

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: P193355

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193355
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-07-LED-U-5MQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36090 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 391
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

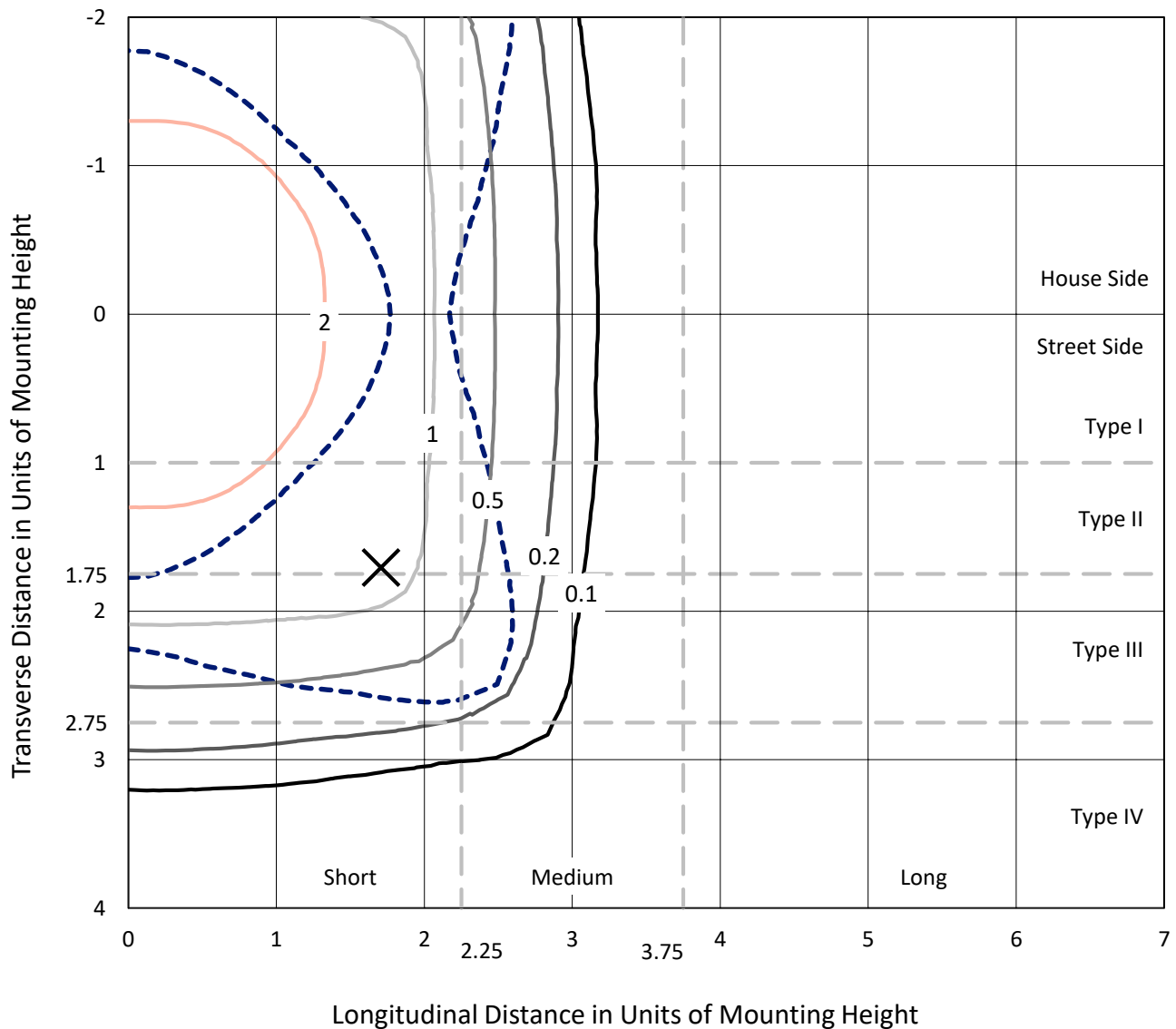


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

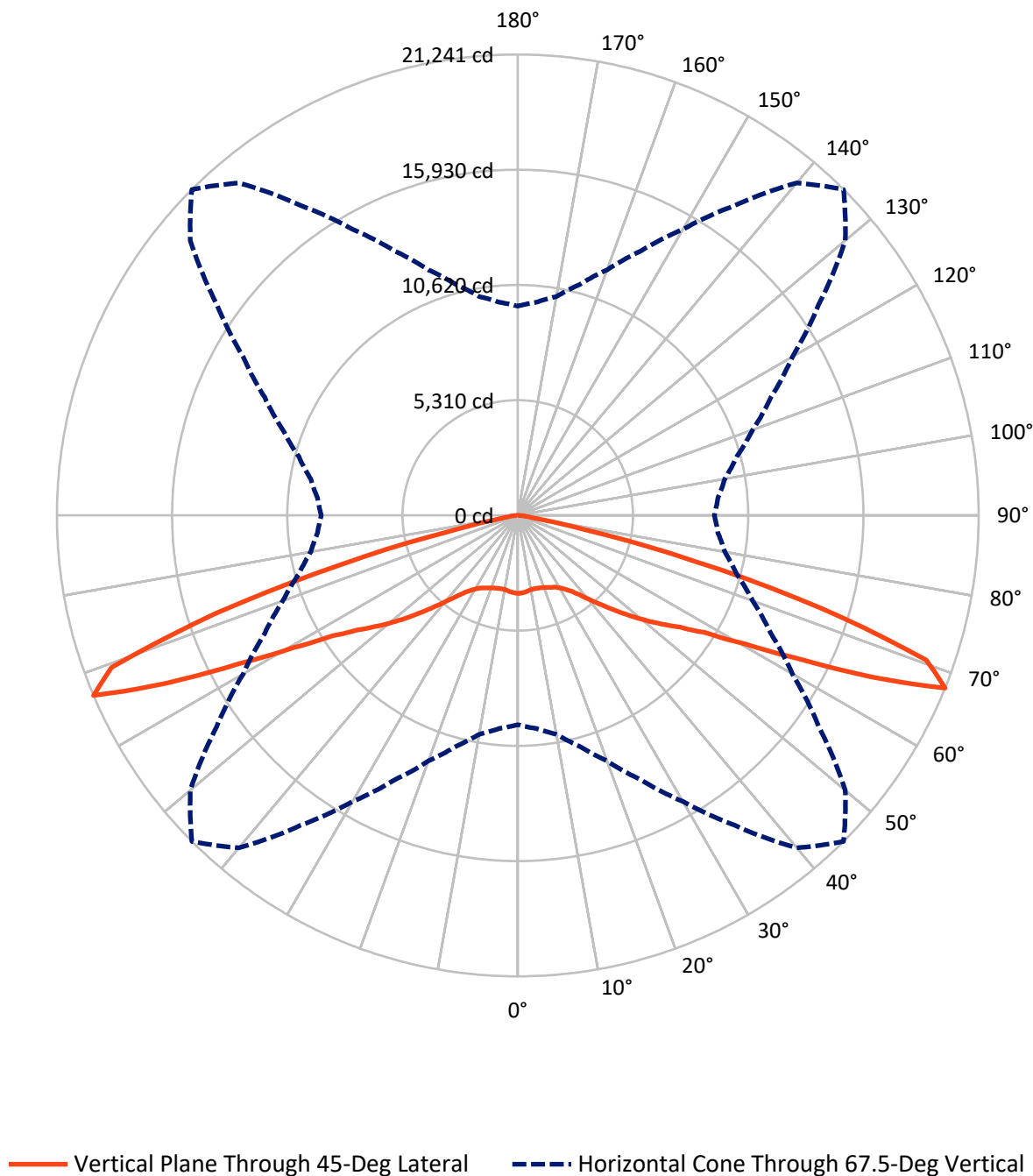


Based on 30 foot mounting height. Maximum calculated value = 4 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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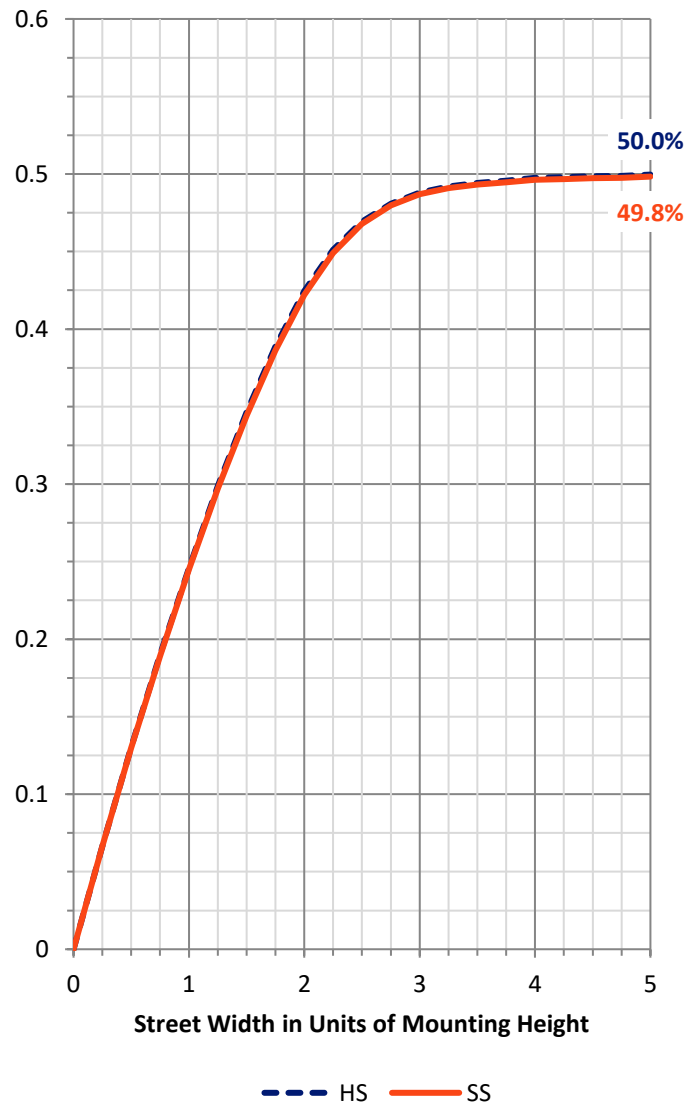
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18045.0	0.0	18045.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18045.0	0.0	18045.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36090.0	0.0	36090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	0.9
10°-20°	976.8	2.7
20°-30°	1660.5	4.6
30°-40°	2714.5	7.5
40°-50°	4845.8	13.4
50°-60°	8170.2	22.6
60°-70°	12679.0	35.1
70°-80°	4454.8	12.3
