

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: P318642

Luminaire Tested: **GAN-SA8B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38531 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

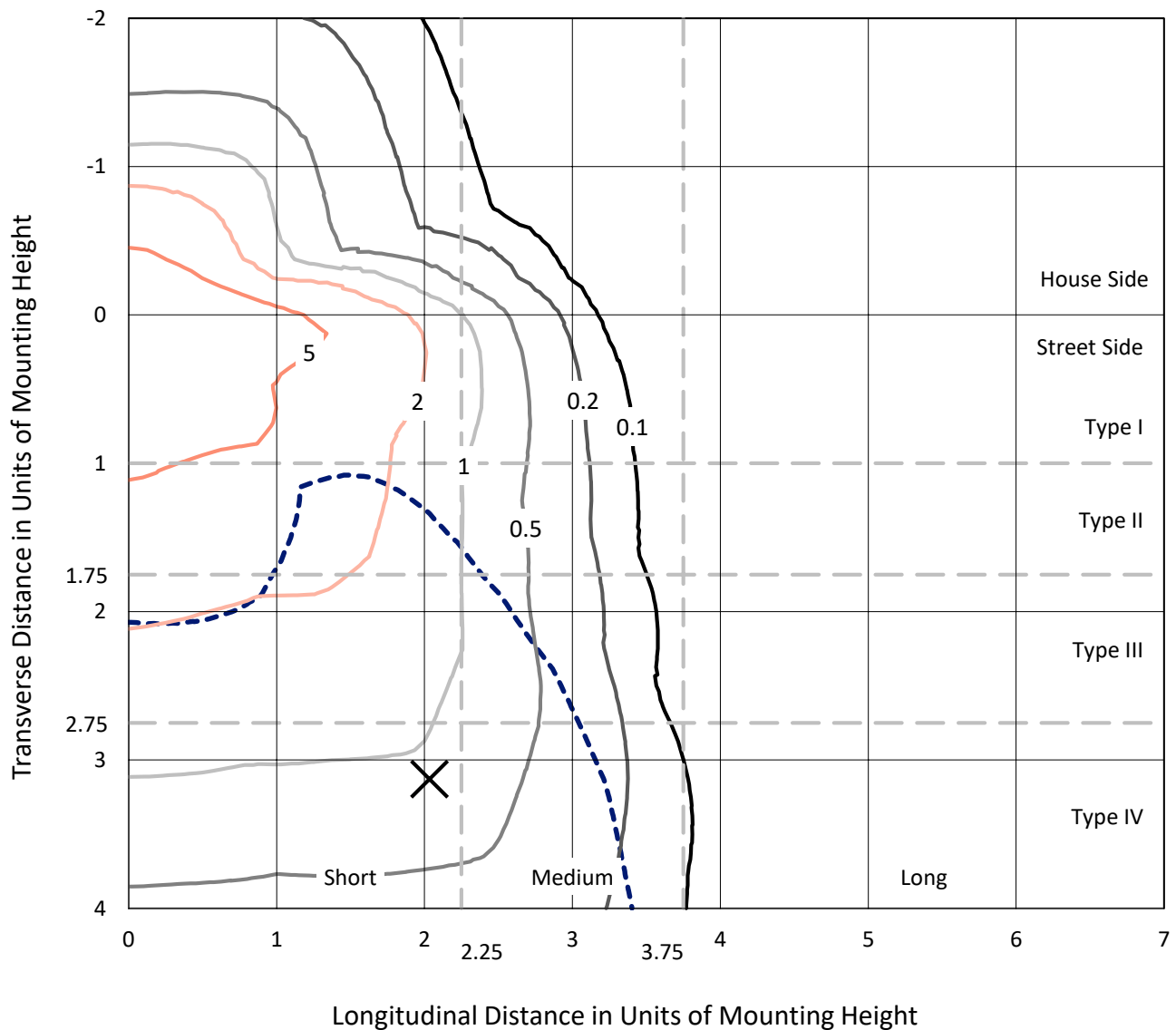
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

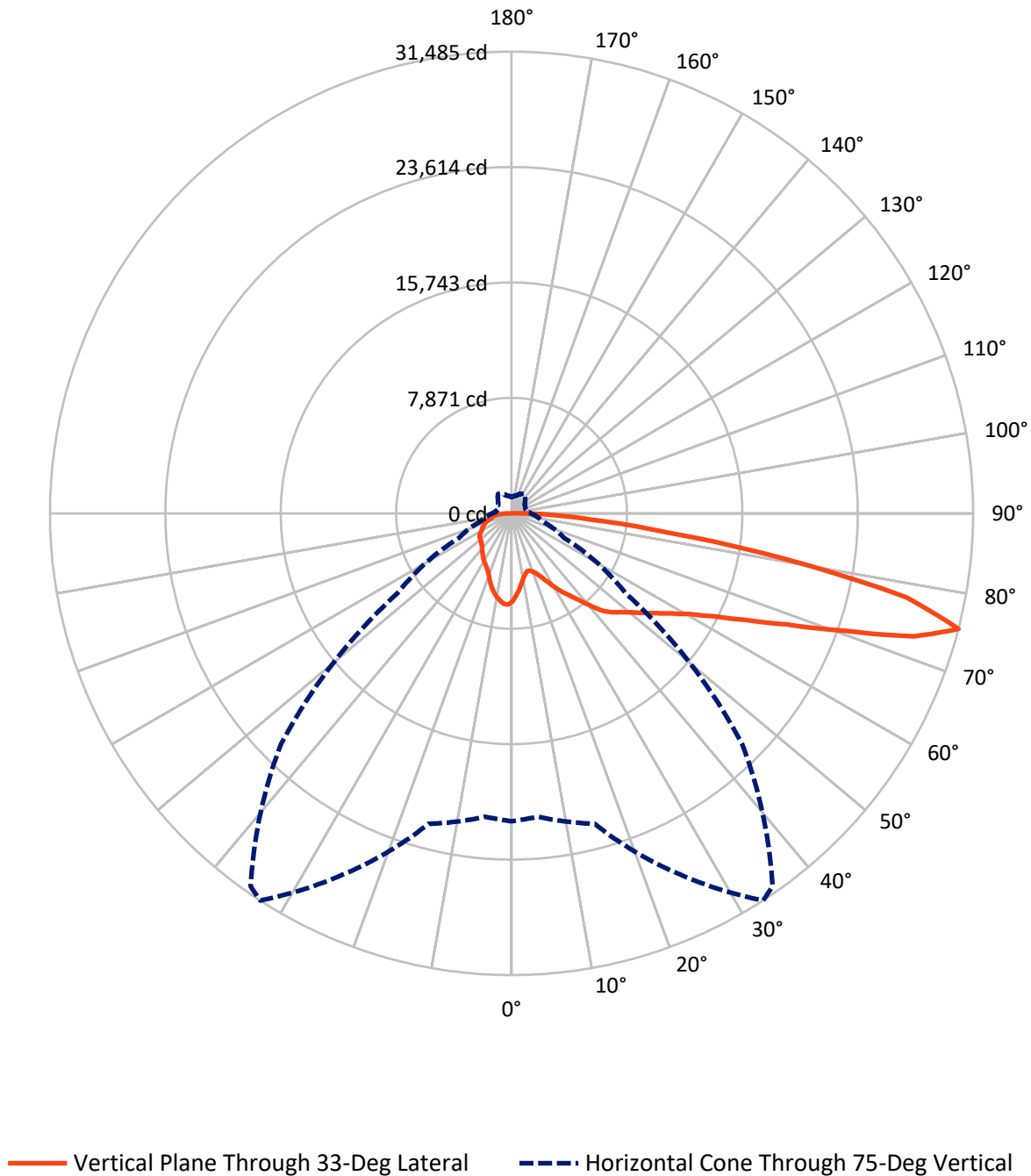
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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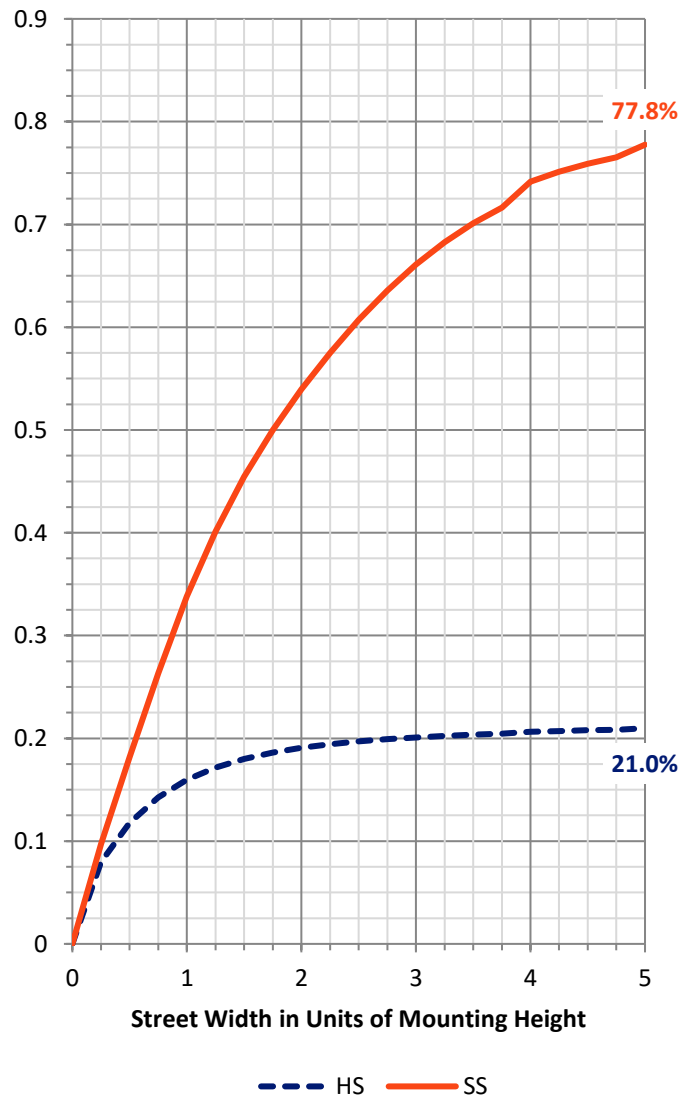
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8273.6	0.0	8273.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	30257.4	0.0	30257.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	38531.0	0.0	38531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.7	1.4
10°-20°	1475.2	3.8
20°-30°	2409.2	6.3
30°-40°	3587.9	9.3
40°-50°	5146.0	13.4
50°-60°	7064.7	18.3
60°-70°	8844.6	23.0
70°-80°	8001.3	20.8
80°-90°	1457.5	3.8
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°	38531.0	100.0
0°-180°	38531.0	100.0

Coefficient of Utilization



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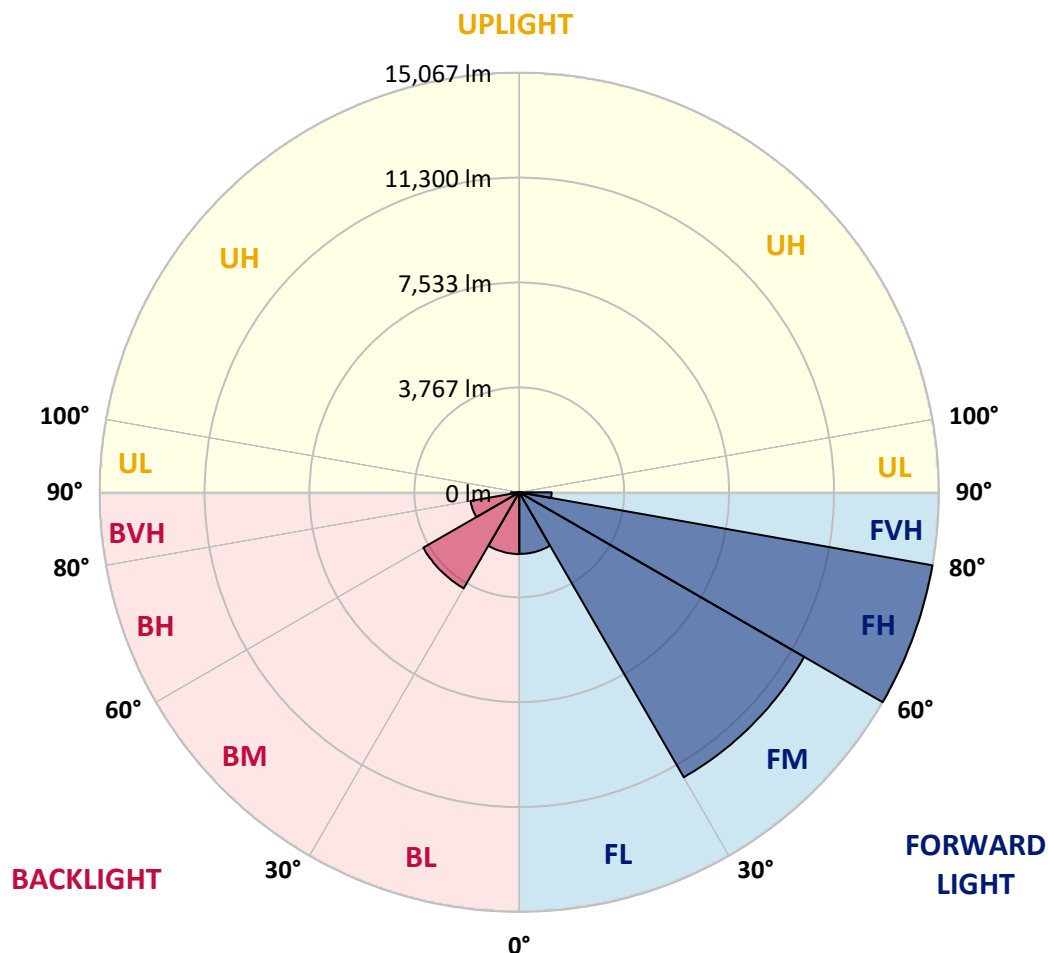
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2213.0	5.7			
FM	(30°-60°)	11816.7	30.7			
FH	(60°-80°)	15067.0	39.1			G5
