

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: P193338

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193338
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-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 33276 lumens
Efficiency: N/A
Efficacy: 103.0 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): 323
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

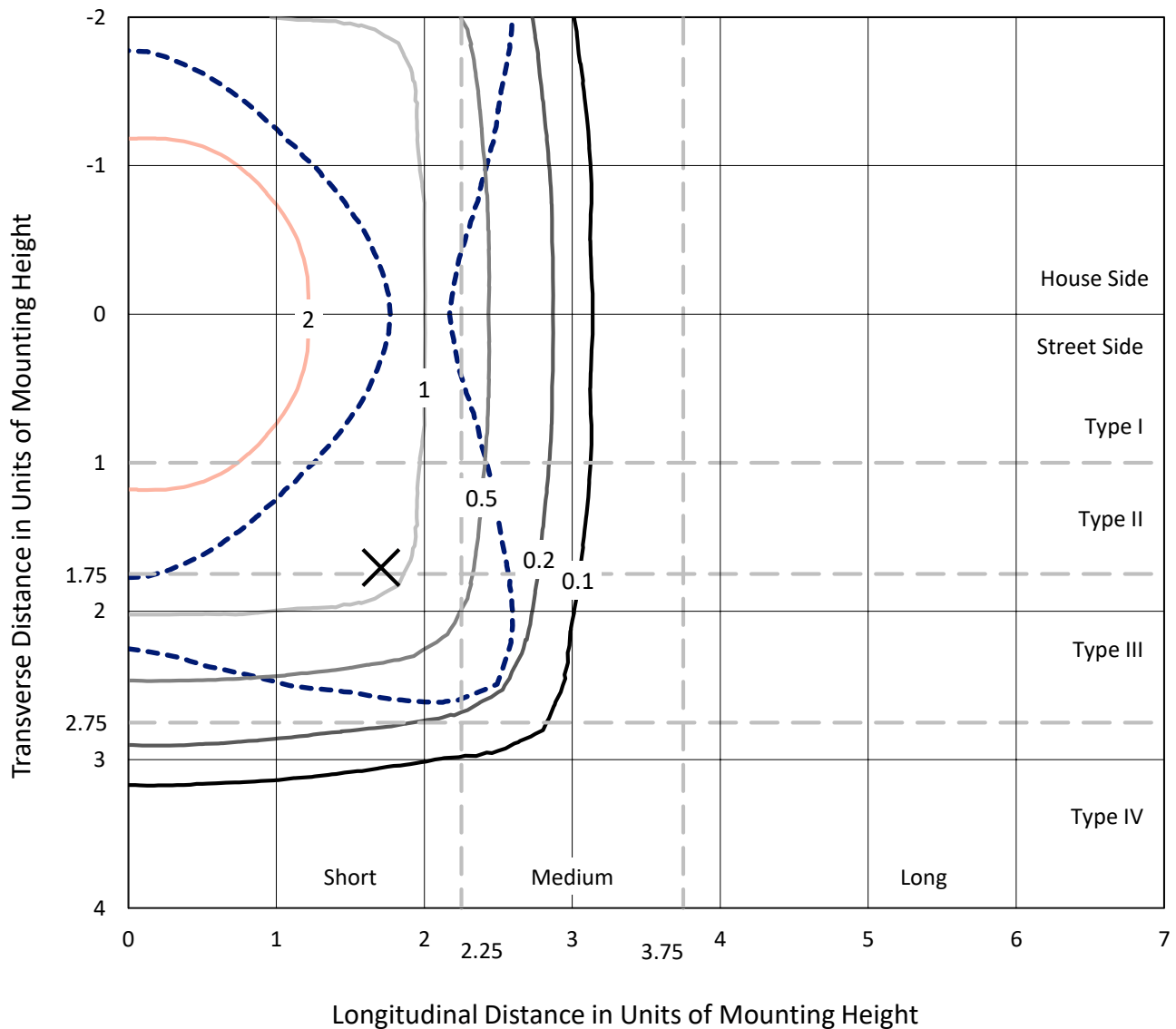


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

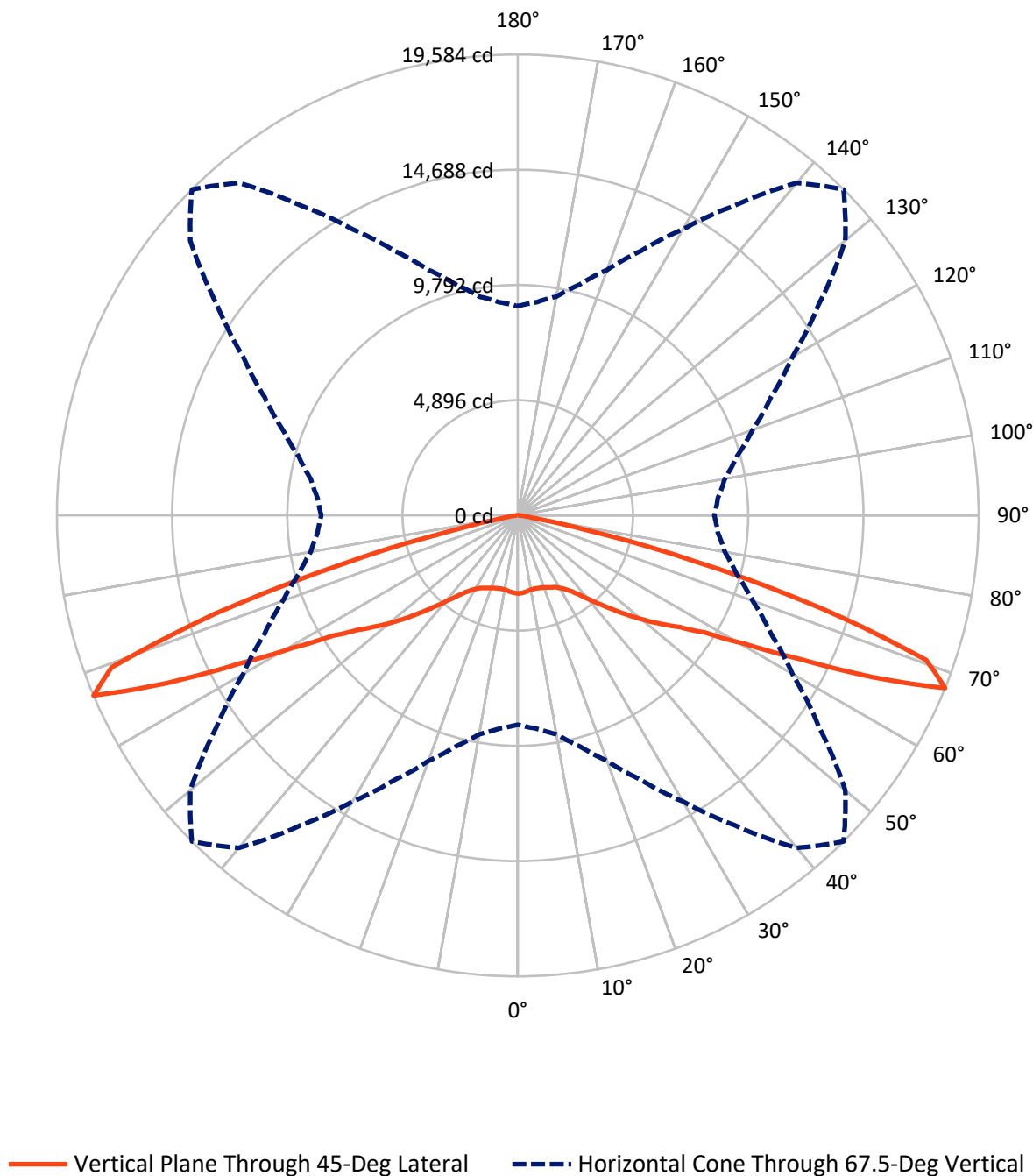


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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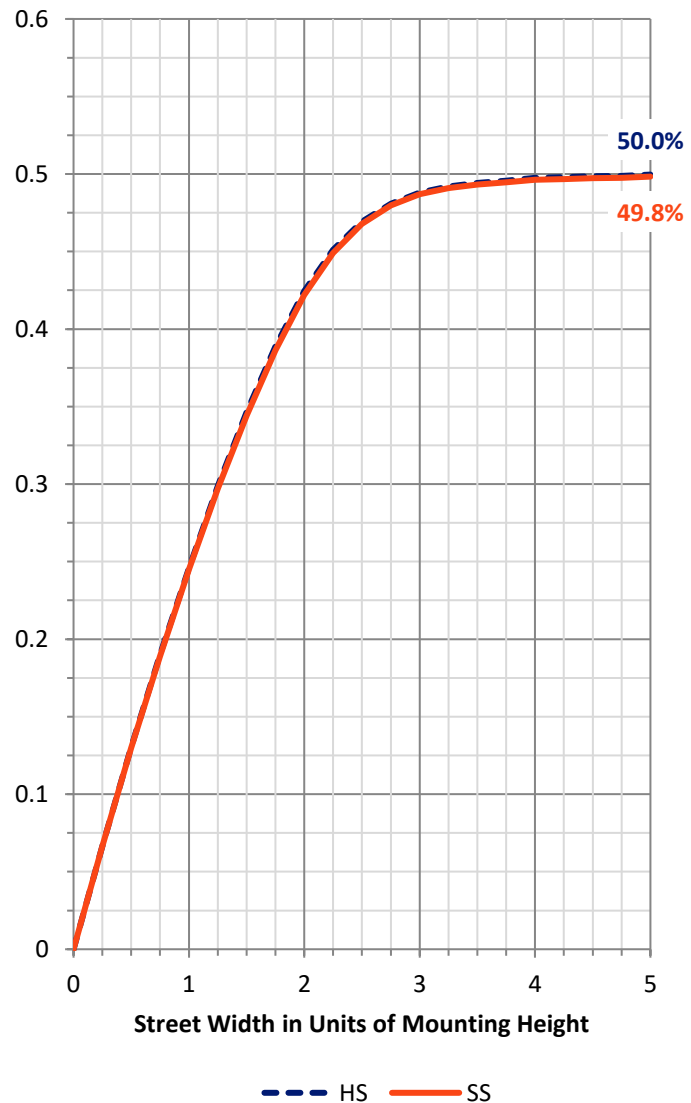
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16638.0	0.0	16638.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16638.0	0.0	16638.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33276.0	0.0	33276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	0.9
10°-20°	900.6	2.7
20°-30°	1531.1	4.6
30°-40°	2502.8	7.5
40°-50°	4468.0	13.4
50°-60°	7533.2	22.6
60°-70°	11690.3	35.1
70°-80°	4107.5	12.3
80°-90°	232.1	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°	33276.0	100.0
