

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: P319281

Luminaire Tested: **GAN-SA7B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319281
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-SA7B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 33114 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

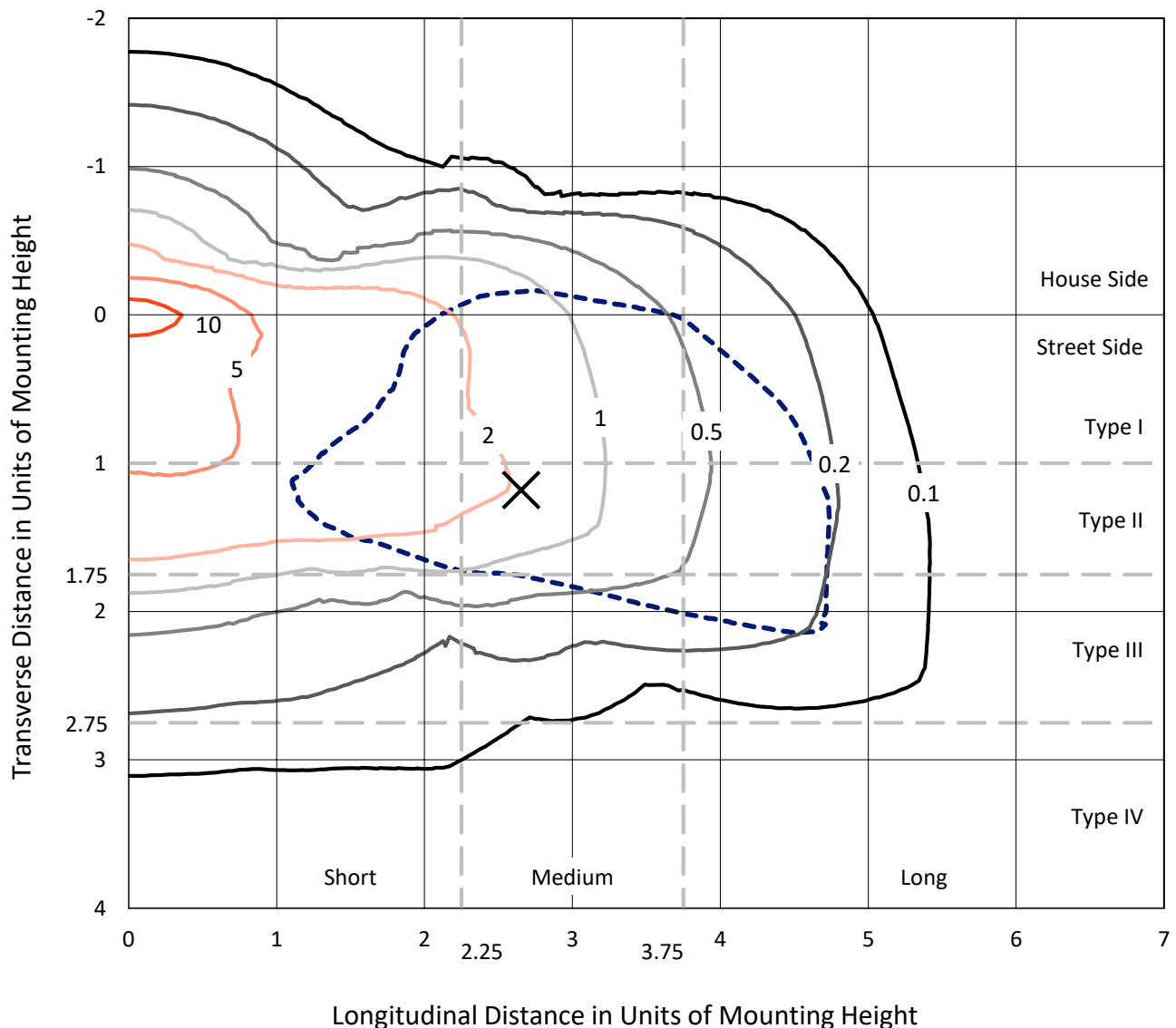


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Iso-Footcandle Lines of Horizontal Illumination

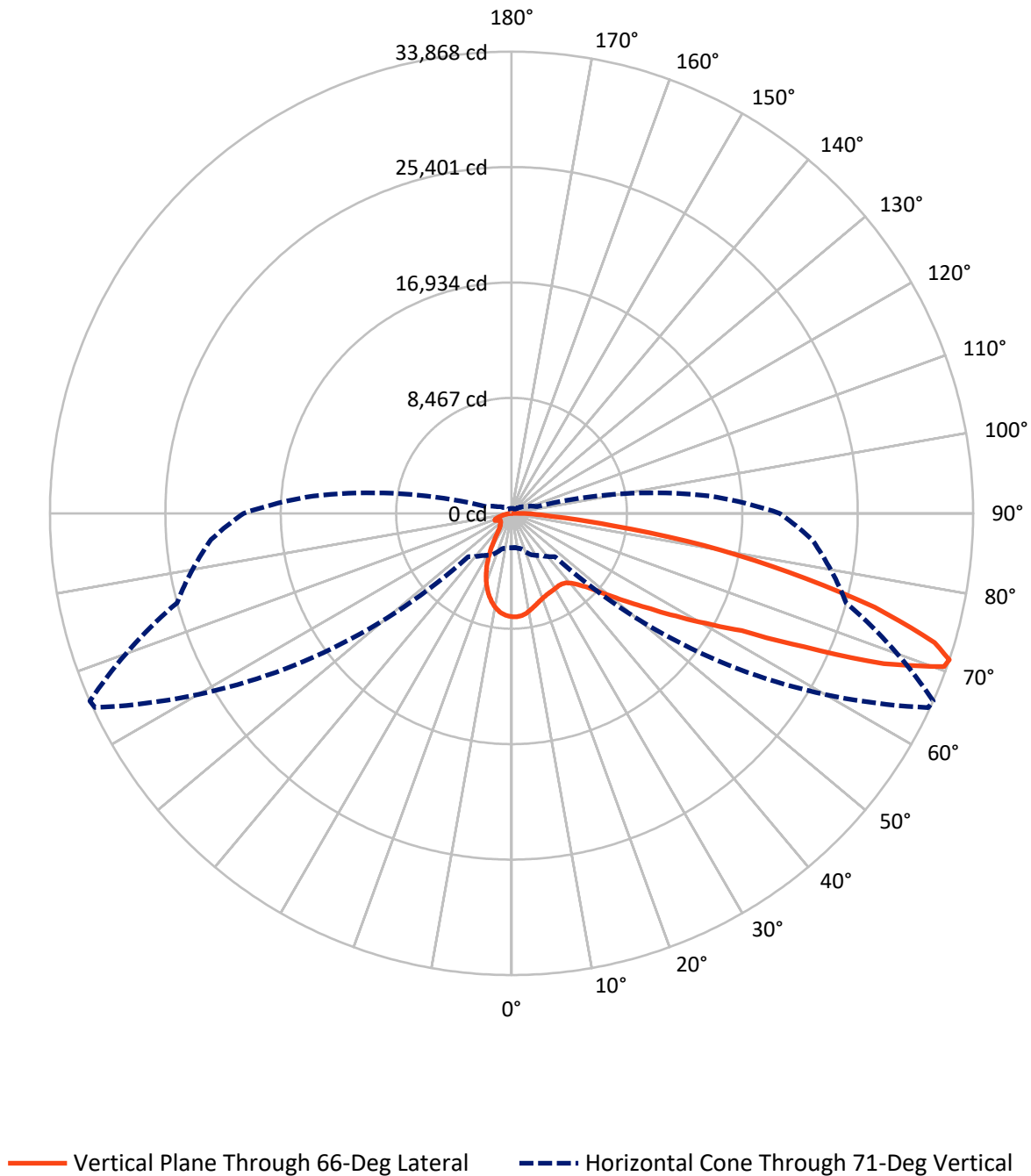
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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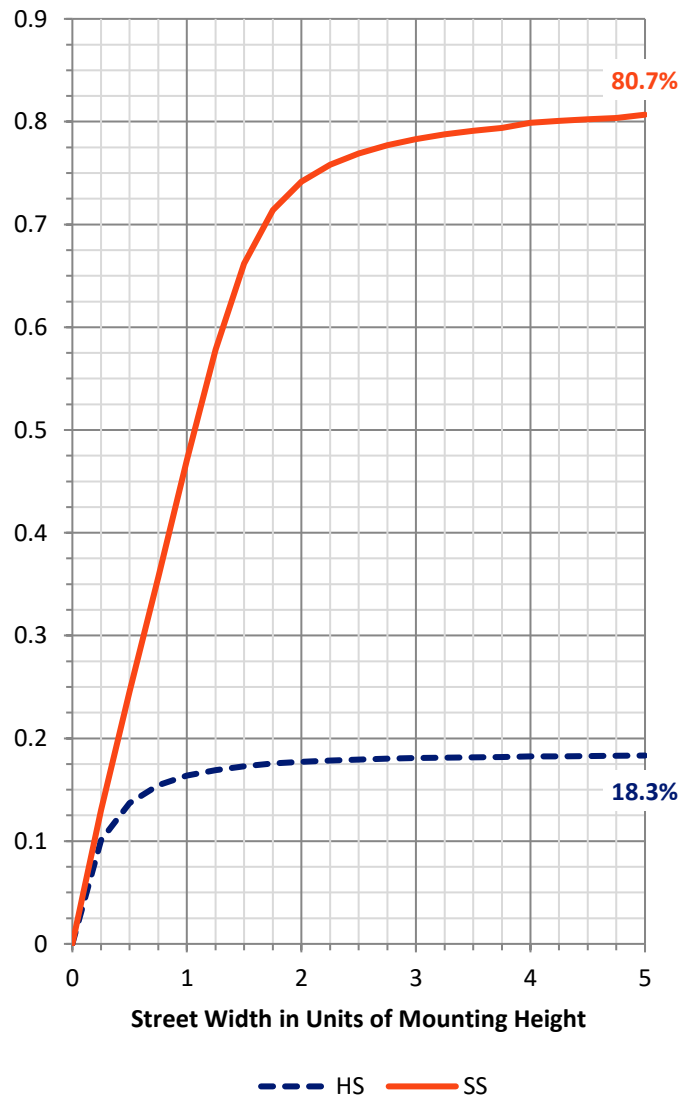
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6136.9	0.0	6136.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	26977.1	0.0	26977.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	33114.0	0.0	33114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.7	2.0
10°-20°	1601.5	4.8
20°-30°	2151.2	6.5
30°-40°	2829.9	8.5
40°-50°	4116.8	12.4
50°-60°	6430.8	19.4
60°-70°	8055.6	24.3
70°-80°	6144.7	18.6
80°-90°	1115.8	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°	33114.0	100.0
0°-180°	33114.0	100.0

Coefficient of Utilization



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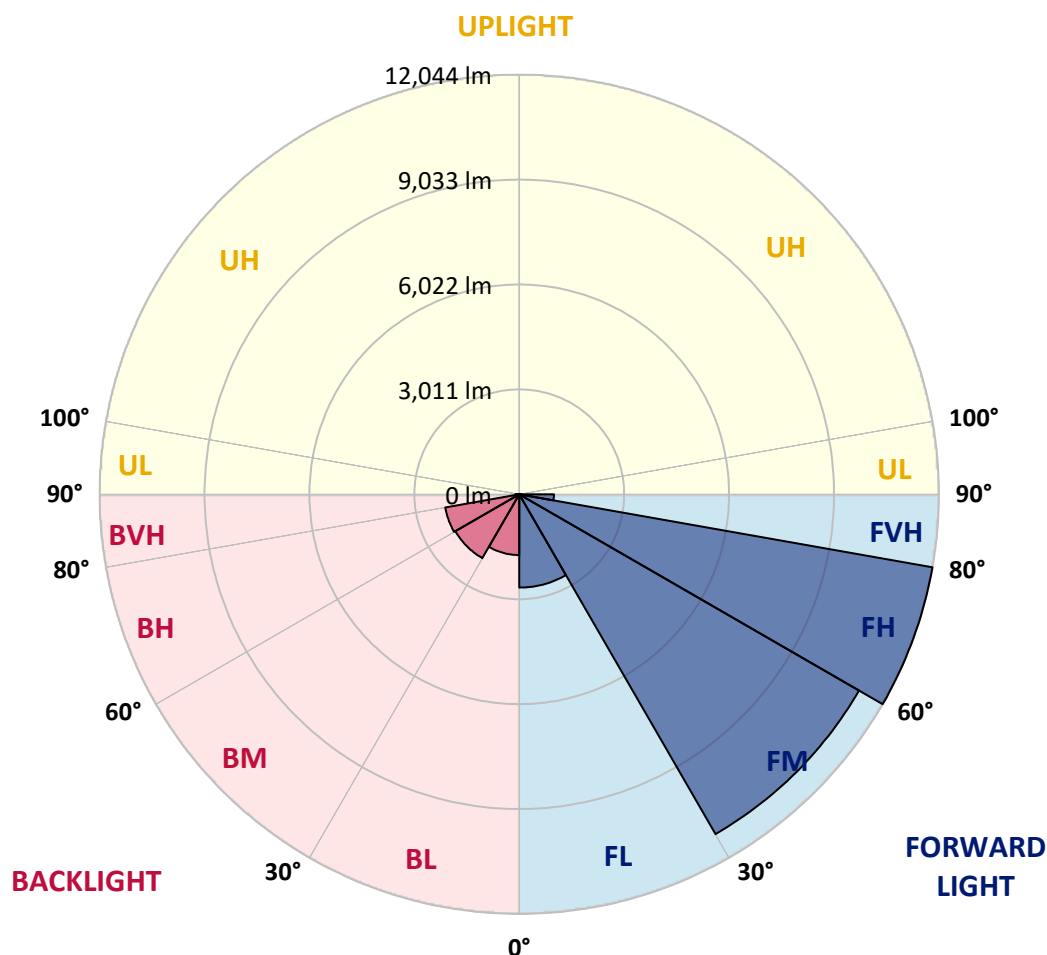
