

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: P319297

Luminaire Tested: **GAN-SA3D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319297
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-SA3D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 19407 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

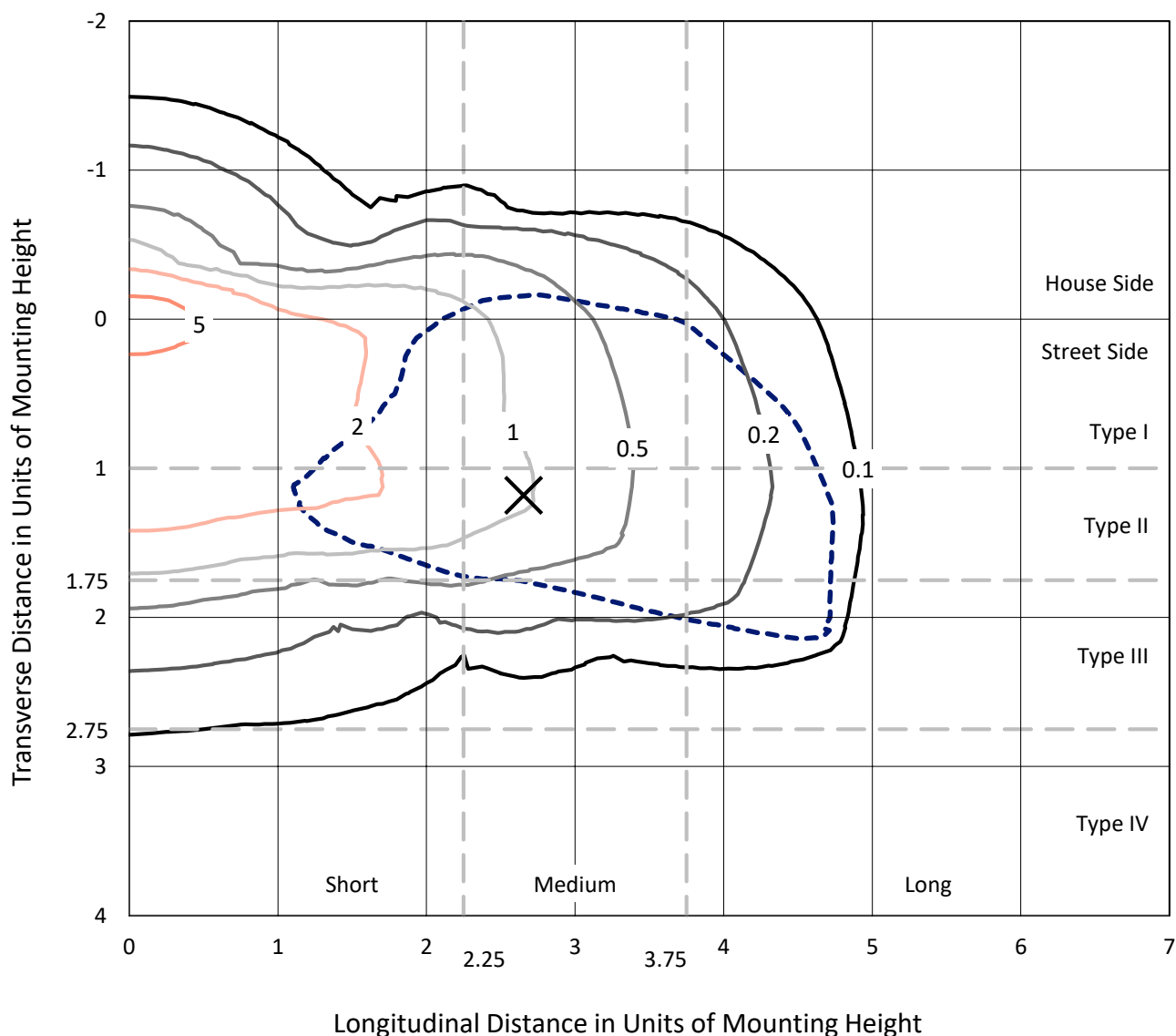
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

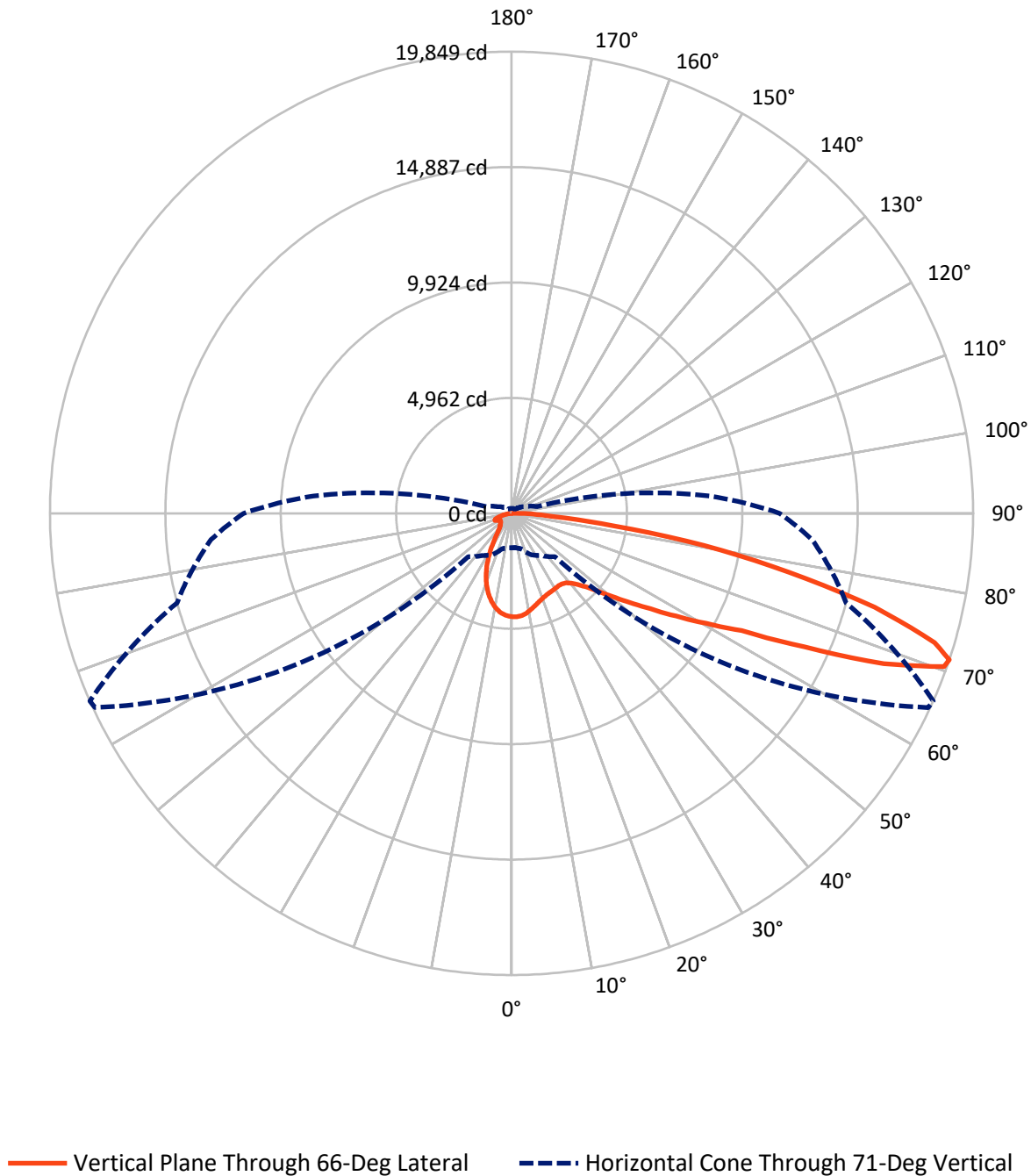
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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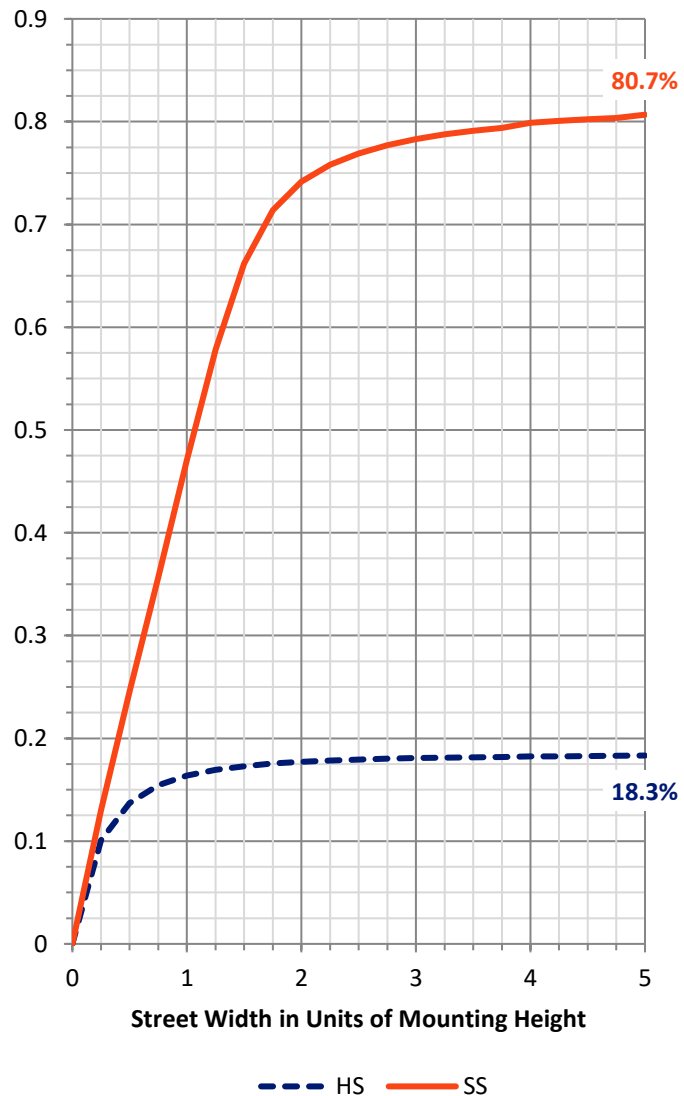
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3596.7	0.0	3596.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	15810.3	0.0	15810.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	19407.0	0.0	19407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	2.0
10°-20°	938.6	4.8
20°-30°	1260.8	6.5
30°-40°	1658.5	8.5
40°-50°	2412.7	12.4
50°-60°	3768.9	19.4
60°-70°	4721.1	24.3
70°-80°	3601.2	18.6
80°-90°	653.9	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°	19407.0	100.0
0°-180°	19407.0	100.0

Coefficient of Utilization



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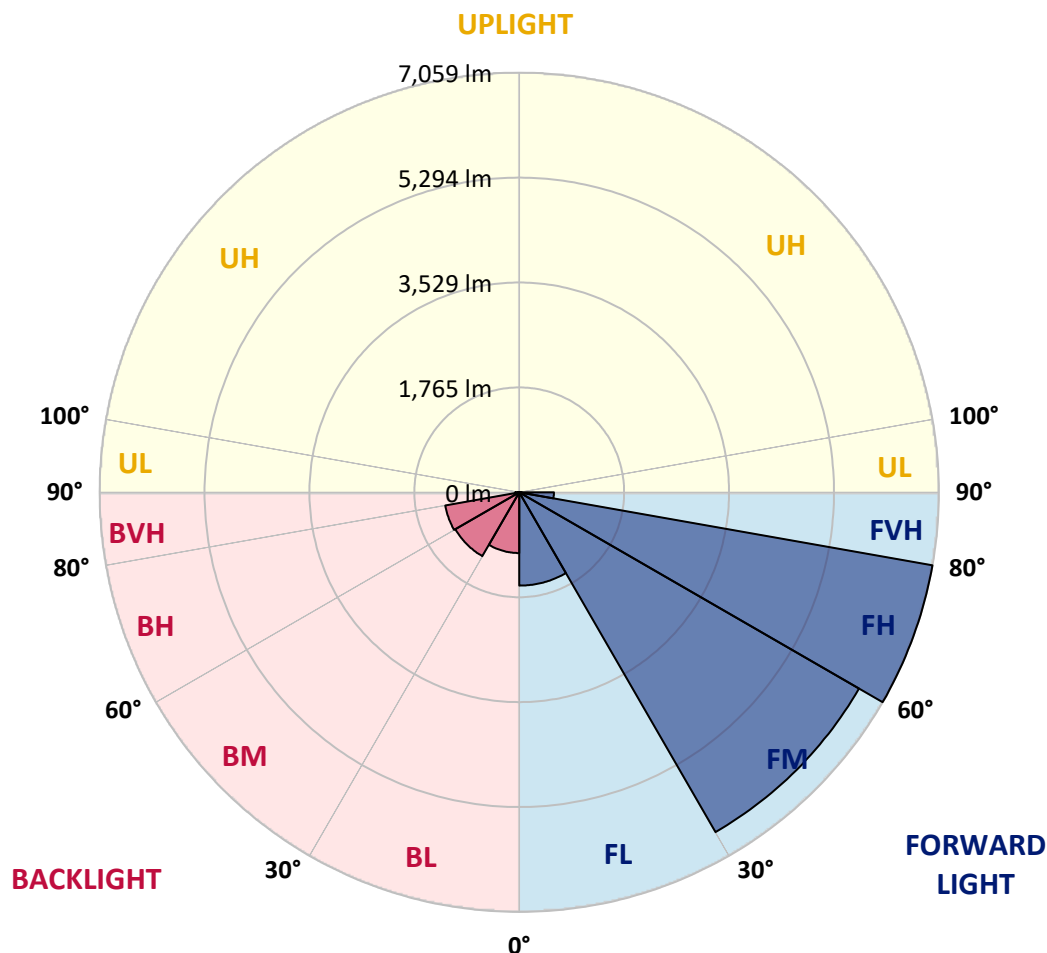
