

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: P193337

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193337
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30055 lumens
Efficiency: N/A
Efficacy: 103.6 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 - G3

Input Watts (W): 290
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



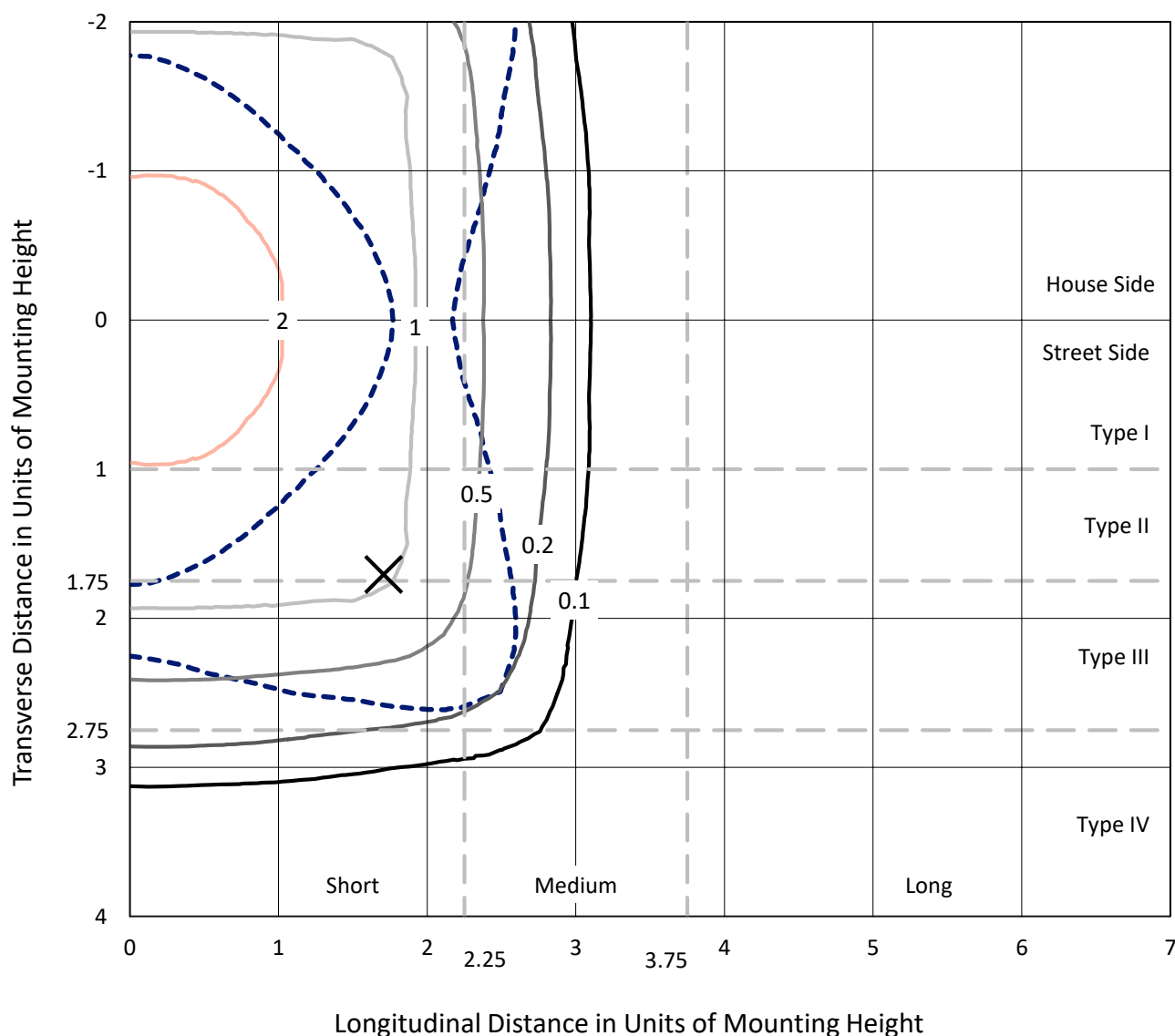
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

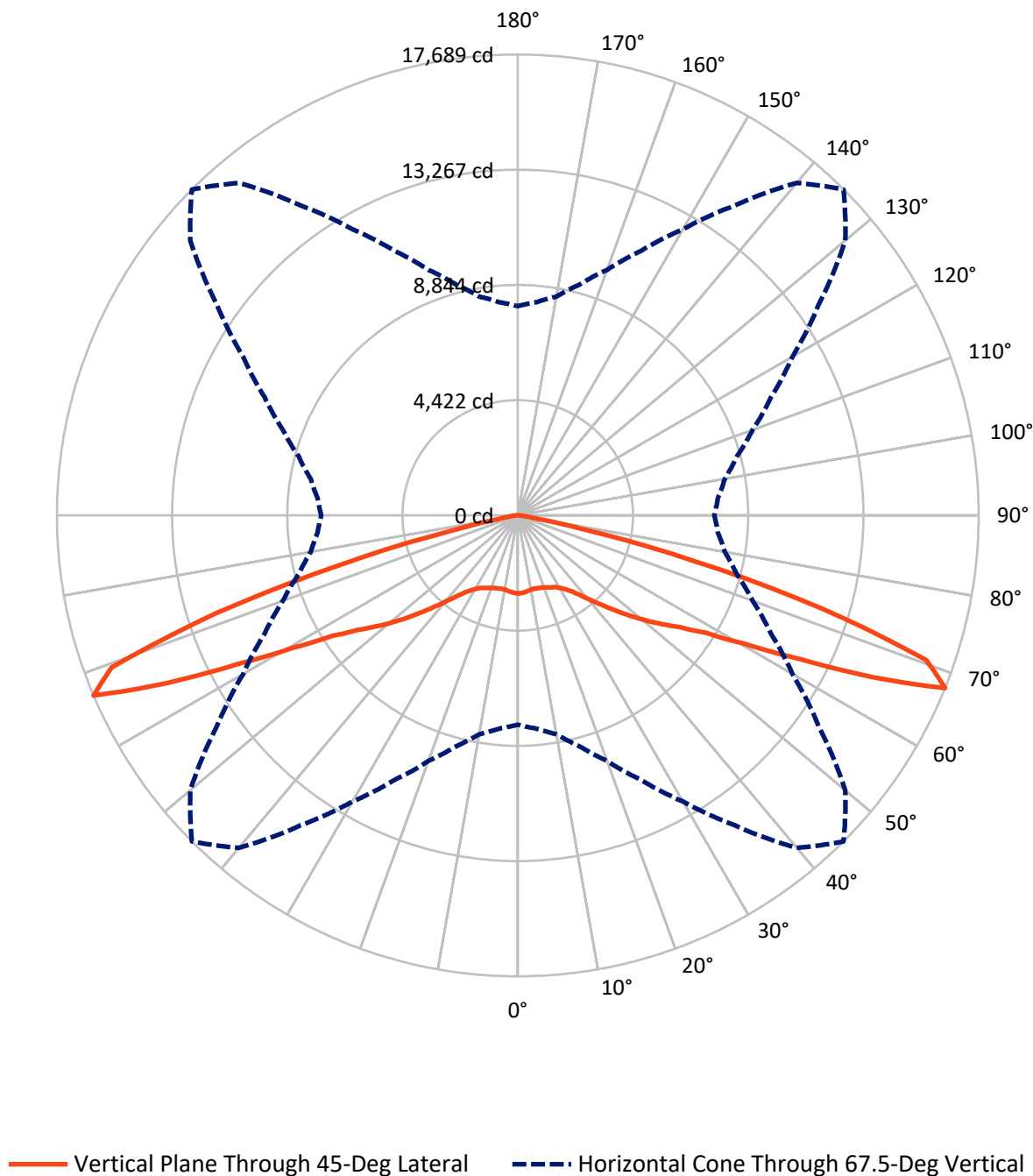


Based on 30 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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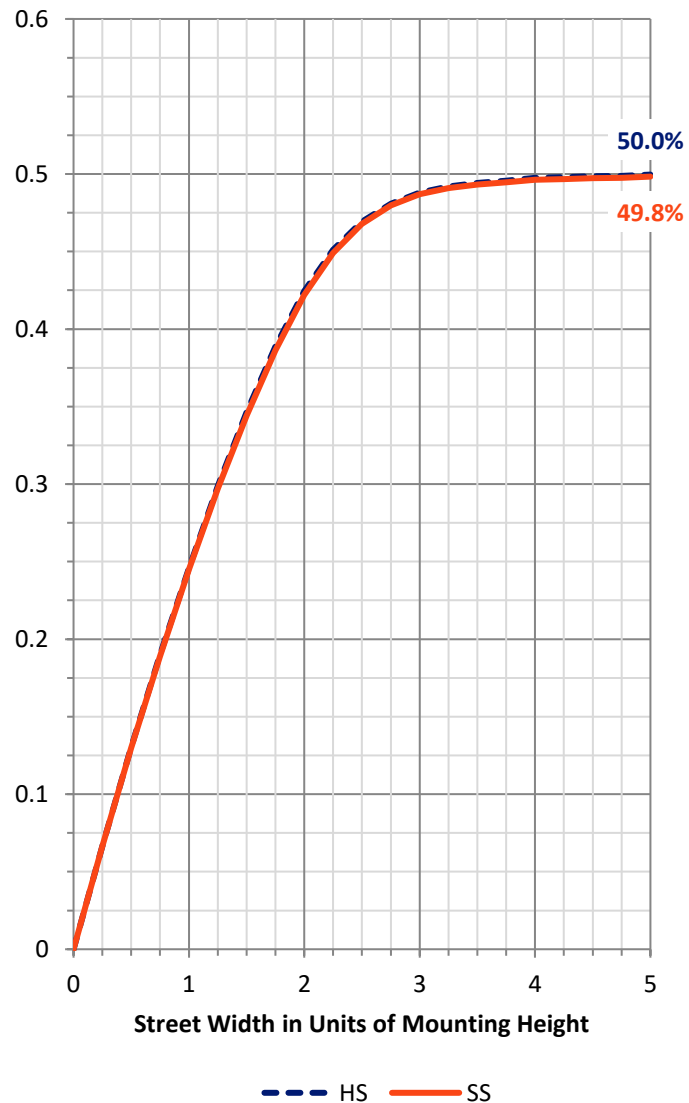
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15027.5	0.0	15027.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15027.5	0.0	15027.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30055.0	0.0	30055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	0.9
10°-20°	813.5	2.7
20°-30°	1382.9	4.6
30°-40°	2260.6	7.5
40°-50°	4035.5	13.4
50°-60°	6804.0	22.6
60°-70°	10558.8	35.1
70°-80°	3709.9	12.3
80°-90°	209.7	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°	30055.0	100.0
