

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: P638381

Luminaire Tested: **IFLD-L-SA7A-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638381
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21007.2 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

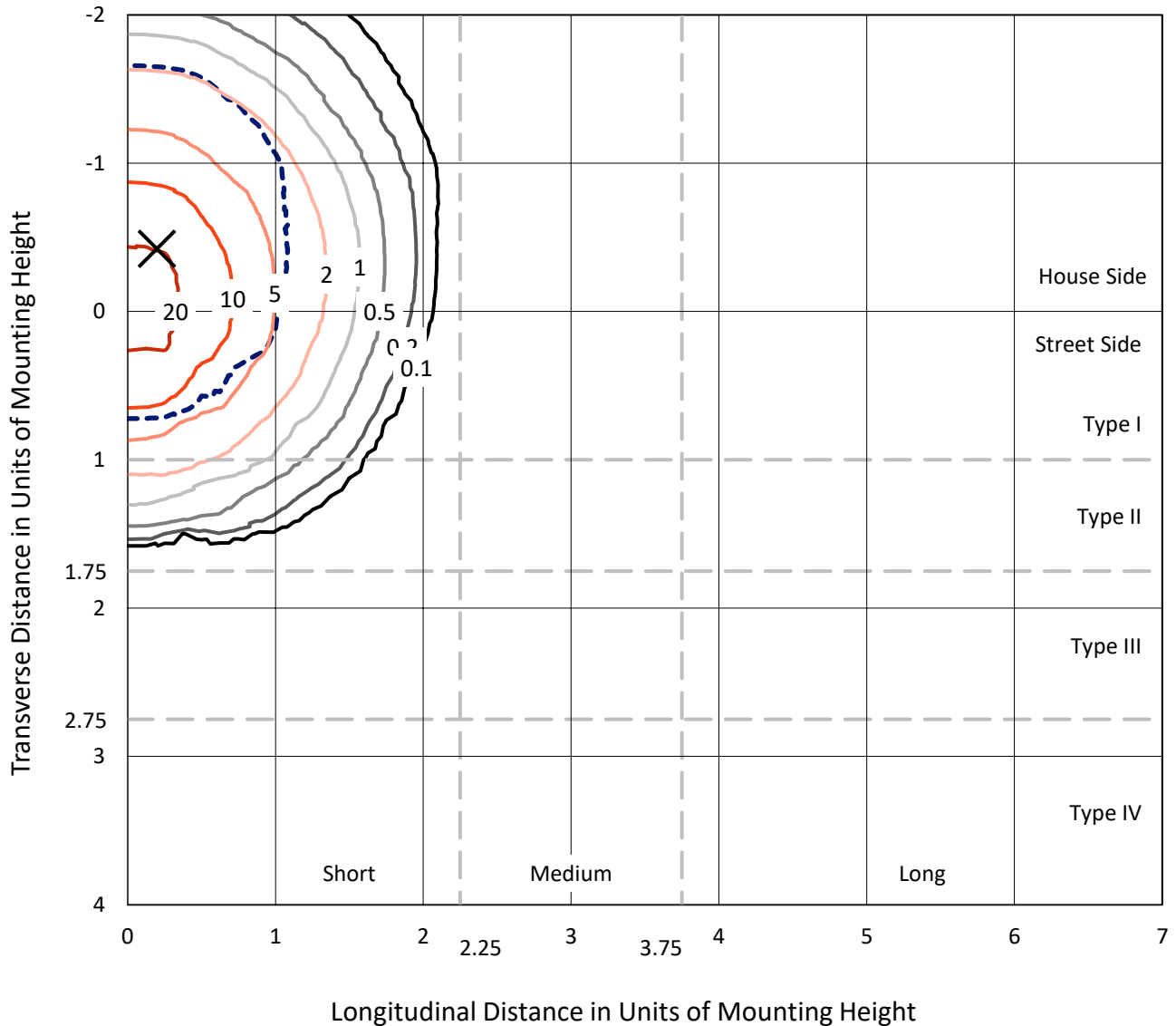
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

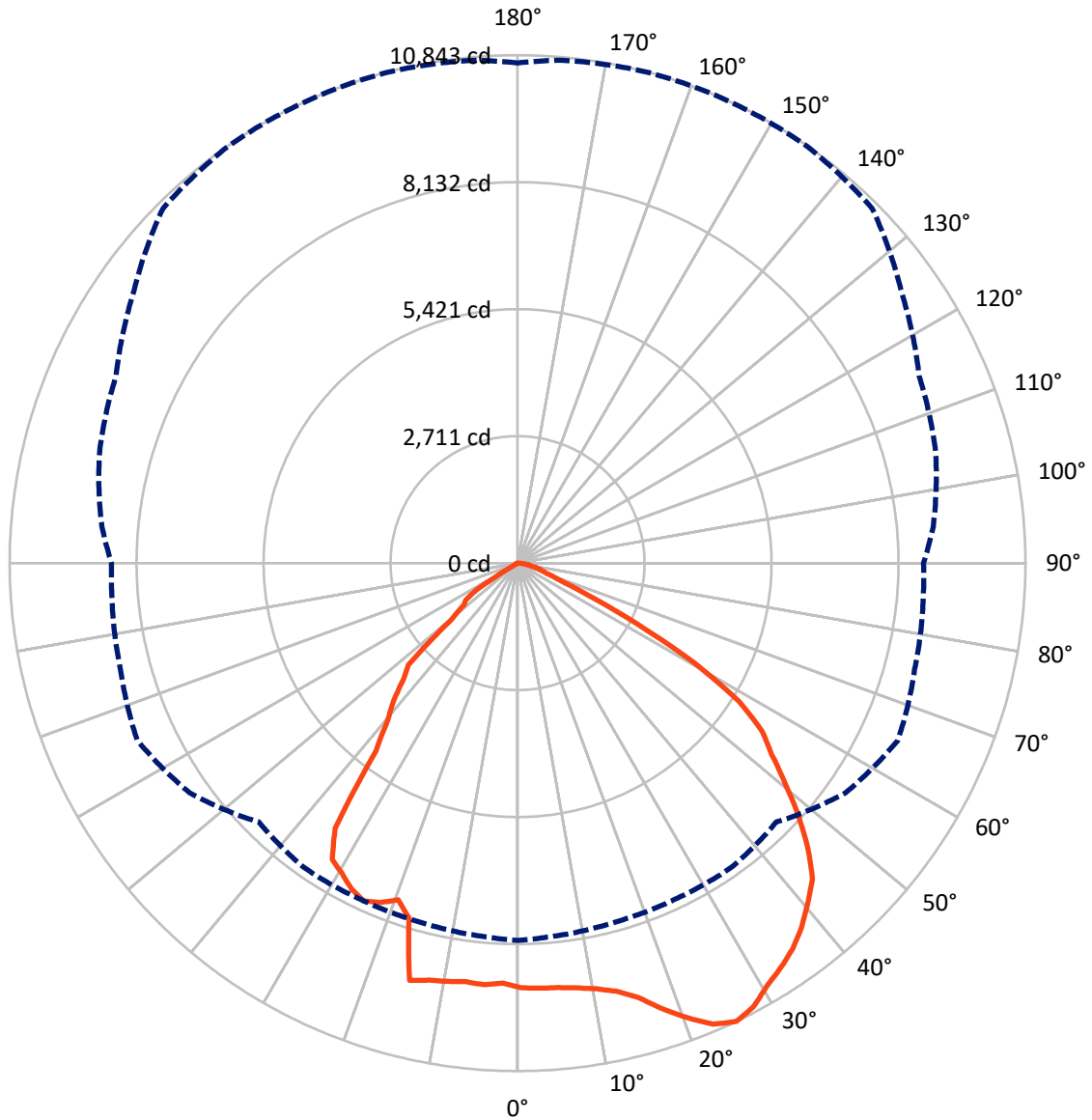
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13005.6	0.0	13005.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8001.6	0.0	8001.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	21007.2	0.0	21007.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.6	4.1
10°-20°	2655.3	12.6
20°-30°	4197.8	20.0
30°-40°	4741.8	22.6
40°-50°	4440.8	21.1
50°-60°	3061.6	14.6
60°-70°	822.6	3.9
70°-80°	171.4	0.8
80°-90°	46.4	0.2
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°	21007.2	100.0
0°-180°	21007.2	100.0



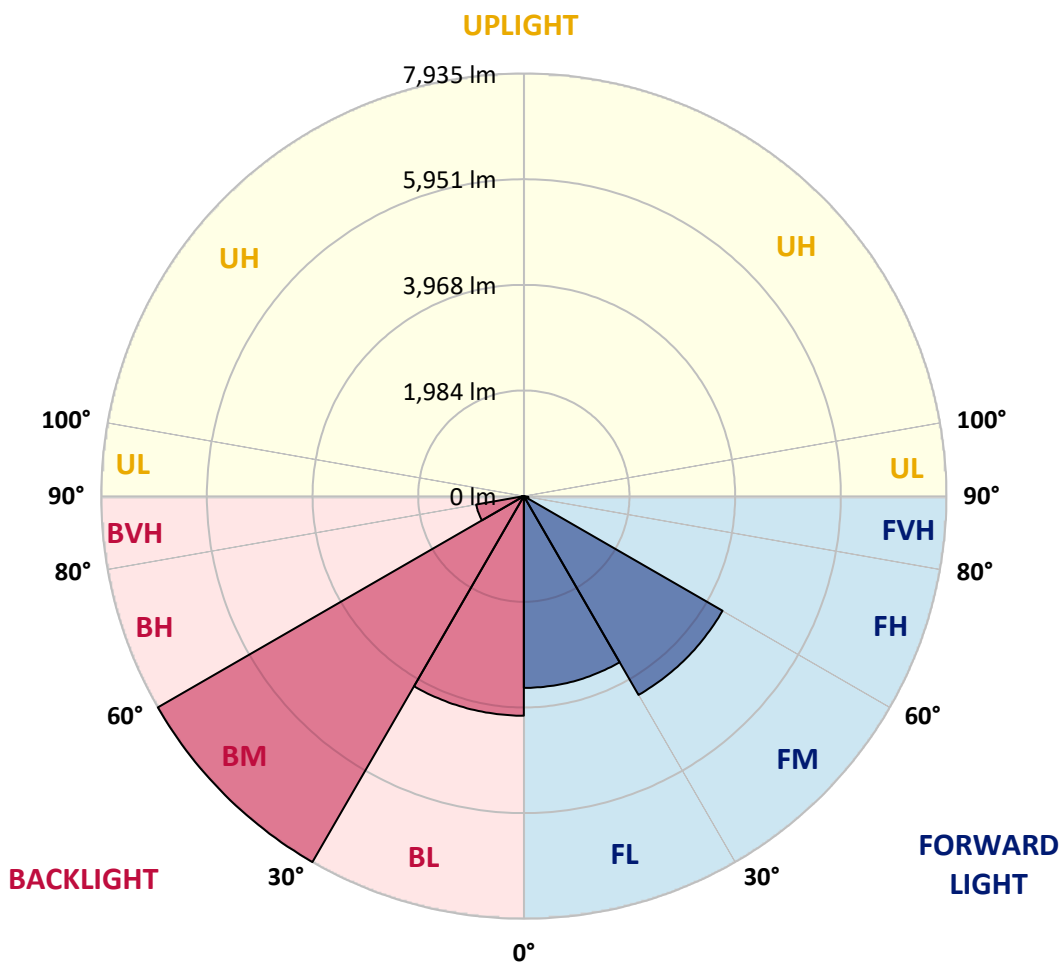
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.0	17.1			
FM (30°-60°)	4309.1	20.5			
FH (60°-80°)	86.4	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	4122.7	19.6	B4/5000		
BM (30°-60°)	7935.1	37.8	B4/8500		
BH (60°-80°)	907.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	40.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2
