

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: P638430

Luminaire Tested: **IFLD-S-SA6B-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638430
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24602 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

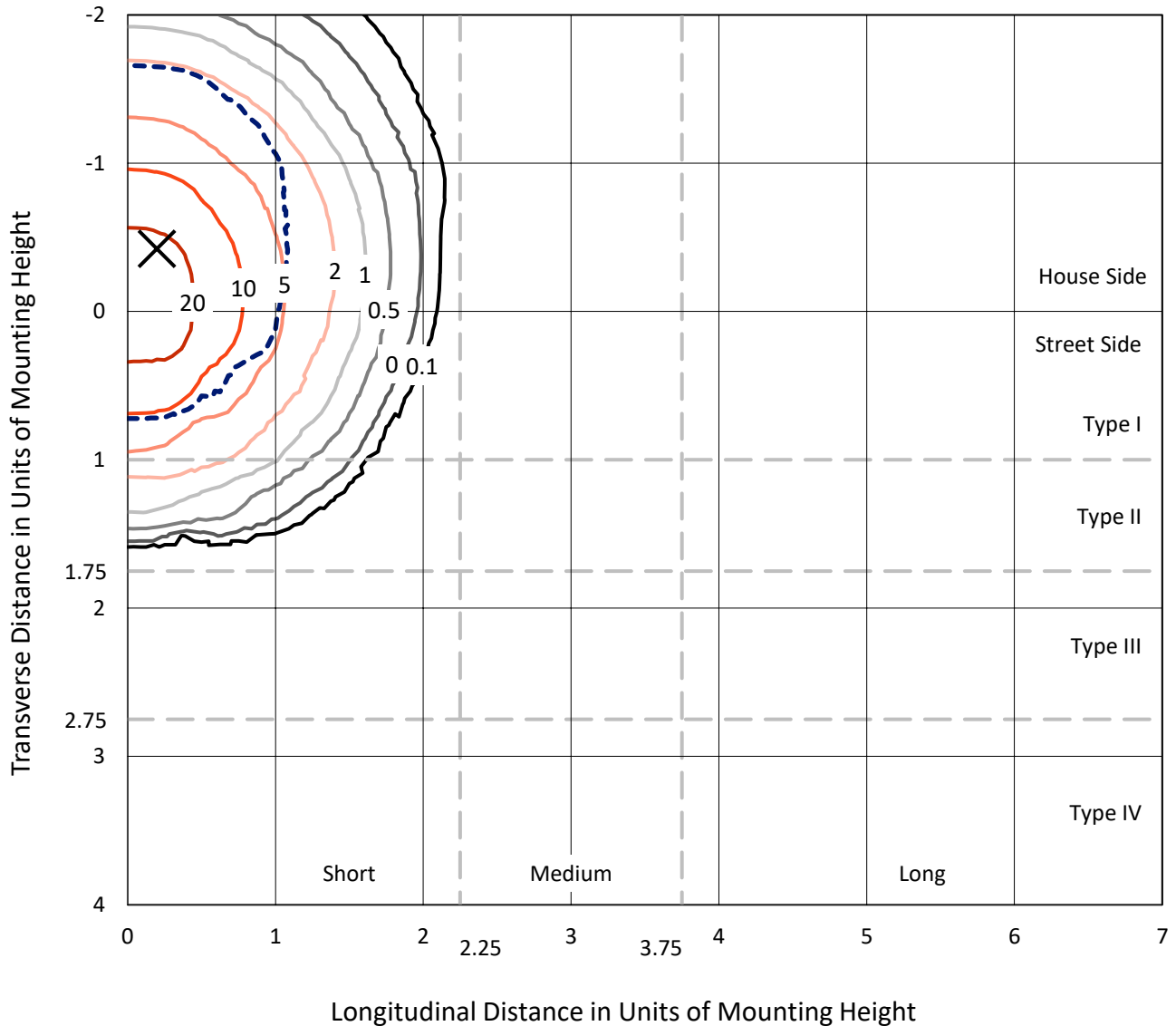
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

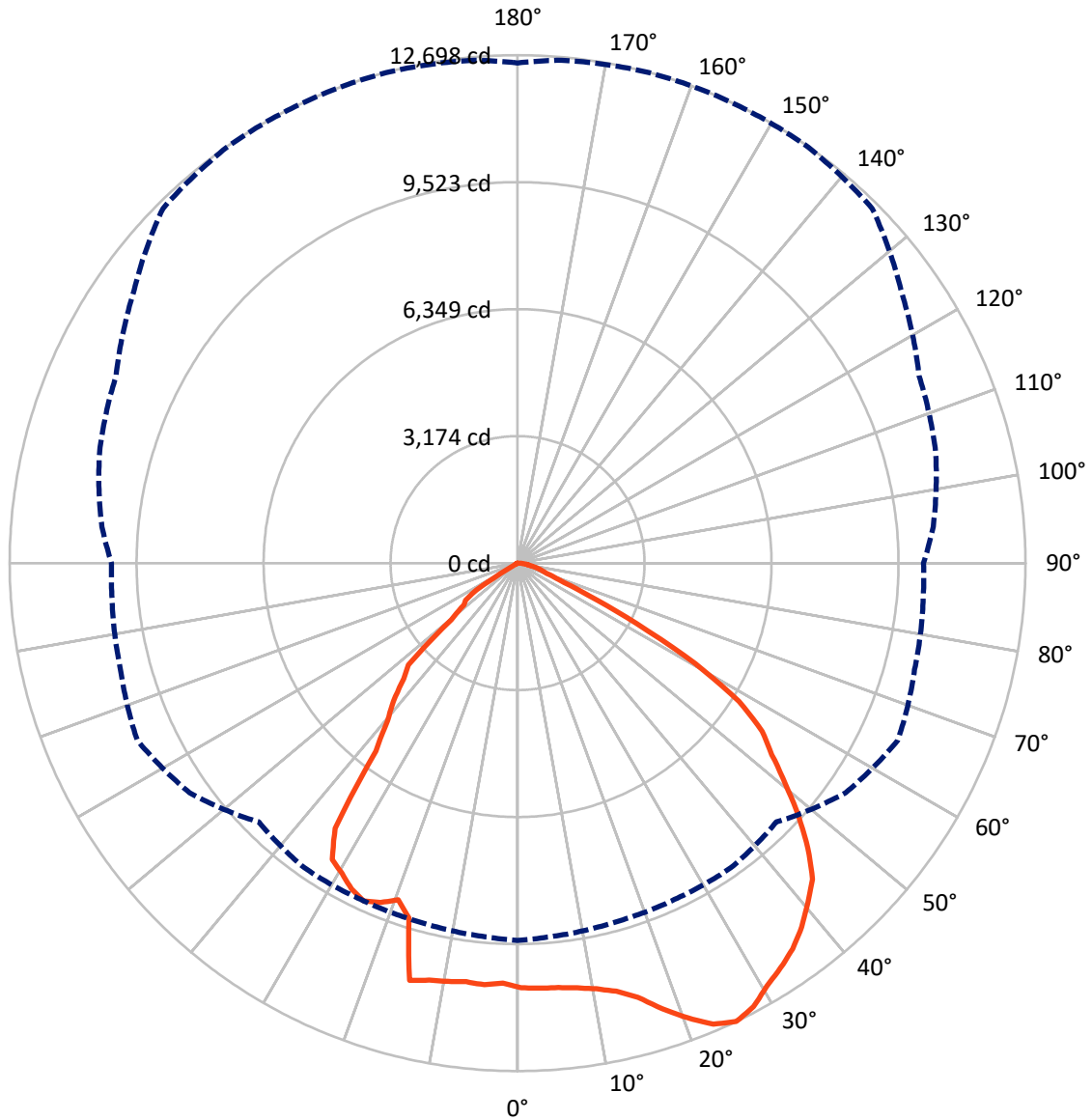
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.5 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	15231.2	0.0	15231.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9370.8	0.0	9370.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	24602.0	0.0	24602.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1018.4	4.1
10°-20°	3109.6	12.6
20°-30°	4916.2	20.0
30°-40°	5553.2	22.6
40°-50°	5200.7	21.1
50°-60°	3585.5	14.6
60°-70°	963.3	3.9
70°-80°	200.7	0.8
80°-90°	54.3	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°	24602.0	100.0
0°-180°	24602.0	100.0



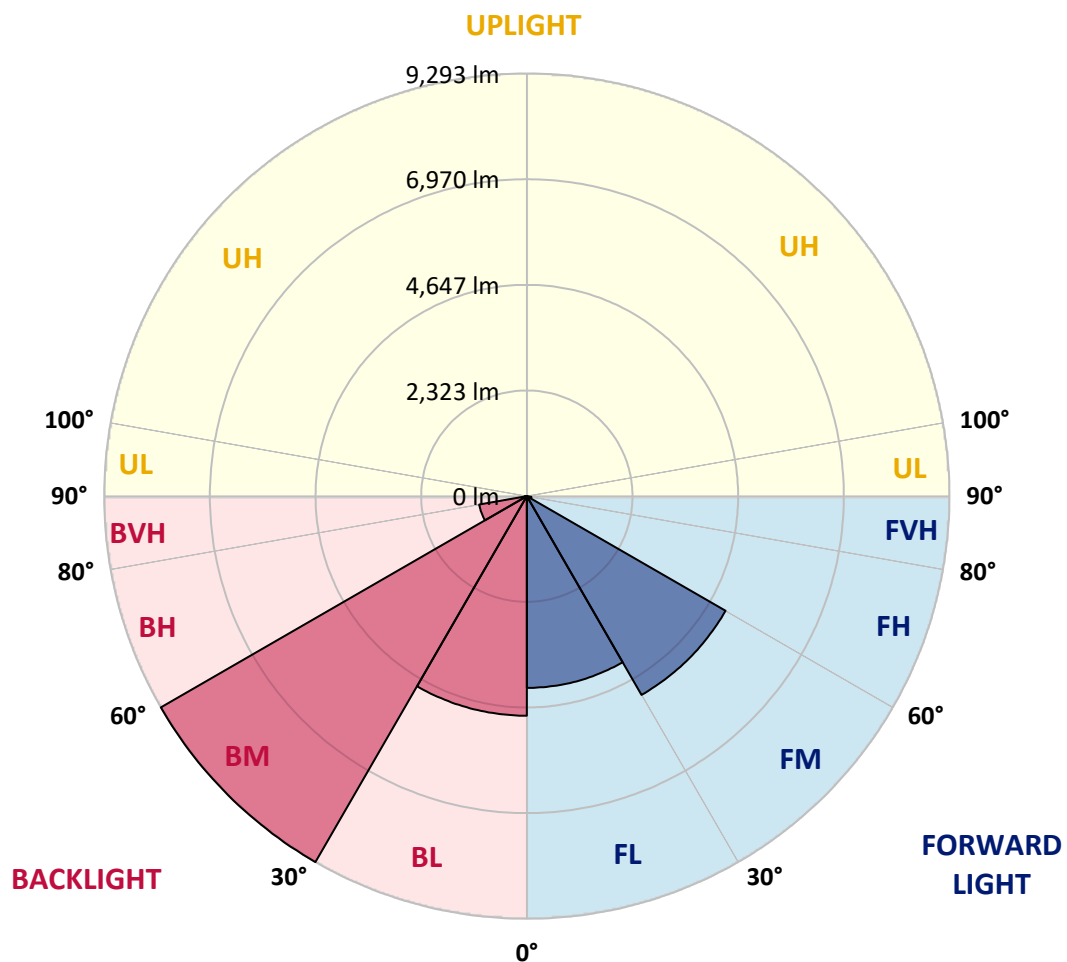
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4216.0	17.1			
FM (30°-60°)	5046.4	20.5			
FH (60°-80°)	101.1	0.4			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	4828.2	19.6	B4/5000		
BM (30°-60°)	9293.0	37.8	B5		
BH (60°-80°)	1062.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3
2.5°	10662.3	10593.6	10528.6	10506.9	10597.3	10694.9	10633.4	10637.0	10615.3	10655.1
