

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: P320159

Luminaire Tested: **GAN-SA5B-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21567 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 210
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

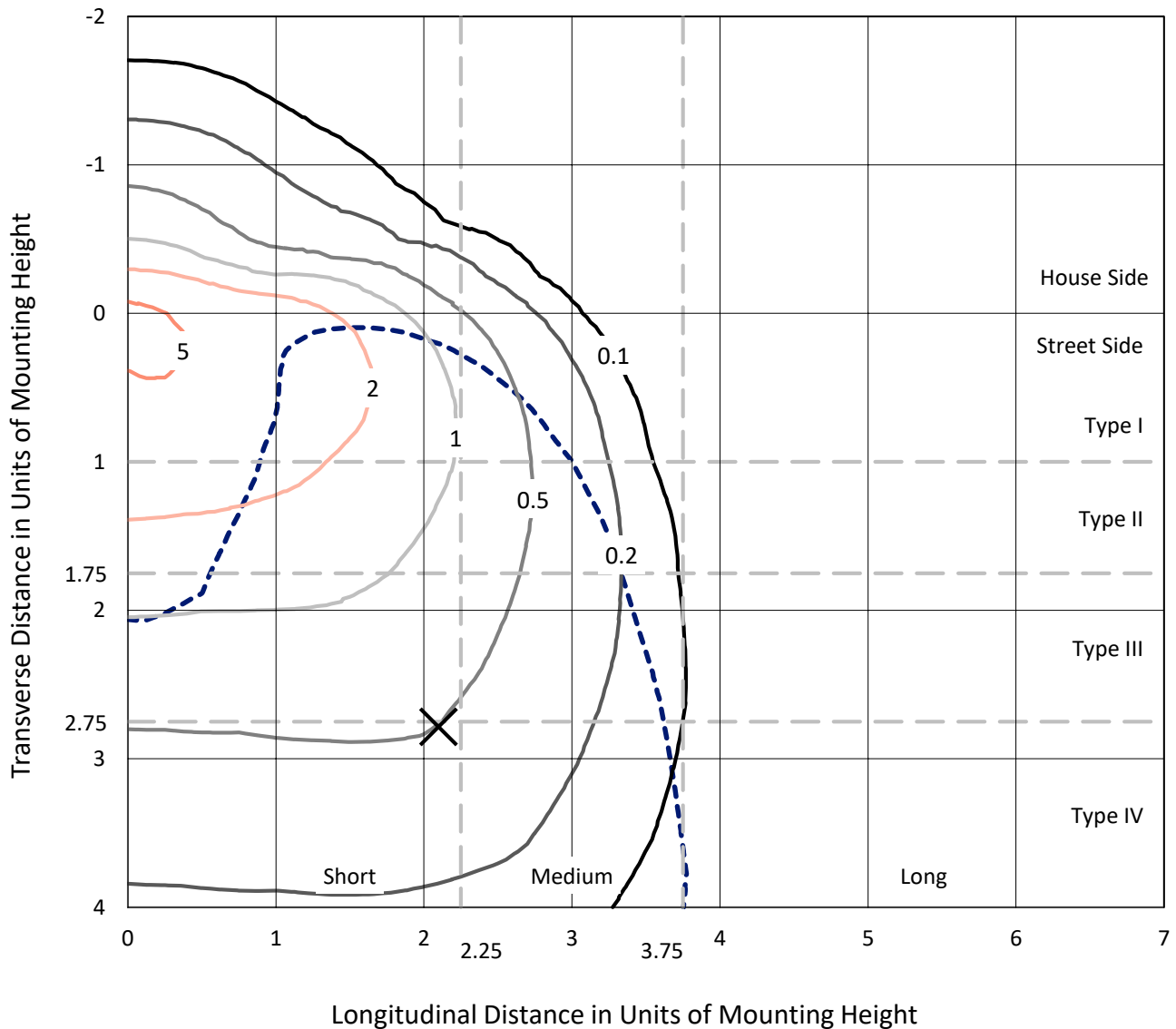


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Iso-Footcandle Lines of Horizontal Illumination

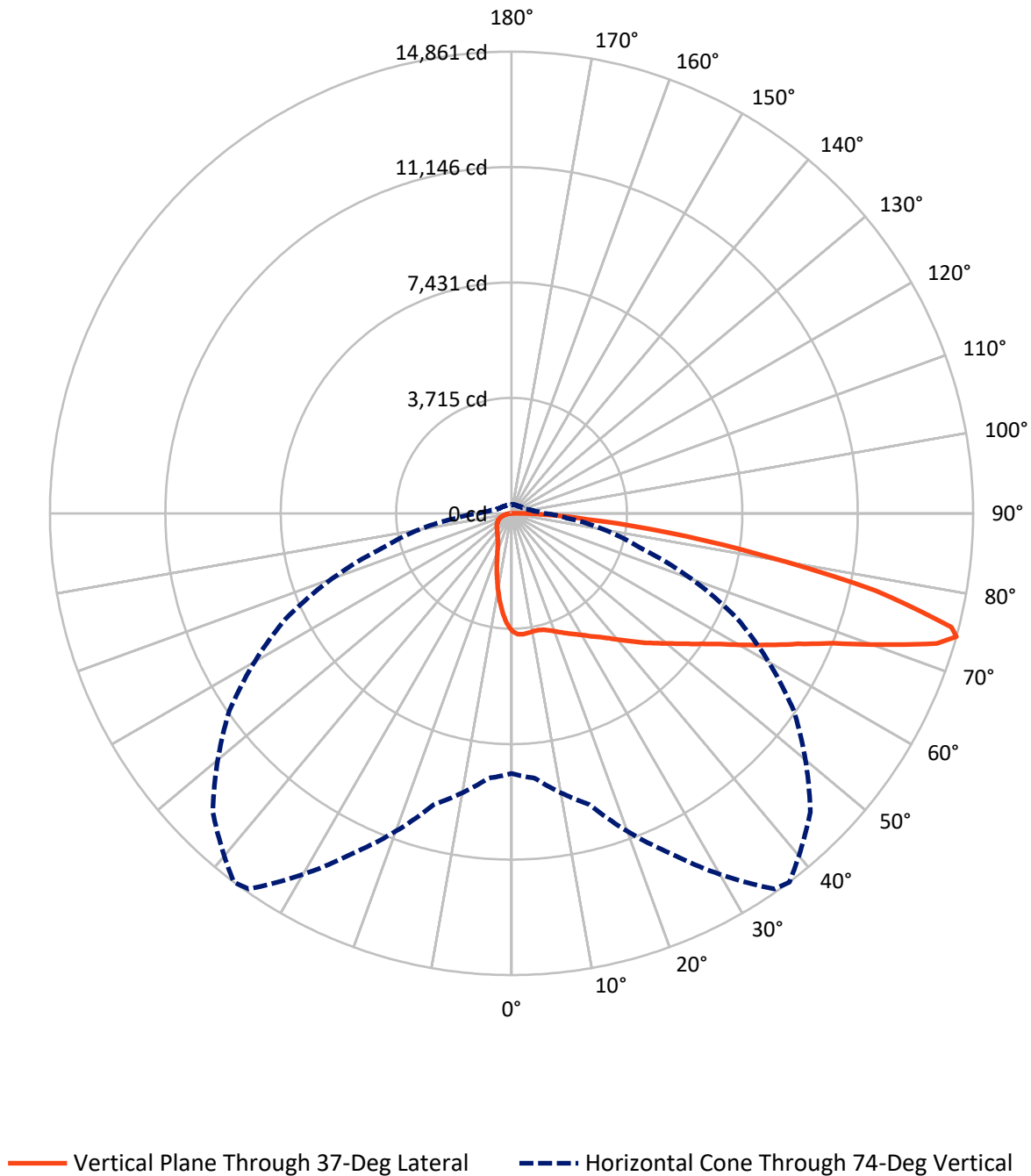
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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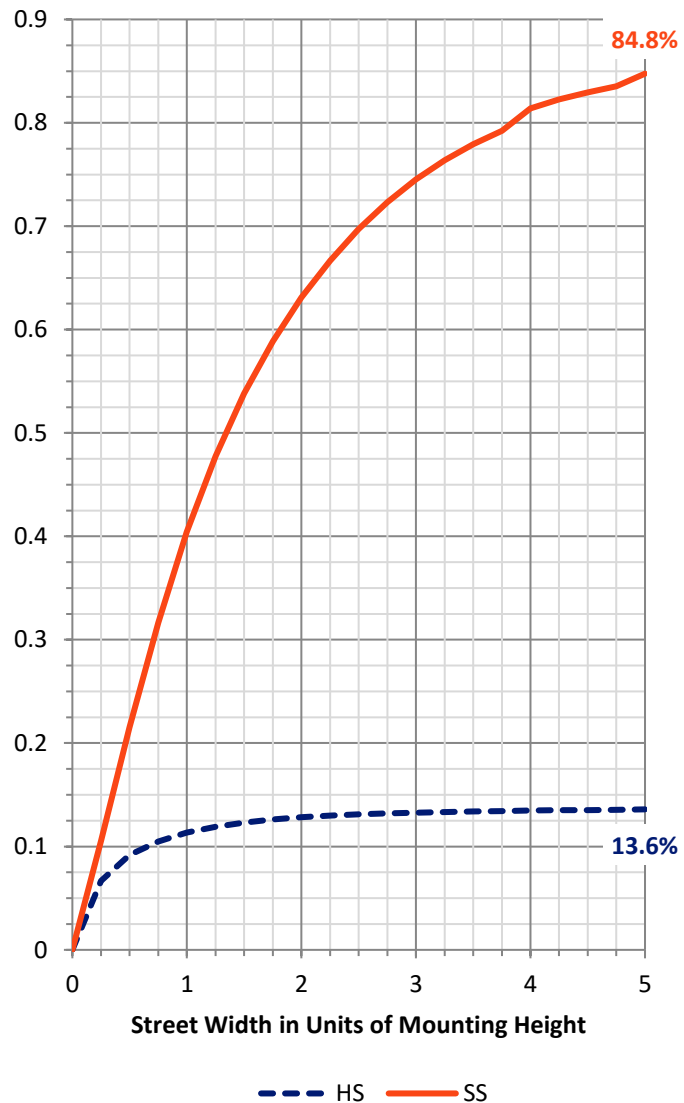
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2967.5	0.0	2967.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	18599.5	0.0	18599.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	21567.0	0.0	21567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.6	1.6
10°-20°	857.8	4.0
20°-30°	1321.6	6.1
30°-40°	1921.9	8.9
40°-50°	2828.6	13.1
50°-60°	3972.3	18.4
60°-70°	5027.7	23.3
70°-80°	4427.1	20.5
80°-90°	875.3	4.1
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°	21567.0	100.0
0°-180°	21567.0	100.0

Coefficient of Utilization



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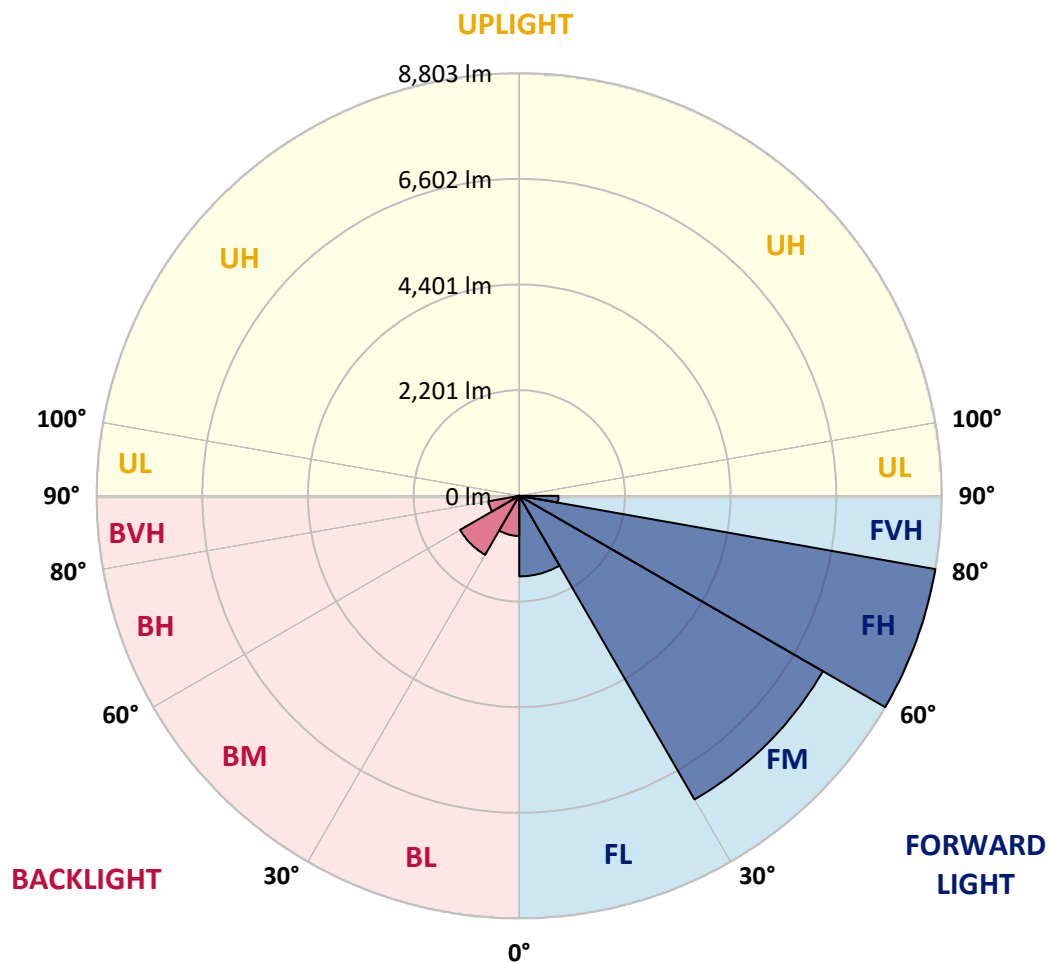