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2677.7	8.1			
FM	(30°-60°)	11260.4	34.0			
FH	(60°-80°)	12043.9	36.4			G5
FVH	(80°-90°)	995.0	3.0			G5
BL	(0°-30°)	1742.7	5.3	B3/2500		
BM	(30°-60°)	2117.0	6.4	B2/2500		
BH	(60°-80°)	2156.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	120.8	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°	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8
2.5°	7445.2	7433.7	7468.0	7503.5	7517.2	7540.0	7574.3	7593.8	7592.6	7596.1	7584.6
5°	6951.2	6936.4	7005.0	7061.0	7168.5	7289.7	7437.1	7542.3	7544.6	7604.1	7620.1
7.5°	6483.6	6473.3	6552.2	6642.6	6767.2	6952.4	7191.3	7417.7	7431.4	7592.6	7648.7
10°	6108.6	6106.3	6183.0	6281.3	6426.5	6633.4	6907.8	7239.4	7259.9	7537.8	7653.2
12.5°	5816.0	5820.5	5886.8	5998.9	6152.1	6368.2	6665.4	7039.3	7072.4	7450.9	7626.9
15°	5599.9	5618.2	5671.9	5785.1	5936.0	6155.5	6460.8	6854.1	6904.4	7353.7	7612.1
17.5°	5476.4	5497.0	5534.7	5628.5	5770.2	5981.7	6271.0	6702.0	6747.7	7279.4	7613.2
20°	5439.8	5457.0	5478.7	5535.8	5655.9	5848.0	6121.2	6564.8	6614.0	7219.9	7624.6
22.5°	5511.8	5524.4	5526.7	5522.1	5595.3	5751.9	6012.6	6464.2	6516.8	7181.0	7632.7
25°	5666.2	5683.3	5670.8	5628.5	5604.4	5700.5	5956.6	6397.9	6450.5	7152.5	7616.6
