

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: P193347

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-5MQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36855 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 374
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: 28.75 FT

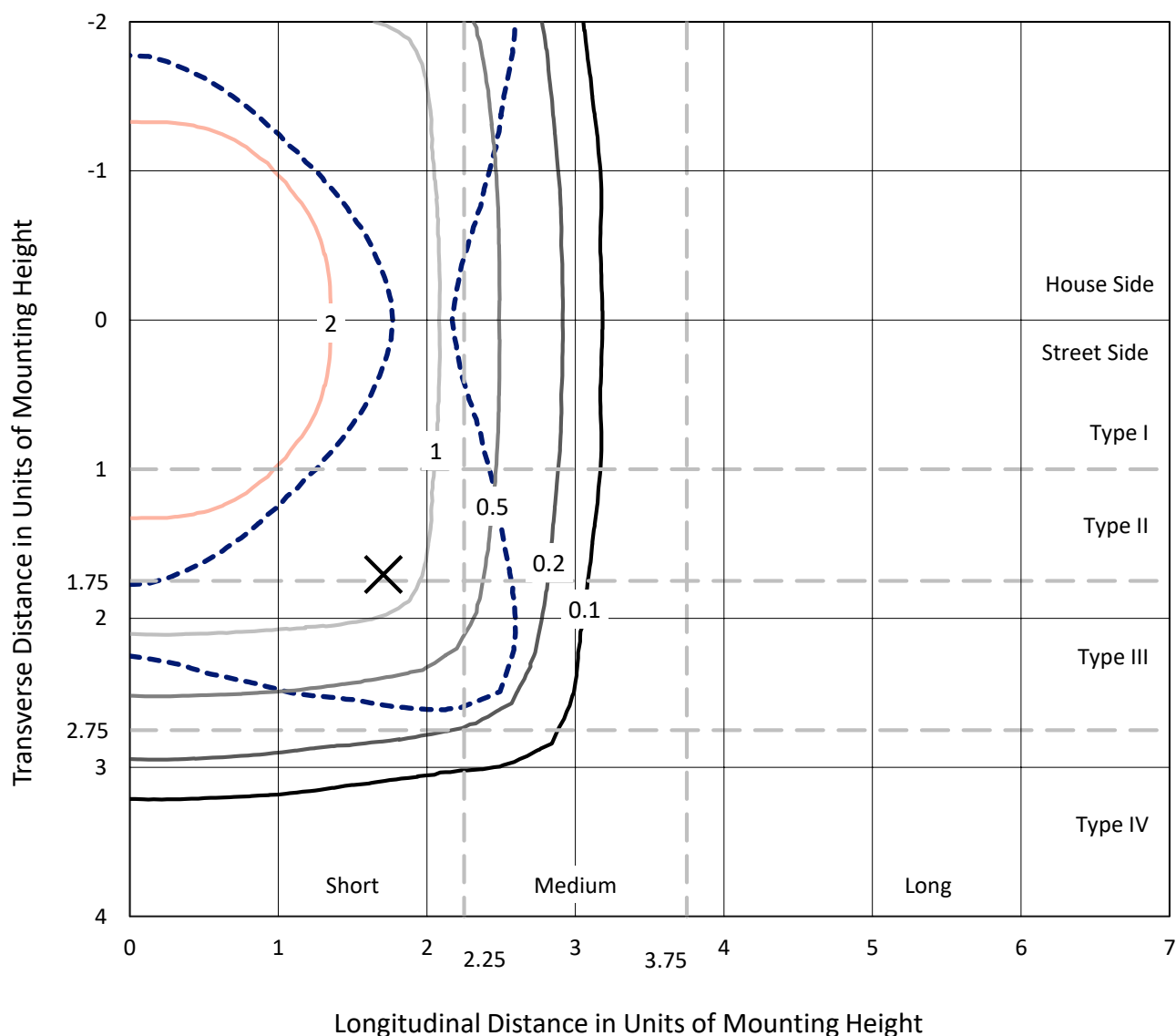


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

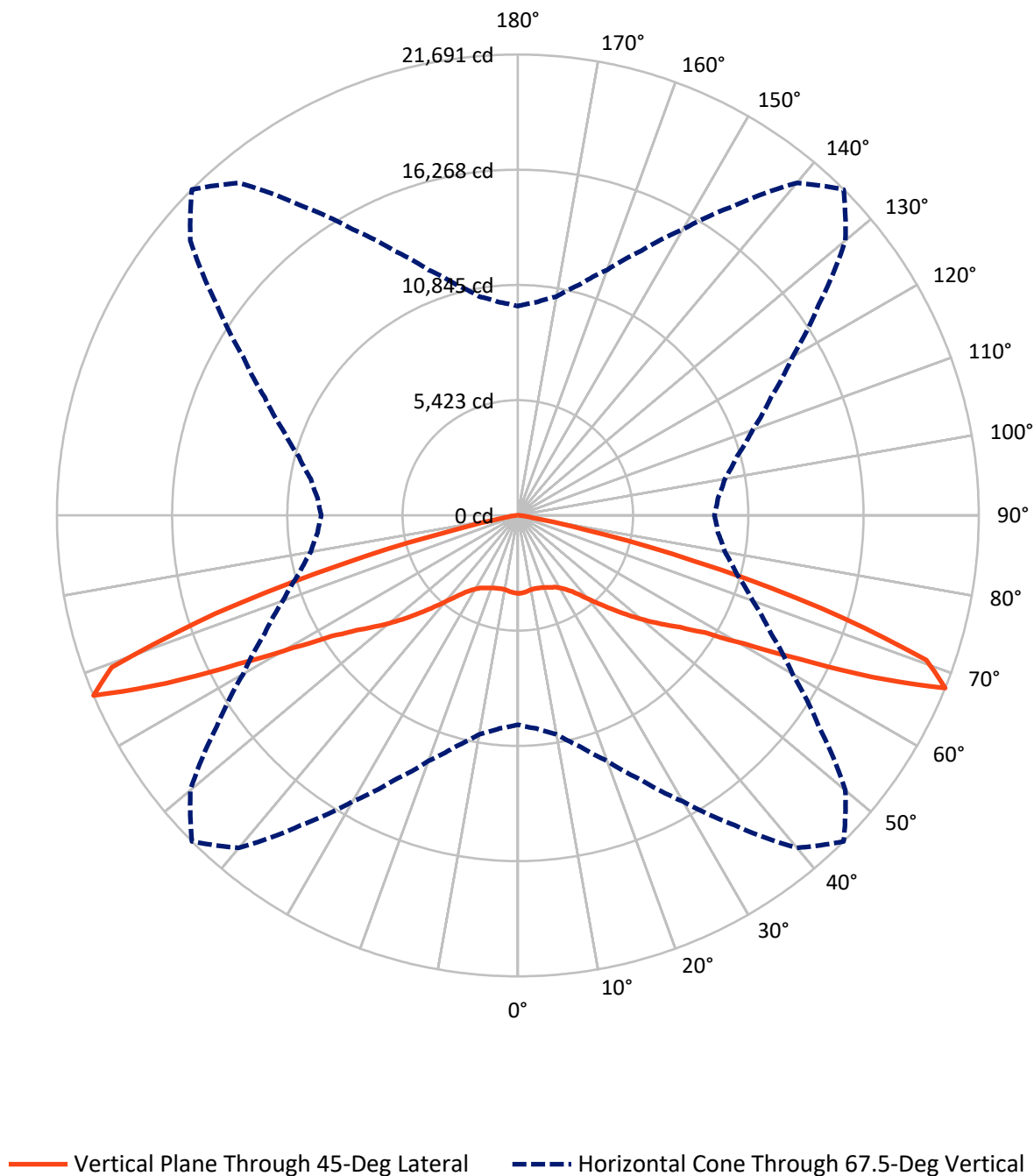


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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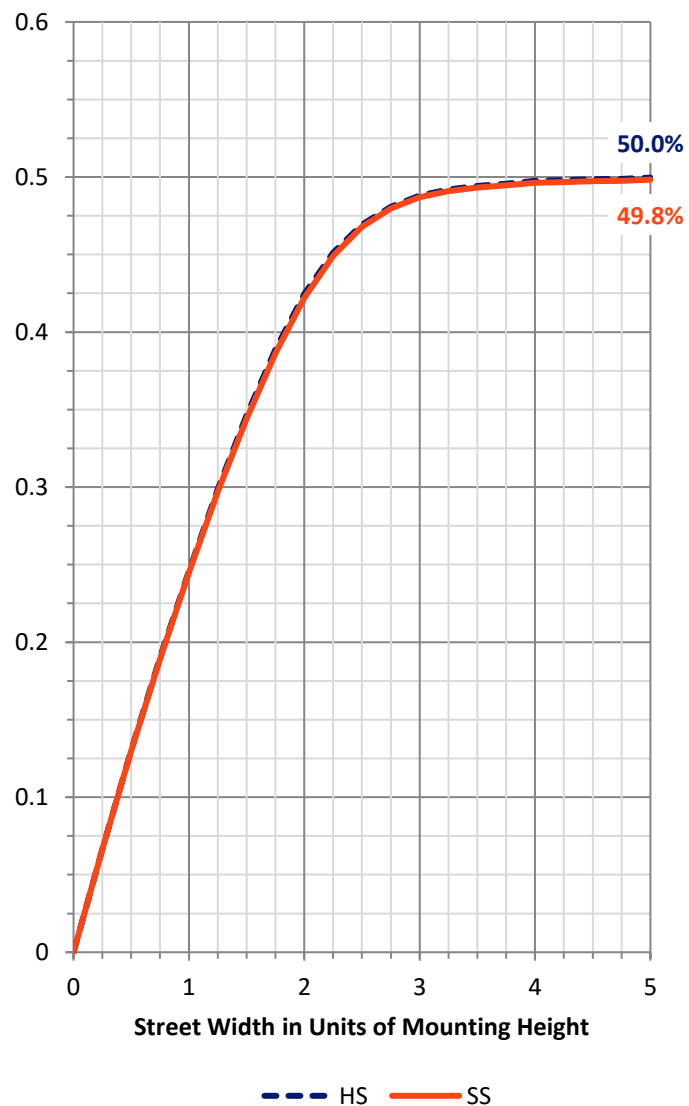
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18427.5	0.0	18427.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18427.5	0.0	18427.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36855.0	0.0	36855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.8	0.9
10°-20°	997.5	2.7
20°-30°	1695.7	4.6
30°-40°	2772.0	7.5
40°-50°	4948.6	13.4
50°-60°	8343.4	22.6
60°-70°	12947.7	35.1
70°-80°	4549.3	12.3
80°-90°	257.1	0.7
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°	36855.0	100.0
0°-180°	36855.0	100.0