2.5°	9104.4	9045.7	8990.1	8971.6	9048.8	9132.2	9079.7	9082.8	9064.2	9098.2
5°	9172.3	9092.0	9055.0	9027.2	9039.5	9126.0	9051.9	9079.7	9048.8	9088.9
7.5°	9147.6	9092.0	9055.0	9002.5	9042.6	9144.5	9073.5	9076.6	9061.1	9098.2
10°	9132.2	9092.0	9045.7	9051.9	9098.2	9184.6	9129.1	9159.9	9138.3	9159.9
12.5°	9169.2	9126.0	9101.3	9101.3	9141.4	9240.2	9212.4	9240.2	9230.9	9249.5
15°	8820.3	8860.5	9095.1	9200.1	9280.3	9379.1	9366.8	9394.6	9400.7	9428.5
17.5°	7440.3	7400.2	7381.7	7921.9	9357.5	9663.2	9653.9	9650.8	9619.9	9598.3
20°	7622.5	7607.0	7585.4	7625.6	7786.1	9811.4	9873.1	9493.4	9382.2	9373.0
22.5°	7912.7	7888.0	7807.7	7810.8	7860.2	8530.1	9567.5	9221.7	9184.6	9163.0
25°	8054.7	8005.3	7940.5	7921.9	7937.4	7813.9	8545.6	8956.2	8774.0	8690.7
27.5°	7804.6	7807.7	7755.2	7804.6	7746.0	7190.3	6878.4	8437.5	8431.3	8394.3
30°	7616.3	7607.0	7545.3	7607.0	7202.6	6582.1	6449.3	7869.5	7804.6	7755.2
32.5°	7039.0	7045.2	7224.2	7465.0	6801.3	6310.4	5909.0	7029.7	7644.1	7616.3
35°	5035.3	5047.7	5683.7	6872.3	6193.1	5770.1	5739.2	6075.8	7390.9	7403.3
37.5°	4847.0	4847.0	4831.6	5026.1	5714.5	5550.9	5612.7	5578.7	6770.4	6801.3
40°	4711.2	4683.4	4661.8	4356.1	3973.3	5396.6	5439.8	5285.4	6399.9	6406.1
42.5°	4547.6	4516.7	4522.9	3957.9	3556.5	5013.7	4893.3	4686.5	5782.5	5788.6
45°	4248.1	4300.6	4337.6	3463.9	3433.0	3581.2	4513.6	4383.9	5365.7	5479.9