0°-180°	30055.0	100.0

Coefficient of Utilization



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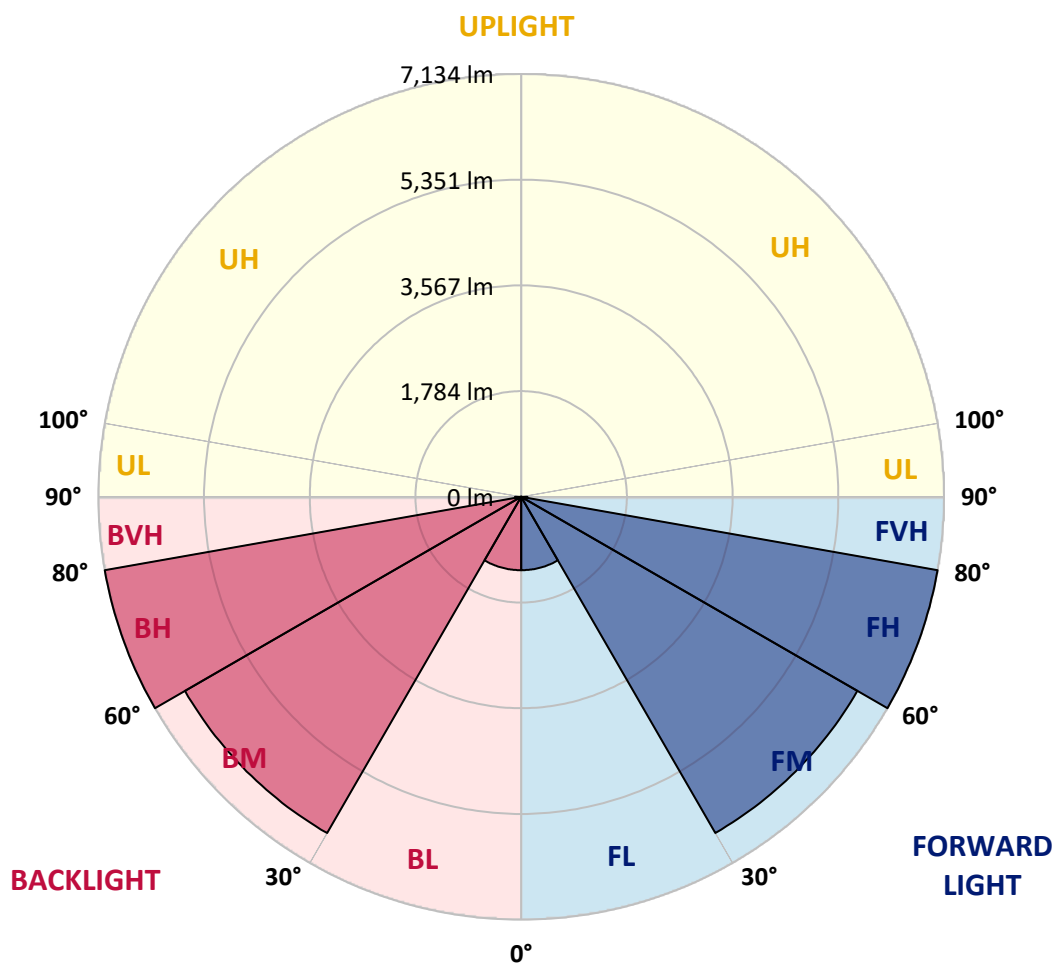
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.3	4.1			
FM	(30°-60°)	6550.0	21.8			
FH	(60°-80°)	7134.3	23.7			G3/7500
FVH	(80°-90°)	104.8	0.3			G2/225
BL	(0°-30°)	1238.3	4.1	B3/2500		
BM	(30°-60°)	6550.0	21.8	B4/8500		
BH	(60°-80°)	7134.3	23.7	B5		G3/7500
BVH	(80°-90°)	104.8	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	2984.1	2986.8	2986.8	2986.8	2985.4	2985.4	2982.7	2985.4	2984.1	2979.9	2981.3
5°	2959.2	2961.9	2961.9	2960.6	2964.7	2963.3	2959.2	2961.9	2960.6	2957.8	2959.2
7.5°	2923.2	2927.4	2927.4	2926.0	2930.1	2928.8	2926.0	2927.4	2927.4	2923.2	2923.2
10°	2883.2	2885.9	2885.9	2884.5	2891.4	2891.4	2890.1	2894.2	2895.6	2891.4	2888.7
12.5°	2845.8	2850.0	2850.0	2855.5	2862.4	2865.2	2872.1	2877.6	2883.2	2881.8	2876.2
15°	2823.7	2826.5	2832.0	2838.9	2850.0	2859.7	2870.7	2883.2	2894.2	2897.0	2888.7
17.5°	2809.9	2814.0	2822.3	2832.0	2847.2	2863.8	2880.4	2897.0	2912.2	2917.7	2908.0
