

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: P192567

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192567
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59309.2 lumens
Efficiency: N/A
Efficacy: 103.1 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 - G5

Input Watts (W): 575
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

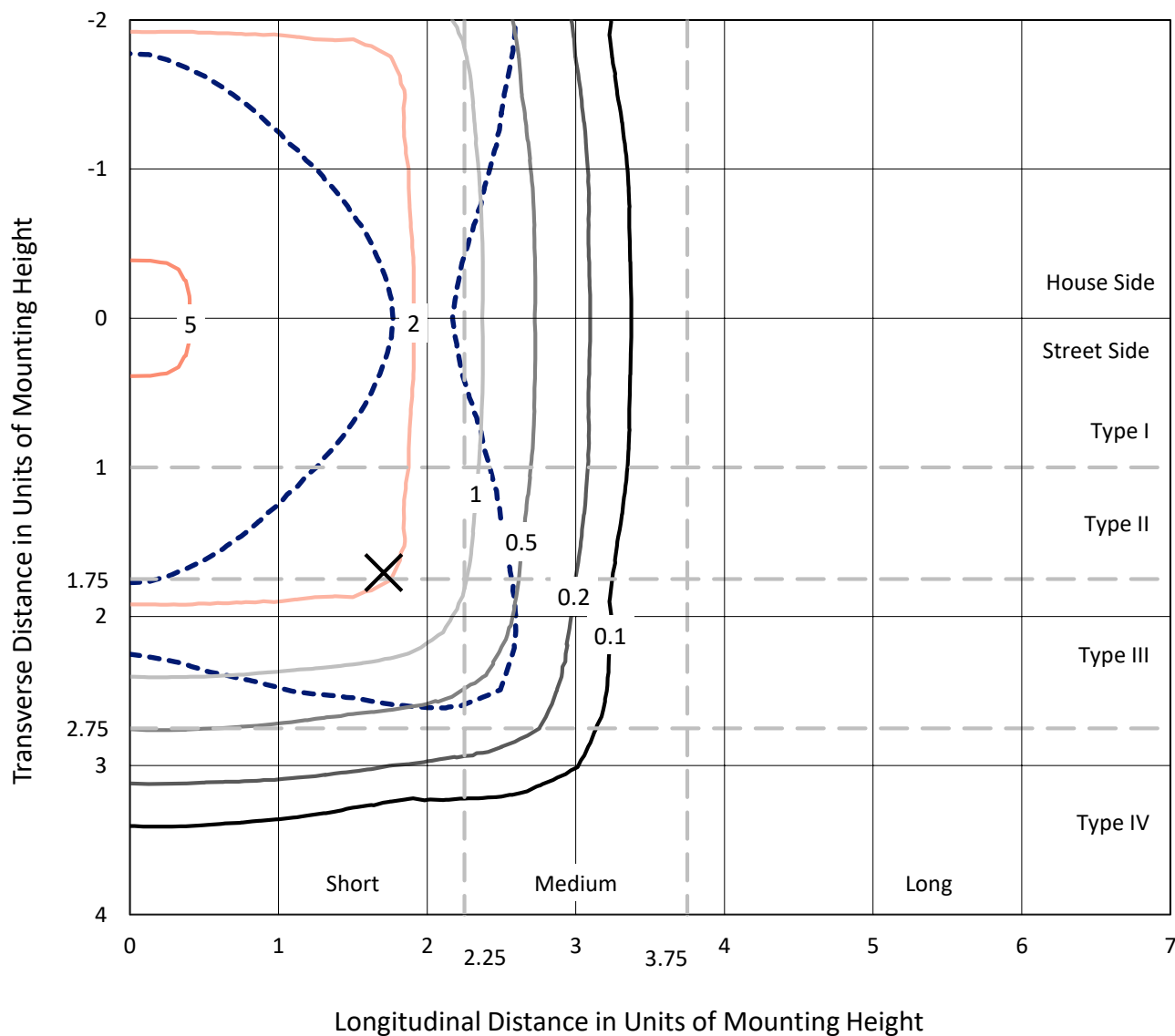


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

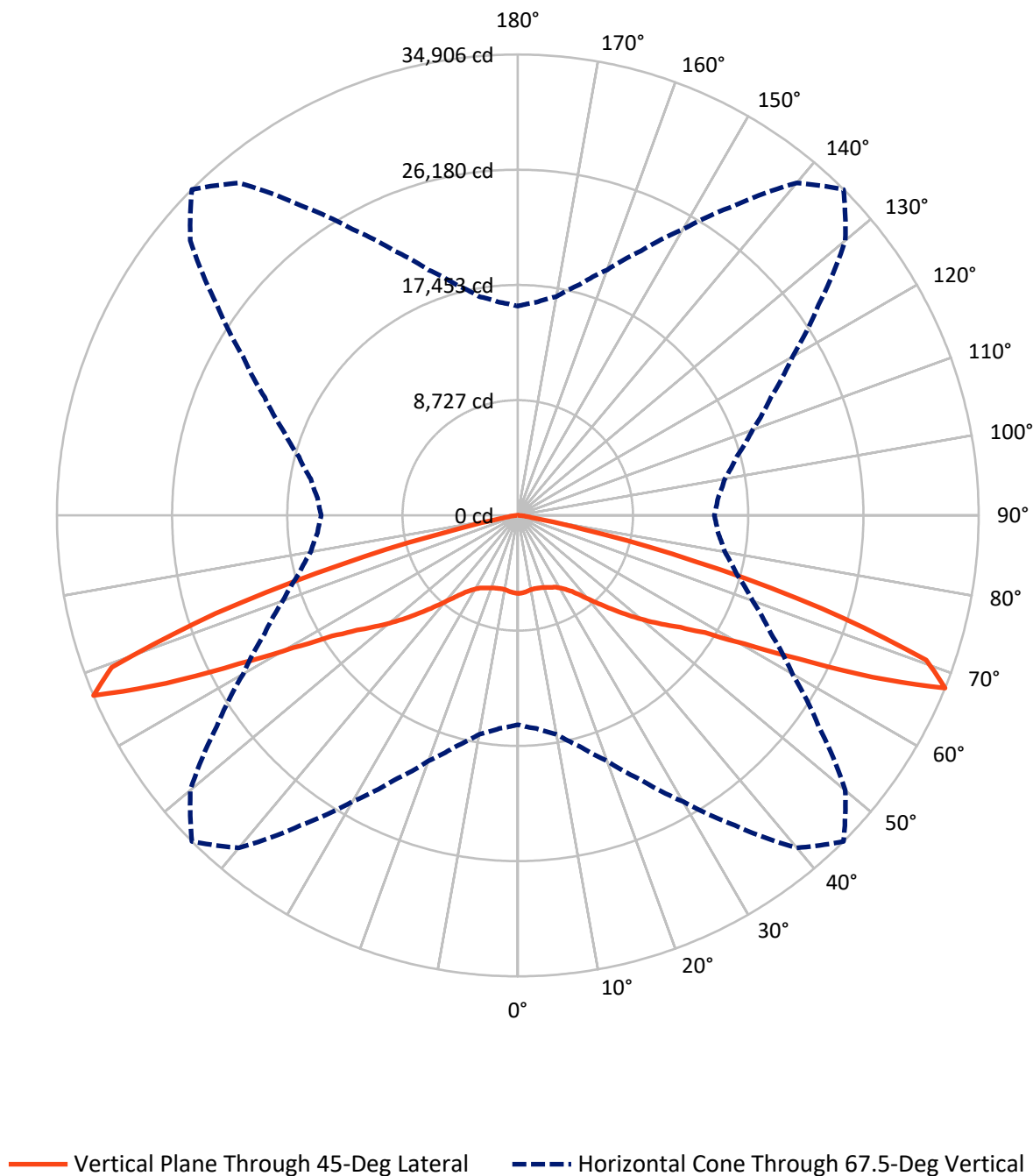


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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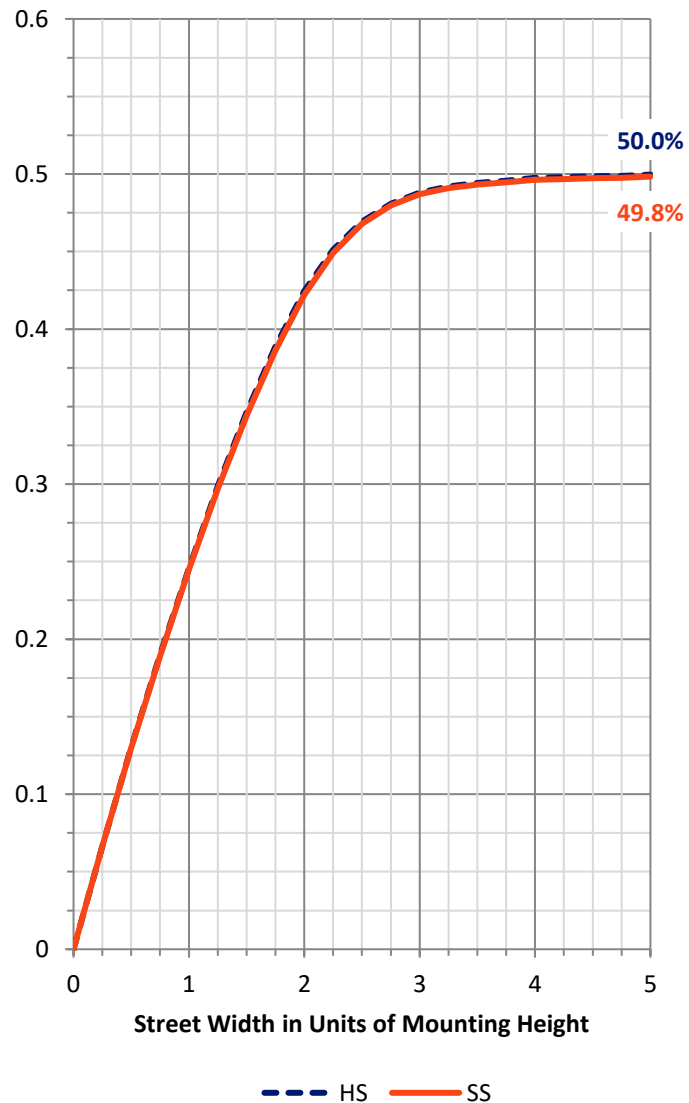
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29654.6	0.0	29654.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29654.6	0.0	29654.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	59309.2	0.0	59309.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.2	0.9
10°-20°	1605.2	2.7
20°-30°	2728.9	4.6
30°-40°	4460.9	7.5
40°-50°	7963.5	13.4
50°-60°	13426.7	22.6
60°-70°	20836.2	35.1
70°-80°	7320.9	12.3
80°-90°	413.7	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°	59309.2	100.0