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1569.3	8.1			
FM	(30°-60°)	6599.4	34.0			
FH	(60°-80°)	7058.5	36.4			G3/7500
FVH	(80°-90°)	583.1	3.0			G4/750
BL	(0°-30°)	1021.4	5.3	B3/2500		
BM	(30°-60°)	1240.7	6.4	B2/2500		
BH	(60°-80°)	1263.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	70.8	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8
2.5°	4363.4	4356.7	4376.8	4397.5	4405.6	4419.0	4439.1	4450.5	4449.8	4451.8	4445.1
5°	4073.9	4065.2	4105.4	4138.2	4201.2	4272.2	4358.7	4420.3	4421.6	4456.5	4465.9
7.5°	3799.8	3793.8	3840.0	3893.0	3966.0	4074.6	4214.6	4347.3	4355.3	4449.8	4482.6
10°	3580.1	3578.7	3623.6	3681.2	3766.3	3887.6	4048.4	4242.7	4254.8	4417.6	4485.3
12.5°	3408.5	3411.2	3450.1	3515.7	3605.5	3732.2	3906.4	4125.5	4144.9	4366.7	4469.9
15°	3281.9	3292.6	3324.1	3390.4	3478.9	3607.5	3786.4	4016.9	4046.4	4309.7	4461.2
17.5°	3209.5	3221.6	3243.7	3298.6	3381.7	3505.7	3675.2	3927.8	3954.6	4266.2	4461.8
20°	3188.1	3198.1	3210.9	3244.4	3314.7	3427.3	3587.4	3847.4	3876.2	4231.4	4468.5
22.5°	3230.3	3237.7	3239.0	3236.3	3279.2	3371.0	3523.8	3788.5	3819.3	4208.6	4473.2
25°	3320.8	3330.8	3323.4	3298.6	3284.6	3340.9	3490.9	3749.6	3780.4	4191.8	4463.9
27.5°	3456.8	3458.1	3452.1	3419.9	3353.6	3344.2	3480.9	3726.8	3756.3	4172.4	4444.4
