

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: P193348

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193348
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-10-LED-U-5MQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 40805 lumens
Efficiency: N/A
Efficacy: 97.4 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): 419
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

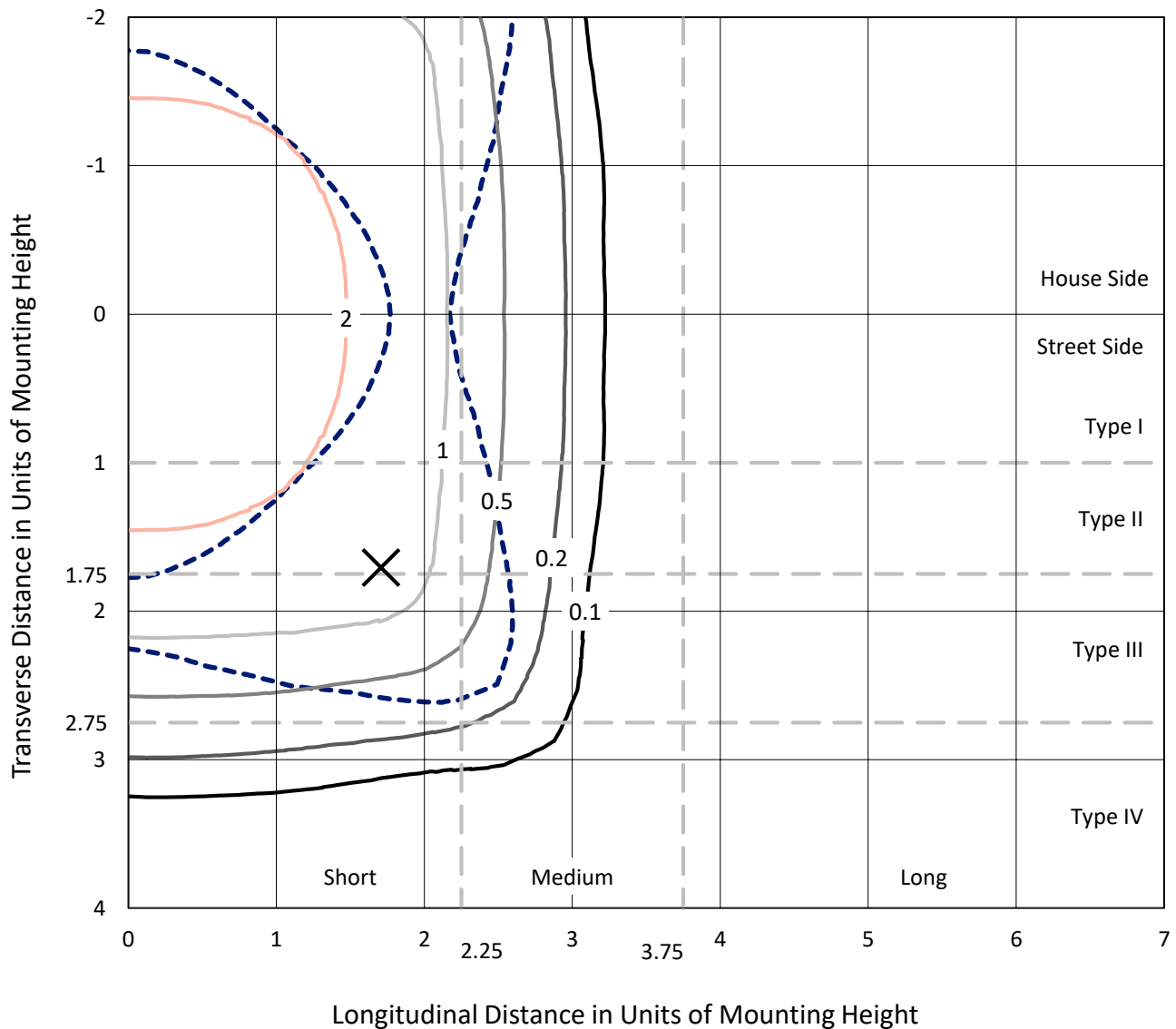


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

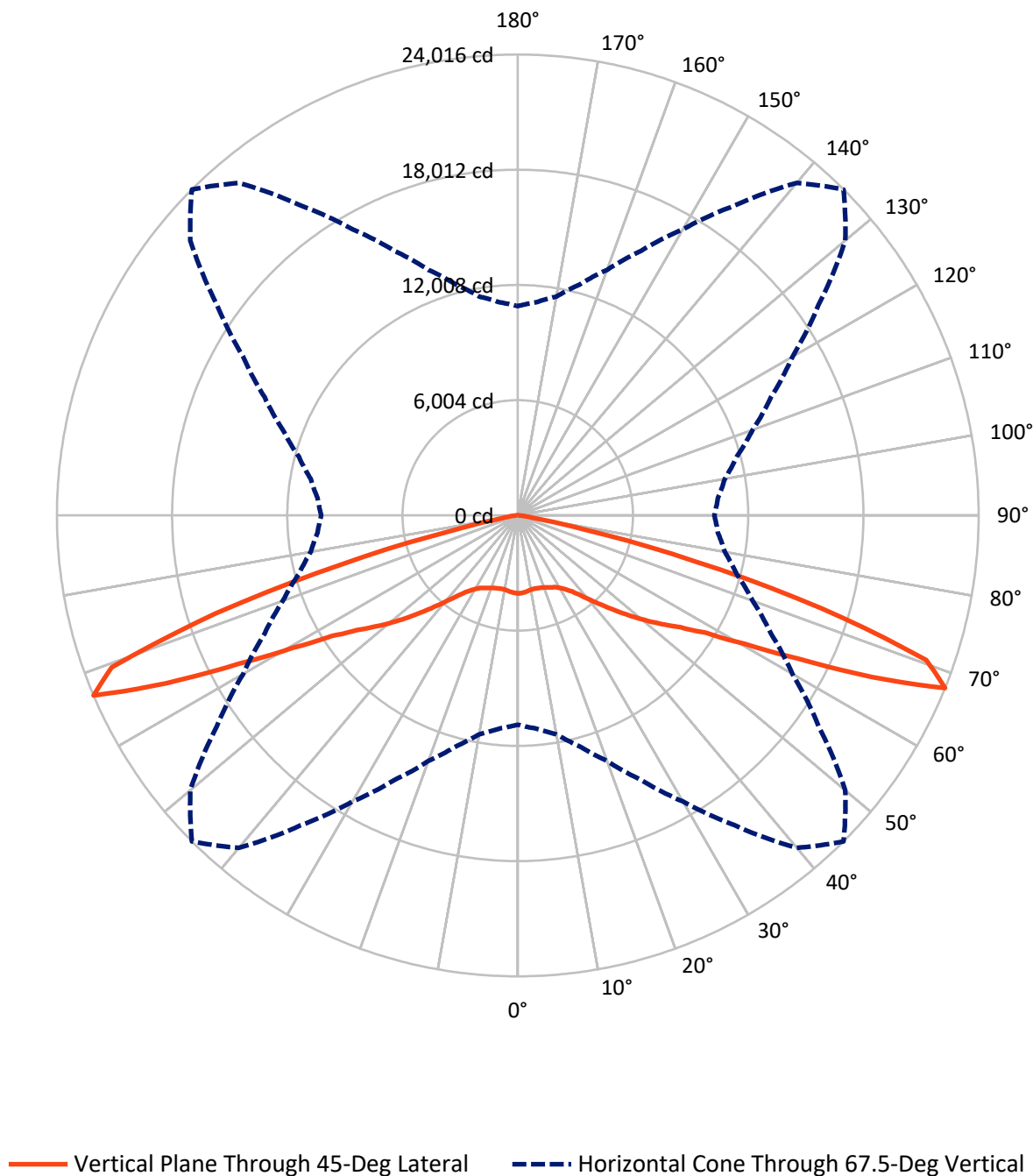


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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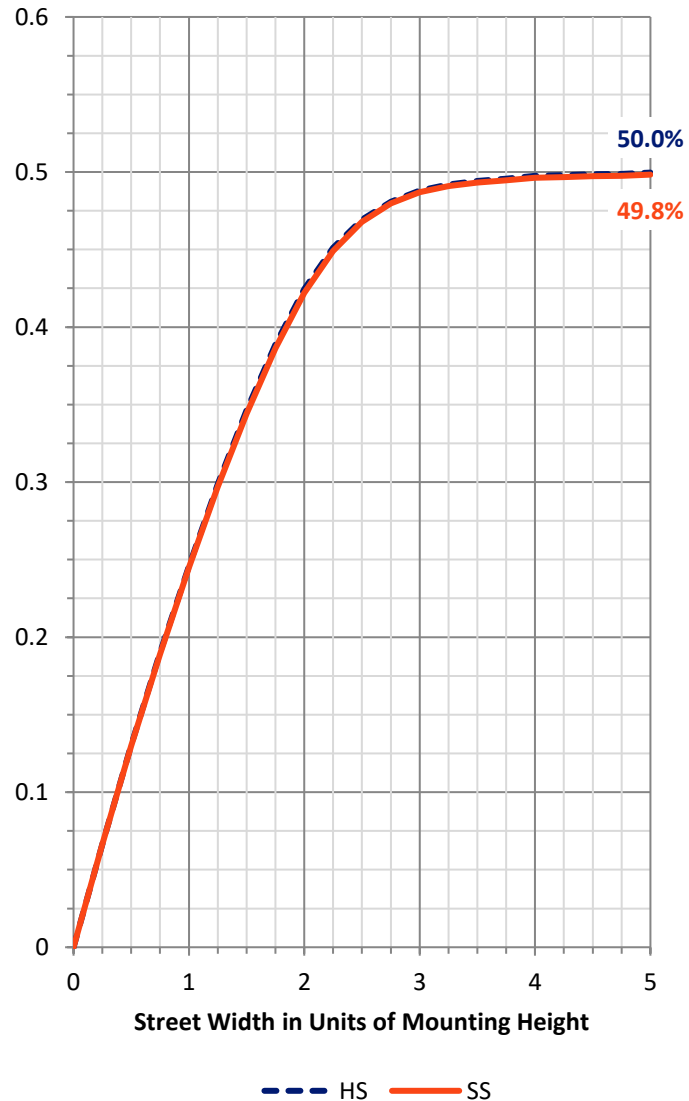
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20402.5	0.0	20402.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20402.5	0.0	20402.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40805.0	0.0	40805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	0.9
10°-20°	1104.4	2.7
20°-30°	1877.5	4.6
30°-40°	3069.1	7.5
40°-50°	5478.9	13.4
50°-60°	9237.6	22.6
60°-70°	14335.4	35.1
70°-80°	5036.8	12.3
80°-90°	284.6	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°	40805.0	100.0