20°	2805.8	2808.5	2816.8	2833.4	2854.1	2879.0	2902.5	2921.9	2942.6	2949.5	2942.6
22.5°	2814.0	2819.6	2829.3	2848.6	2876.2	2908.0	2935.7	2961.9	2988.2	3000.6	2991.0
25°	2851.4	2856.9	2869.3	2894.2	2924.6	2957.8	2989.6	3020.0	3043.5	3055.9	3049.0
27.5°	2920.5	2927.4	2942.6	2967.5	3000.6	3036.6	3071.1	3096.0	3115.4	3119.5	3111.2
30°	3024.1	3039.3	3057.3	3084.9	3123.6	3154.1	3188.6	3210.7	3234.2	3234.2	3227.3
32.5°	3185.8	3201.0	3220.4	3246.7	3277.1	3310.2	3340.6	3360.0	3384.9	3386.3	3369.7
35°	3427.7	3434.6	3451.2	3467.8	3495.4	3524.5	3550.7	3563.2	3583.9	3585.3	3570.1
37.5°	3747.0	3748.4	3759.4	3765.0	3789.8	3821.6	3846.5	3854.8	3874.2	3871.4	3856.2
40°	4118.8	4125.7	4129.8	4138.1	4164.4	4194.8	4221.1	4225.2	4245.9	4241.8	4222.5
42.5°	4548.6	4551.4	4574.9	4587.3	4612.2	4627.4	4660.6	4664.7	4689.6	4678.6	4656.4
45°	5031.0	5055.9	5078.0	5102.9	5129.1	5147.1	5173.4	5167.8	5184.4	5167.8	5155.4
47.5°	5538.3	5556.2	5606.0	5644.7	5687.5	5702.7	5740.0	5723.5	5740.0	5716.6	5712.4
50°	6096.6	6128.4	6171.3	6215.5	6261.1	6286.0	6334.4	6313.6	6335.8	6313.6	6301.2
52.5°	6646.7	6655.0	6749.0	6814.0	6877.6	6906.6	6935.6	6925.9	6927.3	6925.9	6913.5