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.2	7.8			
FM	(30°-60°)	7302.8	33.9			
FH	(60°-80°)	8802.5	40.8			G4/12000
FVH	(80°-90°)	816.1	3.8			G5
BL	(0°-30°)	835.9	3.9	B2/1000		
BM	(30°-60°)	1420.0	6.6	B2/2500		
BH	(60°-80°)	652.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	59.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0
2.5°	3929.9	3930.7	3929.9	3923.9	3909.4	3897.3	3887.4	3873.0	3841.0	3816.7	3780.3
5°	3967.2	3962.6	3959.6	3948.2	3925.4	3911.7	3892.7	3865.4	3812.9	3764.3	3705.1
7.5°	3949.7	3944.4	3937.5	3923.9	3898.0	3886.6	3860.0	3824.3	3761.3	3697.5	3612.4
10°	3895.7	3894.2	3891.2	3888.1	3866.1	3857.0	3832.7	3794.7	3732.4	3654.9	3555.4
12.5°	3835.7	3839.5	3851.7	3867.6	3857.8	3853.2	3838.0	3812.2	3748.4	3664.8	3544.8
15°	3797.7	3808.4	3841.0	3882.8	3891.2	3889.7	3885.9	3869.2	3801.5	3708.9	3569.1
17.5°	3784.8	3802.3	3864.6	3933.7	3958.0	3963.4	3964.9	3936.0	3860.8	3762.8	3594.1
20°	3808.4	3830.4	3921.6	4016.5	4055.3	4058.3	4051.5	4001.3	3917.0	3809.1	3607.8
22.5°	3879.8	3899.5	4013.5	4120.6	4164.7	4169.2	4148.7	4072.8	3976.3	3863.8	3626.8
25°	4017.3	4041.6	4155.6	4262.7	4285.5	4286.2	4256.6	4162.4	4053.8	3940.6	3667.8
27.5°	4196.6	4220.9	4323.5	4428.3	4416.1	4409.3	4369.0	4274.8	4154.8	4046.2	3740.8