5°	10741.9	10647.9	10604.5	10572.0	10586.4	10687.7	10600.9	10633.4	10597.3	10644.3
7.5°	10713.0	10647.9	10604.5	10543.0	10590.0	10709.3	10626.2	10629.8	10611.7	10655.1
10°	10694.9	10647.9	10593.6	10600.9	10655.1	10756.4	10691.3	10727.4	10702.1	10727.4
12.5°	10738.3	10687.7	10658.7	10658.7	10705.7	10821.4	10788.9	10821.4	10810.6	10832.3
15°	10329.7	10376.7	10651.5	10774.4	10868.4	10984.1	10969.7	11002.2	11009.4	11042.0
17.5°	8713.5	8666.5	8644.9	9277.6	10958.8	11316.8	11305.9	11302.3	11266.1	11240.8
20°	8926.9	8908.8	8883.5	8930.5	9118.5	11490.3	11562.6	11117.9	10987.7	10976.9
22.5°	9266.7	9237.8	9143.8	9147.4	9205.3	9989.8	11204.7	10799.7	10756.4	10731.0
25°	9433.0	9375.2	9299.3	9277.6	9295.7	9151.0	10007.9	10488.8	10275.5	10177.9
27.5°	9140.2	9143.8	9082.3	9140.2	9071.5	8420.7	8055.5	9881.4	9874.1	9830.8
30°	8919.6	8908.8	8836.5	8908.8	8435.1	7708.4	7552.9	9216.1	9140.2	9082.3
32.5°	8243.5	8250.8	8460.5	8742.5	7965.1	7390.2	6920.2	8232.7	8952.2	8919.6
35°	5897.0	5911.5	6656.3	8048.3	7252.9	6757.5	6721.4	7115.5	8655.7	8670.2
37.5°	5676.5	5676.5	5658.4	5886.2	6692.4	6500.8	6573.1	6533.4	7929.0	7965.1
40°	5517.4	5484.8	5459.5	5101.6	4653.3	6320.0	6370.7	6189.9	7495.1	7502.3
42.5°	5325.7	5289.6	5296.8	4635.2	4165.1	5871.7	5730.7	5488.5	6772.0	6779.2
45°	4975.0	5036.5	5079.9	4056.7	4020.5	4194.1	5286.0	5134.1	6283.9	6417.7