30°	3641.7	3650.4	3639.7	3596.1	3487.6	3397.8	3493.0	3704.7	3731.5	4147.6	4412.9
32.5°	3858.1	3879.6	3878.9	3833.3	3677.9	3517.8	3542.5	3691.3	3712.1	4121.5	4374.7
35°	4082.6	4112.1	4167.0	4147.6	3955.3	3707.4	3637.7	3712.7	3726.8	4118.1	4347.9
37.5°	4315.8	4345.3	4458.5	4510.8	4285.6	3978.7	3787.8	3788.5	3795.2	4159.0	4345.9
40°	4559.7	4591.2	4761.4	4897.4	4713.8	4322.5	4029.7	3946.6	3939.2	4259.5	4385.5
42.5°	4901.4	4929.5	5133.9	5307.4	5188.9	4762.7	4364.0	4190.5	4175.1	4456.5	4512.1
45°	5333.6	5357.7	5574.8	5760.4	5699.4	5265.2	4784.1	4526.2	4523.5	4784.8	4768.7
47.5°	5847.5	5866.3	6061.3	6240.8	6262.9	5843.5	5312.1	5044.1	5000.6	5235.1	5166.1
50°	6382.9	6403.6	6536.3	6729.3	6893.5	6617.4	5991.6	5678.7	5620.4	5829.4	5728.9
52.5°	6737.3	6764.8	6880.1	7124.6	7602.4	7465.7	6795.0	6447.9	6359.4	6549.7	6472.7
55°	6579.2	6640.8	6817.1	7209.0	8169.2	8761.5	7786.0	7345.1	7245.2	7403.4	7357.8
57.5°	5860.2	5944.7	6185.2	6790.3	8249.0	9903.3	9284.2	8401.7	8331.4	8285.8	8306.6
60°	4546.3	4627.4	4925.5	5714.2	7693.5	10736.8	11538.9	9704.3	9602.5	9171.6	9190.4
62.5°	3217.6	3176.7	3381.1	3958.0	6251.5	10834.7	14104.5	11446.4	11111.4	10107.0	10024.6
65°	2453.7	2444.3	2536.1	2719.7	3786.4	9664.1	15632.9	14374.5	13851.2	11207.2	11012.9