47.5°	2161.1	2207.4	3386.7	3186.1	3257.1	3183.0	3812.8	3815.9	4464.2	4843.9
50°	1960.4	1948.1	1951.2	1858.5	3007.0	2574.8	2756.9	3497.9	3575.1	4118.4
52.5°	1827.7	1824.6	1636.3	1454.1	1889.4	2266.1	2000.6	2531.6	2658.1	3488.6
55°	1352.2	1451.0	1290.5	1367.7	1182.4	1815.3	1806.1	2284.6	2327.8	2797.1
57.5°	12.3	15.4	37.0	1040.4	818.1	907.7	1247.3	1559.1	1636.3	2179.6
60°	3.1	6.2	15.4	30.9	531.0	558.8	833.6	901.5	1015.7	1299.7
62.5°	0.0	0.0	6.2	15.4	27.8	228.5	265.5	290.2	447.7	663.8
65°	0.0	0.0	3.1	9.3	15.4	37.0	64.8	135.8	194.5	240.8
67.5°	0.0	0.0	3.1	6.2	12.3	18.5	37.0	52.5	83.4	142.0
70°	0.0	0.0	3.1	6.2	9.3	15.4	24.7	37.0	49.4	71.0
72.5°	0.0	0.0	3.1	6.2	6.2	18.5	18.5	27.8	37.0	46.3
75°	0.0	0.0	3.1	3.1	6.2	12.3	18.5	21.6	24.7	37.0
77.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	24.7	21.6	21.6
80°	0.0	0.0	3.1	9.3	9.3	15.4	18.5	24.7	15.4	15.4
82.5°	0.0	0.0	3.1	12.3	9.3	30.9	30.9	34.0	12.3	12.3
85°	0.0	0.0	9.3	6.2	18.5	30.9	27.8	18.5	15.4	9.3
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	21.6	18.5	6.2	6.2
90°	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9064.2	0°	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2	9064.2
9008.7	2.5°	9132.2	9092.0	9175.4	9166.1	9126.0	9107.5	9085.8	9067.3	8931.5
9014.8	5°	9135.2	9073.5	9175.4	9156.9	9150.7	9119.8	9101.3	9129.1	9005.6
