

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: P192645

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47050.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 448
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



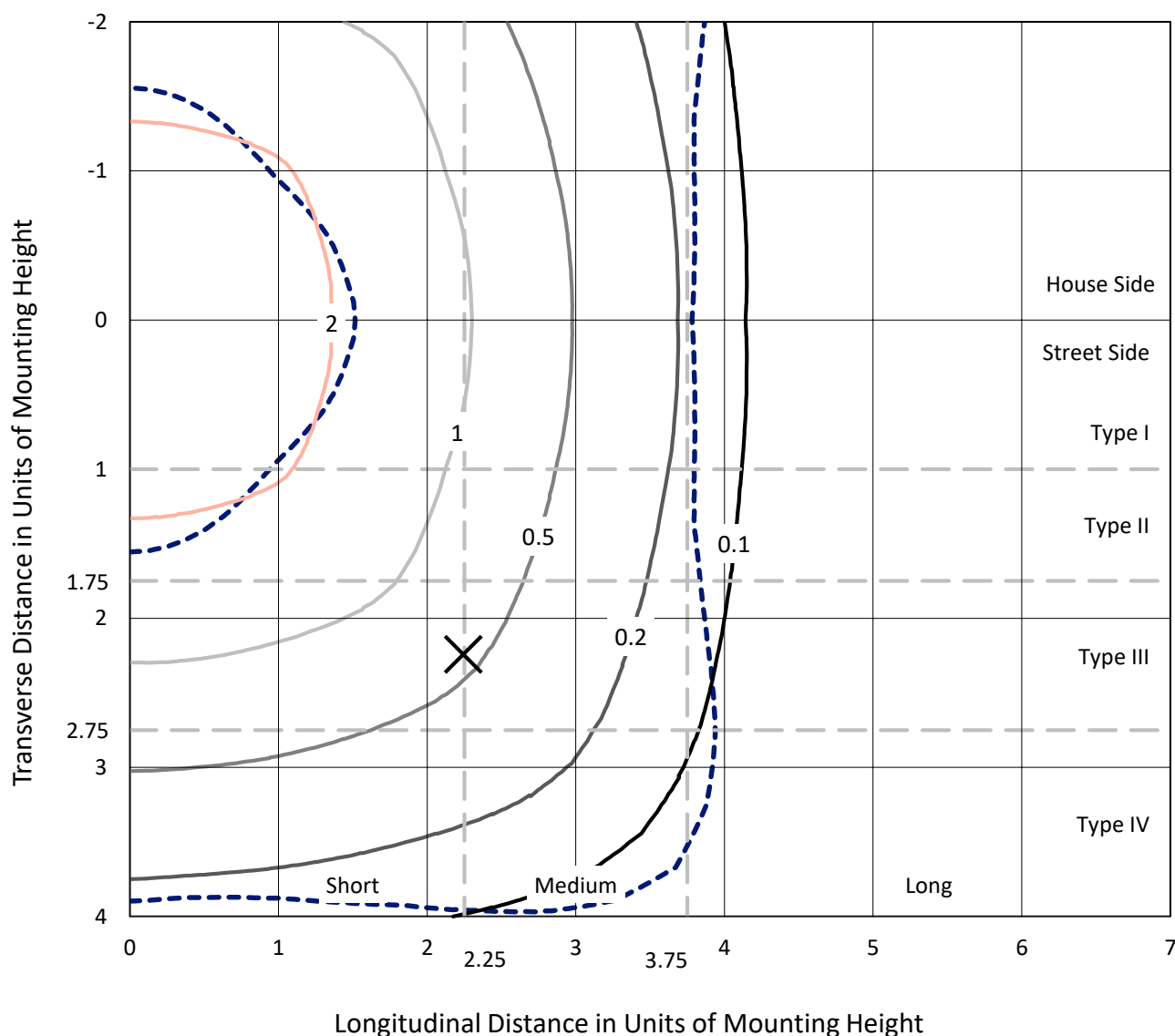
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



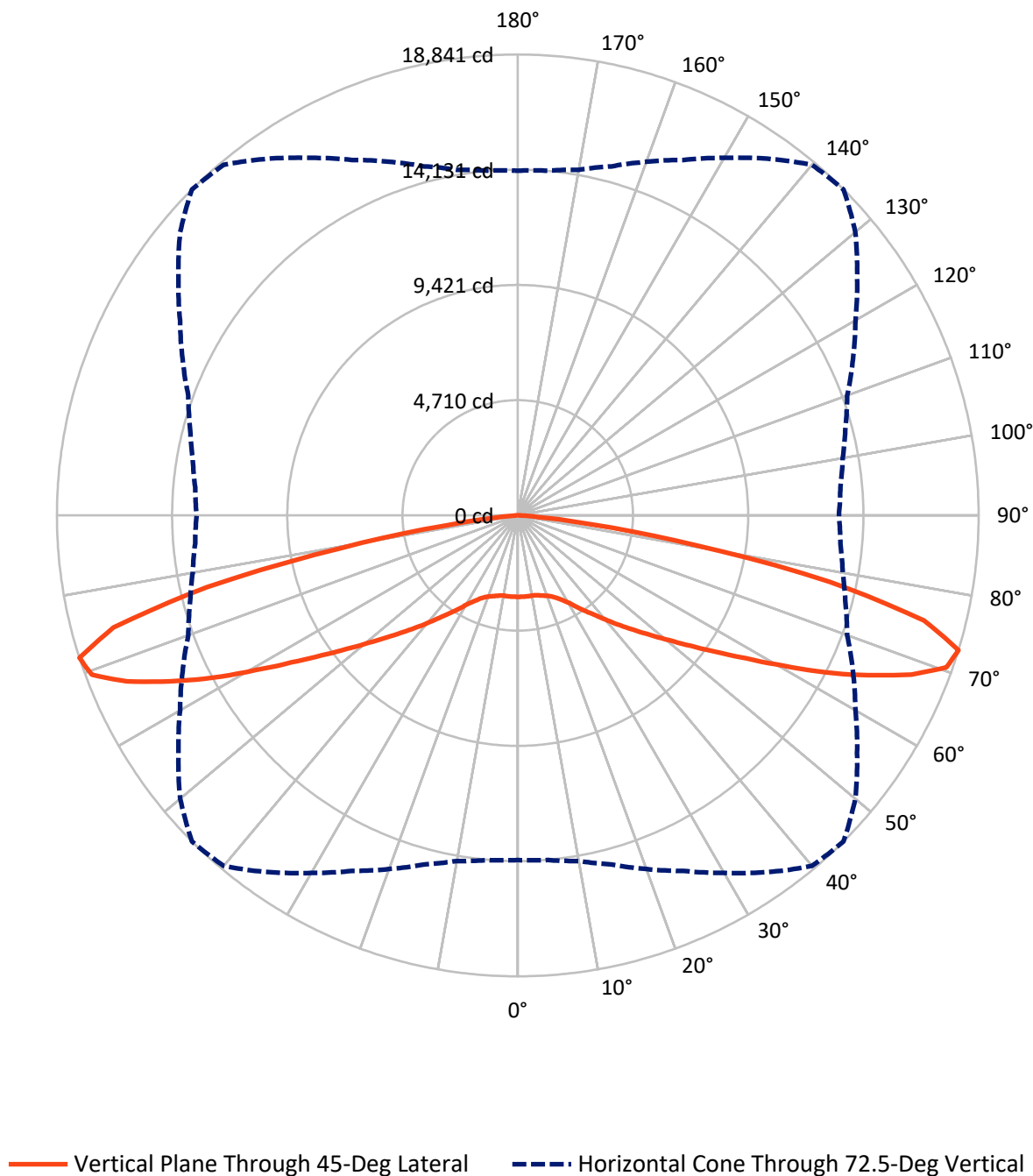
Based on 30 foot mounting height. Maximum calculated value = 3.7 fc

Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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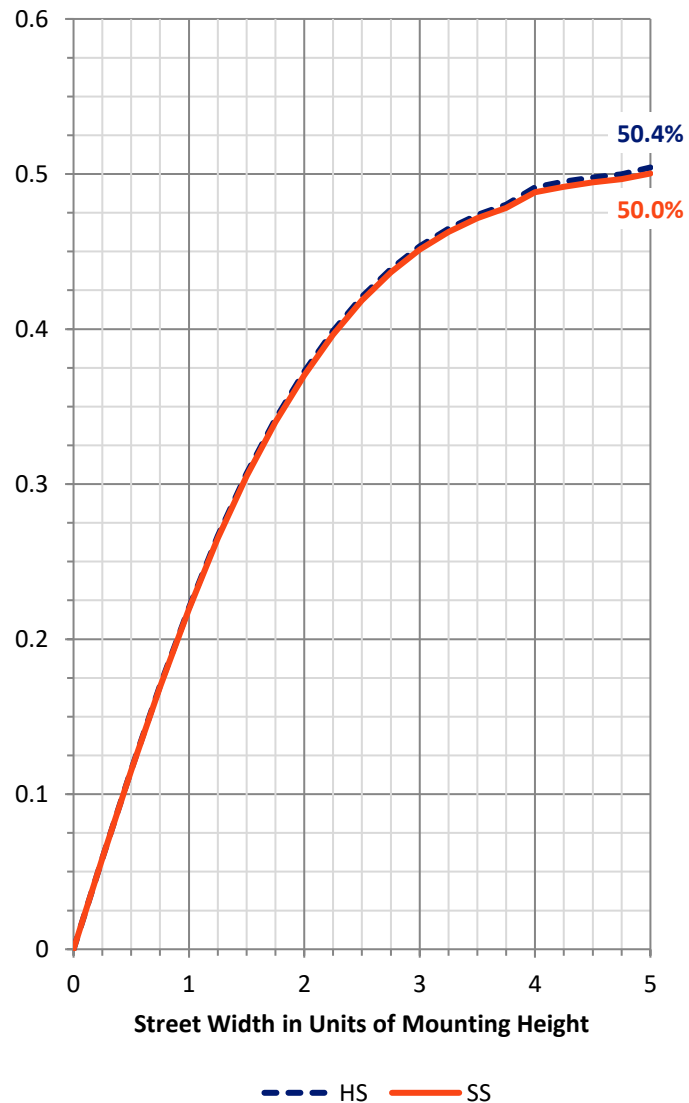
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23525.2	0.0	23525.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23525.2	0.0	23525.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	47050.3	0.0	47050.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.2	0.7
10°-20°	966.3	2.1
20°-30°	1765.8	3.8
30°-40°	3044.5	6.5
40°-50°	5204.6	11.1
50°-60°	8436.0	17.9
60°-70°	13994.9	29.7
70°-80°	12326.3	26.2
80°-90°	993.8	2.1
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°	47050.3	100.0
0°-180°	47050.3	100.0

Coefficient of Utilization