Coefficient of Utilization



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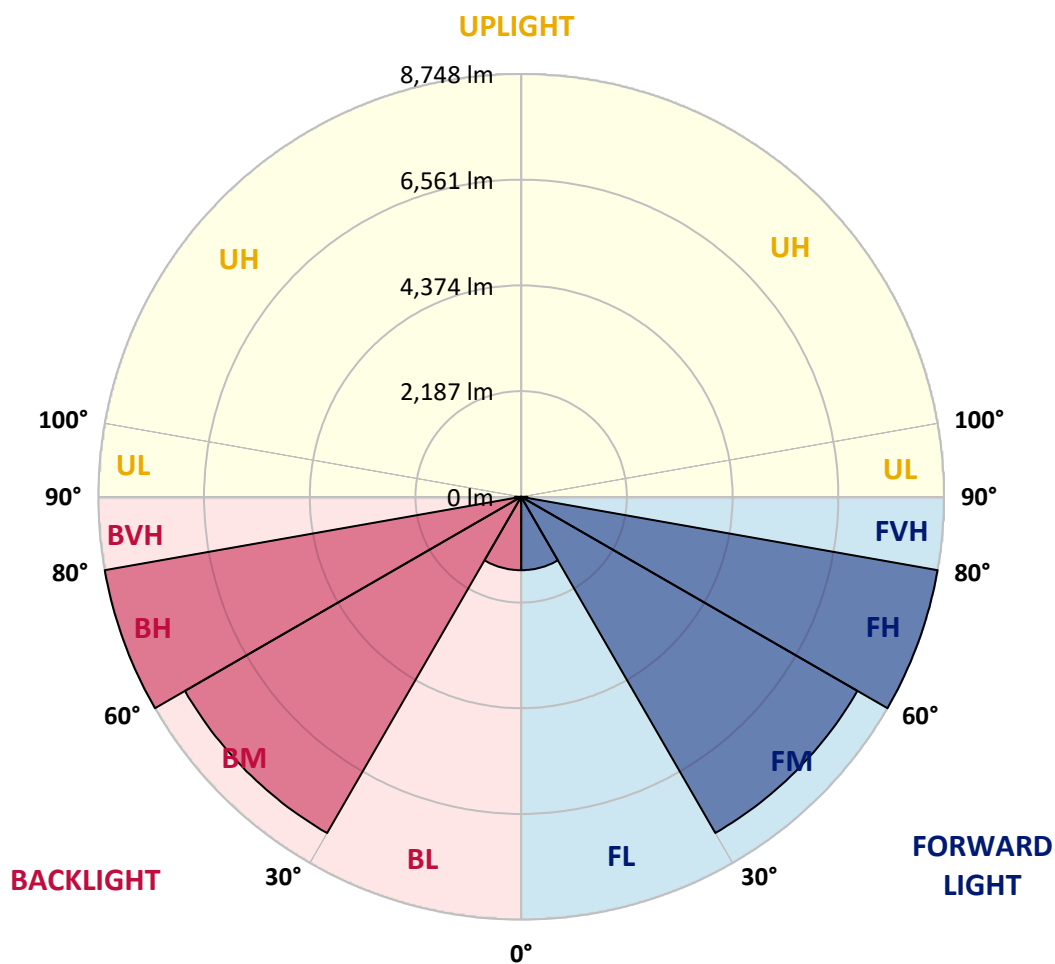
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1518.5	4.1			
FM	(30°-60°)	8032.0	21.8			
FH	(60°-80°)	8748.5	23.7			G4/12000
FVH	(80°-90°)	128.5	0.3			G2/225
BL	(0°-30°)	1518.5	4.1	B3/2500		
BM	(30°-60°)	8032.0	21.8	B4/8500		
BH	(60°-80°)	8748.5	23.7	B5		G4/12000
BVH	(80°-90°)	128.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8
2.5°	3659.2	3662.6	3662.6	3662.6	3660.9	3660.9	3657.5	3660.9	3659.2	3654.1	3655.8
5°	3628.7	3632.1	3632.1	3630.4	3635.5	3633.8	3628.7	3632.1	3630.4	3627.0	3628.7
7.5°	3584.6	3589.7	3589.7	3588.0	3593.1	3591.4	3588.0	3589.7	3589.7	3584.6	3584.6
10°	3535.5	3538.9	3538.9	3537.2	3545.6	3545.6	3543.9	3549.0	3550.7	3545.6	3542.3
12.5°	3489.7	3494.8	3494.8	3501.6	3510.0	3513.4	3521.9	3528.7	3535.5	3533.8	3527.0
15°	3462.6	3466.0	3472.8	3481.2	3494.8	3506.7	3520.2	3535.5	3549.0	3552.4	3542.3
17.5°	3445.6	3450.7	3460.9	3472.8	3491.4	3511.7	3532.1	3552.4	3571.1	3577.8	3566.0
20°	3440.6	3444.0	3454.1	3474.5	3499.9	3530.4	3559.2	3582.9	3608.4	3616.8	3608.4