FVH	(80°-90°)	1160.8	3.0			G5
BL	(0°-30°)	2216.1	5.8	B3/2500		
BM	(30°-60°)	3981.9	10.3	B3/5000		
BH	(60°-80°)	1779.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	296.7	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6
2.5°	5592.7	5571.4	5611.3	5616.7	5651.3	5664.6	5712.5	5787.0	5848.3	5918.8	5982.7
5°	5085.6	5071.0	5126.9	5166.8	5242.7	5274.6	5387.7	5546.1	5687.2	5846.9	5992.0
7.5°	4603.8	4595.8	4658.4	4748.9	4836.7	4880.6	5076.3	5306.6	5542.1	5800.3	6022.6
10°	4197.9	4195.2	4255.1	4344.3	4473.4	4522.6	4775.5	5079.0	5409.0	5764.4	6074.5
12.5°	3970.3	3979.6	4007.5	4082.1	4201.9	4251.1	4531.9	4888.6	5297.2	5752.4	6150.4
15°	4026.2	4040.8	3992.9	3990.2	4075.4	4114.0	4377.5	4752.9	5217.4	5772.4	6260.9
17.5°	4264.4	4267.1	4140.6	4060.8	4112.7	4132.6	4329.6	4675.7	5170.8	5817.6	6399.3
20°	4599.8	4593.2	4369.6	4236.5	4264.4	4269.7	4397.5	4677.0	5166.8	5896.2	6579.0
22.5°	5044.4	4995.1	4694.3	4513.3	4506.6	4498.7	4571.9	4775.5	5225.4	6023.9	6793.2
25°	5624.7	5578.1	5164.1	4916.6	4863.3	4843.4	4854.0	4985.8	5341.2	6161.0	7032.8
27.5°	6270.2	6189.0	5789.7	5439.6	5329.2	5301.2	5237.3	5282.6	5467.6	6292.8	7317.6
30°	6810.5	6766.6	6417.9	6002.6	5872.2	5832.3	5664.6	5615.3	5649.9	6472.5	7677.0