0°-180°	40805.0	100.0

Coefficient of Utilization



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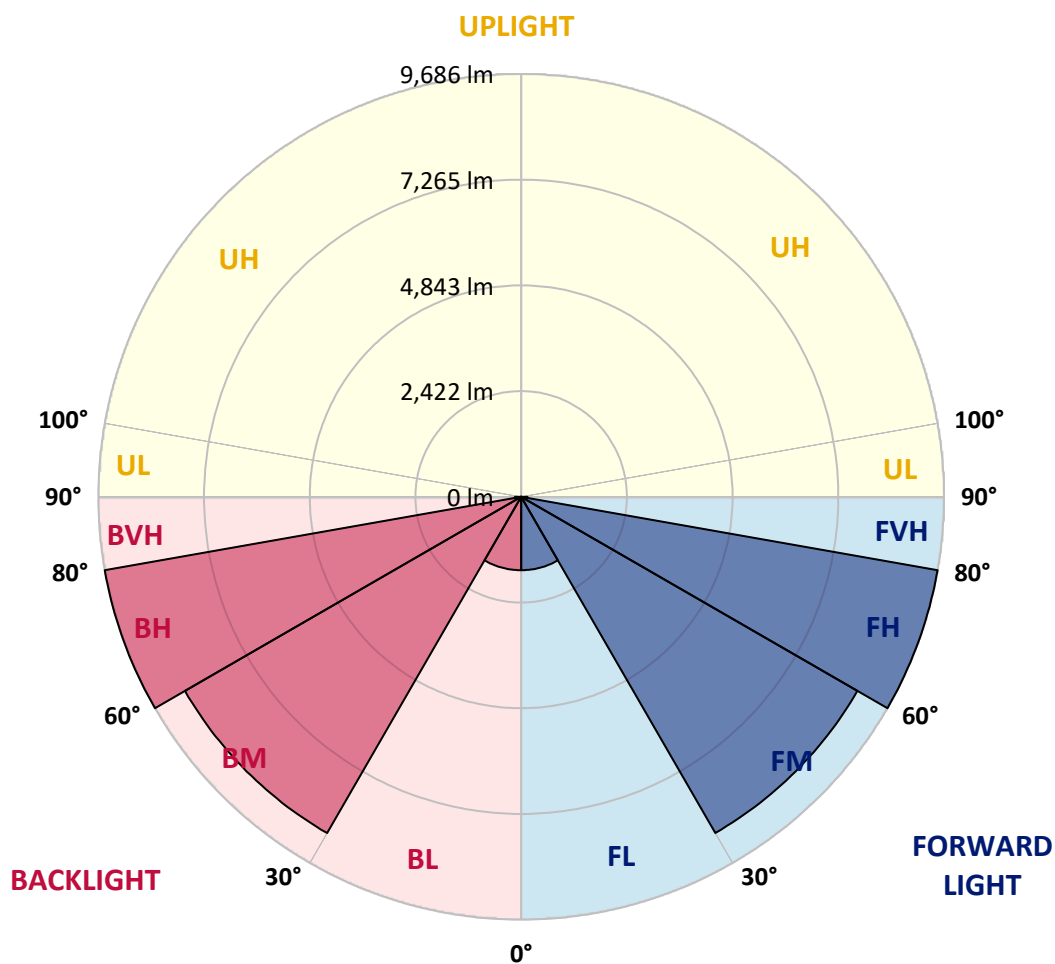
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.2	4.1			
FM	(30°-60°)	8892.8	21.8			
FH	(60°-80°)	9686.1	23.7			G4/12000
FVH	(80°-90°)	142.3	0.3			G2/225
BL	(0°-30°)	1681.2	4.1	B3/2500		
BM	(30°-60°)	8892.8	21.8	B5		
BH	(60°-80°)	9686.1	23.7	B5		G4/12000
BVH	(80°-90°)	142.3	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°	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4
2.5°	4051.4	4055.1	4055.1	4055.1	4053.3	4053.3	4049.5	4053.3	4051.4	4045.7	4047.6
5°	4017.6	4021.4	4021.4	4019.5	4025.1	4023.2	4017.6	4021.4	4019.5	4015.7	4017.6
7.5°	3968.8	3974.4	3974.4	3972.6	3978.2	3976.3	3972.6	3974.4	3974.4	3968.8	3968.8
10°	3914.4	3918.1	3918.1	3916.3	3925.7	3925.7	3923.8	3929.4	3931.3	3925.7	3921.9
12.5°	3863.7	3869.4	3869.4	3876.9	3886.2	3890.0	3899.4	3906.9	3914.4	3912.5	3905.0
15°	3833.7	3837.5	3845.0	3854.3	3869.4	3882.5	3897.5	3914.4	3929.4	3933.2	3921.9
17.5°	3814.9	3820.6	3831.8	3845.0	3865.6	3888.1	3910.6	3933.2	3953.8	3961.3	3948.2
