

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: P319537

Luminaire Tested: **GAN-SA3D-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319537
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-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 18440 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

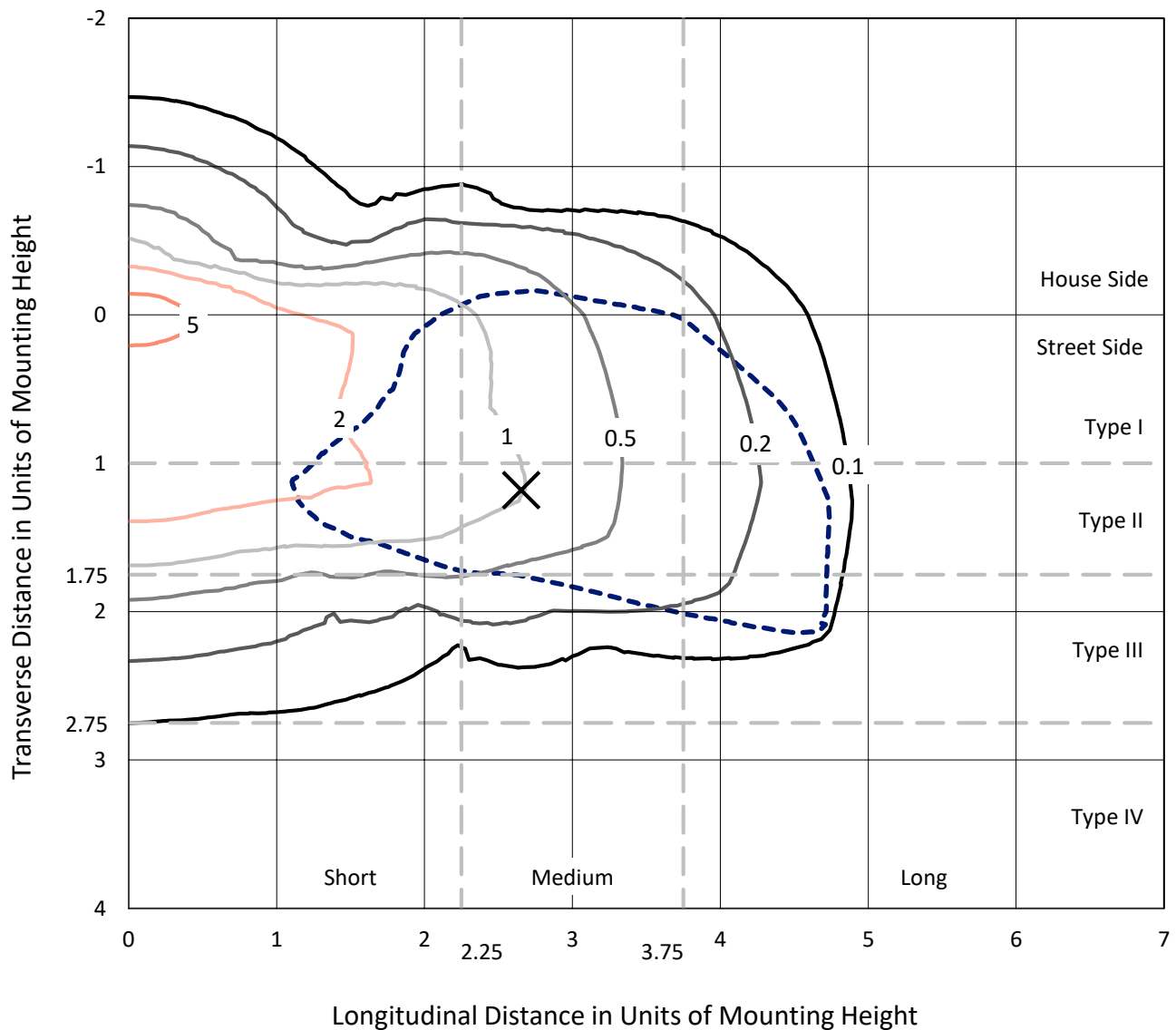
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

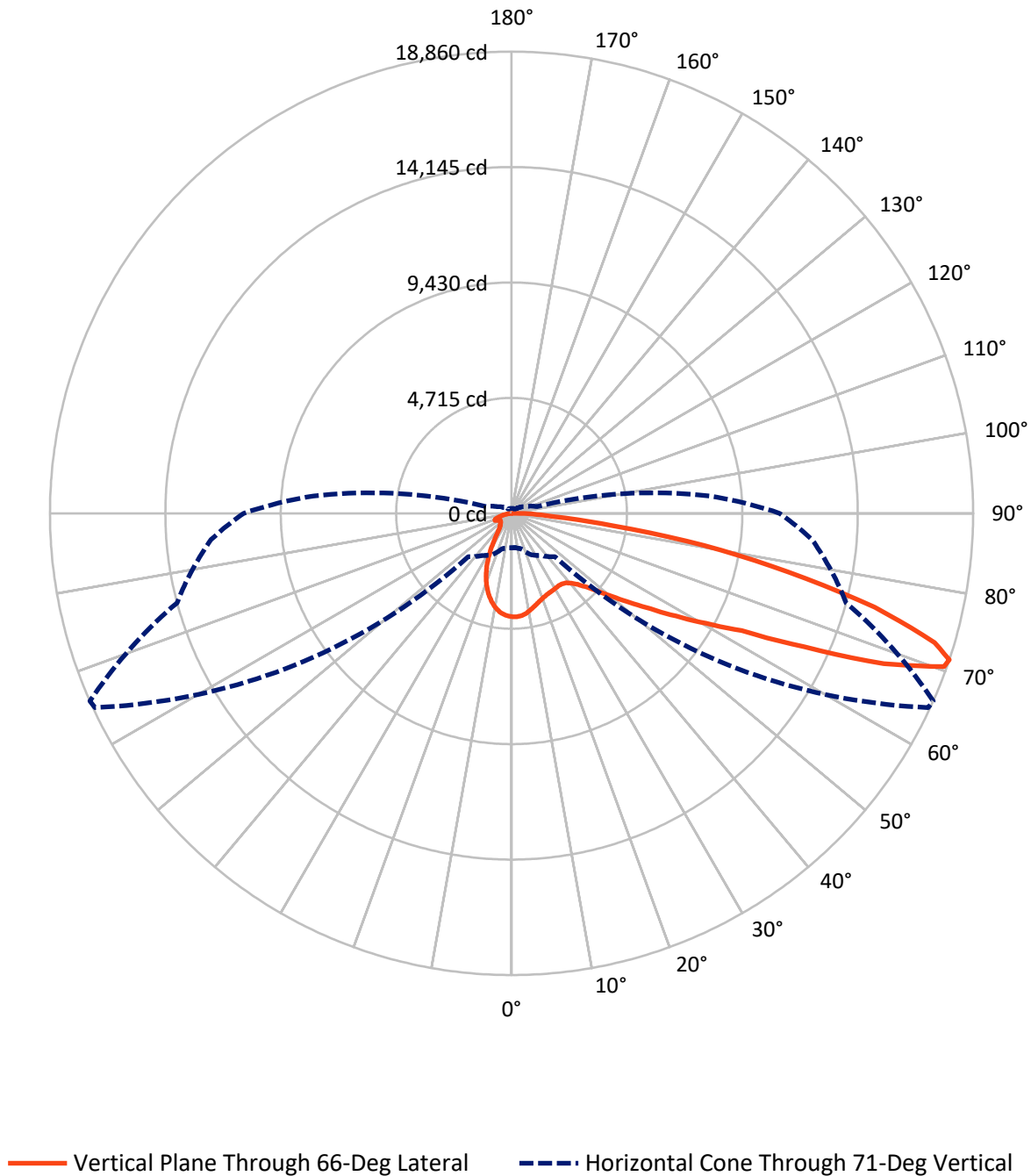
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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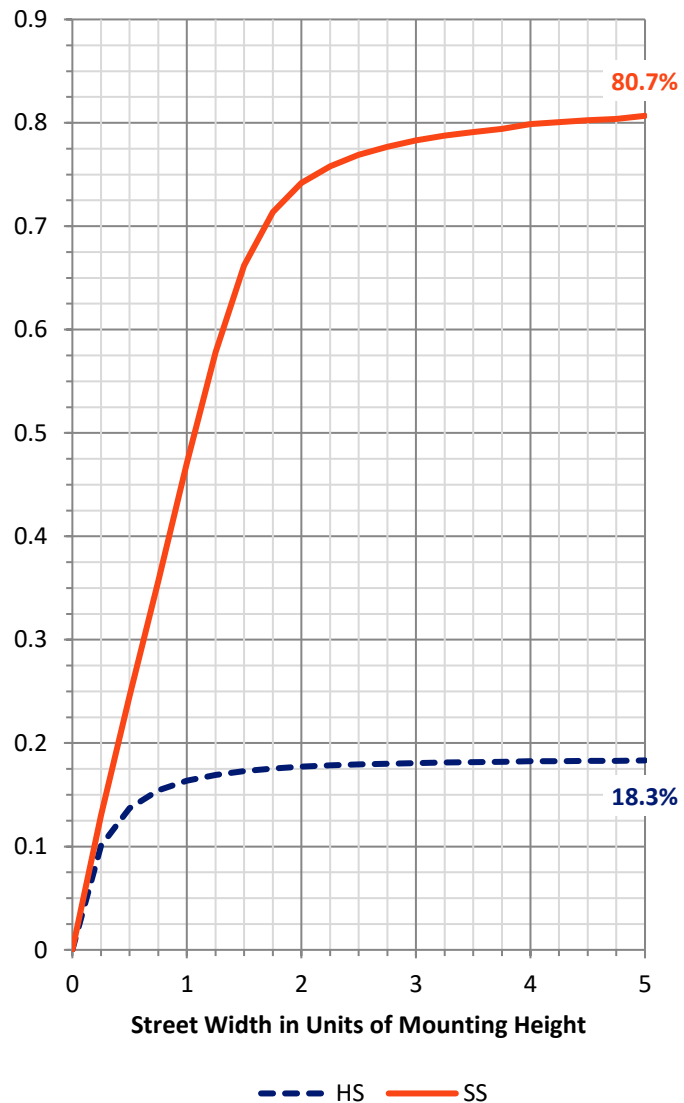
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3417.4	0.0	3417.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	15022.6	0.0	15022.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	18440.0	0.0	18440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	2.0
10°-20°	891.8	4.8
20°-30°	1197.9	6.5
30°-40°	1575.9	8.5
40°-50°	2292.5	12.4
50°-60°	3581.1	19.4
60°-70°	4485.9	24.3
70°-80°	3421.7	18.6
80°-90°	621.3	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°	18440.0	100.0
0°-180°	18440.0	100.0

Coefficient of Utilization



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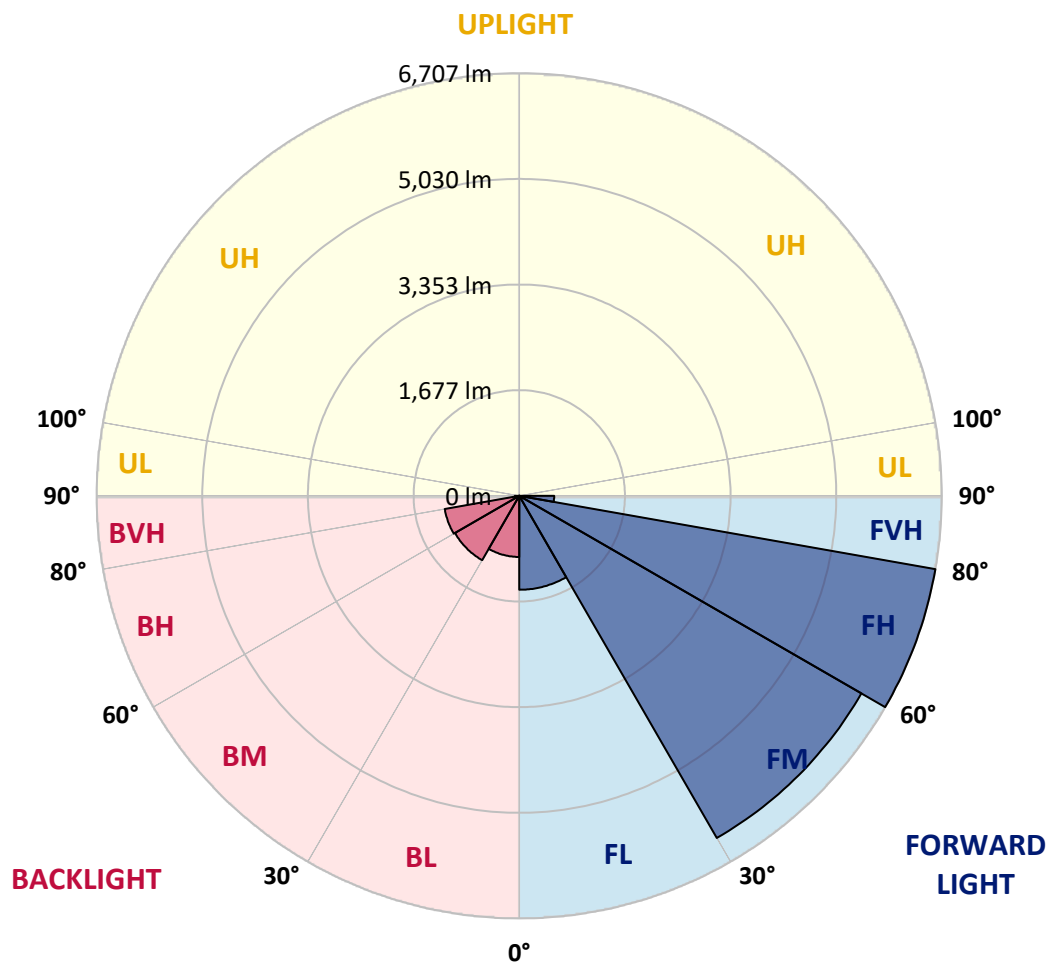