32.5°	7112.7	7083.4	6871.8	6536.4	6415.2	6359.3	6122.4	6023.9	5942.8	6756.0	8164.1
35°	7478.7	7460.1	7332.3	7088.7	6909.0	6850.5	6666.8	6564.3	6355.4	7145.9	8793.7
37.5°	7944.5	7924.6	7927.2	7730.2	7516.0	7461.4	7340.3	7232.5	6890.4	7658.4	9477.8
40°	8471.6	8433.0	8418.3	8409.0	8273.3	8242.7	8178.8	8032.4	7561.2	8270.6	10152.6
42.5°	9264.8	9127.7	8834.9	8945.4	9079.8	9063.9	9115.8	8905.5	8306.5	8994.7	10811.4
45°	10030.1	9805.2	9299.4	9323.4	9617.5	9706.7	10095.4	9946.3	9114.4	9787.9	11492.9
47.5°	10378.9	10208.5	9778.6	9779.9	10071.4	10256.4	11108.2	11001.7	9963.6	10689.0	12324.7
50°	10768.8	10598.5	10212.5	10357.6	10611.8	10808.8	12086.5	12031.9	10771.5	11675.2	13321.6
52.5°	11194.7	10905.9	10661.0	10920.6	11277.3	11506.2	13066.1	12917.0	11512.8	12668.1	14467.6
55°	11200.1	11121.5	11307.9	11498.2	12031.9	12312.7	14092.2	13698.3	12117.1	13643.7	15400.6
57.5°	11837.6	11709.8	12105.1	12193.0	12890.4	13207.2	15113.1	14378.4	12732.0	14391.7	15903.7
60°	12681.4	12572.3	12895.7	13127.3	13952.5	14375.7	16203.2	15077.2	13215.1	14956.0	15879.7
62.5°	14138.8	14015.0	14011.1	14335.8	15447.2	15939.6	17426.3	15762.6	13406.8	15067.8	15202.3
65°	16272.4	16075.4	15704.0	15858.4	17511.5	18002.6	18793.2	16259.1	13153.9	14468.9	13457.4