27.5°	5898.3	5900.6	5890.3	5835.4	5722.2	5706.2	5939.4	6359.0	6409.3	7119.3	7583.5
30°	6213.8	6228.7	6210.4	6136.1	5950.9	5797.7	5960.0	6321.3	6367.0	7077.0	7529.8
32.5°	6583.1	6619.7	6618.5	6540.8	6275.6	6002.3	6044.6	6298.4	6333.9	7032.4	7464.6
35°	6966.1	7016.4	7110.2	7077.0	6748.9	6325.9	6207.0	6335.0	6359.0	7026.7	7418.9
37.5°	7364.0	7414.3	7607.5	7696.7	7312.5	6788.9	6463.1	6464.2	6475.6	7096.4	7415.4
40°	7780.1	7833.9	8124.3	8356.4	8043.1	7375.4	6875.8	6734.0	6721.4	7267.9	7482.9
42.5°	8363.2	8411.2	8759.9	9056.1	8853.7	8126.6	7446.3	7150.2	7123.9	7604.1	7699.0
45°	9100.6	9141.8	9512.2	9828.9	9724.9	8984.0	8163.1	7723.0	7718.4	8164.3	8136.8
47.5°	9977.6	10009.6	10342.3	10648.7	10686.4	9970.7	9064.1	8606.7	8532.4	8932.6	8814.8
50°	10891.0	10926.5	11152.9	11482.1	11762.2	11291.2	10223.4	9689.4	9590.0	9946.7	9775.2
52.5°	11495.9	11542.7	11739.4	12156.7	12971.8	12738.6	11594.2	11001.9	10851.0	11175.7	11044.3
55°	11226.0	11331.2	11631.9	12300.7	13939.1	14949.8	13285.1	12532.8	12362.5	12632.3	12554.5
57.5°	9999.3	10143.3	10553.8	11586.2	14075.1	16897.9	15841.5	14335.8	14215.8	14138.0	14173.5
60°	7757.3	7895.6	8404.4	9750.0	13127.3	18320.2	19688.7	16558.4	16384.6	15649.5	15681.5
62.5°	5490.1	5420.4	5769.1	6753.5	10667.0	18487.1	24066.4	19530.9	18959.3	17245.5	17104.9