22.5°	3450.7	3457.5	3469.4	3493.1	3527.0	3566.0	3599.9	3632.1	3664.3	3679.5	3667.7
25°	3496.5	3503.3	3518.5	3549.0	3586.3	3627.0	3666.0	3703.3	3732.1	3747.3	3738.9
27.5°	3581.2	3589.7	3608.4	3638.9	3679.5	3723.6	3766.0	3796.5	3820.2	3825.3	3815.1
30°	3708.3	3727.0	3749.0	3782.9	3830.4	3867.7	3910.0	3937.2	3966.0	3966.0	3957.5
32.5°	3906.6	3925.3	3949.0	3981.2	4018.5	4059.2	4096.5	4120.2	4150.7	4152.4	4132.1
35°	4203.2	4211.7	4232.1	4252.4	4286.3	4321.9	4354.1	4369.3	4394.8	4396.5	4377.8
37.5°	4594.8	4596.5	4610.0	4616.8	4647.3	4686.3	4716.8	4727.0	4750.7	4747.3	4728.7
40°	5050.7	5059.1	5064.2	5074.4	5106.6	5143.9	5176.1	5181.2	5206.6	5201.5	5177.8
42.5°	5577.8	5581.2	5610.0	5625.2	5655.7	5674.4	5715.1	5720.1	5750.7	5737.1	5710.0
45°	6169.3	6199.8	6226.9	6257.4	6289.6	6311.6	6343.9	6337.1	6357.4	6337.1	6321.8
47.5°	6791.3	6813.3	6874.3	6921.8	6974.3	6993.0	7038.7	7018.4	7038.7	7009.9	7004.8
50°	7476.0	7515.0	7567.5	7621.8	7677.7	7708.2	7767.5	7742.1	7769.2	7742.1	7726.9
52.5°	8150.6	8160.7	8276.0	8355.6	8433.6	8469.2	8504.8	8492.9	8494.6	8492.9	8477.7
55°	8791.2	8815.0	8930.2	9038.7	9174.3	9274.3	9335.3	9328.5	9313.2	9298.0	9272.6