67.5°	18348.7	18342.0	17885.5	18202.3	20237.3	20631.3	20350.4	16308.3	12364.7	12383.3	10361.6
70°	20418.3	20444.9	20367.7	21469.8	23920.1	24330.0	22008.8	15646.8	10590.5	8942.7	6207.6
72.5°	22058.1	22051.4	22440.1	25281.7	28699.6	28607.7	23406.3	13642.4	7603.8	4827.4	2966.7
75°	20996.0	20764.4	21922.3	27169.0	31485.3	31036.7	22217.8	9516.4	3946.3	2197.4	1597.2
77.5°	13694.3	13913.9	15613.5	22444.0	27540.3	26994.6	16300.3	4440.1	1859.4	1441.4	1157.9
80°	4959.2	5190.8	7311.0	12713.4	18974.2	18885.0	8027.0	1824.8	1257.8	1088.7	843.8
82.5°	1706.3	1791.5	2884.2	5645.9	10712.9	11112.2	3020.0	1036.8	914.4	772.0	577.6
85°	669.5	766.6	1319.0	2716.5	5403.7	5443.6	1223.2	620.2	636.2	505.8	316.8
87.5°	254.2	308.8	630.9	1261.8	2467.6	2266.6	437.9	295.5	362.0	300.8	150.4
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°	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6	6022.6
2.5°	6031.9	6059.9	6118.4	6158.4	6201.0	6212.9	6218.3	6228.9	6239.6	6235.6	6236.9
5°	6069.2	6123.8	6218.3	6258.2	6276.8	6255.5	6214.3	6181.0	6157.0	6143.7	6139.7
7.5°	6130.4	6207.6	6308.8	6302.1	6259.5	6165.0	6058.5	5978.7	5912.1	5888.2	5874.9
10°	6211.6	6302.1	6372.7	6296.8	6173.0	6009.3	5849.6	5725.8	5626.0	5587.4	5580.7
12.5°	6315.4	6407.3	6420.6	6259.5	6054.6	5831.0	5614.0	5450.3	5301.2	5253.3	5242.7