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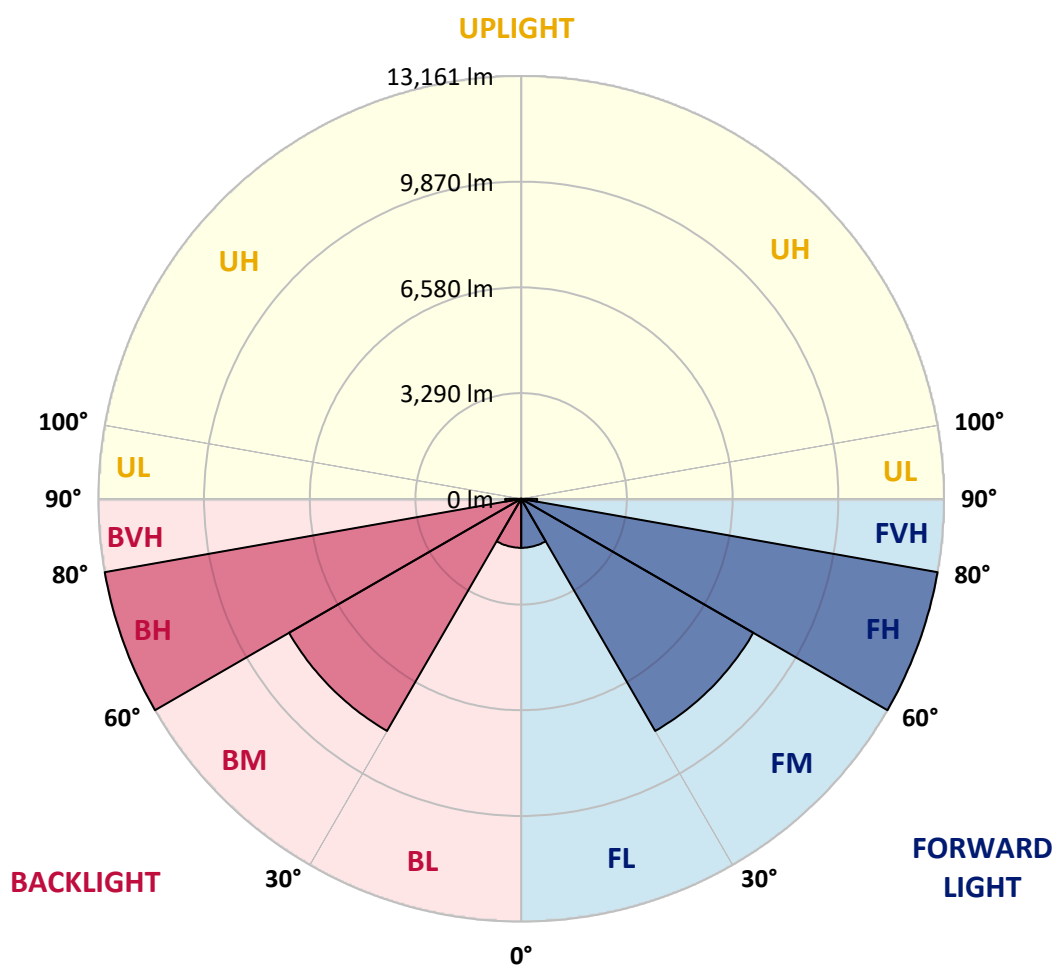
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.1	3.2			
FM	(30°-60°)	8342.5	17.7			
FH	(60°-80°)	13160.6	28.0			G5
FVH	(80°-90°)	496.9	1.1			G3/500
BL	(0°-30°)	1525.1	3.2	B3/2500		
BM	(30°-60°)	8342.5	17.7	B4/8500		
BH	(60°-80°)	13160.6	28.0	B5		G5
BVH	(80°-90°)	496.9	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9
2.5°	3331.9	3334.0	3336.2	3334.0	3334.0	3331.9	3329.7	3331.9	3329.7	3325.5	3327.6
5°	3342.7	3347.0	3347.0	3342.7	3344.9	3342.7	3338.4	3340.5	3336.2	3329.7	3329.7
7.5°	3355.7	3357.7	3357.7	3353.5	3355.7	3351.3	3347.0	3344.9	3340.5	3331.9	3325.5
10°	3375.0	3377.2	3375.0	3370.7	3370.7	3364.3	3353.5	3349.2	3340.5	3327.6	3321.2
12.5°	3396.7	3398.8	3396.7	3392.3	3390.2	3379.4	3370.7	3364.3	3357.7	3347.0	3336.2
15°	3426.8	3431.2	3426.8	3418.1	3411.7	3403.1	3398.8	3400.9	3403.1	3394.4	3383.6
17.5°	3482.9	3485.2	3478.6	3459.2	3450.6	3442.0	3442.0	3446.2	3452.7	3448.4	3437.7
20°	3586.6	3580.1	3564.9	3541.2	3530.3	3515.3	3513.1	3515.3	3515.3	3513.1	3504.5
22.5°	3716.0	3711.6	3692.3	3662.1	3647.0	3638.4	3625.3	3614.7	3612.4	3606.0	3597.4
