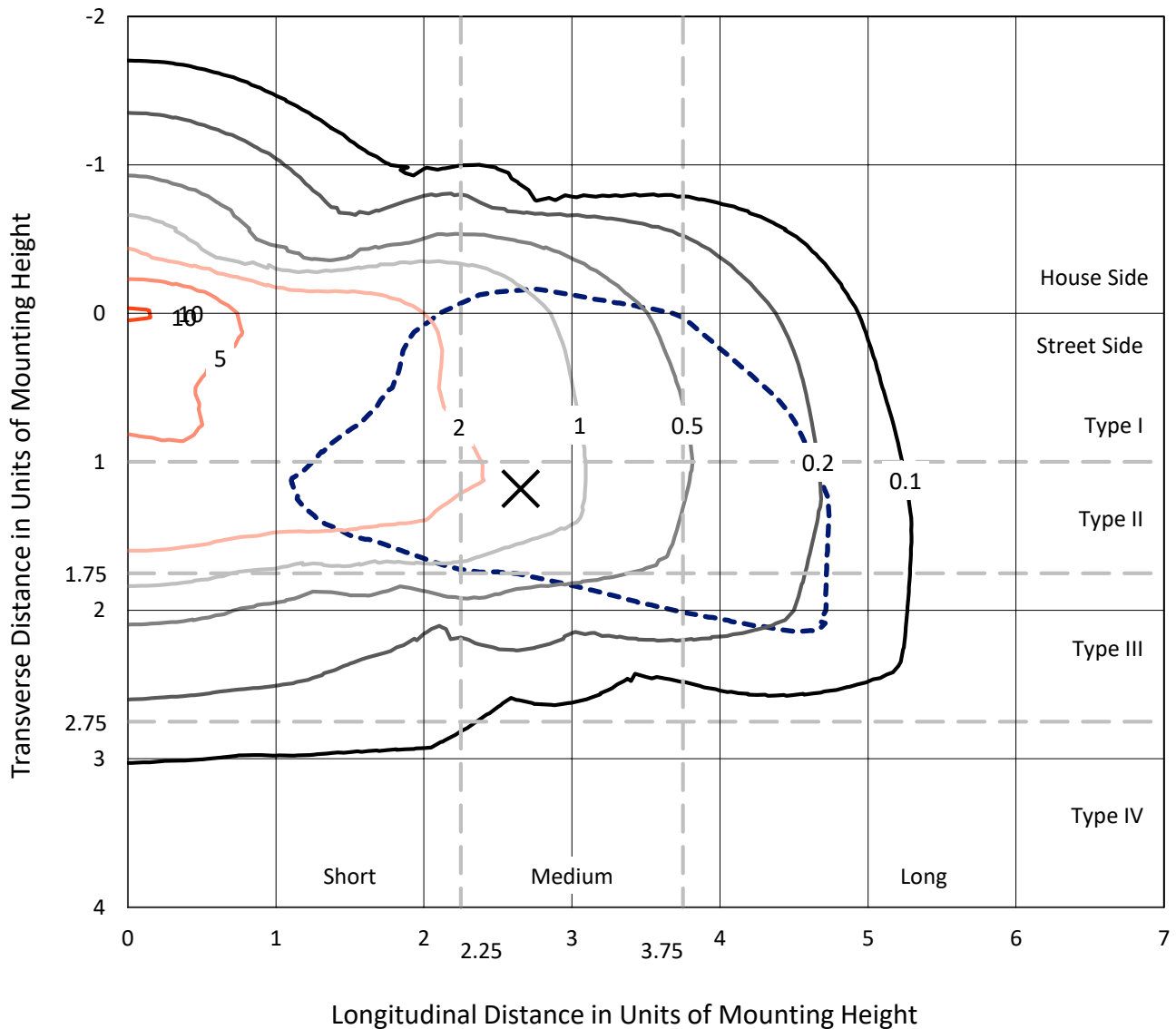


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Iso-Footcandle Lines of Horizontal Illumination

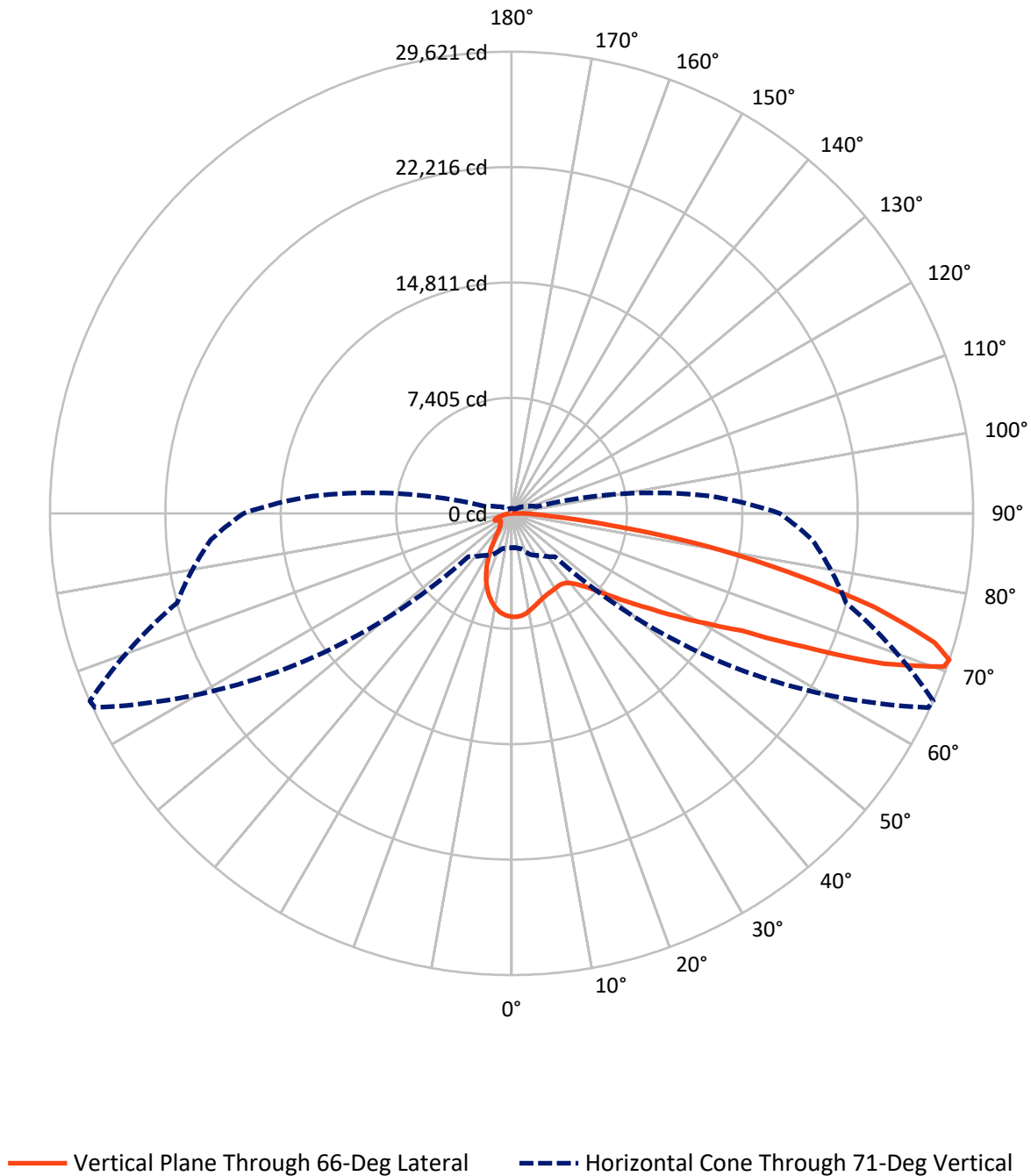
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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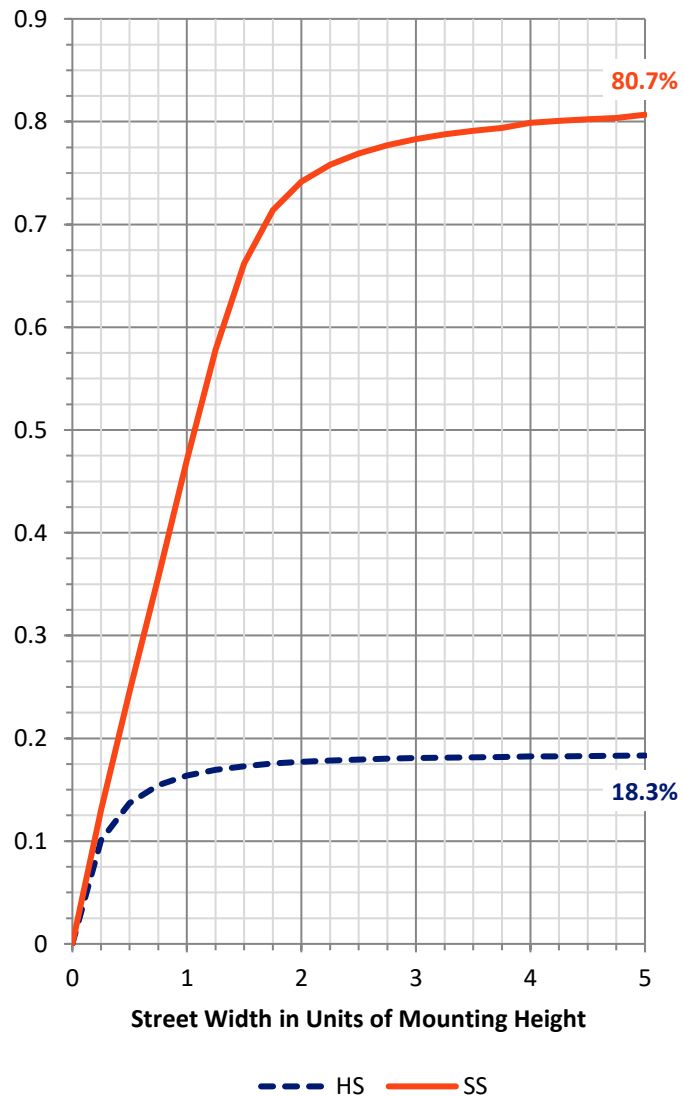
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5367.5	0.0	5367.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	23594.5	0.0	23594.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	28962.0	0.0	28962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.0	2.0
10°-20°	1400.7	4.8
20°-30°	1881.5	6.5
30°-40°	2475.1	8.5
40°-50°	3600.6	12.4
50°-60°	5624.5	19.4
60°-70°	7045.6	24.3
70°-80°	5374.2	18.6
80°-90°	975.9	3.4
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°	28962.0	100.0
0°-180°	28962.0	100.0

Coefficient of Utilization



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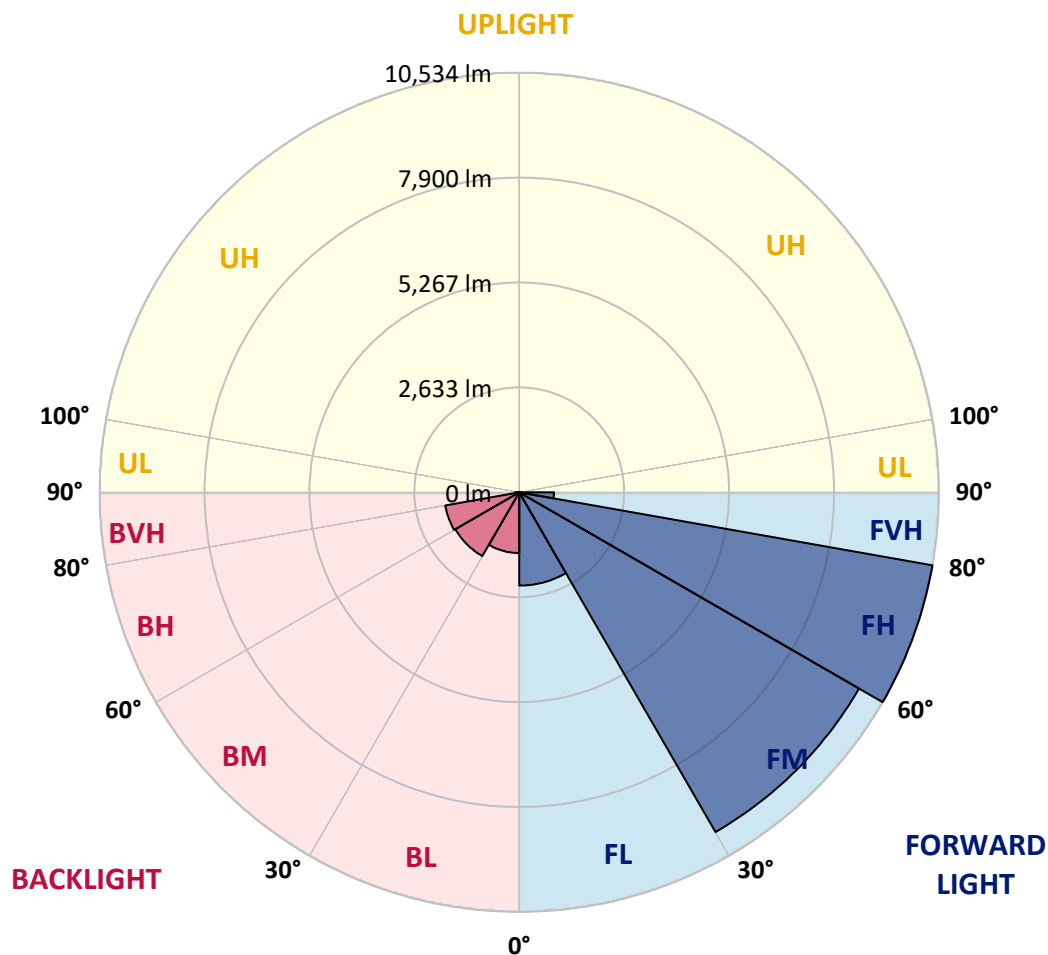
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2342.0	8.1			
FM	(30°-60°)	9848.5	34.0			
FH	(60°-80°)	10533.8	36.4			G4/12000
FVH	(80°-90°)	870.3	3.0			G5
BL	(0°-30°)	1524.2	5.3	B3/2500		
BM	(30°-60°)	1851.6	6.4	B2/2500		