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1491.1	8.1			
FM	(30°-60°)	6270.5	34.0			
FH	(60°-80°)	6706.8	36.4			G3/7500
FVH	(80°-90°)	554.1	3.0			G4/750
BL	(0°-30°)	970.5	5.3	B2/1000		
BM	(30°-60°)	1178.9	6.4	B2/2500		
BH	(60°-80°)	1200.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	67.3	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°	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2
2.5°	4145.9	4139.6	4158.7	4178.4	4186.0	4198.8	4217.9	4228.7	4228.1	4230.0	4223.6
5°	3870.9	3862.6	3900.8	3932.0	3991.9	4059.4	4141.5	4200.1	4201.3	4234.4	4243.3
7.5°	3610.5	3604.8	3648.7	3699.0	3768.4	3871.5	4004.6	4130.7	4138.3	4228.1	4259.3
10°	3401.7	3400.4	3443.1	3497.8	3578.7	3693.9	3846.7	4031.3	4042.8	4197.5	4261.8
12.5°	3238.7	3241.2	3278.2	3340.6	3425.9	3546.2	3711.7	3919.9	3938.4	4149.1	4247.2
15°	3118.4	3128.6	3158.5	3221.5	3305.5	3427.8	3597.8	3816.8	3844.8	4095.0	4238.9
17.5°	3049.6	3061.1	3082.1	3134.3	3213.2	3331.0	3492.1	3732.1	3757.6	4053.6	4239.5
20°	3029.2	3038.8	3050.9	3082.7	3149.6	3256.5	3408.7	3655.7	3683.1	4020.5	4245.9
22.5°	3069.3	3076.3	3077.6	3075.1	3115.8	3203.0	3348.2	3599.7	3629.0	3998.9	4250.4
25°	3155.3	3164.8	3157.8	3134.3	3120.9	3174.4	3317.0	3562.8	3592.0	3983.0	4241.4