25°	3871.4	3869.2	3845.5	3819.6	3808.8	3798.0	3787.3	3772.0	3759.2	3744.1	3735.5
27.5°	4069.9	4061.2	4026.7	4013.8	3998.7	3992.3	3977.1	3959.9	3949.0	3929.6	3918.9
30°	4287.9	4287.9	4259.8	4255.5	4255.5	4240.4	4223.1	4193.0	4173.4	4154.0	4147.6
32.5°	4505.9	4508.0	4479.9	4488.6	4495.0	4505.9	4510.1	4499.3	4486.4	4484.2	4471.3
35°	4820.8	4812.3	4784.3	4790.7	4788.5	4786.3	4786.3	4810.1	4814.4	4818.8	4792.8
37.5°	5211.4	5211.4	5183.5	5183.5	5170.4	5157.6	5140.2	5155.4	5179.1	5185.6	5168.3
40°	5658.2	5673.3	5638.8	5636.5	5640.9	5599.9	5580.5	5604.2	5619.3	5645.2	5625.8
42.5°	6184.7	6173.9	6139.4	6135.1	6111.3	6098.5	6081.2	6100.6	6124.3	6141.6	6148.0
45°	6689.7	6681.1	6642.2	6642.2	6618.5	6607.7	6616.3	6648.7	6659.5	6683.2	6707.0
47.5°	7188.1	7177.4	7151.4	7162.3	7164.4	7183.9	7211.8	7242.1	7272.3	7304.7	7315.5
50°	7697.5	7699.6	7671.5	7697.5	7729.9	7783.7	7859.3	7908.9	7971.5	8012.5	8025.4
52.5°	8161.4	8170.1	8200.2	8260.6	8325.4	8431.2	8560.7	8681.5	8785.1	8854.2	8849.8
55°	8718.2	8731.1	8804.4	8908.0	9013.8	9173.5	9365.6	9579.2	9751.8	9851.2	9788.5
57.5°	9430.2	9458.3	9540.3	9680.6	9838.1	10045.3	10308.6	10630.2	10897.7	11031.5	10930.1