47.5°	2530.9	2585.1	3966.3	3731.3	3814.4	3727.7	4465.2	4468.9	5228.1	5672.8
50°	2295.9	2281.4	2285.0	2176.6	3521.6	3015.4	3228.7	4096.5	4186.8	4823.2
52.5°	2140.4	2136.8	1916.3	1702.9	2212.7	2653.8	2342.9	2964.8	3113.0	4085.6
55°	1583.6	1699.3	1511.3	1601.7	1384.8	2126.0	2115.1	2675.5	2726.1	3275.7
57.5°	14.5	18.1	43.4	1218.5	958.1	1063.0	1460.7	1825.9	1916.3	2552.6
60°	3.6	7.2	18.1	36.2	621.9	654.4	976.2	1055.7	1189.5	1522.2
62.5°	0.0	0.0	7.2	18.1	32.5	267.6	310.9	339.9	524.3	777.3
65°	0.0	0.0	3.6	10.8	18.1	43.4	75.9	159.1	227.8	282.0
67.5°	0.0	0.0	3.6	7.2	14.5	21.7	43.4	61.5	97.6	166.3
70°	0.0	0.0	3.6	7.2	10.8	18.1	28.9	43.4	57.8	83.2
72.5°	0.0	0.0	3.6	7.2	7.2	21.7	21.7	32.5	43.4	54.2
75°	0.0	0.0	3.6	3.6	7.2	14.5	21.7	25.3	28.9	43.4
77.5°	0.0	0.0	3.6	7.2	10.8	14.5	18.1	28.9	25.3	25.3
80°	0.0	0.0	3.6	10.8	10.8	18.1	21.7	28.9	18.1	18.1
82.5°	0.0	0.0	3.6	14.5	10.8	36.2	36.2	39.8	14.5	14.5
85°	0.0	0.0	10.8	7.2	21.7	36.2	32.5	21.7	18.1	10.8
87.5°	0.0	0.0	3.6	3.6	7.2	10.8	25.3	21.7	7.2	7.2
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°
10615.3	0°	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3	10615.3
10550.3	2.5°	10694.9	10647.9	10745.5	10734.7	10687.7	10666.0	10640.7	10619.0	10459.9
10557.5	5°	10698.5	10626.2	10745.5	10723.8	10716.6	10680.4	10658.7	10691.3	10546.6
10586.4	7.5°	10698.5	10626.2	10756.4	10763.6	10752.7	10723.8	10720.2	10741.9	10622.6