0°-180°	59309.2	100.0

Coefficient of Utilization



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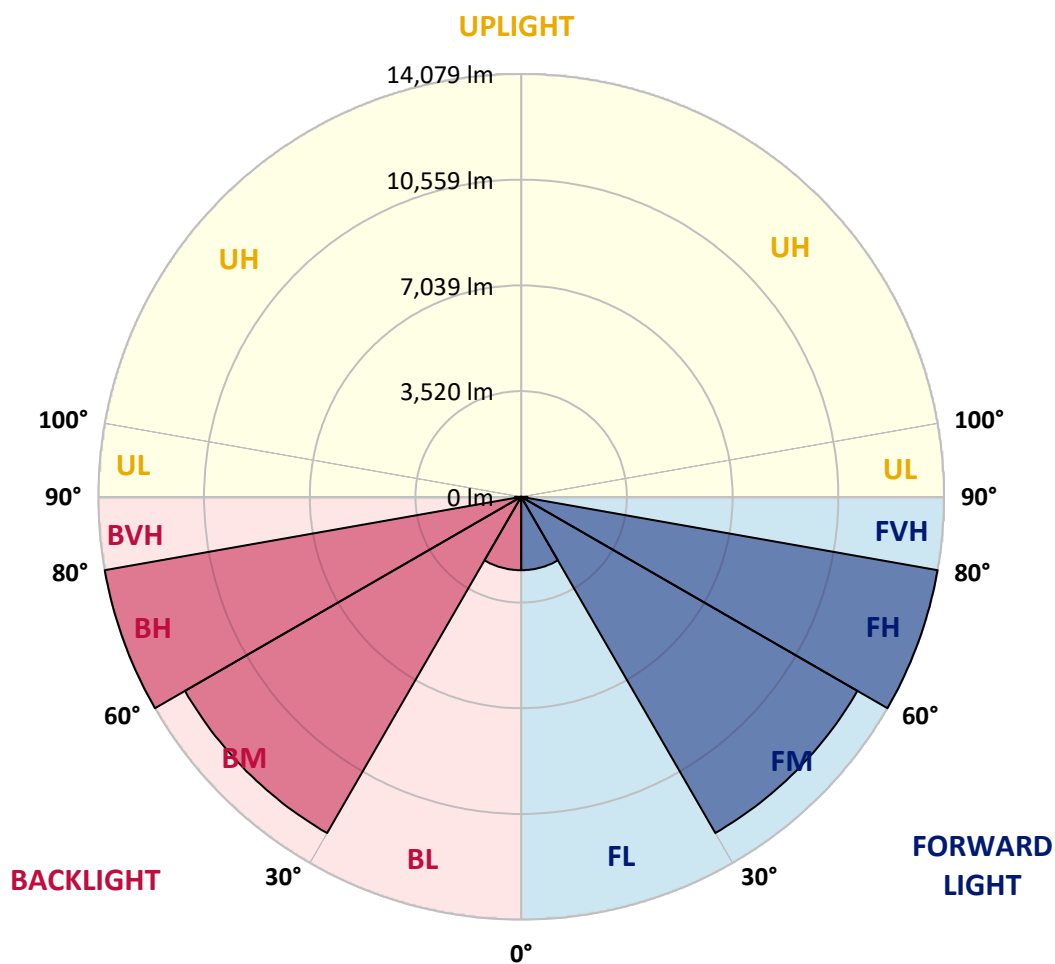
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2443.7	4.1			
FM	(30°-60°)	12925.5	21.8			
FH	(60°-80°)	14078.6	23.7			G5
FVH	(80°-90°)	206.9	0.3			G2/225
BL	(0°-30°)	2443.7	4.1	B3/2500		
BM	(30°-60°)	12925.5	21.8	B5		
BH	(60°-80°)	14078.6	23.7	B5		G5
BVH	(80°-90°)	206.9	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4
2.5°	5888.6	5894.1	5894.1	5894.1	5891.4	5891.4	5885.9	5891.4	5888.6	5880.5	5883.2
5°	5839.5	5845.0	5845.0	5842.2	5850.4	5847.7	5839.5	5845.0	5842.2	5836.7	5839.5
7.5°	5768.6	5776.7	5776.7	5774.1	5782.2	5779.5	5774.1	5776.7	5776.7	5768.6	5768.6
10°	5689.4	5694.9	5694.9	5692.2	5705.8	5705.8	5703.2	5711.3	5714.0	5705.8	5700.4
12.5°	5615.8	5624.0	5624.0	5634.9	5648.6	5654.0	5667.8	5678.5	5689.4	5686.7	5675.8
15°	5572.2	5577.6	5588.6	5602.2	5624.0	5643.1	5665.0	5689.4	5711.3	5716.8	5700.4
17.5°	5544.9	5553.1	5569.5	5588.6	5618.5	5651.3	5684.0	5716.8	5746.8	5757.6	5738.7
20°	5536.7	5542.1	5558.6	5591.4	5632.2	5681.3	5727.7	5765.8	5806.8	5820.5	5806.8
