

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: P636867

Luminaire Tested: **IFLD-S-SA6E-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636867
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24690.1 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

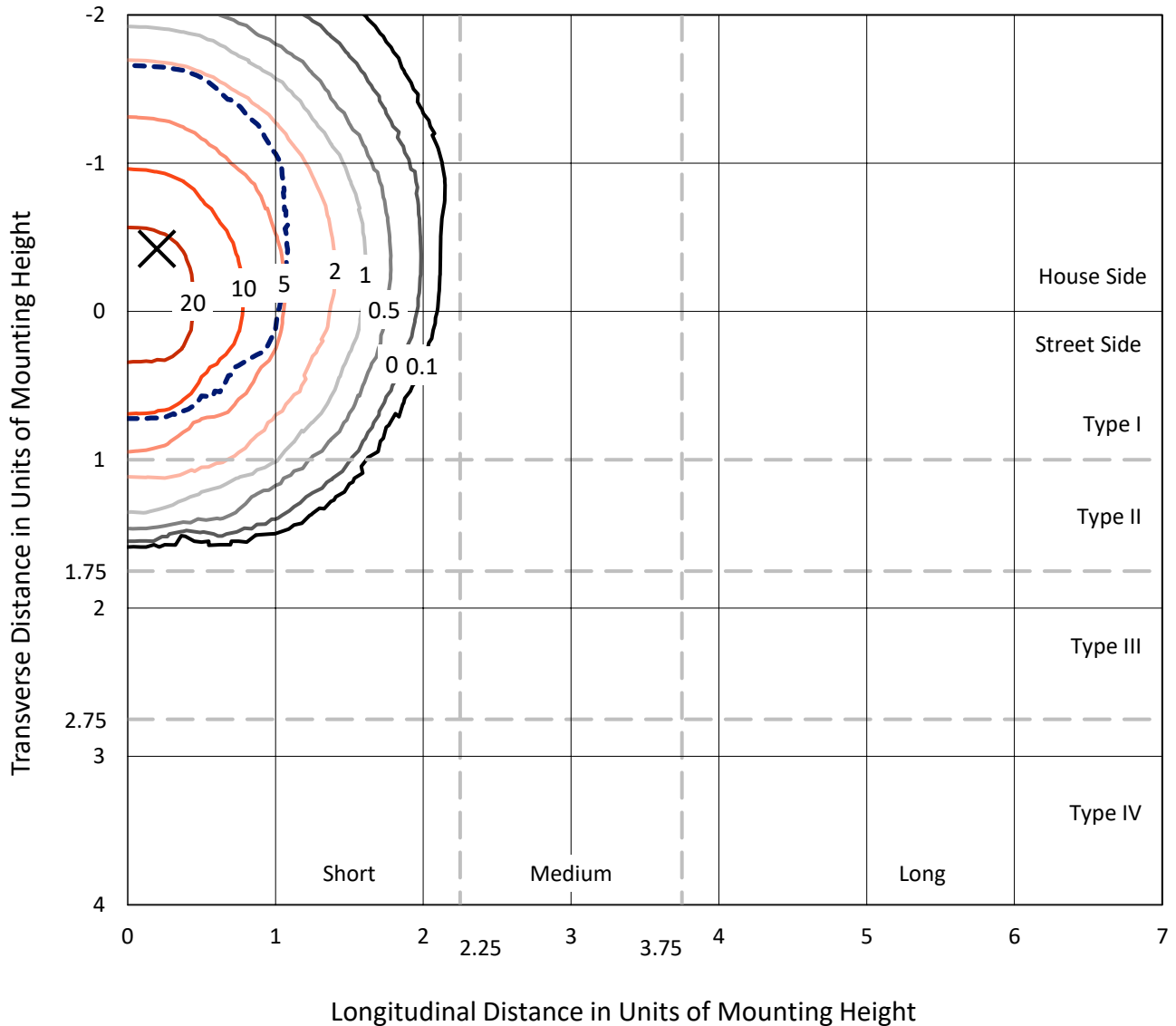
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

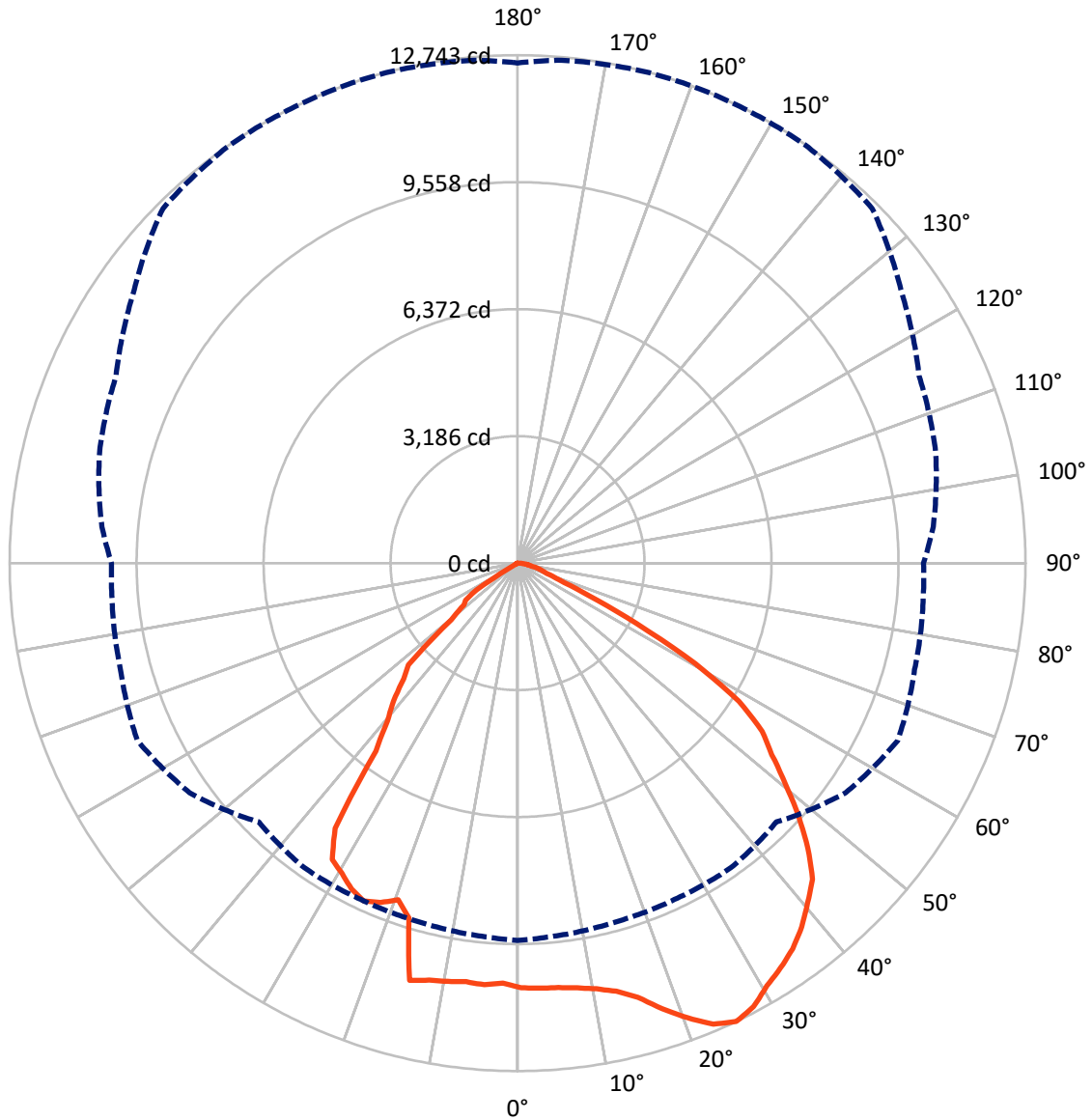
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.6 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	15285.7	0.0	15285.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9404.4	0.0	9404.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	24690.1	0.0	24690.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.0	4.1
10°-20°	3120.8	12.6
20°-30°	4933.8	20.0
30°-40°	5573.1	22.6
40°-50°	5219.3	21.1
50°-60°	3598.4	14.6
60°-70°	966.8	3.9
70°-80°	201.5	0.8
80°-90°	54.5	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°	24690.1	100.0
0°-180°	24690.1	100.0



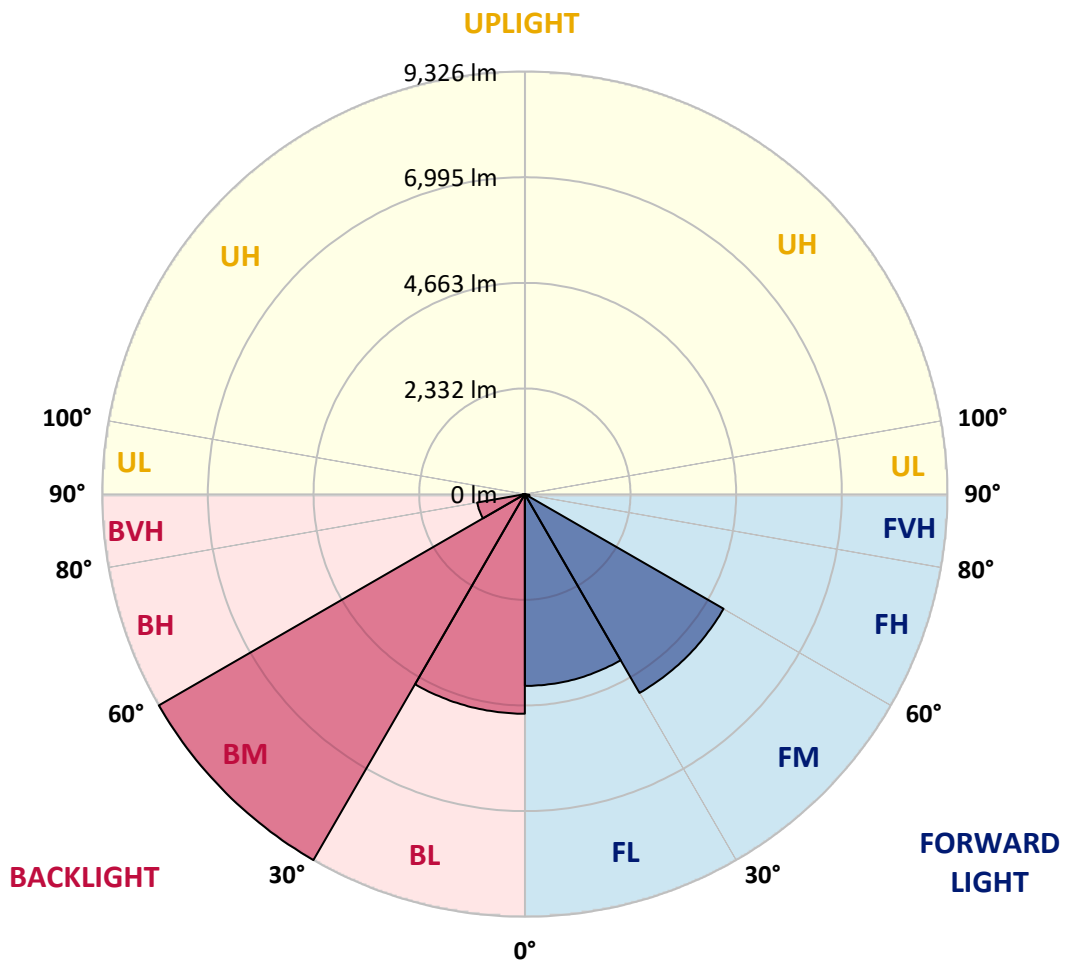
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4231.1	17.1			
FM	(30°-60°)	5064.5	20.5			
FH	(60°-80°)	101.5	0.4			G0/660
FVH	(80°-90°)	7.3	0.0			G0/10
BL	(0°-30°)	4845.5	19.6	B4/5000		
BM	(30°-60°)	9326.3	37.8	B5		
BH	(60°-80°)	1066.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	47.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4