0°-180°	33276.0	100.0

Coefficient of Utilization



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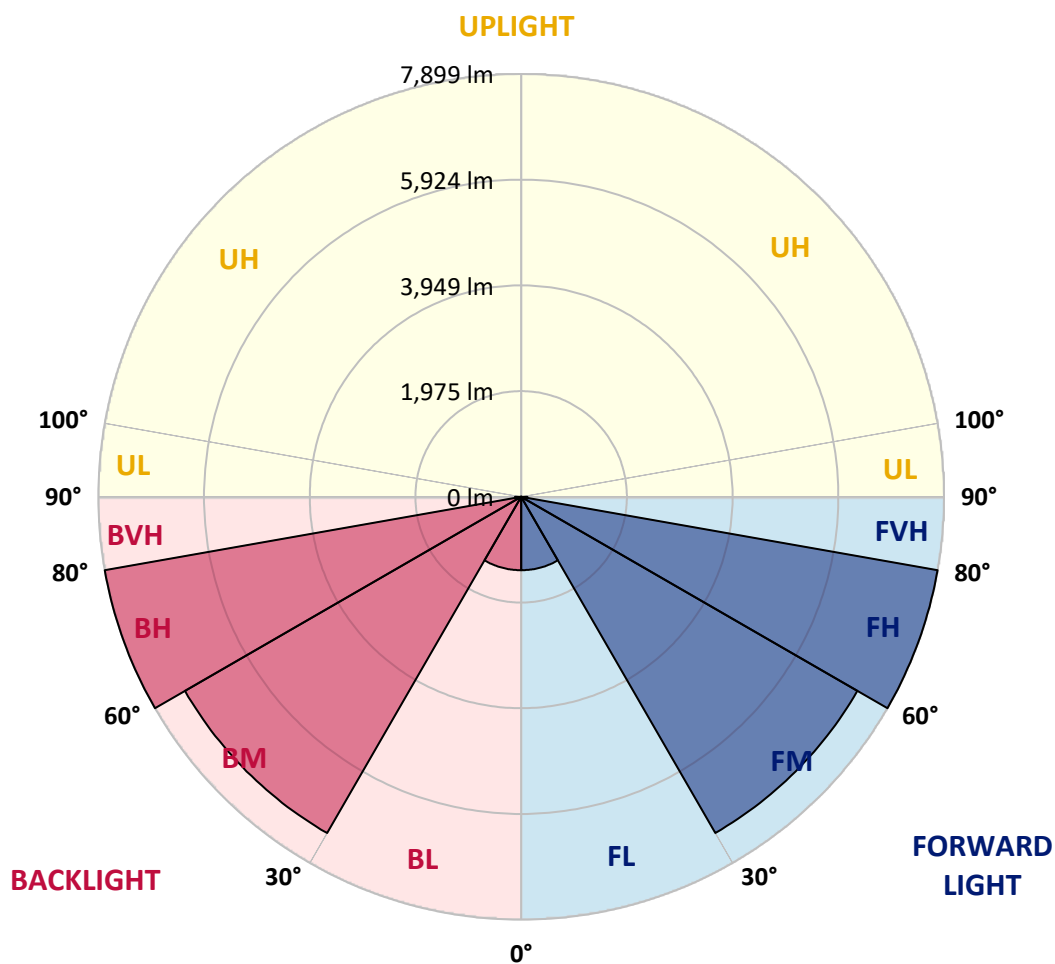
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1371.0	4.1			
FM	(30°-60°)	7252.0	21.8			
FH	(60°-80°)	7898.9	23.7			G4/12000
FVH	(80°-90°)	116.1	0.3			G2/225
BL	(0°-30°)	1371.0	4.1	B3/2500		
BM	(30°-60°)	7252.0	21.8	B4/8500		
BH	(60°-80°)	7898.9	23.7	B5		G4/12000
BVH	(80°-90°)	116.1	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°	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1
2.5°	3303.9	3306.9	3306.9	3306.9	3305.4	3305.4	3302.3	3305.4	3303.9	3299.3	3300.8
5°	3276.3	3279.4	3279.4	3277.8	3282.4	3280.9	3276.3	3279.4	3277.8	3274.8	3276.3
7.5°	3236.5	3241.1	3241.1	3239.6	3244.2	3242.6	3239.6	3241.1	3241.1	3236.5	3236.5
10°	3192.1	3195.2	3195.2	3193.7	3201.3	3201.3	3199.8	3204.4	3205.9	3201.3	3198.3
12.5°	3150.8	3155.4	3155.4	3161.5	3169.2	3172.2	3179.9	3186.0	3192.1	3190.6	3184.5
15°	3126.3	3129.4	3135.5	3143.2	3155.4	3166.1	3178.4	3192.1	3204.4	3207.4	3198.3
17.5°	3111.0	3115.6	3124.8	3135.5	3152.4	3170.7	3189.1	3207.4	3224.3	3230.4	3219.7