80°-90°	251.8	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°	36090.0	100.0
0°-180°	36090.0	100.0

Coefficient of Utilization



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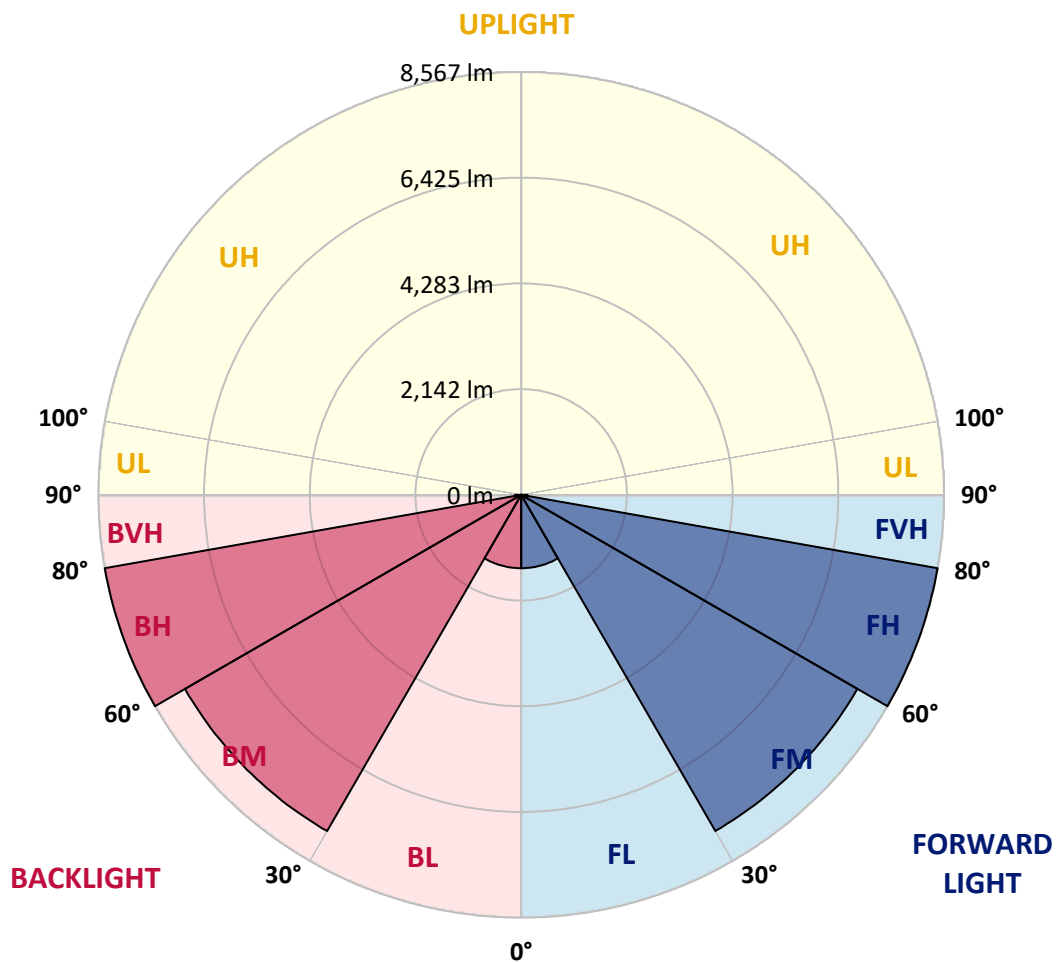
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.0	4.1			
FM	(30°-60°)	7865.3	21.8			
FH	(60°-80°)	8566.9	23.7			G4/12000
FVH	(80°-90°)	125.9	0.3			G2/225
BL	(0°-30°)	1487.0	4.1	B3/2500		
BM	(30°-60°)	7865.3	21.8	B4/8500		
BH	(60°-80°)	8566.9	23.7	B5		G4/12000
BVH	(80°-90°)	125.9	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°	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5
2.5°	3583.2	3586.6	3586.6	3586.6	3584.9	3584.9	3581.6	3584.9	3583.2	3578.3	3579.9
5°	3553.4	3556.7	3556.7	3555.0	3560.0	3558.3	3553.4	3556.7	3555.0	3551.7	3553.4
7.5°	3510.2	3515.2	3515.2	3513.5	3518.5	3516.9	3513.5	3515.2	3515.2	3510.2	3510.2
10°	3462.1	3465.4	3465.4	3463.7	3472.0	3472.0	3470.4	3475.4	3477.0	3472.0	3468.7
12.5°	3417.3	3422.3	3422.3	3428.9	3437.2	3440.5	3448.8	3455.4	3462.1	3460.4	3453.8
15°	3390.7	3394.0	3400.7	3409.0	3422.3	3433.9	3447.1	3462.1	3475.4	3478.7	3468.7
17.5°	3374.1	3379.1	3389.1	3400.7	3418.9	3438.9	3458.8	3478.7	3496.9	3503.6	3492.0