BH	(60°-80°)	1886.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	105.6	0.4			G2/225
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°	65°	66°	75°	85°
0°	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6
2.5°	6511.6	6501.6	6531.6	6562.6	6574.6	6594.6	6624.6	6641.6	6640.6	6643.6	6633.6
5°	6079.7	6066.7	6126.7	6175.7	6269.7	6375.6	6504.6	6596.6	6598.6	6650.6	6664.6
7.5°	5670.7	5661.7	5730.7	5809.7	5918.7	6080.7	6289.7	6487.6	6499.6	6640.6	6689.6
10°	5342.7	5340.7	5407.7	5493.7	5620.7	5801.7	6041.7	6331.7	6349.6	6592.6	6693.6
12.5°	5086.7	5090.7	5148.7	5246.7	5380.7	5569.7	5829.7	6156.7	6185.7	6516.6	6670.6
15°	4897.7	4913.7	4960.7	5059.7	5191.7	5383.7	5650.7	5994.7	6038.7	6431.6	6657.6
17.5°	4789.7	4807.7	4840.7	4922.7	5046.7	5231.7	5484.7	5861.7	5901.7	6366.6	6658.6
20°	4757.7	4772.7	4791.7	4841.7	4946.7	5114.7	5353.7	5741.7	5784.7	6314.7	6668.6
22.5°	4820.7	4831.7	4833.7	4829.7	4893.7	5030.7	5258.7	5653.7	5699.7	6280.7	6675.6
25°	4955.7	4970.7	4959.7	4922.7	4901.7	4985.7	5209.7	5595.7	5641.7	6255.7	6661.6
27.5°	5158.7	5160.7	5151.7	5103.7	5004.7	4990.7	5194.7	5561.7	5605.7	6226.7	6632.6
30°	5434.7	5447.7	5431.7	5366.7	5204.7	5070.7	5212.7	5528.7	5568.7	6189.7	6585.6
32.5°	5757.7	5789.7	5788.7	5720.7	5488.7	5249.7	5286.7	5508.7	5539.7	6150.7	6528.6