20°	3809.3	3813.1	3824.3	3846.8	3875.0	3908.8	3940.7	3966.9	3995.1	4004.5	3995.1
22.5°	3820.6	3828.1	3841.2	3867.5	3905.0	3948.2	3985.7	4021.4	4057.0	4073.9	4060.8
25°	3871.2	3878.7	3895.6	3929.4	3970.7	4015.7	4058.9	4100.2	4132.1	4149.0	4139.6
27.5°	3965.1	3974.4	3995.1	4028.9	4073.9	4122.7	4169.6	4203.4	4229.6	4235.3	4224.0
30°	4105.8	4126.4	4150.8	4188.4	4240.9	4282.2	4329.1	4359.1	4391.0	4391.0	4381.6
32.5°	4325.3	4346.0	4372.3	4407.9	4449.2	4494.2	4535.5	4561.8	4595.6	4597.4	4574.9
35°	4653.7	4663.1	4685.6	4708.2	4745.7	4785.1	4820.7	4837.6	4865.8	4867.7	4847.0
37.5°	5087.2	5089.1	5104.1	5111.6	5145.4	5188.5	5222.3	5233.6	5259.8	5256.1	5235.5
40°	5592.0	5601.4	5607.0	5618.3	5653.9	5695.2	5730.9	5736.5	5764.6	5759.0	5732.7
42.5°	6175.6	6179.3	6211.2	6228.1	6261.9	6282.5	6327.6	6333.2	6367.0	6352.0	6322.0
45°	6830.5	6864.3	6894.3	6928.1	6963.7	6988.1	7023.8	7016.3	7038.8	7016.3	6999.4
47.5°	7519.2	7543.6	7611.1	7663.7	7721.8	7742.5	7793.1	7770.6	7793.1	7761.2	7755.6
50°	8277.3	8320.4	8378.6	8438.7	8500.6	8534.4	8600.0	8571.9	8601.9	8571.9	8555.0
52.5°	9024.1	9035.4	9163.0	9251.2	9337.5	9376.9	9416.3	9403.2	9405.1	9403.2	9386.3