27.5°	3284.5	3285.8	3280.1	3249.5	3186.5	3177.6	3307.5	3541.1	3569.1	3964.5	4223.0
30°	3460.3	3468.5	3458.3	3417.0	3313.8	3228.5	3318.9	3520.1	3545.6	3940.9	4193.1
32.5°	3665.9	3686.3	3685.6	3642.3	3494.6	3342.5	3366.0	3507.4	3527.1	3916.1	4156.8
35°	3879.2	3907.2	3959.4	3940.9	3758.2	3522.6	3456.4	3527.7	3541.1	3912.9	4131.3
37.5°	4100.7	4128.7	4236.3	4286.0	4072.1	3780.5	3599.0	3599.7	3606.0	3951.8	4129.4
40°	4332.5	4362.4	4524.1	4653.4	4478.9	4107.1	3828.9	3749.9	3742.9	4047.3	4166.9
42.5°	4657.2	4683.9	4878.1	5043.0	4930.3	4525.4	4146.6	3981.7	3967.0	4234.4	4287.3
45°	5067.8	5090.7	5297.0	5473.4	5415.4	5002.9	4545.8	4300.6	4298.1	4546.4	4531.1
47.5°	5556.1	5574.0	5759.2	5929.9	5950.9	5552.3	5047.4	4792.8	4751.4	4974.2	4908.7
50°	6064.8	6084.6	6210.6	6394.0	6550.0	6287.7	5693.0	5395.7	5340.3	5539.0	5443.5
52.5°	6401.6	6427.7	6537.2	6769.6	7223.6	7093.7	6456.4	6126.6	6042.6	6223.4	6150.1
55°	6251.4	6309.9	6477.4	6849.8	7762.2	8325.0	7398.0	6979.1	6884.2	7034.5	6991.2
57.5°	5568.2	5648.5	5877.0	6451.9	7837.9	9409.9	8821.6	7983.1	7916.2	7873.0	7892.7
60°	4319.7	4396.8	4680.1	5429.4	7310.1	10201.9	10963.9	9220.8	9124.0	8714.6	8732.4
62.5°	3057.2	3018.4	3212.6	3760.8	5940.0	10294.8	13401.7	10876.1	10557.8	9603.4	9525.1