20°	3369.1	3372.5	3382.4	3402.3	3427.2	3457.1	3485.3	3508.6	3533.5	3541.8	3533.5
22.5°	3379.1	3385.7	3397.4	3420.6	3453.8	3492.0	3525.2	3556.7	3588.2	3603.2	3591.5
25°	3423.9	3430.6	3445.5	3475.4	3511.9	3551.7	3589.9	3626.4	3654.6	3669.5	3661.2
27.5°	3506.9	3515.2	3533.5	3563.3	3603.2	3646.3	3687.8	3717.7	3740.9	3745.9	3735.9
30°	3631.4	3649.6	3671.2	3704.4	3750.9	3787.4	3828.9	3855.4	3883.6	3883.6	3875.3
32.5°	3825.6	3843.8	3867.0	3898.6	3935.1	3974.9	4011.4	4034.7	4064.5	4066.2	4046.3
35°	4116.0	4124.3	4144.2	4164.1	4197.3	4232.2	4263.7	4278.6	4303.5	4305.2	4286.9
37.5°	4499.4	4501.0	4514.3	4521.0	4550.8	4589.0	4618.9	4628.8	4652.1	4648.8	4630.5
40°	4945.8	4954.1	4959.1	4969.1	5000.6	5037.1	5068.7	5073.6	5098.5	5093.5	5070.3
42.5°	5462.0	5465.3	5493.5	5508.5	5538.3	5556.6	5596.4	5601.4	5631.3	5618.0	5591.5
45°	6041.2	6071.1	6097.7	6127.5	6159.1	6180.6	6212.2	6205.5	6225.4	6205.5	6190.6
47.5°	6650.3	6671.9	6731.7	6778.1	6829.6	6847.8	6892.6	6872.7	6892.6	6864.4	6859.4
50°	7320.8	7359.0	7410.5	7463.6	7518.3	7548.2	7606.3	7581.4	7608.0	7581.4	7566.5
52.5°	7981.4	7991.3	8104.2	8182.2	8258.6	8293.4	8328.3	8316.6	8318.3	8316.6	8301.7