9039.5	7.5°	9135.2	9073.5	9184.6	9190.8	9181.6	9156.9	9153.8	9172.3	9070.4
9082.8	10°	9197.0	9172.3	9264.9	9274.2	9261.8	9255.6	9240.2	9227.9	9119.8
9230.9	12.5°	9326.7	9277.3	9382.2	9410.0	9400.7	9416.2	9379.1	9397.7	9286.5
9382.2	15°	9484.1	9487.2	9567.5	9629.2	9623.0	9672.4	9616.9	9666.3	9586.0
9555.1	17.5°	9724.9	9758.9	9873.1	9965.7	9999.7	10036.7	9999.7	10015.1	9900.9
9363.7	20°	9471.8	9598.3	10147.9	10317.7	10388.7	10422.6	10360.9	10379.4	10265.2
9129.1	22.5°	9243.3	9406.9	9894.7	10425.7	10644.9	10712.8	10691.2	10688.1	10644.9
8666.0	25°	8906.8	9237.1	9456.3	10018.2	10706.7	10830.2	10842.5	10839.4	10774.6
8381.9	27.5°	8493.1	8567.2	9135.2	9477.9	10274.4	10743.7	10725.2	10635.7	10549.2
7792.3	30°	7965.2	8301.7	8557.9	9104.4	9715.6	10478.2	10478.2	10410.3	10320.8
7582.3	32.5°	7696.6	8131.9	8369.6	8567.2	9088.9	10181.8	10305.3	10234.3	10163.3
7418.7	35°	7554.6	7619.4	8175.1	8354.2	8795.6	9610.7	10110.8	10039.8	9987.3
6983.4	37.5°	7242.7	7394.0	7653.4	8131.9	8267.7	9144.5	9851.5	9814.4	9752.7
6418.4	40°	6548.1	6952.5	7350.8	7804.6	7946.6	8545.6	9536.6	9552.0	9468.7
5816.4	42.5°	6137.5	6412.3	7035.9	7341.5	7724.4	8159.7	9230.9	9255.6	9197.0
5510.8	45°	5655.9	5961.5	6399.9	6955.6	7477.4	7628.7	8690.7	8950.0	8900.6
4902.6	47.5°	5214.4	5461.4	5998.6	6560.5	7137.8	7116.2	8070.1	8557.9	8490.0
4436.4	50°	4587.7	5019.9	5273.1	5788.6	6650.0	6708.6	7409.5	8097.9	8042.3