15°	6449.9	6536.4	6453.8	6194.3	5908.1	5607.4	5326.5	5104.2	4947.2	4888.6	4867.3
17.5°	6590.9	6673.5	6460.5	6086.5	5716.5	5342.5	4989.8	4762.2	4582.5	4514.6	4506.6
20°	6760.0	6797.2	6432.5	5932.1	5453.0	4999.1	4627.8	4413.5	4317.6	4269.7	4264.4
22.5°	6968.9	6929.0	6368.7	5723.1	5118.9	4602.5	4300.3	4200.5	4176.6	4165.9	4169.9
25°	7189.9	7067.4	6274.2	5450.3	4697.0	4205.8	4060.8	4088.7	4120.7	4116.7	4116.7
27.5°	7433.4	7208.5	6129.1	5088.3	4229.8	3881.1	3898.4	4000.9	4048.8	4047.5	4046.1
30°	7746.2	7368.2	5944.1	4653.0	3793.2	3652.2	3757.3	3882.4	3947.6	3945.0	3946.3
32.5°	8130.9	7543.9	5692.5	4167.2	3477.8	3483.1	3604.3	3728.0	3803.9	3797.2	3798.6
35°	8580.7	7740.9	5351.8	3688.1	3268.8	3348.7	3444.5	3531.0	3602.9	3593.6	3584.3
37.5°	9070.5	7933.9	4899.3	3259.5	3098.5	3223.6	3303.5	3318.1	3351.4	3327.4	3310.1
40°	9536.4	8081.6	4316.3	2908.2	2926.8	3117.1	3169.0	3110.5	3050.6	3042.6	3018.6
42.5°	9942.3	8130.9	3726.7	2627.3	2745.8	3005.3	3037.3	2914.8	2807.0	2756.4	2735.1
45°	10370.9	8148.2	3177.0	2391.7	2571.4	2905.5	2940.1	2776.4	2624.7	2515.5	2479.6
47.5°	10931.2	8273.3	2749.8	2217.4	2438.3	2838.9	2888.2	2665.9	2468.9	2313.2	2279.9
50°	11664.6	8520.8	2402.4	2084.3	2351.8	2795.0	2850.9	2558.1	2341.2	2153.5	2120.2