30°	4396.4	4423.0	4520.2	4594.7	4565.8	4552.1	4519.5	4397.9	4295.3	4190.5	3852.4
32.5°	4603.0	4627.3	4712.4	4763.3	4726.9	4720.8	4671.4	4560.5	4478.4	4410.8	4033.2
35°	4815.0	4832.5	4916.0	4944.9	4896.3	4894.8	4881.1	4779.3	4727.6	4759.5	4296.1
37.5°	5031.5	5036.1	5107.5	5109.0	5094.6	5100.6	5115.1	5051.2	5065.7	5165.2	4638.0
40°	5224.5	5236.6	5288.3	5304.2	5329.3	5350.6	5422.7	5381.0	5492.6	5668.9	5063.4
42.5°	5367.3	5390.8	5473.6	5514.7	5596.0	5629.4	5731.2	5769.9	5994.8	6259.2	5569.4
45°	5488.1	5524.5	5657.5	5741.8	5879.3	5937.8	6083.7	6213.6	6562.3	6899.6	6101.9
47.5°	5618.7	5665.1	5831.5	5992.5	6179.4	6245.5	6510.6	6705.1	7167.8	7543.8	6604.1
50°	5810.9	5846.7	6009.2	6262.2	6495.4	6580.5	6947.5	7226.3	7783.1	8157.7	7039.4
52.5°	6079.1	6065.4	6203.0	6557.7	6870.7	6975.6	7413.9	7780.9	8406.8	8713.0	7407.1
55°	6348.8	6326.0	6422.5	6866.9	7308.3	7418.5	7927.5	8337.7	9000.2	9212.9	7688.9
57.5°	6648.9	6605.6	6686.9	7215.6	7806.7	7938.1	8502.6	8929.5	9583.6	9617.0	7868.2
60°	6958.1	6899.6	6990.8	7647.9	8439.5	8594.5	9175.7	9506.9	10133.6	9940.7	7926.0
62.5°	7228.6	7187.5	7328.1	8130.3	9152.9	9323.0	9836.6	10120.7	10676.1	10075.1	7717.8
65°	7464.8	7471.7	7714.8	8672.7	9948.3	10129.8	10594.8	10877.4	11103.0	9995.4	7230.8
