

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: P318521

Luminaire Tested: **GAN-SA7B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318521
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-SA7B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29721 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

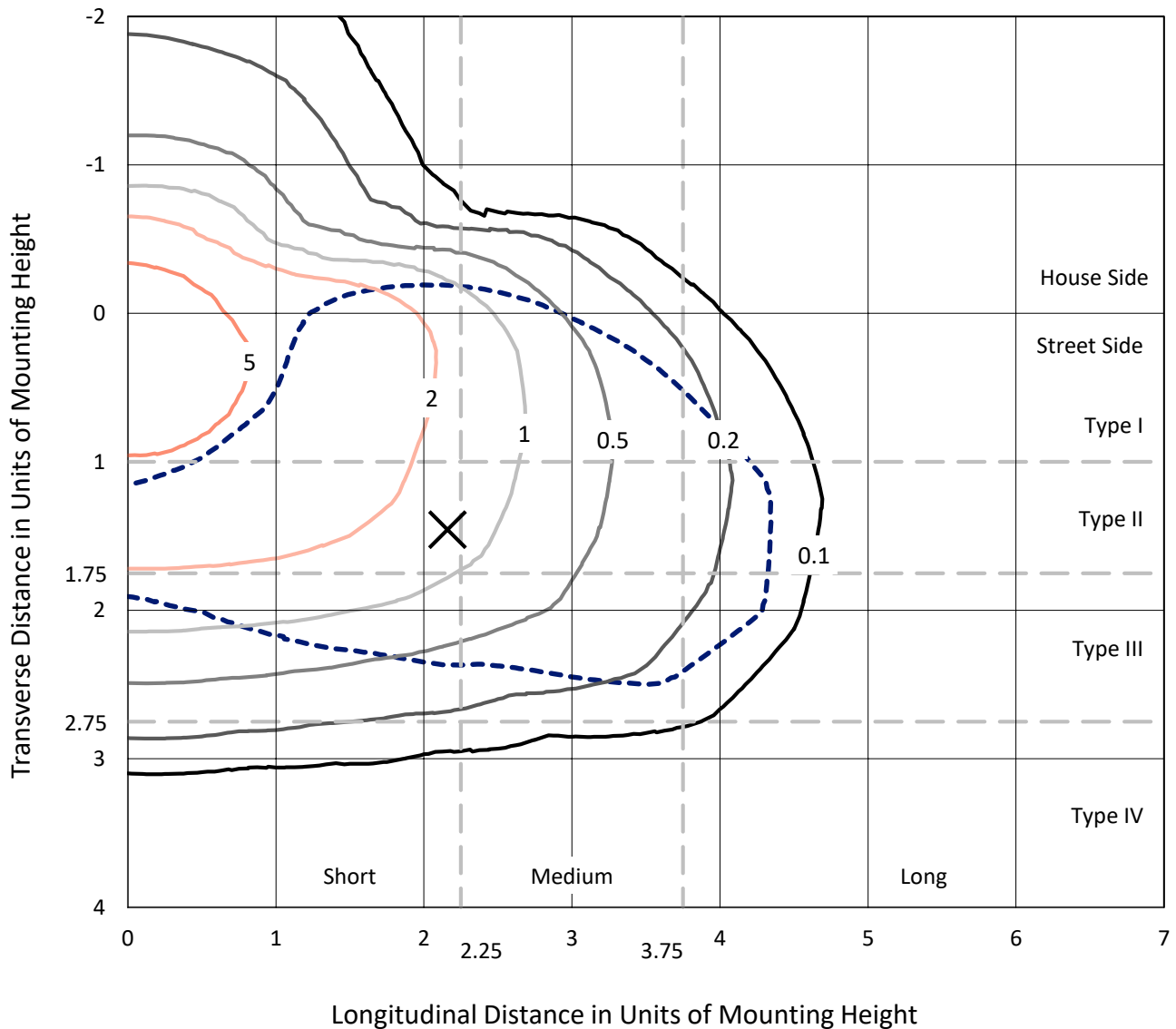
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

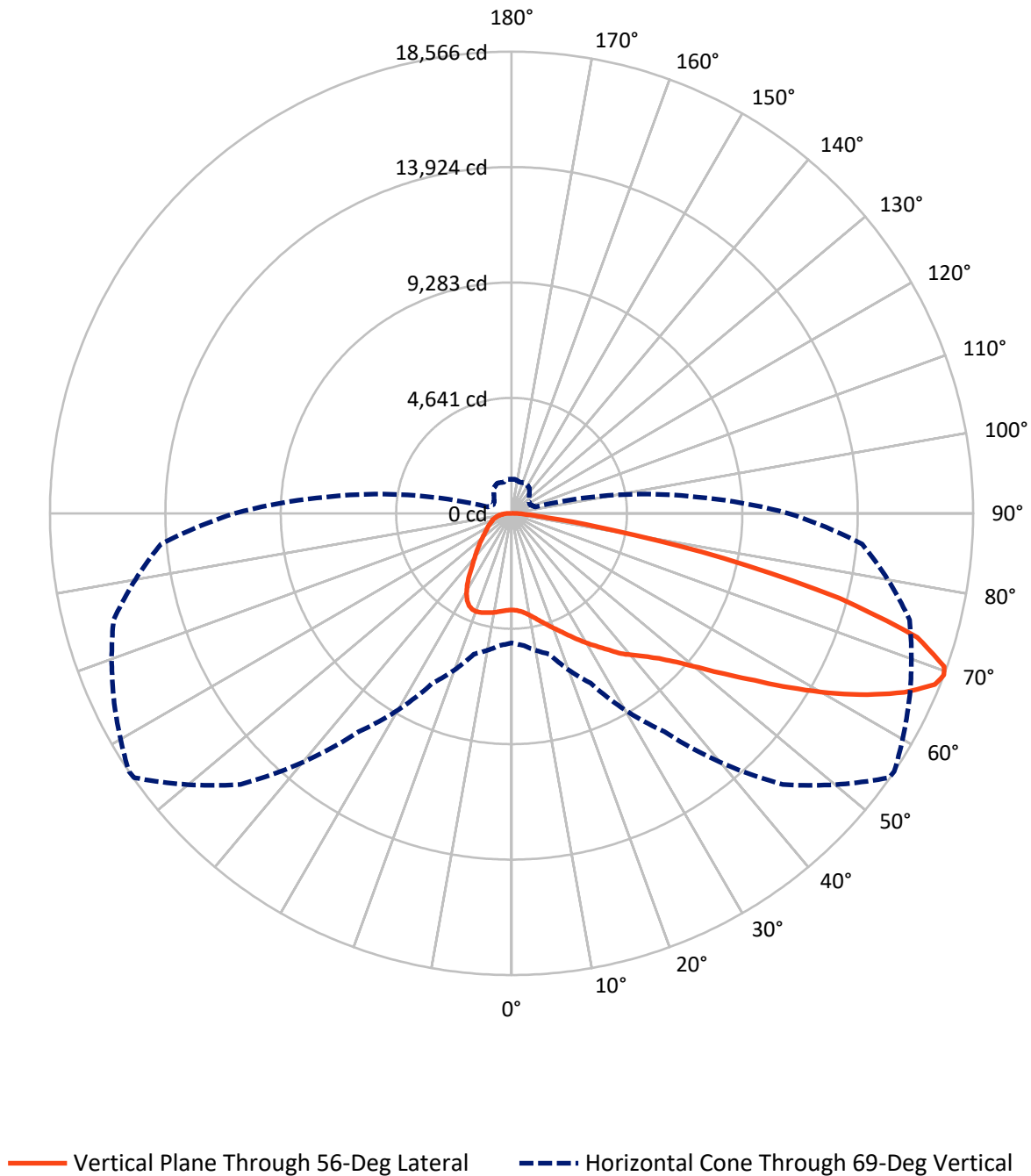
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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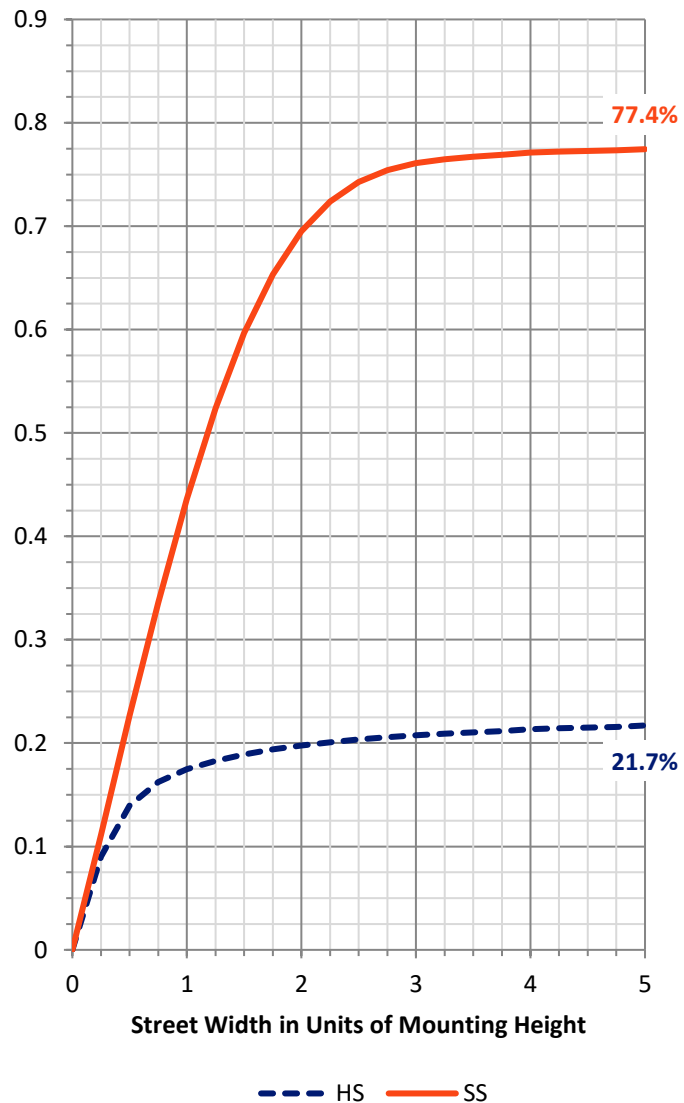
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6618.8	0.0	6618.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23102.2	0.0	23102.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	29721.0	0.0	29721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	1.3
10°-20°	1227.2	4.1
20°-30°	2142.1	7.2
30°-40°	3077.1	10.4
40°-50°	4258.5	14.3
50°-60°	6239.4	21.0
60°-70°	7607.0	25.6
70°-80°	4205.6	14.2
80°-90°	582.5	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°	29721.0	100.0
0°-180°	29721.0	100.0

Coefficient of Utilization



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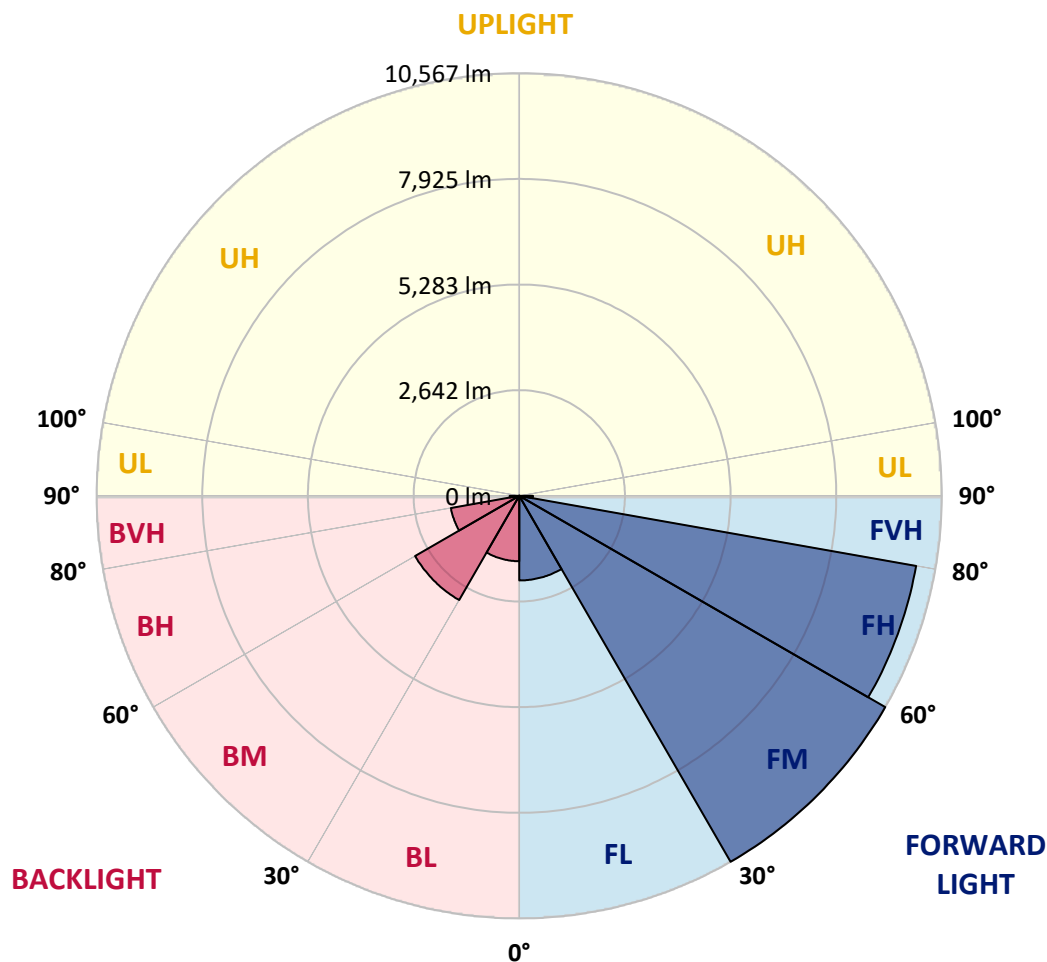