60°	10407.8	10425.1	10524.4	10679.8	10869.6	11126.4	11478.2	11909.8	12287.4	12464.4	12347.8
62.5°	11696.2	11728.6	11808.4	11965.8	12160.1	12451.4	12880.9	13420.4	13890.7	14136.8	13873.5
65°	13234.8	13338.4	13405.2	13565.0	13746.2	14054.8	14503.6	15082.0	15586.9	15748.8	15444.6
67.5°	14758.3	14849.0	14965.5	15148.9	15332.4	15679.8	16096.2	16657.3	17211.9	17358.7	16886.0
70°	15425.1	15476.9	15658.2	15908.4	16260.3	16670.2	17151.5	17781.6	18467.9	18588.8	17988.8
72.5°	14089.3	14141.1	14344.0	14769.1	15381.9	16033.7	16873.1	17798.9	18705.1	18841.2	18014.6
75°	10656.0	10571.8	10871.9	11435.1	12261.5	13170.0	14344.0	15671.2	16981.0	17151.5	16165.4
77.5°	5507.1	5496.3	5722.9	6422.0	7408.4	8441.9	9734.6	11234.4	12516.2	13034.1	12231.3
80°	1551.6	1568.9	1676.7	2024.1	2600.4	3347.0	4356.9	5761.8	6810.5	7345.7	6896.9
82.5°	608.6	656.0	697.1	761.7	837.3	947.4	1264.5	1881.8	2524.8	3016.8	2470.9
85°	218.0	233.0	330.2	390.6	397.0	418.7	476.9	556.7	671.2	800.7	658.2
87.5°	82.1	90.6	105.8	174.9	172.6	157.6	192.1	200.7	151.1	138.1	170.5
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°	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9	3331.9