55°	9733.4	9759.7	9887.3	10007.4	10157.5	10268.2	10335.8	10328.3	10311.4	10294.5	10266.4
57.5°	10532.8	10559.1	10705.5	10853.7	11024.5	11182.1	11319.1	11459.8	11514.2	11529.3	11467.3
60°	11613.7	11611.8	11807.0	11987.1	12231.1	12465.6	12765.9	13071.7	13422.7	13585.9	13370.1
62.5°	12713.3	12758.4	13039.8	13358.9	13861.8	14351.5	14905.1	15449.3	16004.7	16457.0	15976.6
65°	12582.0	12754.6	13173.1	13895.5	14824.4	15927.8	17121.2	18384.1	19525.1	20309.4	19429.4
67.5°	10904.4	11150.2	11576.2	12454.4	13615.9	15207.2	17211.3	19709.0	22611.9	24015.5	22276.0
70°	7903.8	8181.6	8628.2	9485.7	10636.0	12148.5	14325.3	17323.9	21167.0	22581.9	20666.0
72.5°	3933.2	4083.3	4359.1	4905.2	5775.9	7003.1	8977.2	11859.5	15259.8	16558.3	14807.5
75°	1336.1	1405.5	1452.4	1630.7	1906.5	2388.8	3370.2	5184.8	7909.5	9482.0	7796.9
77.5°	771.2	773.1	805.0	836.9	883.8	936.4	1067.7	1401.8	2424.4	3443.4	2508.9
80°	499.2	497.3	523.5	547.9	579.8	606.1	613.6	649.3	748.7	887.6	793.8
82.5°	259.0	290.9	349.0	380.9	441.0	452.2	437.2	424.1	448.5	465.4	476.6
85°	142.6	123.8	185.8	240.2	266.5	270.2	270.2	255.2	264.6	259.0	281.5