55°	8608.7	8632.0	8744.8	8851.1	8983.8	9081.8	9141.5	9134.9	9119.9	9105.0	9080.1
57.5°	9315.8	9339.0	9468.5	9599.6	9750.6	9890.0	10011.2	10135.6	10183.8	10197.1	10142.3
60°	10271.7	10270.1	10442.7	10602.0	10817.8	11025.2	11290.8	11561.3	11871.7	12016.1	11825.2
62.5°	11244.3	11284.1	11533.1	11815.2	12260.0	12693.2	13182.8	13664.1	14155.4	14555.4	14130.5
65°	11128.1	11280.8	11650.9	12289.9	13111.5	14087.3	15142.9	16259.9	17268.9	17962.7	17184.3
67.5°	9644.4	9861.8	10238.5	11015.3	12042.6	13450.0	15222.6	17431.6	19999.1	21240.6	19702.0
70°	6990.6	7236.2	7631.2	8389.7	9407.1	10744.8	12670.0	15322.1	18721.2	19972.6	18278.0
72.5°	3478.7	3611.5	3855.4	4338.4	5108.5	6193.9	7939.9	10489.2	13496.5	14645.0	13096.5
75°	1181.7	1243.1	1284.6	1442.3	1686.2	2112.8	2980.8	4585.7	6995.5	8386.3	6896.0
77.5°	682.1	683.8	712.0	740.2	781.7	828.2	944.4	1239.8	2144.3	3045.5	2219.0
80°	441.5	439.8	463.0	484.6	512.8	536.1	542.7	574.2	662.2	785.0	702.0
82.5°	229.0	257.2	308.7	336.9	390.0	400.0	386.7	375.1	396.7	411.6	421.6
85°	126.1	109.5	164.3	212.4	235.7	239.0	239.0	225.7	234.0	229.0	249.0
87.5°	58.1	53.1	64.7	104.6	111.2	94.6	99.6	88.0	63.1	61.4	69.7