2.5°	3323.2	3325.5	3325.5	3327.6	3329.7	3329.7	3334.0	3334.0
5°	3325.5	3325.5	3321.2	3323.2	3321.2	3321.2	3323.2	3323.2
7.5°	3321.2	3319.0	3314.6	3312.5	3308.2	3308.2	3308.2	3308.2
10°	3314.6	3312.5	3308.2	3305.9	3303.9	3303.9	3303.9	3303.9
12.5°	3331.9	3325.5	3321.2	3319.0	3319.0	3319.0	3319.0	3319.0
15°	3377.2	3362.1	3351.3	3351.3	3353.5	3357.7	3357.7	3362.1
17.5°	3433.4	3416.1	3405.3	3396.7	3400.9	3407.5	3411.7	3416.1
20°	3500.2	3491.6	3476.5	3467.9	3467.9	3476.5	3480.8	3482.9
22.5°	3593.0	3586.6	3580.1	3569.3	3569.3	3573.6	3582.2	3582.2
25°	3731.1	3726.9	3722.5	3713.8	3711.6	3711.6	3716.0	3720.3
27.5°	3903.8	3905.9	3901.6	3899.5	3893.0	3890.8	3897.3	3895.1
30°	4134.7	4145.4	4156.2	4147.6	4136.8	4130.3	4123.9	4115.2
32.5°	4447.5	4434.7	4426.0	4410.9	4391.4	4374.2	4361.2	4346.2
35°	4743.2	4721.6	4713.0	4725.9	4723.9	4713.0	4697.9	4684.9
37.5°	5105.6	5101.5	5105.6	5129.5	5125.2	5135.9	5105.6	5103.6
40°	5563.3	5567.6	5597.8	5625.8	5640.9	5656.1	5638.8	5621.5
42.5°	6094.1	6092.0	6102.6	6141.6	6167.4	6184.7	6148.0	6143.7
45°	6655.2	6640.0	6648.7	6681.1	6707.0	6726.3	6685.3	6685.3