2.5°	10700.5	10631.6	10566.3	10544.5	10635.2	10733.2	10671.5	10675.1	10653.4	10693.3
5°	10780.4	10686.0	10642.5	10609.8	10624.3	10725.9	10638.8	10671.5	10635.2	10682.4
7.5°	10751.3	10686.0	10642.5	10580.8	10628.0	10747.7	10664.2	10667.9	10649.7	10693.3
10°	10733.2	10686.0	10631.6	10638.8	10693.3	10794.9	10729.6	10765.8	10740.4	10765.8
12.5°	10776.7	10725.9	10696.9	10696.9	10744.1	10860.2	10827.5	10860.2	10849.3	10871.1
15°	10366.7	10413.9	10689.6	10813.0	10907.4	11023.5	11009.0	11041.6	11048.9	11081.5
17.5°	8744.7	8697.6	8675.8	9310.8	10998.1	11357.3	11346.4	11342.8	11306.5	11281.1
20°	8958.8	8940.7	8915.3	8962.5	9151.1	11531.5	11604.0	11157.7	11027.1	11016.2
22.5°	9299.9	9270.9	9176.5	9180.2	9238.2	10025.6	11244.8	10838.4	10794.9	10769.5
25°	9466.8	9408.8	9332.6	9310.8	9328.9	9183.8	10043.8	10526.4	10312.3	10214.3
27.5°	9172.9	9176.5	9114.9	9172.9	9104.0	8450.8	8084.4	9916.8	9909.5	9866.0
30°	8951.6	8940.7	8868.1	8940.7	8465.4	7736.0	7580.0	9249.1	9172.9	9114.9
32.5°	8273.0	8280.3	8490.8	8773.8	7993.6	7416.7	6945.0	8262.2	8984.2	8951.6
35°	5918.1	5932.6	6680.1	8077.1	7278.8	6781.7	6745.4	7140.9	8686.7	8701.2
37.5°	5696.8	5696.8	5678.6	5907.2	6716.4	6524.1	6596.7	6556.7	7957.4	7993.6
40°	5537.1	5504.5	5479.1	5119.9	4669.9	6342.7	6393.5	6212.0	7521.9	7529.2
42.5°	5344.8	5308.5	5315.8	4651.8	4180.1	5892.7	5751.2	5508.1	6796.2	6803.5
45°	4992.9	5054.5	5098.1	4071.2	4034.9	4209.1	5304.9	5152.5	6306.4	6440.6