35°	6092.7	6136.7	6218.7	6189.7	5902.7	5532.7	5428.7	5540.7	5561.7	6145.7	6488.6
37.5°	6440.6	6484.6	6653.6	6731.6	6395.6	5937.7	5652.7	5653.7	5663.7	6206.7	6485.6
40°	6804.6	6851.6	7105.6	7308.6	7034.6	6450.6	6013.7	5889.7	5878.7	6356.6	6544.6
42.5°	7314.6	7356.6	7661.6	7920.6	7743.6	7107.6	6512.6	6253.7	6230.7	6650.6	6733.6
45°	7959.6	7995.6	8319.5	8596.5	8505.5	7857.6	7139.6	6754.6	6750.6	7140.6	7116.6
47.5°	8726.5	8754.5	9045.5	9313.5	9346.5	8720.5	7927.6	7527.6	7462.6	7812.6	7709.6
50°	9525.5	9556.5	9754.5	10042.4	10287.4	9875.5	8941.5	8474.5	8387.5	8699.5	8549.5
52.5°	10054.4	10095.4	10267.4	10632.4	11345.4	11141.4	10140.4	9622.5	9490.5	9774.5	9659.5
55°	9818.5	9910.5	10173.4	10758.4	12191.3	13075.3	11619.4	10961.4	10812.4	11048.4	10980.4
57.5°	8745.5	8871.5	9230.5	10133.4	12310.3	14779.2	13855.2	12538.3	12433.3	12365.3	12396.3
60°	6784.6	6905.6	7350.6	8527.5	11481.4	16023.1	17220.0	14482.2	14330.2	13687.2	13715.2
62.5°	4801.7	4740.7	5045.7	5906.7	9329.5	16169.1	21048.8	17082.1	16582.1	15083.2	14960.2
65°	3661.8	3647.8	3784.8	4058.8	5650.7	14422.2	23329.7	21451.8	20670.9	16725.1	16435.1
67.5°	3008.8	2983.8	3118.8	3517.8	3638.8	9304.5	23379.7	26521.5	25754.6	18769.0	18141.0