65°	4186.8	4170.7	4327.4	4640.6	6460.8	16489.8	26674.3	24527.2	23634.2	19122.8	18791.2
67.5°	3440.2	3411.6	3565.9	4022.1	4160.5	10638.4	26731.4	30323.7	29446.8	21459.7	20741.7
70°	2828.5	2796.5	2940.6	3529.4	3844.9	5395.2	22497.8	33718.1	33671.2	24418.5	22214.3
71°	2535.8	2513.0	2685.6	3339.6	3777.5	4496.6	19424.6	33727.3	33867.9	25420.1	22127.4
72.5°	2064.8	2072.8	2255.7	2972.6	3727.1	3970.7	14276.4	32155.2	32452.5	26374.7	21337.4
75°	1372.0	1378.8	1618.9	2286.6	3614.0	3884.9	7846.4	26981.8	27528.3	25803.1	19470.3
77.5°	921.5	919.2	1082.7	1568.6	3148.6	3884.9	4600.6	20180.3	20780.6	20531.3	15010.3
80°	634.5	630.0	745.4	1082.7	2383.8	3931.8	3556.8	14142.6	14324.4	11087.7	6100.6
82.5°	388.7	392.2	487.0	764.9	1622.3	3538.5	3357.9	7711.5	7513.7	3109.8	1524.0
85°	222.9	221.8	311.0	517.9	1041.5	2986.3	3274.4	3319.0	3044.6	936.4	551.1
87.5°	80.0	85.7	166.9	287.0	596.8	2079.7	2778.2	1726.4	1556.0	423.0	249.2
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°	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8	7585.8
2.5°	7576.6	7583.5	7575.5	7529.8	7490.9	7428.0	7392.6	7343.4	7328.5	7321.7	7340.0
5°	7605.2	7607.5	7540.0	7420.0	7285.1	7126.2	7011.8	6871.2	6804.9	6776.3	6794.6
7.5°	7631.5	7621.2	7473.7	7243.9	6994.7	6718.0	6472.2	6247.0	6115.5	6061.8	6066.3