3769.6	52.5°	3868.4	4411.7	4896.4	5368.8	6156.0	6295.0	6795.1	7628.7	7591.6
2880.4	55°	3380.6	3775.7	4322.2	4701.9	5557.1	5927.6	6335.1	7181.0	7162.5
2367.9	57.5°	2405.0	3167.5	3618.3	4149.3	4600.0	5270.0	5572.5	6270.3	6097.4
1312.1	60°	1630.1	1988.2	2537.7	3108.9	3411.4	4081.4	4362.3	4921.1	4874.8
784.2	62.5°	861.3	1191.7	1583.8	1870.9	2090.1	2741.5	2858.8	3460.8	3445.4
314.9	65°	379.7	503.2	858.3	1006.5	1231.8	1534.4	1636.3	1852.4	1799.9
154.4	67.5°	197.6	299.5	484.7	595.8	750.2	864.4	947.8	1015.7	1058.9
101.9	70°	120.4	219.2	299.5	413.7	515.6	608.2	673.0	765.6	821.2
52.5	72.5°	89.5	138.9	206.8	318.0	373.6	481.6	546.4	614.4	663.8
43.2	75°	49.4	92.6	166.7	250.1	299.5	392.1	450.7	497.1	512.5
24.7	77.5°	30.9	71.0	138.9	194.5	234.6	318.0	302.6	345.8	382.8
18.5	80°	21.6	52.5	108.1	160.5	163.6	203.8	240.8	277.9	302.6
12.3	82.5°	15.4	43.2	80.3	123.5	108.1	157.5	188.3	216.1	157.5
9.3	85°	12.3	30.9	40.1	74.1	61.7	111.1	95.7	92.6	61.7
6.2	87.5°	9.3	15.4	27.8	34.0	24.7	24.7	30.9	37.0	30.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9064.2
8838.9
8900.6
8953.1
9030.3
9187.7
9453.2
9802.1
10184.9
10506.0
10675.8
10481.3
10286.8
10104.6
9913.2
9691.0
9450.1
9190.8
8906.8
8539.4
8051.6
7616.3
7184.1
6078.8
4877.9
3448.5
1778.3
1058.9
824.3
673.0
503.2
389.0
305.6
114.2
61.7
30.9
0.0

(END OF REPORT)