70°	2473.9	2445.9	2571.9	3086.8	3362.8	4718.7	19676.9	29490.4	29449.4	21356.8	19428.9
71°	2217.9	2197.9	2348.9	2920.8	3303.8	3932.8	16989.1	29498.4	29621.4	22232.8	19352.9
72.5°	1805.9	1812.9	1972.9	2599.9	3259.8	3472.8	12486.3	28123.4	28383.4	23067.7	18662.0
75°	1199.9	1205.9	1415.9	1999.9	3160.8	3397.8	6862.6	23598.7	24076.7	22567.8	17029.1
77.5°	806.0	804.0	946.9	1371.9	2753.8	3397.8	4023.8	17650.0	18175.0	17957.0	13128.3
80°	555.0	551.0	652.0	946.9	2084.9	3438.8	3110.8	12369.3	12528.3	9697.5	5335.7
82.5°	340.0	343.0	426.0	669.0	1418.9	3094.8	2936.8	6744.6	6571.6	2719.8	1332.9
85°	195.0	194.0	272.0	453.0	910.9	2611.9	2863.8	2902.8	2662.9	819.0	482.0
87.5°	70.0	75.0	146.0	251.0	522.0	1818.9	2429.9	1509.9	1360.9	370.0	218.0
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°	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6	6634.6
2.5°	6626.6	6632.6	6625.6	6585.6	6551.6	6496.6	6465.6	6422.6	6409.6	6403.6	6419.6
5°	6651.6	6653.6	6594.6	6489.6	6371.6	6232.7	6132.7	6009.7	5951.7	5926.7	5942.7
7.5°	6674.6	6665.6	6536.6	6335.7	6117.7	5875.7	5660.7	5463.7	5348.7	5301.7	5305.7
10°	6677.6	6639.6	6432.6	6121.7	5783.7	5428.7	5098.7	4794.7	4602.7	4477.8	4515.8
12.5°	6646.6	6582.6	6279.7	5844.7	5375.7	4891.7	4445.8	3989.8	3715.8	3588.8	3592.8