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2115.3	7.1			
FM	(30°-60°)	10566.9	35.6			
FH	(60°-80°)	10076.9	33.9			G4/12000
FVH	(80°-90°)	343.1	1.2			G3/500
BL	(0°-30°)	1635.7	5.5	B3/2500		
BM	(30°-60°)	3008.1	10.1	B3/5000		
BH	(60°-80°)	1735.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	239.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6
2.5°	3910.1	3914.2	3911.2	3919.4	3910.1	3916.3	3911.2	3911.2	3908.1	3898.9	3888.6
5°	3971.6	3979.8	3974.6	3982.8	3971.6	3973.6	3964.4	3964.4	3955.2	3935.7	3915.3
7.5°	4067.8	4077.0	4072.9	4081.1	4065.8	4065.8	4053.5	4052.5	4034.0	4002.3	3978.7
10°	4182.5	4194.8	4190.7	4203.0	4190.7	4194.8	4182.5	4182.5	4157.9	4112.9	4083.2
12.5°	4349.4	4364.7	4353.5	4352.5	4347.3	4355.5	4345.3	4343.2	4320.7	4259.3	4218.3
15°	4572.6	4589.0	4565.4	4563.4	4534.7	4531.6	4531.6	4528.6	4514.2	4440.5	4372.9
17.5°	4829.6	4834.7	4814.2	4781.5	4744.6	4721.0	4718.0	4726.2	4726.2	4640.2	4532.7
20°	5081.4	5090.7	5074.3	5037.4	4990.3	4955.5	4930.9	4947.3	4946.3	4843.9	4691.4
22.5°	5355.8	5377.3	5352.8	5305.7	5250.4	5211.5	5168.5	5182.8	5183.8	5057.9	4847.0
25°	5711.1	5691.7	5676.3	5609.8	5530.9	5491.0	5451.1	5465.4	5461.3	5288.3	5007.7
27.5°	6025.5	6029.5	6009.1	5938.4	5847.3	5759.2	5757.2	5766.4	5751.1	5527.9	5159.3
30°	6391.0	6393.0	6364.4	6300.9	6201.6	6087.9	6061.3	6076.6	6043.9	5755.2	5319.0