87.5°	65.7	60.0	73.2	118.2	125.7	107.0	112.6	99.5	71.3	69.4	78.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4	4066.4
2.5°	4047.6	4049.5	4049.5	4055.1	4057.0	4060.8	4064.5	4066.4
5°	4015.7	4021.4	4017.6	4023.2	4023.2	4027.0	4027.0	4028.9
7.5°	3968.8	3974.4	3974.4	3974.4	3972.6	3978.2	3978.2	3978.2
10°	3920.0	3923.8	3921.9	3918.1	3914.4	3920.0	3918.1	3916.3
12.5°	3905.0	3895.6	3888.1	3884.4	3876.9	3878.7	3873.1	3873.1
15°	3914.4	3897.5	3884.4	3878.7	3871.2	3867.5	3863.7	3865.6
17.5°	3938.8	3918.1	3901.3	3891.9	3882.5	3876.9	3869.4	3871.2
20°	3981.9	3957.6	3933.2	3914.4	3897.5	3888.1	3882.5	3880.6
22.5°	4045.7	4010.1	3974.4	3946.3	3923.8	3910.6	3905.0	3901.3
25°	4118.9	4079.5	4038.2	4006.3	3983.8	3966.9	3955.7	3955.7
27.5°	4210.9	4179.0	4141.5	4103.9	4083.3	4066.4	4058.9	4055.1
30°	4364.8	4334.7	4304.7	4269.1	4242.8	4225.9	4212.8	4201.5
32.5°	4561.8	4537.4	4513.0	4486.7	4462.3	4439.8	4419.2	4409.8
35°	4839.5	4820.7	4803.9	4773.8	4764.5	4751.3	4740.1	4730.7
37.5°	5222.3	5214.8	5214.8	5182.9	5175.4	5169.8	5158.5	5160.4
40°	5725.2	5732.7	5723.3	5712.1	5706.5	5691.4	5691.4	5704.6
42.5°	6320.1	6325.7	6346.3	6327.6	6348.2	6329.5	6318.2	6327.6