22.5°	5553.1	5564.0	5583.1	5621.3	5675.8	5738.7	5793.2	5845.0	5896.7	5921.3	5902.1
25°	5626.8	5637.7	5662.3	5711.3	5771.3	5836.7	5899.5	5959.5	6005.9	6030.4	6016.8
27.5°	5763.1	5776.7	5806.8	5855.9	5921.3	5992.3	6060.4	6109.6	6147.7	6155.8	6139.5
30°	5967.7	5997.7	6033.2	6087.7	6164.1	6224.1	6292.2	6336.0	6382.3	6382.3	6368.6
32.5°	6286.8	6316.9	6354.9	6406.9	6466.8	6532.3	6592.2	6630.5	6679.6	6682.3	6649.5
35°	6764.1	6777.8	6810.4	6843.2	6897.7	6955.0	7006.9	7031.4	7072.4	7075.1	7045.0
37.5°	7394.1	7396.9	7418.7	7429.6	7478.7	7541.4	7590.6	7606.8	7645.1	7639.6	7609.6
40°	8127.8	8141.5	8149.6	8166.0	8217.8	8277.8	8329.7	8337.9	8378.8	8370.6	8332.4
42.5°	8976.0	8981.5	9027.9	9052.4	9101.6	9131.6	9197.0	9205.2	9254.3	9232.5	9188.8
45°	9928.0	9977.0	10020.7	10069.8	10121.7	10157.1	10208.8	10197.9	10230.7	10197.9	10173.4
47.5°	10928.9	10964.3	11062.6	11139.0	11223.5	11253.4	11327.1	11294.4	11327.1	11280.8	11272.6
50°	12030.9	12093.6	12178.1	12265.5	12355.4	12404.5	12500.0	12459.1	12502.6	12459.1	12434.5
52.5°	13116.3	13132.8	13318.1	13446.4	13571.8	13629.1	13686.4	13667.4	13670.1	13667.4	13642.7
55°	14147.3	14185.5	14371.0	14545.5	14763.7	14924.7	15022.8	15012.0	14987.4	14962.8	14922.0