10°	7634.9	7591.5	7354.8	6999.3	6612.8	6207.0	5829.7	5482.1	5262.6	5119.7	5163.1
12.5°	7599.5	7526.3	7179.9	6682.6	6146.4	5593.0	5083.1	4561.8	4248.5	4103.3	4107.9
15°	7572.1	7439.4	6965.0	6309.9	5589.6	4856.7	4160.5	3547.7	3213.8	3065.2	2995.4
17.5°	7549.2	7345.7	6715.7	5890.3	4932.2	4002.7	3165.8	2619.3	2436.4	2392.9	2374.6
20°	7517.2	7246.2	6437.9	5404.4	4183.3	3046.9	2311.7	2041.9	2043.1	2093.4	2100.2
22.5°	7472.6	7133.0	6141.8	4859.0	3379.6	2219.1	1812.1	1734.4	1813.3	1909.3	1926.5
25°	7406.3	6999.3	5812.5	4256.5	2577.0	1705.8	1548.0	1544.6	1640.6	1741.2	1756.1
27.5°	7312.5	6824.3	5446.7	3609.4	1899.0	1449.7	1386.8	1410.8	1481.7	1554.9	1560.6
30°	7186.8	6620.8	5043.1	2926.8	1488.6	1290.8	1283.9	1305.6	1349.1	1400.5	1405.1
32.5°	7048.4	6413.9	4612.1	2266.0	1274.8	1205.0	1211.9	1222.2	1242.8	1263.3	1267.9
35°	6922.7	6202.4	4170.7	1721.8	1173.0	1149.0	1144.4	1142.2	1144.4	1137.6	1138.7
37.5°	6841.5	6027.5	3711.1	1370.8	1114.7	1099.9	1086.1	1069.0	1049.5	1038.1	1040.4
40°	6811.8	5897.1	3245.8	1184.5	1066.7	1056.4	1030.1	993.5	970.7	963.8	963.8
42.5°	6891.8	5829.7	2796.5	1090.7	1026.7	1009.5	966.1	923.8	906.6	905.5	904.3
45°	7136.5	5857.1	2368.9	1039.3	990.1	956.9	899.8	864.3	852.9	855.2	854.0
47.5°	7575.5	6029.7	2003.1	1005.0	953.5	910.1	846.0	817.5	803.7	803.7	804.9
