

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: P319271

Luminaire Tested: **GAN-SA7A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319271
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-SA7A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 27004 lumens
Efficiency: N/A
Efficacy: 119.5 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): 226
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

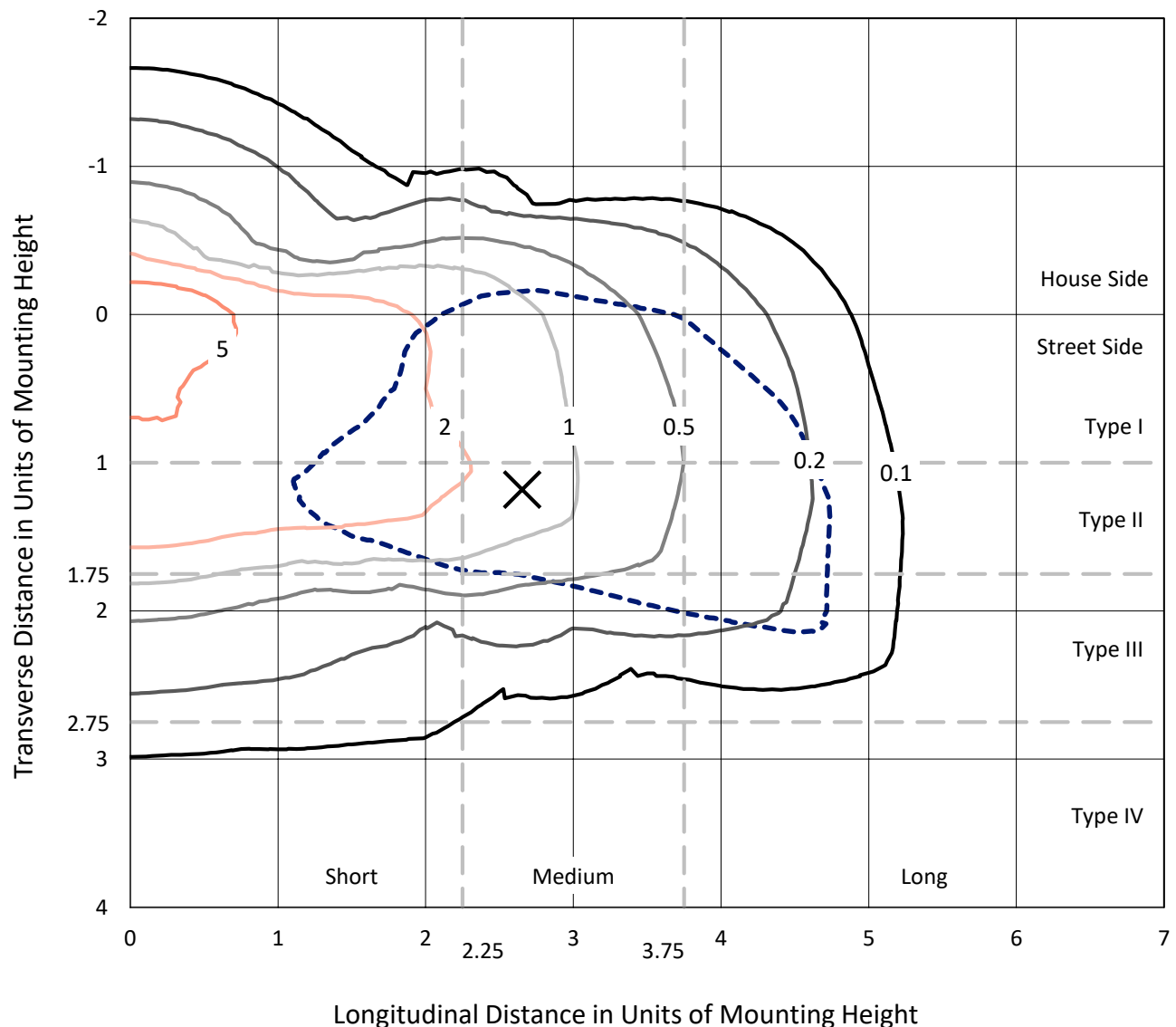


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Iso-Footcandle Lines of Horizontal Illumination

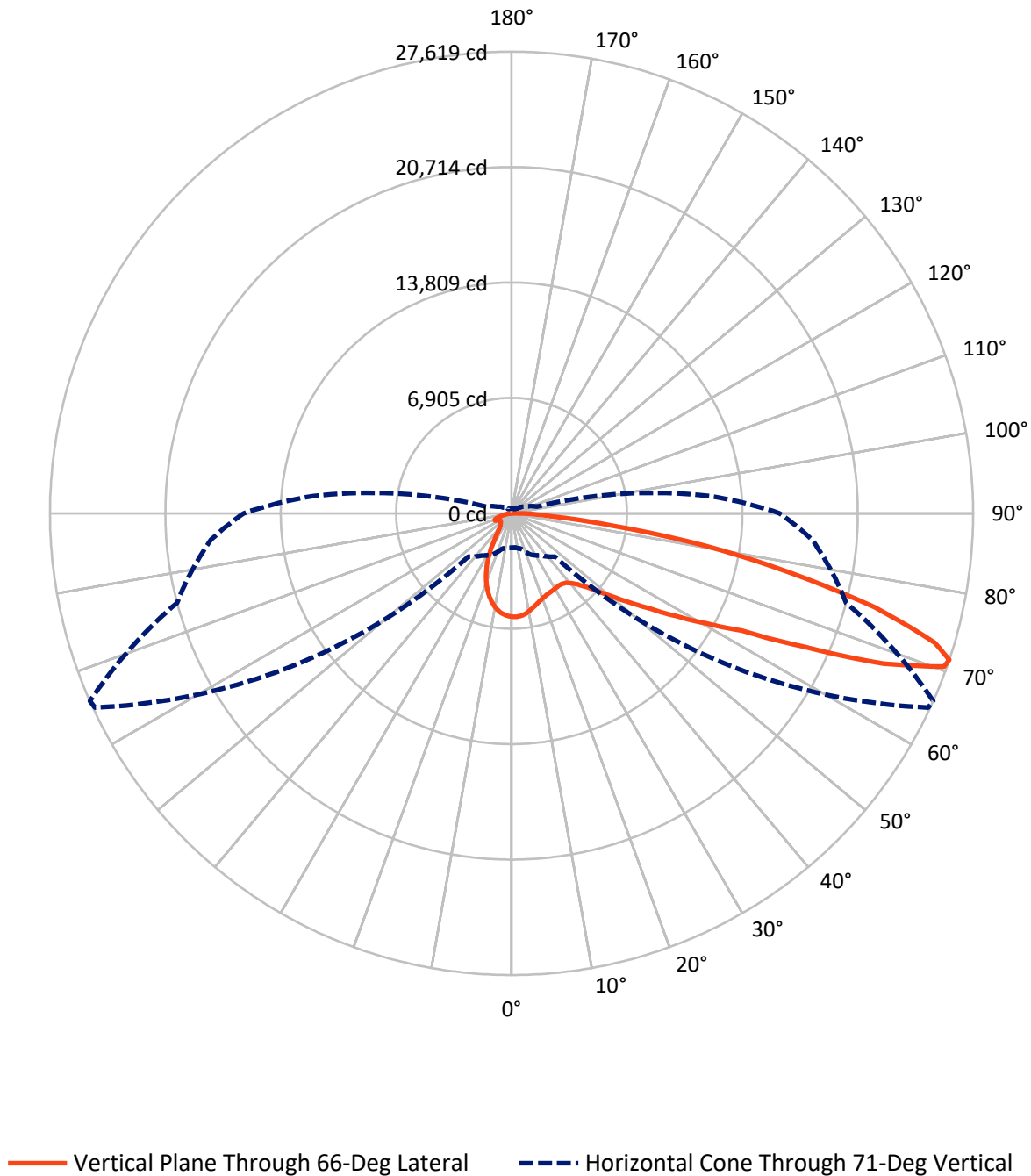
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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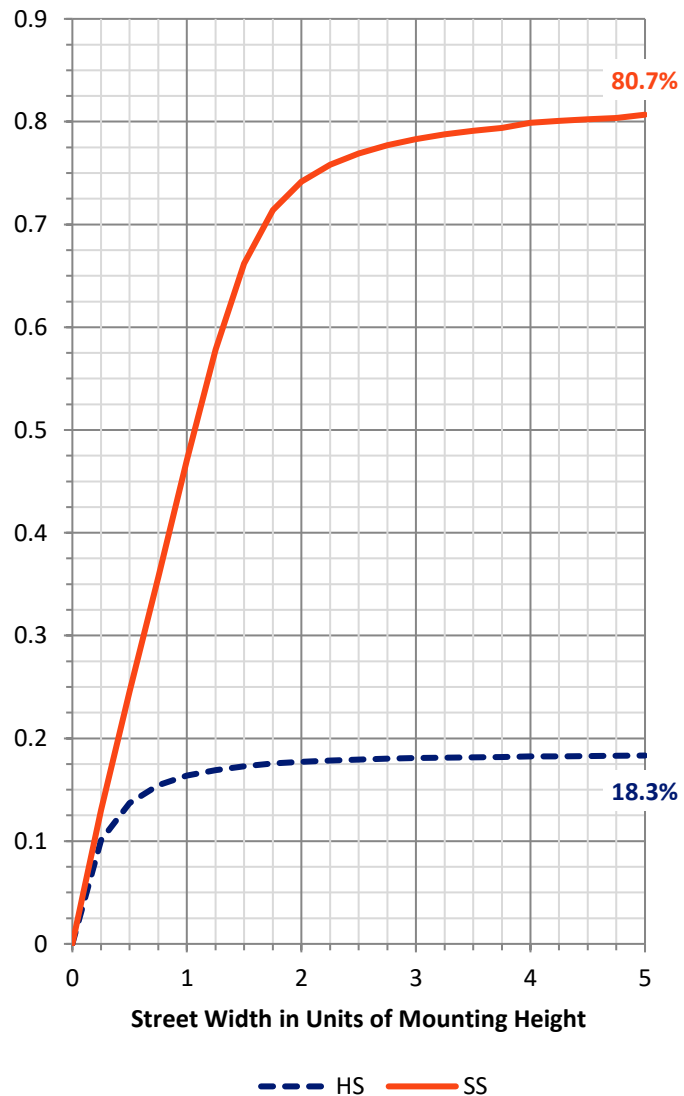
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5004.6	0.0	5004.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	21999.4	0.0	21999.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	27004.0	0.0	27004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.5	2.0
10°-20°	1306.0	4.8
20°-30°	1754.3	6.5
30°-40°	2307.7	8.5
40°-50°	3357.2	12.4
50°-60°	5244.2	19.4
60°-70°	6569.3	24.3
70°-80°	5010.9	18.6
80°-90°	909.9	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°	27004.0	100.0
0°-180°	27004.0	100.0

Coefficient of Utilization