32.5°	6754.4	6764.7	6732.9	6656.2	6576.3	6438.1	6384.8	6395.1	6313.2	5987.6	5483.8
35°	7072.9	7087.2	7077.0	7025.8	6938.7	6820.0	6756.5	6750.4	6649.0	6272.2	5701.9
37.5°	7397.4	7410.7	7399.5	7356.5	7321.7	7195.7	7161.9	7161.9	6985.8	6563.0	5979.4
40°	7731.2	7751.7	7738.4	7679.0	7649.3	7592.0	7511.1	7491.6	7301.2	6912.1	6431.9
42.5°	8041.4	8068.1	8121.3	8086.5	8026.1	8034.3	7871.5	7861.2	7722.0	7428.2	7000.2
45°	8481.7	8520.6	8610.7	8584.1	8571.8	8526.8	8333.2	8324.0	8270.8	8122.3	7705.6
47.5°	8961.9	9015.1	9177.9	9183.1	9315.1	9230.2	8967.0	8935.3	8947.6	8953.7	8566.7
50°	9404.2	9462.6	9729.8	9855.7	10167.0	10185.4	9764.6	9735.9	9784.1	9925.4	9570.1
52.5°	9757.4	9831.2	10164.9	10554.0	11087.5	11239.0	10746.5	10725.0	10760.8	11004.5	10704.5
55°	10016.5	10096.3	10459.8	11168.3	12020.2	12287.4	11876.9	11856.4	11878.9	12189.1	11938.3
57.5°	10076.9	10096.3	10623.6	11582.0	12807.5	13449.5	13260.1	13219.1	13108.6	13378.9	13300.0
60°	9793.3	9871.1	10488.5	11727.4	13416.7	14595.2	14705.8	14654.6	14344.4	14565.5	14502.0
62.5°	9217.9	9357.1	9983.7	11506.2	13655.3	15531.0	16123.8	16062.4	15528.0	15671.3	15366.2
65°	8278.0	8337.3	8995.7	10743.4	13352.2	16130.0	17388.3	17357.6	16684.9	16460.7	15525.9