65°	2331.5	2322.5	2409.8	2584.2	3597.8	9182.6	14853.9	13658.3	13161.1	10648.8	10464.2
67.5°	1915.7	1899.8	1985.7	2239.8	2316.8	5924.1	14885.8	16886.2	16397.8	11950.1	11550.3
70°	1575.1	1557.3	1637.5	1965.4	2141.1	3004.4	12528.2	18776.4	18750.3	13597.8	12370.3
71°	1412.1	1399.4	1495.5	1859.7	2103.5	2504.0	10816.9	18781.5	18859.8	14155.5	12321.9
72.5°	1149.8	1154.3	1256.1	1655.3	2075.5	2211.1	7950.0	17906.1	18071.6	14687.1	11882.0
75°	764.0	767.8	901.5	1273.3	2012.5	2163.4	4369.4	15025.2	15329.5	14368.8	10842.3
77.5°	513.1	511.9	602.9	873.5	1753.4	2163.4	2561.9	11237.7	11572.0	11433.2	8358.7
80°	353.3	350.8	415.1	602.9	1327.4	2189.5	1980.7	7875.5	7976.7	6174.3	3397.2
82.5°	216.5	218.4	271.2	425.9	903.4	1970.5	1869.9	4294.3	4184.1	1731.7	848.7
85°	124.1	123.5	173.2	288.4	580.0	1663.0	1823.4	1848.2	1695.4	521.4	306.9
87.5°	44.6	47.7	93.0	159.8	332.3	1158.1	1547.1	961.4	866.5	235.6	138.8
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°	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2	4224.2
2.5°	4219.2	4223.0	4218.5	4193.1	4171.4	4136.4	4116.7	4089.3	4081.0	4077.2	4087.4
5°	4235.1	4236.3	4198.8	4131.9	4056.8	3968.3	3904.6	3826.3	3789.4	3773.5	3783.7
7.5°	4249.7	4244.0	4161.9	4033.9	3895.1	3741.0	3604.1	3478.7	3405.5	3375.6	3378.1