57.5°	15309.3	15347.4	15560.1	15775.6	16023.9	16253.0	16452.0	16656.6	16735.7	16757.5	16667.5
60°	16880.2	16877.5	17161.3	17423.0	17777.6	18118.6	18555.0	18999.5	19509.6	19746.9	19433.2
62.5°	18478.6	18544.0	18953.1	19416.8	20147.7	20859.7	21664.3	22455.2	23262.5	23919.8	23221.6
65°	18287.6	18538.6	19146.8	20196.9	21546.9	23150.7	24885.3	26721.0	28379.2	29519.3	28240.1
67.5°	15849.2	16206.5	16825.7	18102.2	19790.4	22103.3	25016.3	28646.5	32866.0	34906.0	32377.7
70°	11488.1	11891.8	12540.9	13787.3	15459.3	17657.6	20821.4	25179.9	30765.8	32822.2	30037.5
72.5°	5716.8	5935.0	6336.0	7129.6	8395.2	10178.9	13048.2	17237.7	22179.7	24067.1	21522.4
75°	1942.0	2042.8	2111.1	2370.2	2771.2	3472.0	4898.5	7535.9	11496.3	13781.9	11332.6
77.5°	1121.0	1123.7	1170.0	1216.5	1284.7	1361.1	1551.9	2037.4	3523.8	5004.9	3646.6
80°	725.5	722.8	761.0	796.4	842.8	880.9	891.9	943.7	1088.2	1290.2	1153.7
82.5°	376.4	422.8	507.3	553.7	641.0	657.3	635.5	616.4	651.8	676.5	692.8
85°	207.3	180.1	270.0	349.1	387.4	392.8	392.8	370.9	384.6	376.4	409.0
87.5°	95.5	87.3	106.4	171.9	182.8	155.4	163.7	144.5	103.7	100.9	114.5