20°	3106.4	3109.5	3118.7	3137.1	3160.0	3187.6	3213.6	3235.0	3257.9	3265.6	3257.9
22.5°	3115.6	3121.7	3132.5	3153.9	3184.5	3219.7	3250.3	3279.4	3308.4	3322.2	3311.5
25°	3156.9	3163.1	3176.8	3204.4	3238.1	3274.8	3310.0	3343.6	3369.7	3383.4	3375.8
27.5°	3233.5	3241.1	3257.9	3285.5	3322.2	3362.0	3400.3	3427.8	3449.2	3453.8	3444.6
30°	3348.2	3365.1	3385.0	3415.6	3458.4	3492.1	3530.3	3554.8	3580.8	3580.8	3573.2
32.5°	3527.3	3544.1	3565.5	3594.6	3628.3	3665.0	3698.7	3720.1	3747.6	3749.2	3730.8
35°	3795.1	3802.7	3821.1	3839.4	3870.1	3902.2	3931.3	3945.0	3968.0	3969.5	3952.7
37.5°	4148.6	4150.1	4162.3	4168.5	4196.0	4231.2	4258.7	4267.9	4289.3	4286.3	4269.5
40°	4560.2	4567.9	4572.4	4581.6	4610.7	4644.4	4673.4	4678.0	4701.0	4696.4	4675.0
42.5°	5036.1	5039.2	5065.2	5079.0	5106.5	5123.3	5160.1	5164.7	5192.2	5180.0	5155.5
45°	5570.2	5597.7	5622.2	5649.8	5678.8	5698.7	5727.8	5721.7	5740.0	5721.7	5707.9
47.5°	6131.8	6151.7	6206.8	6249.6	6297.1	6313.9	6355.2	6336.8	6355.2	6329.2	6324.6
50°	6750.0	6785.2	6832.7	6881.6	6932.1	6959.7	7013.2	6990.3	7014.8	6990.3	6976.5
52.5°	7359.1	7368.2	7472.3	7544.2	7614.6	7646.8	7678.9	7668.2	7669.7	7668.2	7654.4