55°	7169.2	7188.5	7282.5	7371.0	7481.5	7563.1	7612.9	7607.3	7594.9	7582.4	7561.7
57.5°	7758.0	7777.3	7885.1	7994.3	8120.1	8236.2	8337.1	8440.8	8480.8	8491.9	8446.3
60°	8554.1	8552.7	8696.5	8829.1	9008.8	9181.6	9402.7	9628.0	9886.5	10006.7	9847.8
62.5°	9364.0	9397.2	9604.5	9839.5	10209.9	10570.6	10978.4	11379.2	11788.3	12121.4	11767.6
65°	9267.3	9394.4	9702.7	10234.8	10918.9	11731.6	12610.7	13540.9	14381.2	14959.0	14310.7
67.5°	8031.6	8212.7	8526.5	9173.3	10028.8	11200.9	12677.0	14516.7	16654.8	17688.7	16407.4
70°	5821.6	6026.2	6355.1	6986.7	7834.0	8948.0	10551.3	12760.0	15590.6	16632.7	15221.6
72.5°	2897.0	3007.5	3210.7	3612.9	4254.2	5158.2	6612.2	8735.2	11239.6	12196.0	10906.5
75°	984.1	1035.2	1069.8	1201.1	1404.3	1759.5	2482.3	3818.9	5825.7	6984.0	5742.8
77.5°	568.1	569.4	592.9	616.4	651.0	689.7	786.4	1032.5	1785.7	2536.2	1847.9
80°	367.7	366.3	385.6	403.6	427.1	446.4	452.0	478.2	551.5	653.8	584.6
82.5°	190.7	214.2	257.1	280.6	324.8	333.1	322.0	312.4	330.3	342.8	351.1
85°	105.0	91.2	136.8	176.9	196.3	199.0	199.0	188.0	194.9	190.7	207.3
87.5°	48.4	44.2	53.9	87.1	92.6	78.8	82.9	73.3	52.5	51.1	58.1