57.5°	9513.2	9537.0	9669.2	9803.1	9957.3	10099.7	10223.4	10350.5	10399.6	10413.2	10357.3
60°	10489.5	10487.8	10664.0	10826.7	11047.1	11258.9	11530.1	11806.4	12123.3	12270.8	12075.9
62.5°	11482.7	11523.3	11777.6	12065.7	12519.9	12962.3	13462.3	13953.8	14455.4	14863.9	14430.0
65°	11364.0	11519.9	11897.9	12550.4	13389.4	14386.0	15463.9	16604.5	17635.0	18343.4	17548.6
67.5°	9848.8	10070.8	10455.6	11248.8	12297.9	13735.1	15545.2	17801.1	20423.0	21690.8	20119.7
70°	7138.7	7389.6	7793.0	8567.5	9606.5	10972.5	12938.5	15646.9	19118.0	20395.9	18665.5
72.5°	3552.4	3688.0	3937.2	4430.4	5216.8	6325.2	8108.2	10711.5	13782.6	14955.4	13374.1
75°	1206.7	1269.4	1311.8	1472.8	1722.0	2157.6	3044.0	4682.9	7143.8	8564.1	7042.1
77.5°	696.6	698.3	727.1	755.9	798.3	845.7	964.4	1266.1	2189.8	3110.1	2266.0
80°	450.8	449.1	472.9	494.9	523.7	547.4	554.2	586.4	676.2	801.7	716.9
82.5°	233.9	262.7	315.2	344.1	398.3	408.5	394.9	383.0	405.1	420.3	430.5
85°	128.8	111.9	167.8	216.9	240.7	244.1	244.1	230.5	239.0	233.9	254.2
87.5°	59.3	54.2	66.1	106.8	113.6	96.6	101.7	89.8	64.4	62.7	71.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8	3672.8