67.5°	6596.8	6708.4	7267.4	9149.3	12112.3	16059.3	18366.1	18363.0	17440.5	16753.5	14959.7
69°	5211.5	5327.2	5859.6	7536.7	10717.8	15413.3	18529.9	18565.8	17653.5	16575.4	14150.9
70°	4154.9	4289.0	4654.5	6348.0	9480.0	14561.4	18393.8	18458.3	17612.6	16281.5	13404.5
72.5°	1768.2	1876.7	2136.8	3272.3	5777.7	10873.5	16818.0	17061.7	16663.4	14901.4	11078.2
75°	772.0	805.8	923.5	1334.1	2564.8	5917.9	13175.1	13625.6	14248.1	12595.6	8252.4
77.5°	565.2	579.5	644.0	783.3	1150.8	2235.1	8472.5	8734.6	10275.5	9165.7	5062.0
80°	437.2	447.4	497.6	575.4	751.5	904.1	3864.1	4089.3	5777.7	4707.7	2108.1
82.5°	348.1	355.3	390.1	423.9	519.1	547.8	1282.9	1423.2	2132.7	1300.3	558.0
85°	323.5	331.7	344.0	309.2	332.8	321.5	554.9	580.5	644.0	510.9	233.4
87.5°	146.4	173.0	340.9	240.6	177.1	141.3	227.3	237.5	267.2	268.3	103.4
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°	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6	3885.6
2.5°	3894.8	3891.7	3896.8	3884.5	3899.9	3898.9	3893.8	3895.8	3906.1	3905.0	3906.1
5°	3918.3	3916.3	3922.4	3913.2	3931.6	3937.8	3938.8	3948.0	3959.3	3962.4	3962.4
7.5°	3977.7	3977.7	3980.8	3968.5	3980.8	3979.8	3974.6	3983.9	3995.1	3996.2	3995.1
10°	4080.1	4081.1	4076.0	4044.3	4034.0	4006.4	3980.8	3981.8	3996.2	4007.4	4010.5
12.5°	4209.1	4205.0	4182.5	4124.1	4081.1	4024.8	3998.2	3997.2	4011.5	4020.7	4023.8