52.5°	12479.1	8748.4	2121.6	1976.5	2268.0	2717.8	2803.0	2480.9	2221.4	2005.8	1969.8
55°	13048.8	8574.1	1895.3	1864.7	2158.8	2607.4	2736.5	2415.7	2049.7	1862.0	1830.1
57.5°	13157.9	7977.8	1723.6	1748.9	2027.1	2468.9	2634.0	2270.6	1956.5	1799.5	1766.2
60°	12859.8	7147.3	1595.8	1642.4	1886.0	2294.6	2442.3	2168.1	1867.3	1732.9	1705.0
62.5°	12110.4	6296.8	1501.3	1546.6	1754.2	2117.6	2322.5	2060.3	1776.8	1657.0	1629.1
65°	10597.1	5286.6	1410.8	1461.4	1631.8	1964.5	2214.7	1960.5	1687.7	1595.8	1569.2
67.5°	7999.1	3959.6	1325.6	1370.9	1522.6	1831.4	2097.6	1862.0	1601.1	1542.6	1510.6
70°	4710.3	2479.6	1228.5	1276.4	1408.2	1693.0	1972.5	1754.2	1493.3	1466.7	1425.5
72.5°	2192.1	1492.0	1118.0	1164.6	1264.4	1508.0	1811.4	1613.1	1365.6	1307.0	1251.1
75°	1308.3	1091.4	987.6	1028.8	1099.4	1311.0	1609.1	1469.4	1244.5	1167.3	1108.7
77.5°	978.3	834.5	843.8	887.8	945.0	1147.3	1425.5	1356.3	1151.3	1091.4	1051.5
80°	704.1	633.5	688.1	736.0	795.9	1043.5	1365.6	1253.8	1040.8	961.0	923.7
82.5°	469.8	455.2	517.7	567.0	625.6	913.0	1283.0	1098.0	889.1	787.9	705.4
85°	259.5	274.2	348.7	370.0	420.6	642.9	1051.5	882.4	669.5	539.0	515.1
87.5°	107.8	126.4	187.7	181.0	223.6	383.3	692.1	532.4	425.9	318.1	247.6
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)