10637.0	10°	10770.8	10741.9	10850.4	10861.2	10846.7	10839.5	10821.4	10807.0	10680.4
10810.6	12.5°	10922.7	10864.8	10987.7	11020.3	11009.4	11027.5	10984.1	11005.8	10875.7
10987.7	15°	11107.1	11110.7	11204.7	11277.0	11269.8	11327.6	11262.5	11320.4	11226.4
11190.2	17.5°	11389.1	11428.8	11562.6	11671.1	11710.9	11754.3	11710.9	11728.9	11595.2
10966.1	20°	11092.6	11240.8	11884.4	12083.3	12166.4	12206.2	12133.9	12155.6	12021.8
10691.3	22.5°	10825.0	11016.7	11587.9	12209.8	12466.5	12546.1	12520.8	12517.1	12466.5
10148.9	25°	10430.9	10817.8	11074.5	11732.6	12538.8	12683.5	12697.9	12694.3	12618.4
9816.3	27.5°	9946.5	10033.2	10698.5	11099.8	12032.7	12582.2	12560.5	12455.7	12354.4
9125.7	30°	9328.2	9722.3	10022.4	10662.3	11378.2	12271.3	12271.3	12191.7	12086.9
8879.9	32.5°	9013.6	9523.4	9801.8	10033.2	10644.3	11924.2	12068.8	11985.6	11902.5
8688.2	35°	8847.3	8923.3	9574.1	9783.8	10300.8	11255.3	11841.0	11757.9	11696.4
8178.4	37.5°	8482.2	8659.3	8963.0	9523.4	9682.5	10709.3	11537.3	11493.9	11421.6
7516.8	40°	7668.6	8142.3	8608.7	9140.2	9306.5	10007.9	11168.5	11186.6	11089.0
6811.8	42.5°	7187.8	7509.6	8239.9	8597.8	9046.2	9556.0	10810.6	10839.5	10770.8
6453.8	45°	6623.7	6981.7	7495.1	8145.9	8756.9	8934.1	10177.9	10481.6	10423.7
5741.5	47.5°	6106.7	6396.0	7025.1	7683.1	8359.2	8333.9	9451.1	10022.4	9942.8
5195.6	50°	5372.8	5878.9	6175.4	6779.2	7788.0	7856.7	8677.4	9483.7	9418.6