15°	6622.6	6506.6	6091.7	5518.7	4888.7	4247.8	3638.8	3102.8	2810.8	2680.9	2619.9
17.5°	6602.6	6424.6	5873.7	5151.7	4313.8	3500.8	2768.8	2290.9	2130.9	2092.9	2076.9
20°	6574.6	6337.6	5630.7	4726.7	3658.8	2664.9	2021.9	1785.9	1786.9	1830.9	1836.9
22.5°	6535.6	6238.7	5371.7	4249.8	2955.8	1940.9	1584.9	1516.9	1585.9	1669.9	1684.9
25°	6477.6	6121.7	5083.7	3722.8	2253.9	1491.9	1353.9	1350.9	1434.9	1522.9	1535.9
27.5°	6395.6	5968.7	4763.7	3156.8	1660.9	1267.9	1212.9	1233.9	1295.9	1359.9	1364.9
30°	6285.7	5790.7	4410.8	2559.9	1301.9	1128.9	1122.9	1141.9	1179.9	1224.9	1228.9
32.5°	6164.7	5609.7	4033.8	1981.9	1114.9	1053.9	1059.9	1068.9	1086.9	1104.9	1108.9
35°	6054.7	5424.7	3647.8	1505.9	1025.9	1004.9	1000.9	998.9	1000.9	994.9	995.9
37.5°	5983.7	5271.7	3245.8	1198.9	974.9	961.9	949.9	934.9	917.9	907.9	909.9
40°	5957.7	5157.7	2838.8	1035.9	932.9	923.9	901.0	869.0	849.0	843.0	843.0
42.5°	6027.7	5098.7	2445.9	953.9	898.0	883.0	845.0	808.0	793.0	792.0	791.0
45°	6241.7	5122.7	2071.9	908.9	866.0	837.0	787.0	756.0	746.0	748.0	747.0
47.5°	6625.6	5273.7	1751.9	879.0	834.0	796.0	740.0	715.0	703.0	703.0	704.0
50°	7278.6	5626.7	1496.9	854.0	807.0	758.0	706.0	675.0	659.0	658.0	658.0