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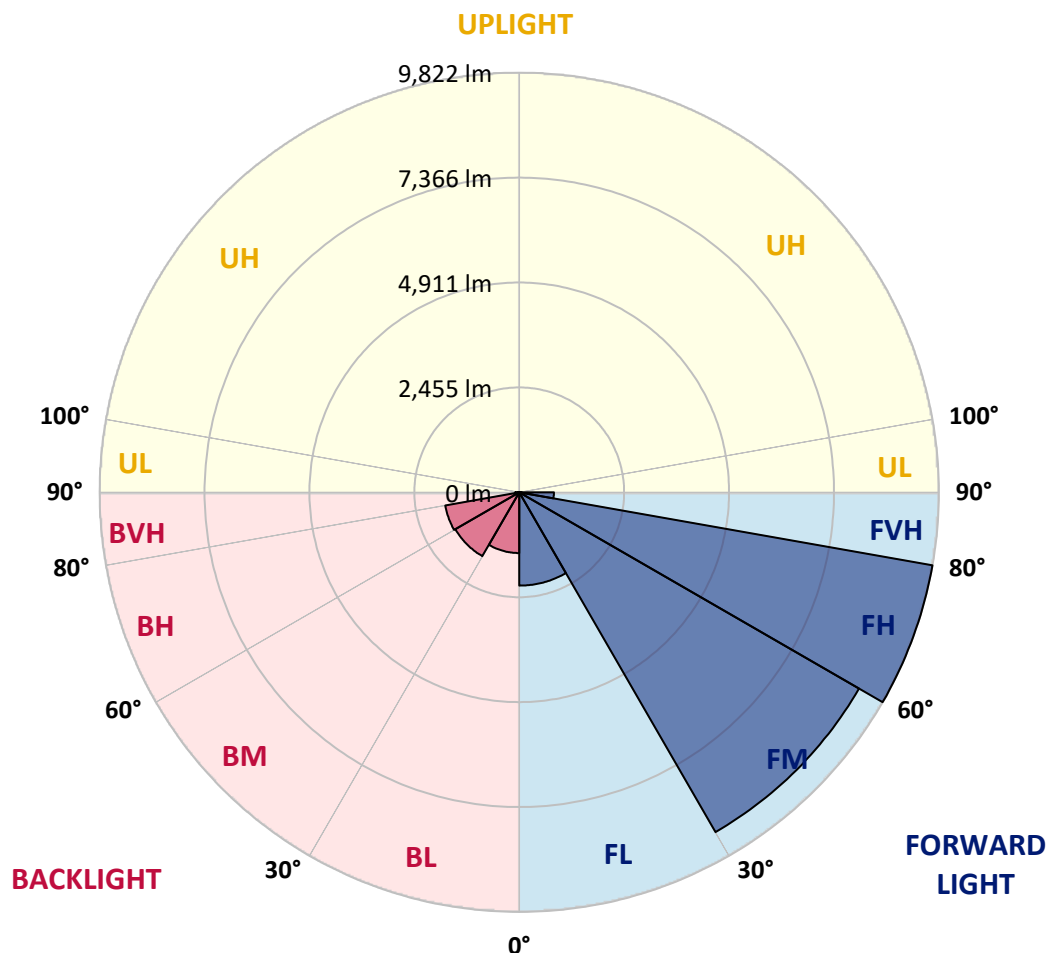
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2183.6	8.1			
FM	(30°-60°)	9182.7	34.0			
FH	(60°-80°)	9821.6	36.4			G4/12000
FVH	(80°-90°)	811.4	3.0			G5
BL	(0°-30°)	1421.2	5.3	B3/2500		
BM	(30°-60°)	1726.4	6.4	B2/2500		
BH	(60°-80°)	1758.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	98.5	0.4			G1/100
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°	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1
2.5°	6071.4	6062.1	6090.1	6119.0	6130.2	6148.8	6176.8	6192.6	6191.7	6194.5	6185.2
5°	5668.6	5656.5	5712.5	5758.1	5845.8	5944.6	6064.9	6150.7	6152.5	6201.0	6214.1
7.5°	5287.3	5278.9	5343.3	5416.9	5518.5	5669.6	5864.4	6049.0	6060.2	6191.7	6237.4
10°	4981.5	4979.6	5042.1	5122.3	5240.7	5409.5	5633.2	5903.6	5920.4	6146.9	6241.1
12.5°	4742.8	4746.6	4800.6	4892.0	5016.9	5193.1	5435.6	5740.4	5767.5	6076.1	6219.7
15°	4566.6	4581.5	4625.4	4717.7	4840.7	5019.7	5268.7	5589.4	5630.4	5996.8	6207.5
17.5°	4465.9	4482.7	4513.5	4589.9	4705.5	4878.0	5113.9	5465.4	5502.7	5936.2	6208.5
20°	4436.1	4450.1	4467.8	4514.4	4612.3	4768.9	4991.8	5353.5	5393.6	5887.7	6217.8
22.5°	4494.8	4505.1	4506.9	4503.2	4562.9	4690.6	4903.2	5271.5	5314.4	5856.0	6224.3