4414.6	52.5°	4530.3	5166.7	5734.3	6287.5	7209.5	7372.2	7957.9	8934.1	8890.7
3373.3	55°	3959.1	4421.9	5061.8	5506.5	6508.0	6941.9	7419.2	8409.8	8388.1
2773.1	57.5°	2816.5	3709.6	4237.5	4859.3	5387.2	6171.8	6526.1	7343.2	7140.8
1536.6	60°	1909.0	2328.4	2972.0	3640.9	3995.2	4779.8	5108.8	5763.2	5709.0
918.4	62.5°	1008.7	1395.6	1854.8	2191.0	2447.7	3210.6	3348.0	4053.1	4035.0
368.8	65°	444.7	589.3	1005.1	1178.7	1442.6	1796.9	1916.3	2169.3	2107.9
180.8	67.5°	231.4	350.7	567.6	697.8	878.6	1012.4	1110.0	1189.5	1240.1
119.3	70°	141.0	256.7	350.7	484.5	603.8	712.3	788.2	896.7	961.7
61.5	72.5°	104.9	162.7	242.2	372.4	437.5	564.0	640.0	719.5	777.3
50.6	75°	57.8	108.5	195.2	292.9	350.7	459.2	527.9	582.1	600.2
28.9	77.5°	36.2	83.2	162.7	227.8	274.8	372.4	354.3	404.9	448.3
21.7	80°	25.3	61.5	126.5	188.0	191.6	238.6	282.0	325.4	354.3
14.5	82.5°	18.1	50.6	94.0	144.6	126.5	184.4	220.6	253.1	184.4
10.8	85°	14.5	36.2	47.0	86.8	72.3	130.2	112.1	108.5	72.3
7.2	87.5°	10.8	18.1	32.5	39.8	28.9	28.9	36.2	43.4	36.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10615.3
10351.4
10423.7
10485.2
10575.6
10760.0
11070.9
11479.5
11927.8
12303.8
12502.7
12274.9
12047.1
11833.8
11609.6
11349.3
11067.3
10763.6
10430.9
10000.7
9429.4
8919.6
8413.5
7119.1
5712.6
4038.6
2082.6
1240.1
965.4
788.2
589.3
455.6
357.9
133.8
72.3
36.2
0.0

(END OF REPORT)