50°	8322.1	6433.3	1711.5	976.4	922.6	866.6	807.2	771.7	753.4	752.3	752.3
52.5°	9409.3	7155.9	1529.7	952.4	888.3	827.7	768.3	723.7	702.0	697.4	695.1
55°	10772.1	8191.7	1479.4	936.4	842.6	785.4	721.4	676.8	652.8	642.5	641.4
57.5°	12296.2	9451.6	1578.9	916.9	795.7	735.1	670.0	627.7	602.5	589.9	588.8
60°	13838.5	10827.0	1984.8	889.5	756.9	680.3	617.4	578.5	553.4	539.6	537.3
62.5°	15383.1	12276.7	2813.7	887.2	729.4	627.7	563.6	530.5	506.5	491.6	488.2
65°	17125.4	13863.6	3755.7	947.8	720.3	579.7	508.8	482.5	461.9	448.2	447.0
67.5°	19126.2	15655.2	3665.4	1072.4	751.1	536.2	457.3	436.7	421.9	410.4	409.3
70°	20064.9	15375.1	2278.6	1160.4	794.6	493.9	408.2	393.3	381.9	373.9	370.4
71°	19671.6	14598.8	1910.4	1150.2	790.0	475.6	388.7	377.3	365.9	359.0	355.6
72.5°	18599.2	13313.7	1593.8	1070.1	738.6	442.5	363.6	352.1	341.8	333.8	331.6
75°	16689.9	11890.3	1275.9	855.2	588.8	373.9	319.0	306.4	298.4	293.8	289.3
77.5°	12268.7	8485.6	986.7	675.7	433.3	305.3	272.1	263.0	255.0	248.1	244.7
80°	4700.1	3287.0	664.3	504.2	317.8	241.2	219.5	214.9	206.9	202.4	202.4
82.5°	1265.6	982.1	354.4	305.3	212.7	176.1	168.1	165.8	158.9	149.8	150.9
85°	512.2	433.3	198.9	168.1	130.3	104.0	113.2	114.3	106.3	94.9	96.0
87.5°	225.2	184.1	110.9	74.3	57.2	40.0	51.4	51.4	46.9	38.9	35.4
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)