25°	4620.7	4634.7	4624.4	4589.9	4570.3	4648.7	4857.5	5217.4	5260.3	5832.7	6211.3
27.5°	4810.0	4811.8	4803.4	4758.7	4666.4	4653.3	4843.5	5185.7	5226.7	5805.7	6184.2
30°	5067.3	5079.4	5064.5	5003.9	4852.8	4727.9	4860.3	5154.9	5192.2	5771.2	6140.4
32.5°	5368.4	5398.3	5397.3	5333.9	5117.6	4894.8	4929.3	5136.3	5165.2	5734.8	6087.3
35°	5680.8	5721.8	5798.2	5771.2	5503.6	5158.7	5061.7	5166.1	5185.7	5730.2	6050.0
37.5°	6005.2	6046.2	6203.8	6276.5	5963.3	5536.3	5270.5	5271.5	5280.8	5787.1	6047.2
40°	6344.6	6388.4	6625.2	6814.5	6559.0	6014.5	5607.1	5491.5	5481.2	5926.9	6102.2
42.5°	6820.1	6859.2	7143.6	7385.1	7220.1	6627.1	6072.3	5830.9	5809.4	6201.0	6278.4
45°	7421.4	7455.0	7757.1	8015.3	7930.5	7326.3	6656.9	6298.0	6294.2	6657.9	6635.5
47.5°	8136.6	8162.7	8434.0	8683.8	8714.6	8131.0	7391.6	7018.7	6958.1	7284.4	7188.4
50°	8881.5	8910.4	9095.0	9363.5	9591.9	9207.8	8337.0	7901.6	7820.5	8111.4	7971.5
52.5°	9374.7	9412.9	9573.3	9913.6	10578.4	10388.2	9454.9	8971.9	8848.9	9113.6	9006.4
55°	9154.7	9240.4	9485.7	10031.1	11367.1	12191.3	10833.8	10220.3	10081.4	10301.5	10238.1
57.5°	8154.3	8271.7	8606.5	9448.4	11478.1	13780.0	12918.5	11690.6	11592.7	11529.3	11558.3
60°	6325.9	6438.8	6853.7	7951.0	10705.2	14939.9	16055.9	13503.1	13361.4	12761.9	12788.0
62.5°	4477.1	4420.2	4704.6	5507.3	8698.8	15076.0	19625.8	15927.2	15461.0	14063.5	13948.8