67.5°	2016.2	1999.4	2089.9	2357.2	2438.3	6234.8	15666.4	17771.7	17257.8	12576.8	12156.0
70°	1657.7	1638.9	1723.4	2068.4	2253.4	3162.0	13185.2	19761.1	19733.6	14310.9	13019.0
71°	1486.2	1472.8	1573.9	1957.2	2213.8	2635.3	11384.1	19766.4	19848.8	14897.8	12968.1
72.5°	1210.1	1214.8	1322.0	1742.1	2184.4	2327.1	8366.9	18845.1	19019.3	15457.3	12505.1
75°	804.1	808.1	948.8	1340.1	2118.0	2276.8	4598.5	15813.1	16133.4	15122.3	11410.9
77.5°	540.1	538.7	634.5	919.3	1845.3	2276.8	2696.3	11827.0	12178.8	12032.7	8797.1
80°	371.9	369.2	436.9	634.5	1397.0	2304.3	2084.5	8288.5	8395.0	6498.1	3575.4
82.5°	227.8	229.8	285.4	448.3	950.8	2073.8	1967.9	4519.5	4403.6	1822.5	893.2
85°	130.7	130.0	182.3	303.5	610.4	1750.2	1919.0	1945.1	1784.3	548.8	323.0
87.5°	46.9	50.3	97.8	168.2	349.8	1218.8	1628.2	1011.8	911.9	247.9	146.1
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°	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8	4445.8
2.5°	4440.4	4444.4	4439.7	4412.9	4390.2	4353.3	4332.5	4303.7	4295.0	4291.0	4301.7
5°	4457.2	4458.5	4419.0	4348.6	4269.5	4176.4	4109.4	4027.0	3988.1	3971.4	3982.1
7.5°	4472.6	4466.5	4380.1	4245.4	4099.4	3937.2	3793.1	3661.1	3584.1	3552.6	3555.3