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°	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5	3596.5
2.5°	3579.9	3581.6	3581.6	3586.6	3588.2	3591.5	3594.9	3596.5
5°	3551.7	3556.7	3553.4	3558.3	3558.3	3561.7	3561.7	3563.3
7.5°	3510.2	3515.2	3515.2	3515.2	3513.5	3518.5	3518.5	3518.5
10°	3467.1	3470.4	3468.7	3465.4	3462.1	3467.1	3465.4	3463.7
12.5°	3453.8	3445.5	3438.9	3435.5	3428.9	3430.6	3425.6	3425.6
15°	3462.1	3447.1	3435.5	3430.6	3423.9	3420.6	3417.3	3418.9
17.5°	3483.7	3465.4	3450.5	3442.2	3433.9	3428.9	3422.3	3423.9
20°	3521.8	3500.3	3478.7	3462.1	3447.1	3438.9	3433.9	3432.2
22.5°	3578.3	3546.7	3515.2	3490.3	3470.4	3458.8	3453.8	3450.5
25°	3643.0	3608.1	3571.6	3543.4	3523.5	3508.6	3498.6	3498.6
27.5°	3724.3	3696.1	3662.9	3629.7	3611.5	3596.5	3589.9	3586.6
30°	3860.4	3833.9	3807.3	3775.8	3752.5	3737.6	3726.0	3716.0
32.5°	4034.7	4013.1	3991.5	3968.3	3946.7	3926.8	3908.5	3900.2
35°	4280.3	4263.7	4248.8	4222.2	4213.9	4202.3	4192.3	4184.0
37.5°	4618.9	4612.2	4612.2	4584.0	4577.4	4572.4	4562.5	4564.1
40°	5063.7	5070.3	5062.0	5052.1	5047.1	5033.8	5033.8	5045.4
42.5°	5589.8	5594.8	5613.0	5596.4	5614.7	5598.1	5588.1	5596.4