45°	7010.6	7031.3	7072.6	7053.8	7066.9	7035.0	6995.6	6997.5
47.5°	7785.6	7804.4	7821.3	7808.1	7810.0	7757.5	7704.9	7691.8
50°	8590.6	8598.2	8607.5	8588.8	8592.5	8534.4	8474.3	8476.2
52.5°	9386.3	9421.9	9459.5	9408.8	9397.5	9331.9	9247.4	9213.6
55°	10296.4	10347.1	10303.9	10215.7	10127.5	10039.3	9928.6	9909.8
57.5°	11418.5	11332.2	11197.1	11030.1	10908.1	10784.3	10671.7	10624.8
60°	12979.8	12655.2	12411.2	12163.5	12007.8	11855.8	11707.5	11685.0
62.5°	15186.6	14625.5	14139.5	13627.2	13208.7	12882.2	12621.4	12548.2
65°	17952.5	16625.9	15475.6	14402.2	13469.6	12765.9	12323.0	12127.9
67.5°	19142.2	16522.6	14550.4	13026.7	11807.0	10955.0	10476.5	10238.2
70°	16821.0	13702.3	11557.4	10031.8	8920.9	8012.7	7579.2	7324.0
72.5°	11572.4	8716.4	6892.4	5625.8	4738.2	3978.2	3678.0	3655.4
75°	5196.0	3441.5	2371.9	1827.7	1538.7	1337.9	1276.0	1229.1
77.5°	1454.3	1075.2	958.9	897.0	836.9	767.5	741.2	746.8
80°	707.4	668.0	641.8	602.4	547.9	489.8	463.5	474.8
82.5°	469.1	463.5	480.4	452.2	373.4	317.1	266.5	243.9
85°	285.2	289.0	294.6	296.5	251.5	176.4	120.1	135.1
87.5°	112.6	129.5	140.7	146.4	137.0	84.4	67.6	69.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)