2.5°	3655.8	3657.5	3657.5	3662.6	3664.3	3667.7	3671.1	3672.8
5°	3627.0	3632.1	3628.7	3633.8	3633.8	3637.2	3637.2	3638.9
7.5°	3584.6	3589.7	3589.7	3589.7	3588.0	3593.1	3593.1	3593.1
10°	3540.6	3543.9	3542.3	3538.9	3535.5	3540.6	3538.9	3537.2
12.5°	3527.0	3518.5	3511.7	3508.4	3501.6	3503.3	3498.2	3498.2
15°	3535.5	3520.2	3508.4	3503.3	3496.5	3493.1	3489.7	3491.4
17.5°	3557.5	3538.9	3523.6	3515.1	3506.7	3501.6	3494.8	3496.5
20°	3596.5	3574.5	3552.4	3535.5	3520.2	3511.7	3506.7	3505.0
22.5°	3654.1	3621.9	3589.7	3564.3	3543.9	3532.1	3527.0	3523.6
25°	3720.2	3684.6	3647.3	3618.5	3598.2	3582.9	3572.8	3572.8
27.5°	3803.3	3774.4	3740.6	3706.7	3688.0	3672.8	3666.0	3662.6
30°	3942.2	3915.1	3888.0	3855.8	3832.1	3816.8	3805.0	3794.8
32.5°	4120.2	4098.2	4076.1	4052.4	4030.4	4010.0	3991.4	3982.9
35°	4371.0	4354.1	4338.8	4311.7	4303.2	4291.4	4281.2	4272.7
37.5°	4716.8	4710.0	4710.0	4681.2	4674.4	4669.3	4659.2	4660.9
40°	5171.0	5177.8	5169.3	5159.1	5154.1	5140.5	5140.5	5152.4
42.5°	5708.3	5713.4	5732.0	5715.1	5733.7	5716.8	5706.6	5715.1