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°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	2981.3	2982.7	2982.7	2986.8	2988.2	2991.0	2993.7	2995.1
5°	2957.8	2961.9	2959.2	2963.3	2963.3	2966.1	2966.1	2967.5
7.5°	2923.2	2927.4	2927.4	2927.4	2926.0	2930.1	2930.1	2930.1
10°	2887.3	2890.1	2888.7	2885.9	2883.2	2887.3	2885.9	2884.5
12.5°	2876.2	2869.3	2863.8	2861.0	2855.5	2856.9	2852.7	2852.7
15°	2883.2	2870.7	2861.0	2856.9	2851.4	2848.6	2845.8	2847.2
17.5°	2901.1	2885.9	2873.5	2866.6	2859.7	2855.5	2850.0	2851.4
20°	2932.9	2914.9	2897.0	2883.2	2870.7	2863.8	2859.7	2858.3
22.5°	2979.9	2953.6	2927.4	2906.7	2890.1	2880.4	2876.2	2873.5
25°	3033.8	3004.8	2974.4	2950.9	2934.3	2921.9	2913.6	2913.6
27.5°	3101.5	3078.0	3050.4	3022.8	3007.5	2995.1	2989.6	2986.8
30°	3214.9	3192.8	3170.6	3144.4	3125.0	3112.6	3102.9	3094.6
32.5°	3360.0	3342.0	3324.1	3304.7	3286.7	3270.2	3255.0	3248.0
35°	3564.6	3550.7	3538.3	3516.2	3509.3	3499.6	3491.3	3484.4
37.5°	3846.5	3841.0	3841.0	3817.5	3812.0	3807.8	3799.5	3800.9
40°	4216.9	4222.5	4215.5	4207.2	4203.1	4192.0	4192.0	4201.7
42.5°	4655.1	4659.2	4674.4	4660.6	4675.8	4662.0	4653.7	4660.6