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°	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4	5910.4
2.5°	5883.2	5885.9	5885.9	5894.1	5896.7	5902.1	5907.6	5910.4
5°	5836.7	5845.0	5839.5	5847.7	5847.7	5853.1	5853.1	5855.9
7.5°	5768.6	5776.7	5776.7	5776.7	5774.1	5782.2	5782.2	5782.2
10°	5697.7	5703.2	5700.4	5694.9	5689.4	5697.7	5694.9	5692.2
12.5°	5675.8	5662.3	5651.3	5645.9	5634.9	5637.7	5629.5	5629.5
15°	5689.4	5665.0	5645.9	5637.7	5626.8	5621.3	5615.8	5618.5
17.5°	5724.9	5694.9	5670.4	5656.8	5643.1	5634.9	5624.0	5626.8
20°	5787.7	5752.2	5716.8	5689.4	5665.0	5651.3	5643.1	5640.4
22.5°	5880.5	5828.6	5776.7	5735.9	5703.2	5684.0	5675.8	5670.4
25°	5986.8	5929.5	5869.5	5823.1	5790.4	5765.8	5749.4	5749.4
27.5°	6120.3	6074.0	6019.5	5965.0	5935.0	5910.4	5899.5	5894.1
30°	6344.0	6300.4	6256.8	6205.0	6166.8	6142.2	6123.1	6106.8
32.5°	6630.5	6595.0	6559.6	6521.3	6485.9	6453.2	6423.2	6409.5
35°	7034.1	7006.9	6982.3	6938.6	6925.1	6905.9	6889.6	6875.9
37.5°	7590.6	7579.7	7579.7	7533.2	7522.4	7514.2	7497.8	7500.5
40°	8321.5	8332.4	8318.8	8302.4	8294.2	8272.3	8272.3	8291.4
42.5°	9186.1	9194.2	9224.3	9197.0	9227.1	9199.7	9183.4	9197.0
45°	10189.8	10219.8	10279.7	10252.6	10271.6	10225.2	10168.0	10170.7