65°	3414.2	3401.2	3528.9	3784.4	5268.7	13447.2	21752.5	20001.5	19273.4	15594.4	15324.0
67.5°	2805.4	2782.1	2908.0	3280.0	3392.8	8675.4	21799.1	24728.5	24013.4	17500.1	16914.6
70°	2306.6	2280.5	2398.0	2878.1	3135.5	4399.7	18346.6	27496.6	27458.4	19913.0	18115.4
71°	2067.9	2049.3	2190.1	2723.4	3080.5	3666.9	15840.5	27504.1	27618.8	20729.7	18044.6
72.5°	1683.8	1690.3	1839.5	2424.1	3039.4	3238.0	11642.2	26222.1	26464.5	21508.2	17400.3
75°	1118.8	1124.4	1320.2	1864.7	2947.1	3168.1	6398.7	22003.3	22448.9	21042.0	15877.8
77.5°	751.5	749.6	882.9	1279.2	2567.7	3168.1	3751.7	16456.8	16946.3	16743.0	12240.7
80°	517.5	513.7	607.9	882.9	1943.9	3206.3	2900.5	11533.1	11681.3	9041.9	4975.0
82.5°	317.0	319.8	397.2	623.7	1323.0	2885.6	2738.3	6288.7	6127.4	2536.0	1242.8
85°	181.8	180.9	253.6	422.4	849.4	2435.3	2670.2	2706.6	2482.8	763.6	449.4
87.5°	65.3	69.9	136.1	234.0	486.7	1695.9	2265.6	1407.8	1268.9	345.0	203.3
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°	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1	6186.1
2.5°	6178.6	6184.2	6177.7	6140.4	6108.7	6057.4	6028.5	5988.4	5976.3	5970.7	5985.6
5°	6201.9	6203.8	6148.8	6050.9	5940.9	5811.3	5718.1	5603.4	5549.3	5526.0	5540.9
7.5°	6223.4	6215.0	6094.7	5907.3	5704.1	5478.4	5278.0	5094.3	4987.1	4943.3	4947.0