67.5°	7746.7	7785.4	8200.2	9386.9	10949.6	11148.6	11697.9	11702.4	11341.6	9527.4	6272.1
70°	8157.7	8237.4	8868.0	10377.5	12373.2	12646.7	13070.6	12187.1	11006.5	8258.7	4935.0
72.5°	8522.3	8671.2	9578.3	11511.0	14108.4	14315.8	13873.7	11907.5	9606.4	6189.3	3074.5
74°	8374.2	8558.8	9707.5	12069.4	14761.7	14861.3	13602.4	11091.6	8009.5	4286.2	1786.8
75°	8055.1	8255.7	9519.0	12064.0	14678.9	14623.5	12947.6	10159.5	6596.5	2923.3	1188.9
77.5°	6500.8	6712.7	8020.9	10339.5	12035.9	11983.5	9946.0	6815.3	2889.1	958.7	604.0
80°	3779.5	3941.3	4979.1	6566.1	8115.9	8210.8	6541.0	3372.3	1136.5	538.6	409.5
82.5°	1678.9	1790.6	2405.2	3351.8	4897.8	5020.1	3425.5	1767.1	702.0	327.4	246.1
85°	1101.6	1184.4	1460.1	1596.1	2332.3	2415.8	1676.7	1375.8	463.4	180.0	180.8
87.5°	792.4	872.1	1084.9	947.3	1070.4	1013.4	912.4	1273.3	186.1	102.6	60.8
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°	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0	3800.0
2.5°	3764.3	3752.2	3724.8	3673.2	3644.3	3620.0	3579.7	3556.2	3545.5	3544.8	3549.3
5°	3670.9	3642.8	3572.1	3485.5	3416.4	3353.3	3275.1	3228.0	3194.5	3174.8	3180.1
7.5°	3562.2	3518.2	3407.3	3269.0	3158.1	3035.8	2915.0	2842.8	2786.6	2744.8	2752.4