15°	4356.6	4345.3	4286.9	4191.7	4115.9	4060.7	4017.7	4007.4	3999.2	3989.0	3990.0
17.5°	4495.8	4470.2	4372.9	4240.9	4161.0	4087.3	4004.3	3937.8	3891.7	3865.1	3856.9
20°	4637.1	4586.9	4446.7	4286.9	4185.6	4051.4	3891.7	3756.6	3672.6	3633.7	3626.5
22.5°	4766.1	4685.2	4515.3	4335.1	4166.1	3930.6	3679.8	3483.2	3366.5	3314.3	3318.4
25°	4892.0	4779.4	4586.9	4368.8	4067.8	3717.7	3384.9	3143.3	3008.1	2949.8	2947.7
27.5°	5002.6	4874.6	4664.7	4341.2	3884.5	3414.6	3035.8	2800.3	2687.6	2637.5	2629.3
30°	5129.6	4994.4	4768.1	4235.7	3616.3	3064.4	2694.8	2529.0	2449.1	2398.9	2389.7
32.5°	5284.2	5157.2	4853.1	4044.3	3273.3	2698.9	2428.6	2312.9	2240.2	2183.9	2173.7
35°	5509.4	5372.2	4874.6	3769.9	2896.5	2410.2	2233.1	2114.3	2016.0	1943.3	1936.1
37.5°	5792.0	5641.5	4825.5	3414.6	2531.0	2222.8	2070.3	1923.8	1795.9	1693.5	1677.1
40°	6199.5	5972.2	4689.3	3005.0	2261.7	2078.4	1911.6	1744.7	1586.0	1466.2	1442.6
42.5°	6688.9	6360.3	4480.4	2597.5	2064.1	1932.0	1753.9	1547.1	1395.5	1310.5	1298.3
45°	7311.4	6763.7	4190.7	2241.2	1869.6	1785.6	1583.9	1393.5	1299.3	1236.8	1226.6
47.5°	8022.0	7216.2	3886.6	1951.5	1704.7	1648.4	1447.7	1324.9	1250.1	1201.0	1191.8
50°	8895.4	7727.1	3564.1	1714.0	1538.9	1483.6	1383.2	1287.0	1227.6	1189.7	1180.5