47.5°	11316.2	11343.6	11368.1	11349.0	11351.7	11275.3	11199.0	11179.9
50°	12486.3	12497.2	12510.8	12483.6	12489.1	12404.5	12317.3	12320.0
52.5°	13642.7	13694.5	13749.1	13675.6	13659.1	13563.7	13441.0	13391.8
55°	14965.6	15039.2	14976.5	14848.4	14720.2	14591.9	14431.0	14403.7
57.5°	16596.6	16471.2	16274.8	16032.0	15854.7	15674.8	15511.1	15442.9
60°	18865.9	18394.1	18039.5	17679.5	17453.1	17232.2	17016.7	16984.0
62.5°	22073.3	21257.8	20551.4	19806.8	19198.6	18724.1	18344.9	18238.5
65°	26093.7	24165.3	22493.4	20933.3	19577.7	18555.0	17911.2	17627.6
67.5°	27822.9	24015.3	21148.8	18934.1	17161.3	15922.9	15227.5	14881.0
70°	24449.0	19915.9	16798.4	14580.9	12966.4	11646.3	11016.2	10645.2
72.5°	16820.3	12669.0	10018.0	8177.0	6886.8	5782.2	5345.8	5313.1
75°	7552.3	5002.2	3447.5	2656.5	2236.5	1944.7	1854.6	1786.5
77.5°	2113.7	1562.9	1393.7	1303.7	1216.5	1115.5	1077.3	1085.5
80°	1028.2	971.0	932.7	875.5	796.4	711.9	673.7	690.1
82.5°	681.9	673.7	698.2	657.3	542.8	461.0	387.4	354.5
85°	414.5	420.0	428.2	430.9	365.5	256.4	174.6	196.3
87.5°	163.7	188.2	204.6	212.7	199.1	122.7	98.3	100.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)