55°	7937.5	7958.9	8063.0	8160.9	8283.3	8373.6	8428.7	8422.6	8408.8	8395.1	8372.1
57.5°	8589.4	8610.8	8730.2	8851.1	8990.3	9118.9	9230.6	9345.4	9389.7	9402.0	9351.5
60°	9470.8	9469.3	9628.5	9775.4	9974.3	10165.6	10410.4	10659.9	10946.0	11079.2	10903.2
62.5°	10367.6	10404.3	10633.8	10894.0	11304.1	11703.5	12154.9	12598.7	13051.7	13420.5	13028.7
65°	10260.5	10401.2	10742.5	11331.6	12089.1	12988.9	13962.2	14992.0	15922.5	16562.1	15844.4
67.5°	8892.4	9092.9	9440.2	10156.4	11103.6	12401.3	14035.6	16072.4	18439.7	19584.4	18165.8
70°	6445.5	6672.0	7036.2	7735.5	8673.6	9907.0	11682.1	14127.4	17261.4	18415.3	16852.9
72.5°	3207.4	3329.9	3554.8	4000.1	4710.2	5711.0	7320.8	9671.3	12444.2	13503.1	12075.4
75°	1089.6	1146.2	1184.4	1329.8	1554.8	1948.0	2748.4	4228.1	6450.1	7732.5	6358.3
77.5°	628.9	630.5	656.5	682.5	720.8	763.6	870.7	1143.1	1977.1	2808.0	2046.0
80°	407.1	405.5	426.9	446.8	472.9	494.3	500.4	529.5	610.6	723.8	647.3
82.5°	211.2	237.2	284.6	310.6	359.6	368.8	356.6	345.8	365.7	379.5	388.7
85°	116.3	101.0	151.5	195.9	217.3	220.4	220.4	208.1	215.8	211.2	229.5
87.5°	53.6	49.0	59.7	96.4	102.5	87.2	91.8	81.1	58.2	56.6	64.3