10°	3487.8	3427.0	3265.2	3066.2	2881.5	2703.8	2537.4	2437.9	2358.9	2298.1	2302.7
12.5°	3462.7	3380.7	3156.6	2890.7	2631.6	2388.5	2171.2	2018.5	1937.2	1868.1	1873.4
15°	3466.5	3356.4	3065.4	2732.6	2406.7	2100.6	1837.0	1658.4	1548.3	1500.4	1501.2
17.5°	3469.6	3328.2	2969.7	2563.2	2184.1	1831.6	1545.2	1364.4	1260.3	1216.3	1217.0
20°	3459.7	3282.7	2851.2	2368.7	1951.7	1584.7	1307.4	1154.0	1075.0	1040.8	1040.8
22.5°	3446.8	3228.7	2717.4	2173.5	1722.2	1370.5	1137.3	1020.3	974.7	951.9	951.1
25°	3452.8	3188.5	2580.7	1972.9	1511.0	1199.6	1024.1	946.6	916.2	901.8	901.0
27.5°	3485.5	3169.5	2454.6	1773.1	1326.4	1071.2	948.1	893.4	873.7	864.5	864.5
30°	3544.8	3169.5	2323.2	1603.0	1173.0	976.2	889.6	852.4	838.7	832.6	832.6
32.5°	3648.1	3186.9	2196.3	1434.3	1050.7	901.8	841.0	815.9	805.3	802.2	802.2
35°	3825.9	3246.2	2072.5	1274.8	951.9	841.0	794.6	780.2	772.6	771.9	774.1
37.5°	4075.8	3367.0	1956.2	1157.0	882.0	791.6	755.9	744.5	739.9	743.7	746.8
40°	4390.3	3531.1	1850.6	1050.7	828.8	752.1	720.2	712.6	710.3	715.6	720.2
42.5°	4770.2	3752.9	1764.0	973.9	787.8	718.7	689.8	680.7	678.4	684.5	690.6
45°	5181.2	3991.5	1703.2	917.0	755.9	693.6	663.2	653.3	648.8	651.8	658.7
47.5°	5554.9	4217.1	1678.9	876.7	725.5	672.3	639.7	627.5	619.9	618.4	623.7