10°	4474.6	4449.1	4310.4	4102.0	3875.6	3637.7	3416.6	3212.9	3084.2	3000.5	3025.9
12.5°	4453.8	4410.9	4207.9	3916.4	3602.2	3277.9	2979.0	2673.5	2489.9	2404.8	2407.5
15°	4437.7	4360.0	4081.9	3698.0	3275.9	2846.4	2438.3	2079.2	1883.5	1796.4	1755.5
17.5°	4424.3	4305.1	3935.9	3452.1	2890.6	2345.8	1855.4	1535.1	1427.9	1402.4	1391.7
20°	4405.6	4246.8	3773.0	3167.3	2451.7	1785.7	1354.8	1196.7	1197.4	1226.9	1230.9
22.5°	4379.4	4180.4	3599.5	2847.7	1980.7	1300.6	1062.0	1016.5	1062.7	1119.0	1129.0
25°	4340.6	4102.0	3406.5	2494.6	1510.3	999.7	907.2	905.2	961.5	1020.5	1029.2
27.5°	4285.6	3999.5	3192.1	2115.3	1112.9	849.6	812.8	826.8	868.4	911.3	914.6
30°	4211.9	3880.2	2955.6	1715.3	872.4	756.5	752.5	765.2	790.7	820.8	823.5
32.5°	4130.8	3759.0	2703.0	1328.0	747.1	706.2	710.3	716.3	728.3	740.4	743.1
35°	4057.1	3635.0	2444.3	1009.1	687.5	673.4	670.7	669.4	670.7	666.7	667.4
37.5°	4009.6	3532.5	2175.0	803.4	653.3	644.6	636.5	626.5	615.1	608.4	609.7
40°	3992.1	3456.1	1902.3	694.2	625.2	619.1	603.7	582.3	568.9	564.9	564.9
42.5°	4039.0	3416.6	1638.9	639.2	601.7	591.7	566.2	541.4	531.3	530.7	530.0
45°	4182.4	3432.7	1388.3	609.1	580.3	560.8	527.3	506.6	499.9	501.2	500.5
47.5°	4439.7	3533.8	1173.9	589.0	558.8	533.4	495.8	479.1	471.0	471.0	471.7
50°	4877.3	3770.4	1003.1	572.2	540.7	507.9	473.1	452.3	441.6	440.9	440.9