10°	4251.6	4227.4	4095.6	3897.6	3682.4	3456.4	3246.3	3052.8	2930.6	2851.0	2875.2
12.5°	4231.9	4191.1	3998.2	3721.3	3422.7	3114.5	2830.6	2540.3	2365.8	2285.0	2287.5
15°	4216.6	4142.8	3878.5	3513.7	3112.6	2704.5	2316.8	1975.6	1789.7	1706.9	1668.1
17.5°	4203.9	4090.5	3739.7	3280.1	2746.6	2229.0	1762.9	1458.6	1356.7	1332.5	1322.3
20°	4186.0	4035.2	3585.0	3009.5	2329.5	1696.7	1287.3	1137.1	1137.7	1165.7	1169.5
22.5°	4161.2	3972.1	3420.1	2705.8	1882.0	1235.8	1009.1	965.8	1009.7	1063.2	1072.8
25°	4124.3	3897.6	3236.8	2370.3	1435.0	949.9	862.0	860.1	913.6	969.6	977.9
27.5°	4072.1	3800.2	3033.1	2009.9	1057.5	807.3	772.3	785.6	825.1	865.9	869.0
30°	4002.1	3686.9	2808.3	1629.9	828.9	718.8	715.0	727.1	751.3	779.9	782.5
32.5°	3925.0	3571.7	2568.3	1261.9	709.9	671.0	674.9	680.6	692.1	703.5	706.1
35°	3855.0	3453.9	2322.5	958.8	653.2	639.8	637.3	636.0	637.3	633.5	634.1
37.5°	3809.8	3356.5	2066.6	763.4	620.7	612.5	604.8	595.3	584.5	578.1	579.4
40°	3793.2	3283.9	1807.5	659.6	594.0	588.3	573.6	553.3	540.5	536.7	536.7
42.5°	3837.8	3246.3	1557.3	607.4	571.7	562.2	538.0	514.4	504.9	504.2	503.6
45°	3974.0	3261.6	1319.2	578.7	551.3	532.9	501.1	481.3	474.9	476.2	475.6
47.5°	4218.5	3357.8	1115.4	559.6	531.0	506.8	471.1	455.2	447.6	447.6	448.2