52.5°	8229.5	6258.7	1337.9	833.0	777.0	724.0	672.0	633.0	614.0	610.0	608.0
55°	9421.5	7164.6	1293.9	819.0	737.0	687.0	631.0	592.0	571.0	562.0	561.0
57.5°	10754.4	8266.5	1380.9	802.0	696.0	643.0	586.0	549.0	527.0	516.0	515.0
60°	12103.3	9469.5	1735.9	778.0	662.0	595.0	540.0	506.0	484.0	472.0	470.0
62.5°	13454.3	10737.4	2460.9	776.0	638.0	549.0	493.0	464.0	443.0	430.0	427.0
65°	14978.2	12125.3	3284.8	829.0	630.0	507.0	445.0	422.0	404.0	392.0	391.0
67.5°	16728.1	13692.2	3205.8	937.9	657.0	469.0	400.0	382.0	369.0	359.0	358.0
70°	17549.0	13447.3	1992.9	1014.9	695.0	432.0	357.0	344.0	334.0	327.0	324.0
71°	17205.0	12768.3	1670.9	1005.9	691.0	416.0	340.0	330.0	320.0	314.0	311.0
72.5°	16267.1	11644.4	1393.9	935.9	646.0	387.0	318.0	308.0	299.0	292.0	290.0
75°	14597.2	10399.4	1115.9	748.0	515.0	327.0	279.0	268.0	261.0	257.0	253.0
77.5°	10730.4	7421.6	863.0	591.0	379.0	267.0	238.0	230.0	223.0	217.0	214.0
80°	4110.8	2874.8	581.0	441.0	278.0	211.0	192.0	188.0	181.0	177.0	177.0
82.5°	1106.9	859.0	310.0	267.0	186.0	154.0	147.0	145.0	139.0	131.0	132.0
85°	448.0	379.0	174.0	147.0	114.0	91.0	99.0	100.0	93.0	83.0	84.0
87.5°	197.0	161.0	97.0	65.0	50.0	35.0	45.0	45.0	41.0	34.0	31.0
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)