52.5°	5514.5	4193.8	896.5	558.1	520.6	485.1	450.3	424.1	411.4	408.7	407.4
55°	6313.2	4800.9	867.0	548.8	493.8	460.3	422.8	396.7	382.6	376.6	375.9
57.5°	7206.4	5539.3	925.3	537.4	466.4	430.8	392.6	367.9	353.1	345.7	345.1
60°	8110.3	6345.4	1163.2	521.3	443.6	398.7	361.8	339.0	324.3	316.3	314.9
62.5°	9015.5	7195.0	1649.0	520.0	427.5	367.9	330.3	310.9	296.8	288.1	286.1
65°	10036.6	8125.0	2201.1	555.5	422.1	339.7	298.2	282.8	270.7	262.7	262.0
67.5°	11209.2	9175.0	2148.2	628.5	440.2	314.3	268.0	256.0	247.2	240.5	239.9
70°	11759.3	9010.8	1335.4	680.1	465.7	289.5	239.2	230.5	223.8	219.1	217.1
71°	11528.8	8555.8	1119.7	674.1	463.0	278.7	227.8	221.1	214.4	210.4	208.4
72.5°	10900.3	7802.7	934.0	627.2	432.9	259.3	213.1	206.4	200.3	195.7	194.3
75°	9781.4	6968.5	747.8	501.2	345.1	219.1	186.9	179.6	174.9	172.2	169.5
77.5°	7190.3	4973.1	578.3	396.0	253.9	178.9	159.5	154.1	149.4	145.4	143.4
80°	2754.6	1926.4	389.3	295.5	186.3	141.4	128.6	126.0	121.3	118.6	118.6
82.5°	741.7	575.6	207.7	178.9	124.6	103.2	98.5	97.2	93.1	87.8	88.4
85°	300.2	253.9	116.6	98.5	76.4	61.0	66.3	67.0	62.3	55.6	56.3
87.5°	132.0	107.9	65.0	43.6	33.5	23.5	30.2	30.2	27.5	22.8	20.8
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)