47.5°	2540.0	2594.4	3980.5	3744.6	3828.1	3741.0	4481.2	4484.9	5246.8	5693.2
50°	2304.1	2289.6	2293.2	2184.4	3534.2	3026.2	3240.3	4111.1	4201.8	4840.5
52.5°	2148.1	2144.5	1923.1	1709.0	2220.7	2663.3	2351.3	2975.4	3124.2	4100.2
55°	1589.3	1705.4	1516.7	1607.4	1389.7	2133.6	2122.7	2685.1	2735.9	3287.4
57.5°	14.5	18.1	43.5	1222.8	961.6	1066.8	1465.9	1832.4	1923.1	2561.7
60°	3.6	7.3	18.1	36.3	624.1	656.8	979.7	1059.5	1193.8	1527.6
62.5°	0.0	0.0	7.3	18.1	32.7	268.5	312.1	341.1	526.1	780.1
65°	0.0	0.0	3.6	10.9	18.1	43.5	76.2	159.7	228.6	283.0
67.5°	0.0	0.0	3.6	7.3	14.5	21.8	43.5	61.7	98.0	166.9
70°	0.0	0.0	3.6	7.3	10.9	18.1	29.0	43.5	58.1	83.5
72.5°	0.0	0.0	3.6	7.3	7.3	21.8	21.8	32.7	43.5	54.4
75°	0.0	0.0	3.6	3.6	7.3	14.5	21.8	25.4	29.0	43.5
77.5°	0.0	0.0	3.6	7.3	10.9	14.5	18.1	29.0	25.4	25.4
80°	0.0	0.0	3.6	10.9	10.9	18.1	21.8	29.0	18.1	18.1
82.5°	0.0	0.0	3.6	14.5	10.9	36.3	36.3	39.9	14.5	14.5
85°	0.0	0.0	10.9	7.3	21.8	36.3	32.7	21.8	18.1	10.9
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	25.4	21.8	7.3	7.3
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°
10653.4	0°	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4	10653.4
10588.0	2.5°	10733.2	10686.0	10784.0	10773.1	10725.9	10704.2	10678.8	10657.0	10497.3
10595.3	5°	10736.8	10664.2	10784.0	10762.2	10755.0	10718.7	10696.9	10729.6	10584.4