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°	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1	3316.1
2.5°	3300.8	3302.3	3302.3	3306.9	3308.4	3311.5	3314.6	3316.1
5°	3274.8	3279.4	3276.3	3280.9	3280.9	3284.0	3284.0	3285.5
7.5°	3236.5	3241.1	3241.1	3241.1	3239.6	3244.2	3244.2	3244.2
10°	3196.7	3199.8	3198.3	3195.2	3192.1	3196.7	3195.2	3193.7
12.5°	3184.5	3176.8	3170.7	3167.7	3161.5	3163.1	3158.5	3158.5
15°	3192.1	3178.4	3167.7	3163.1	3156.9	3153.9	3150.8	3152.4
17.5°	3212.0	3195.2	3181.4	3173.8	3166.1	3161.5	3155.4	3156.9
20°	3247.2	3227.3	3207.4	3192.1	3178.4	3170.7	3166.1	3164.6
22.5°	3299.3	3270.2	3241.1	3218.2	3199.8	3189.1	3184.5	3181.4
25°	3358.9	3326.8	3293.1	3267.1	3248.8	3235.0	3225.8	3225.8
27.5°	3433.9	3407.9	3377.3	3346.7	3329.9	3316.1	3310.0	3306.9
30°	3559.4	3534.9	3510.4	3481.4	3459.9	3446.2	3435.5	3426.3
32.5°	3720.1	3700.2	3680.3	3658.9	3639.0	3620.6	3603.8	3596.1
35°	3946.6	3931.3	3917.5	3893.0	3885.4	3874.6	3865.5	3857.8
37.5°	4258.7	4252.6	4252.6	4226.6	4220.5	4215.9	4206.7	4208.2
40°	4668.9	4675.0	4667.3	4658.1	4653.5	4641.3	4641.3	4652.0
42.5°	5153.9	5158.5	5175.4	5160.1	5176.9	5161.6	5152.4	5160.1