52.5°	9880.3	8303.6	3331.7	1526.6	1401.7	1361.7	1349.5	1266.5	1218.4	1189.7	1180.5
55°	10941.0	8890.2	3080.8	1368.9	1282.9	1294.2	1326.9	1268.6	1235.8	1201.0	1187.7
57.5°	12002.8	9496.4	2801.3	1235.8	1188.7	1244.0	1311.6	1272.7	1245.0	1211.2	1198.9
60°	12842.4	9880.3	2368.2	1124.2	1114.0	1188.7	1274.7	1242.0	1206.1	1207.1	1205.1
62.5°	13234.5	9859.8	1890.1	1024.9	1039.2	1114.0	1215.3	1193.8	1164.1	1204.1	1207.1
65°	13014.4	9368.4	1471.3	934.8	959.4	1036.2	1153.9	1170.3	1180.5	1257.3	1267.5
67.5°	12090.8	8412.1	1139.6	856.0	886.7	982.9	1160.0	1274.7	1288.0	1368.9	1367.9
69°	11135.6	7515.2	990.1	815.0	850.8	996.2	1239.9	1341.3	1291.1	1377.1	1364.8
70°	10334.9	6805.6	910.2	787.4	834.5	1019.8	1293.1	1340.2	1275.7	1349.5	1329.0
72.5°	7959.5	4896.1	772.0	736.2	779.2	975.7	1308.5	1310.5	1239.9	1254.2	1219.4
75°	5459.3	3094.1	673.7	666.5	695.2	879.5	1259.4	1252.2	1146.7	1126.3	1097.6
77.5°	3010.2	1571.6	572.3	600.0	619.4	779.2	1144.7	1134.4	1047.4	1004.4	994.2
80°	1161.1	688.0	483.3	533.4	545.7	674.7	1003.4	994.2	921.5	866.2	850.8
82.5°	438.2	360.4	399.3	461.8	457.7	557.0	849.8	844.7	774.0	693.2	668.6
85°	202.7	216.0	316.4	380.9	351.2	412.6	679.8	689.1	603.1	506.8	506.8
87.5°	86.0	120.8	224.2	287.7	236.5	278.5	498.6	476.1	437.2	303.1	284.6
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)