10624.3	7.5°	10736.8	10664.2	10794.9	10802.1	10791.2	10762.2	10758.6	10780.4	10660.6
10675.1	10°	10809.4	10780.4	10889.2	10900.1	10885.6	10878.3	10860.2	10845.7	10718.7
10849.3	12.5°	10961.8	10903.7	11027.1	11059.8	11048.9	11067.0	11023.5	11045.2	10914.6
11027.1	15°	11146.8	11150.5	11244.8	11317.4	11310.1	11368.2	11302.9	11360.9	11266.6
11230.3	17.5°	11429.9	11469.8	11604.0	11712.9	11752.8	11796.3	11752.8	11770.9	11636.7
11005.3	20°	11132.3	11281.1	11927.0	12126.5	12210.0	12249.9	12177.3	12199.1	12064.9
10729.6	22.5°	10863.8	11056.1	11629.4	12253.5	12511.2	12591.0	12565.6	12562.0	12511.2
10185.3	25°	10468.3	10856.6	11114.2	11774.6	12583.7	12728.9	12743.4	12739.8	12663.6
9851.5	27.5°	9982.1	10069.2	10736.8	11139.6	12075.7	12627.3	12605.5	12500.3	12398.7
9158.4	30°	9361.6	9757.1	10058.3	10700.5	11419.0	12315.2	12315.2	12235.4	12130.2
8911.7	32.5°	9045.9	9557.5	9836.9	10069.2	10682.4	11966.9	12112.0	12028.6	11945.1
8719.4	35°	8879.0	8955.2	9608.3	9818.8	10337.7	11295.6	11883.4	11800.0	11738.3
8207.7	37.5°	8512.5	8690.3	8995.1	9557.5	9717.2	10747.7	11578.6	11535.1	11462.5
7543.7	40°	7696.1	8171.4	8639.5	9172.9	9339.8	10043.8	11208.5	11226.7	11128.7
6836.1	42.5°	7213.5	7536.5	8269.4	8628.6	9078.6	9590.2	10849.3	10878.3	10809.4
6476.9	45°	6647.5	7006.7	7521.9	8175.1	8788.3	8966.1	10214.3	10519.1	10461.0
5762.1	47.5°	6128.6	6418.9	7050.2	7710.6	8389.2	8363.8	9485.0	10058.3	9978.4