45°	5717.1	5733.9	5767.6	5752.3	5763.0	5737.0	5704.8	5706.4
47.5°	6349.1	6364.4	6378.2	6367.5	6369.0	6326.1	6283.3	6272.6
50°	7005.6	7011.7	7019.3	7004.0	7007.1	6959.7	6910.7	6912.2
52.5°	7654.4	7683.5	7714.1	7672.8	7663.6	7610.0	7541.2	7513.6
55°	8396.6	8437.9	8402.7	8330.8	8258.9	8186.9	8096.7	8081.4
57.5°	9311.7	9241.3	9131.1	8994.9	8895.5	8794.5	8702.6	8664.4
60°	10584.9	10320.1	10121.2	9919.2	9792.2	9668.2	9547.4	9529.0
62.5°	12384.5	11926.9	11530.6	11112.8	10771.6	10505.3	10292.6	10232.9
65°	14640.1	13558.2	12620.1	11744.8	10984.3	10410.4	10049.3	9890.1
67.5°	15610.3	13474.0	11865.7	10623.1	9628.5	8933.7	8543.5	8349.1
70°	13717.3	11174.0	9424.9	8180.8	7274.9	6534.3	6180.8	5972.6
72.5°	9437.2	7108.1	5620.7	4587.7	3863.9	3244.2	2999.3	2981.0
75°	4237.3	2806.5	1934.3	1490.5	1254.8	1091.1	1040.6	1002.3
77.5°	1186.0	876.8	782.0	731.5	682.5	625.9	604.5	609.0
80°	576.9	544.8	523.4	491.2	446.8	399.4	378.0	387.2
82.5°	382.6	378.0	391.7	368.8	304.5	258.6	217.3	198.9
85°	232.6	235.7	240.3	241.8	205.1	143.8	97.9	110.2
87.5°	91.8	105.6	114.8	119.4	111.7	68.9	55.1	56.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)