50°	4634.3	3582.5	953.1	543.7	513.8	482.6	449.5	429.7	419.6	418.9	418.9
52.5°	5239.7	3984.9	851.9	530.3	494.7	460.9	427.8	403.0	390.9	388.4	387.1
55°	5998.6	4561.7	823.8	521.4	469.2	437.4	401.7	376.9	363.5	357.8	357.2
57.5°	6847.3	5263.3	879.2	510.6	443.1	409.4	373.1	349.5	335.5	328.5	327.9
60°	7706.1	6029.2	1105.2	495.3	421.5	378.8	343.8	322.2	308.1	300.5	299.2
62.5°	8566.3	6836.5	1566.8	494.0	406.2	349.5	313.9	295.4	282.0	273.8	271.9
65°	9536.5	7720.2	2091.4	527.8	401.1	322.8	283.3	268.7	257.2	249.6	248.9
67.5°	10650.7	8717.8	2041.1	597.2	418.3	298.6	254.7	243.2	234.9	228.6	227.9
70°	11173.4	8561.8	1268.9	646.2	442.5	275.0	227.3	219.0	212.6	208.2	206.3
71°	10954.4	8129.5	1063.9	640.5	439.9	264.9	216.5	210.1	203.7	199.9	198.0
72.5°	10357.2	7413.9	887.5	595.9	411.3	246.4	202.5	196.1	190.4	185.9	184.6
75°	9294.0	6621.3	710.5	476.2	327.9	208.2	177.6	170.6	166.2	163.6	161.1
77.5°	6832.0	4725.3	549.4	376.3	241.3	170.0	151.5	146.4	142.0	138.2	136.2
80°	2617.3	1830.4	369.9	280.8	177.0	134.3	122.2	119.7	115.2	112.7	112.7
82.5°	704.8	546.9	197.4	170.0	118.4	98.0	93.6	92.3	88.5	83.4	84.0
85°	285.2	241.3	110.8	93.6	72.6	57.9	63.0	63.7	59.2	52.8	53.5
87.5°	125.4	102.5	61.8	41.4	31.8	22.3	28.6	28.6	26.1	21.6	19.7
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)