5214.2	50°	5392.0	5900.0	6197.5	6803.5	7815.8	7884.8	8708.5	9517.6	9452.3
4430.4	52.5°	4546.5	5185.2	5754.8	6310.0	7235.3	7398.6	7986.4	8966.1	8922.5
3385.4	55°	3973.2	4437.7	5079.9	5526.2	6531.3	6966.8	7445.7	8440.0	8418.2
2783.1	57.5°	2826.6	3722.9	4252.6	4876.7	5406.5	6193.9	6549.5	7369.5	7166.3
1542.1	60°	1915.9	2336.8	2982.6	3653.9	4009.5	4796.9	5127.1	5783.9	5729.4
921.6	62.5°	1012.4	1400.6	1861.4	2198.9	2456.5	3222.1	3360.0	4067.6	4049.4
370.1	65°	446.3	591.4	1008.7	1182.9	1447.8	1803.4	1923.1	2177.1	2115.4
181.4	67.5°	232.2	352.0	569.7	700.3	881.7	1016.0	1114.0	1193.8	1244.6
119.7	70°	141.5	257.6	352.0	486.2	606.0	714.8	791.0	899.9	965.2
61.7	72.5°	105.2	163.3	243.1	373.7	439.1	566.1	642.2	722.1	780.1
50.8	75°	58.1	108.9	195.9	293.9	352.0	460.8	529.8	584.2	602.3
29.0	77.5°	36.3	83.5	163.3	228.6	275.8	373.7	355.6	406.4	449.9
21.8	80°	25.4	61.7	127.0	188.7	192.3	239.5	283.0	326.6	355.6
14.5	82.5°	18.1	50.8	94.3	145.1	127.0	185.1	221.3	254.0	185.1
10.9	85°	14.5	36.3	47.2	87.1	72.6	130.6	112.5	108.9	72.6
7.3	87.5°	10.9	18.1	32.7	39.9	29.0	29.0	36.3	43.5	36.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10653.4
10388.5
10461.0
10522.7
10613.4
10798.5
11110.5
11520.6
11970.5
12347.9
12547.4
12318.8
12090.3
11876.2
11651.2
11389.9
11106.9
10802.1
10468.3
10036.5
9463.2
8951.6
8443.6
7144.6
5733.1
4053.1
2090.0
1244.6
968.8
791.0
591.4
457.2
359.2
134.3
72.6
36.3
0.0

(END OF REPORT)