10°	6226.2	6190.8	5997.8	5707.8	5392.7	5061.7	4754.0	4470.6	4291.6	4175.0	4210.5
12.5°	6197.3	6137.6	5855.1	5449.5	5012.3	4561.0	4145.2	3720.0	3464.6	3346.2	3349.9
15°	6174.9	6066.8	5679.8	5145.6	4558.2	3960.6	3392.8	2893.1	2620.8	2499.6	2442.7
17.5°	6156.3	5990.3	5476.6	4803.4	4022.1	3264.1	2581.7	2136.0	1986.8	1951.4	1936.5
20°	6130.2	5909.2	5250.0	4407.2	3411.4	2484.7	1885.2	1665.2	1666.1	1707.1	1712.7
22.5°	6093.8	5816.9	5008.5	3962.5	2756.0	1809.7	1477.8	1414.4	1478.7	1557.0	1571.0
25°	6039.7	5707.8	4740.0	3471.1	2101.5	1391.1	1262.4	1259.6	1337.9	1420.0	1432.1
27.5°	5963.3	5565.2	4441.7	2943.4	1548.6	1182.2	1130.9	1150.5	1208.3	1268.0	1272.6
30°	5860.7	5399.2	4112.6	2386.8	1213.9	1052.6	1047.0	1064.7	1100.2	1142.1	1145.8
32.5°	5747.9	5230.4	3761.1	1847.9	1039.6	982.7	988.3	996.7	1013.5	1030.2	1034.0
35°	5645.3	5058.0	3401.2	1404.1	956.6	937.0	933.3	931.4	933.3	927.7	928.6
37.5°	5579.1	4915.3	3026.4	1117.9	909.0	896.9	885.7	871.7	855.9	846.6	848.4
40°	5554.9	4809.0	2646.9	965.9	869.9	861.5	840.0	810.2	791.6	786.0	786.0
42.5°	5620.2	4754.0	2280.5	889.5	837.2	823.3	787.8	753.3	739.3	738.4	737.5
45°	5819.7	4776.4	1931.8	847.5	807.4	780.4	733.8	704.9	695.5	697.4	696.5
47.5°	6177.7	4917.2	1633.5	819.5	777.6	742.1	689.9	666.6	655.4	655.4	656.4