47.5°	7272.3	7246.4	7218.4	7255.1	7270.2	7283.1	7250.8	7239.9
50°	7960.7	7906.8	7846.4	7861.4	7861.4	7857.2	7816.2	7814.0
52.5°	8750.6	8651.2	8541.3	8500.3	8476.5	8450.5	8379.4	8344.7
55°	9659.1	9510.2	9337.6	9231.8	9175.7	9104.5	8985.7	8953.4
57.5°	10720.7	10487.7	10189.8	10060.4	9935.3	9818.7	9687.2	9650.5
60°	11978.8	11635.8	11240.8	11001.4	10865.3	10753.1	10617.2	10610.7
62.5°	13381.5	12839.8	12393.2	12177.4	12078.1	11978.8	11849.3	11866.6
65°	14807.9	14242.6	13823.9	13649.1	13556.4	13474.3	13344.8	13364.3
67.5°	16214.9	15694.9	15235.2	15056.2	14952.5	14849.0	14732.4	14751.8
70°	17224.8	16579.6	16061.6	15664.6	15416.5	15135.9	14954.7	14909.4
72.5°	16935.7	15940.8	15118.6	14331.0	13869.3	13493.7	13239.1	13129.0
75°	14656.9	13297.4	12240.0	11273.2	10729.4	10287.0	9965.4	9764.8
77.5°	10884.7	9357.0	8107.5	6993.9	6113.5	5522.2	5105.6	4836.1
80°	5958.1	4531.7	3312.5	2328.5	1711.2	1422.1	1255.9	1176.0
82.5°	1855.9	1197.7	882.6	761.7	707.8	677.6	627.9	548.2
85°	591.3	517.9	481.2	459.7	438.0	382.0	263.4	239.5
87.5°	228.8	235.2	233.0	220.1	224.4	161.8	129.5	114.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)