45°	6332.0	6350.6	6387.9	6371.0	6382.8	6354.0	6318.4	6320.1
47.5°	7032.0	7048.9	7064.2	7052.3	7054.0	7006.5	6959.1	6947.2
50°	7759.1	7765.8	7774.3	7757.4	7760.8	7708.2	7654.0	7655.7
52.5°	8477.7	8509.9	8543.8	8498.0	8487.8	8428.5	8352.3	8321.8
55°	9299.7	9345.4	9306.5	9226.8	9147.1	9067.5	8967.5	8950.5
57.5°	10313.2	10235.2	10113.2	9962.4	9852.2	9740.3	9638.7	9596.3
60°	11723.3	11430.1	11209.8	10986.1	10845.4	10708.1	10574.2	10553.9
62.5°	13716.5	13209.7	12770.8	12308.1	11930.1	11635.2	11399.6	11333.5
65°	16214.7	15016.4	13977.5	13008.0	12165.7	11530.1	11130.1	10953.9
67.5°	17289.2	14923.2	13141.9	11765.7	10664.0	9894.6	9462.4	9247.1
70°	15192.7	12375.8	10438.6	9060.7	8057.4	7237.0	6845.5	6615.0
72.5°	10452.2	7872.6	6225.2	5081.2	4279.5	3593.1	3321.9	3301.6
75°	4693.1	3108.4	2142.3	1650.8	1389.8	1208.4	1152.5	1110.1
77.5°	1313.5	971.2	866.1	810.1	755.9	693.2	669.5	674.6
80°	639.0	603.4	579.6	544.0	494.9	442.4	418.6	428.8
82.5°	423.7	418.6	433.9	408.5	337.3	286.4	240.7	220.3
85°	257.6	261.0	266.1	267.8	227.1	159.3	108.5	122.0
87.5°	101.7	116.9	127.1	132.2	123.7	76.3	61.0	62.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)