45°	5163.7	5178.9	5209.3	5195.5	5205.2	5181.7	5152.6	5154.0
47.5°	5734.5	5748.3	5760.8	5751.1	5752.5	5713.8	5675.1	5665.4
50°	6327.5	6333.0	6339.9	6326.1	6328.8	6286.0	6241.8	6243.1
52.5°	6913.5	6939.7	6967.4	6930.1	6921.8	6873.4	6811.2	6786.3
55°	7583.8	7621.1	7589.4	7524.4	7459.4	7394.5	7312.9	7299.1
57.5°	8410.4	8346.8	8247.3	8124.2	8034.4	7943.2	7860.3	7825.7
60°	9560.3	9321.2	9141.5	8959.1	8844.3	8732.4	8623.2	8606.6
62.5°	11185.7	10772.4	10414.5	10037.1	9728.9	9488.4	9296.3	9242.4
65°	13223.0	12245.8	11398.5	10608.0	9921.0	9402.7	9076.5	8932.8
67.5°	14099.3	12169.8	10717.1	9594.8	8696.5	8069.0	7716.5	7541.0
70°	12389.5	10092.4	8512.6	7388.9	6570.7	5901.8	5582.5	5394.5
72.5°	8523.7	6420.1	5076.6	4143.7	3489.9	2930.1	2709.0	2692.4
75°	3827.2	2534.9	1747.0	1346.2	1133.4	985.5	939.9	905.3
77.5°	1071.2	792.0	706.3	660.7	616.4	565.3	545.9	550.1
80°	521.1	492.0	472.7	443.7	403.6	360.7	341.4	349.7
82.5°	345.5	341.4	353.8	333.1	275.0	233.6	196.3	179.7
85°	210.1	212.9	217.0	218.4	185.2	129.9	88.5	99.5
87.5°	82.9	95.4	103.7	107.8	100.9	62.2	49.8	51.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)