50°	5870.2	4385.0	1690.3	852.4	701.2	648.8	616.9	603.2	591.8	585.0	588.8
52.5°	6099.6	4490.6	1701.0	841.7	682.2	623.0	591.8	578.9	563.7	552.3	552.3
55°	6266.0	4514.9	1677.4	833.4	667.8	594.8	563.7	551.5	536.3	523.4	521.9
57.5°	6331.3	4446.5	1590.1	821.2	657.9	568.3	534.1	525.0	512.0	496.8	496.1
60°	6243.2	4235.3	1421.4	795.4	645.0	546.2	504.4	498.4	492.3	477.9	477.1
62.5°	5889.2	3771.9	1203.4	743.0	619.2	522.7	477.1	480.1	480.9	471.0	469.5
65°	5247.3	3135.3	990.6	674.6	580.4	494.6	449.0	463.4	471.8	470.3	468.0
67.5°	4314.3	2440.2	839.5	602.4	529.5	455.8	418.6	435.3	442.1	447.5	445.9
70°	3202.1	1720.7	694.4	526.5	468.0	410.2	379.1	387.4	382.9	389.0	391.2
72.5°	1785.3	1032.4	566.0	450.5	404.2	357.1	335.0	333.5	323.6	323.6	323.6
74°	1071.2	757.4	497.6	403.4	365.4	322.1	303.1	296.3	287.2	287.9	287.2
75°	861.5	651.1	456.6	372.3	338.1	301.6	282.6	273.5	266.7	266.7	265.9
77.5°	543.9	494.6	367.7	296.3	270.5	248.4	235.5	223.4	223.4	222.6	221.8
80°	411.0	393.5	286.4	224.1	207.4	190.7	182.3	177.0	177.0	179.3	178.5
82.5°	281.8	296.3	201.3	156.5	148.1	136.0	134.5	135.2	132.9	129.9	129.1
85°	205.9	222.6	136.0	98.8	90.4	82.8	88.9	91.9	88.1	81.3	78.2
87.5°	79.0	145.9	72.9	41.0	38.0	32.7	38.0	39.5	42.5	33.4	34.2
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)