45°	6200.6	6218.8	6255.3	6238.7	6250.3	6222.1	6187.3	6188.9
47.5°	6886.0	6902.6	6917.5	6905.9	6907.6	6861.1	6814.6	6803.0
50°	7598.0	7604.6	7612.9	7596.3	7599.7	7548.2	7495.1	7496.8
52.5°	8301.7	8333.2	8366.4	8321.6	8311.7	8253.6	8178.9	8149.0
55°	9106.6	9151.5	9113.3	9035.3	8957.3	8879.3	8781.4	8764.8
57.5°	10099.1	10022.8	9903.3	9755.6	9647.7	9538.2	9438.6	9397.1
60°	11480.0	11192.9	10977.1	10758.0	10620.3	10485.8	10354.7	10334.8
62.5°	13431.8	12935.5	12505.7	12052.6	11682.5	11393.7	11163.0	11098.3
65°	15878.1	14704.7	13687.4	12738.0	11913.2	11290.8	10899.1	10726.5
67.5°	16930.4	14613.5	12869.1	11521.5	10442.7	9689.2	9266.0	9055.2
70°	14877.3	12119.0	10222.0	8872.6	7890.1	7086.8	6703.4	6477.7
72.5°	10235.2	7709.2	6096.0	4975.7	4190.7	3518.5	3253.0	3233.1
75°	4595.6	3043.8	2097.8	1616.5	1360.9	1183.3	1128.6	1087.1
77.5°	1286.2	951.0	848.1	793.3	740.2	678.8	655.6	660.6
80°	625.7	590.8	567.6	532.8	484.6	433.2	409.9	419.9
82.5°	414.9	409.9	424.9	400.0	330.3	280.5	235.7	215.8
85°	252.3	255.6	260.6	262.2	222.4	156.0	106.2	119.5
87.5°	99.6	114.5	124.5	129.5	121.2	74.7	59.7	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)