50°	6786.5	5246.3	1395.7	796.2	752.4	706.7	658.2	629.3	614.4	613.5	613.5
52.5°	7673.2	5835.5	1247.5	776.6	724.4	675.0	626.5	590.2	572.5	568.7	566.9
55°	8784.5	6680.2	1206.5	763.6	687.1	640.5	588.3	551.9	532.4	524.0	523.0
57.5°	10027.3	7707.7	1287.6	747.7	648.9	599.5	546.4	511.9	491.3	481.1	480.2
60°	11285.1	8829.3	1618.5	725.4	617.2	554.7	503.5	471.8	451.3	440.1	438.2
62.5°	12544.7	10011.5	2294.5	723.5	594.8	511.9	459.6	432.6	413.0	400.9	398.1
65°	13965.6	11305.6	3062.7	772.9	587.4	472.7	414.9	393.4	376.7	365.5	364.5
67.5°	15597.2	12766.6	2989.1	874.5	612.5	437.3	372.9	356.2	344.0	334.7	333.8
70°	16362.6	12538.1	1858.2	946.3	648.0	402.8	332.8	320.7	311.4	304.9	302.1
71°	16041.9	11905.1	1557.9	937.9	644.2	387.9	317.0	307.7	298.3	292.8	290.0
72.5°	15167.4	10857.1	1299.7	872.7	602.3	360.8	296.5	287.2	278.8	272.2	270.4
75°	13610.3	9696.4	1040.5	697.4	480.2	304.9	260.1	249.9	243.3	239.6	235.9
77.5°	10005.0	6919.8	804.6	551.0	353.4	248.9	221.9	214.4	207.9	202.3	199.5
80°	3832.9	2680.5	541.7	411.2	259.2	196.7	179.0	175.3	168.8	165.0	165.0
82.5°	1032.1	800.9	289.0	248.9	173.4	143.6	137.1	135.2	129.6	122.1	123.1
85°	417.7	353.4	162.2	137.1	106.3	84.8	92.3	93.2	86.7	77.4	78.3
87.5°	183.7	150.1	90.4	60.6	46.6	32.6	42.0	42.0	38.2	31.7	28.9
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)