

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: P638344

Luminaire Tested: **IFLD-S-SA6C-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25611.9 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

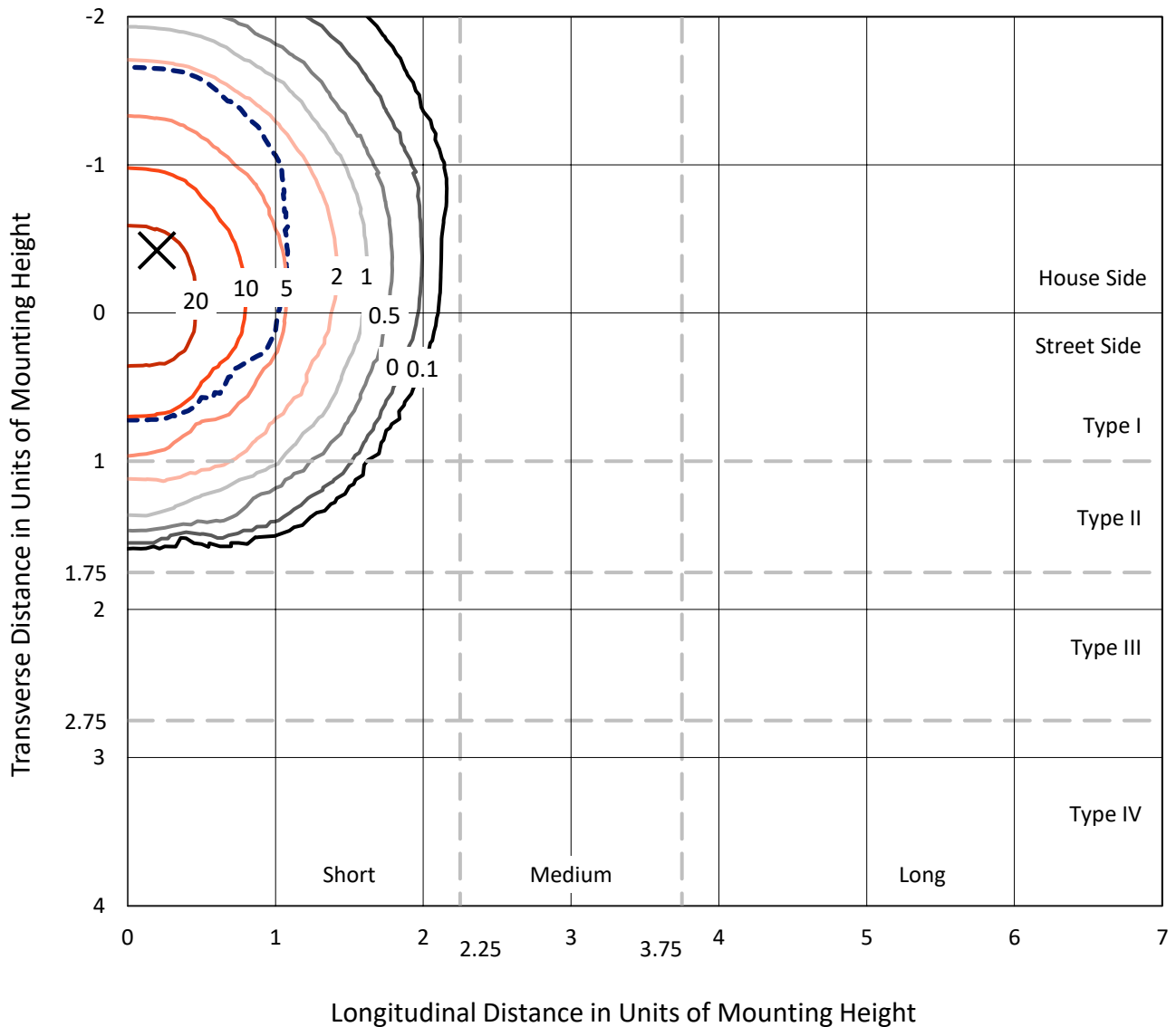
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

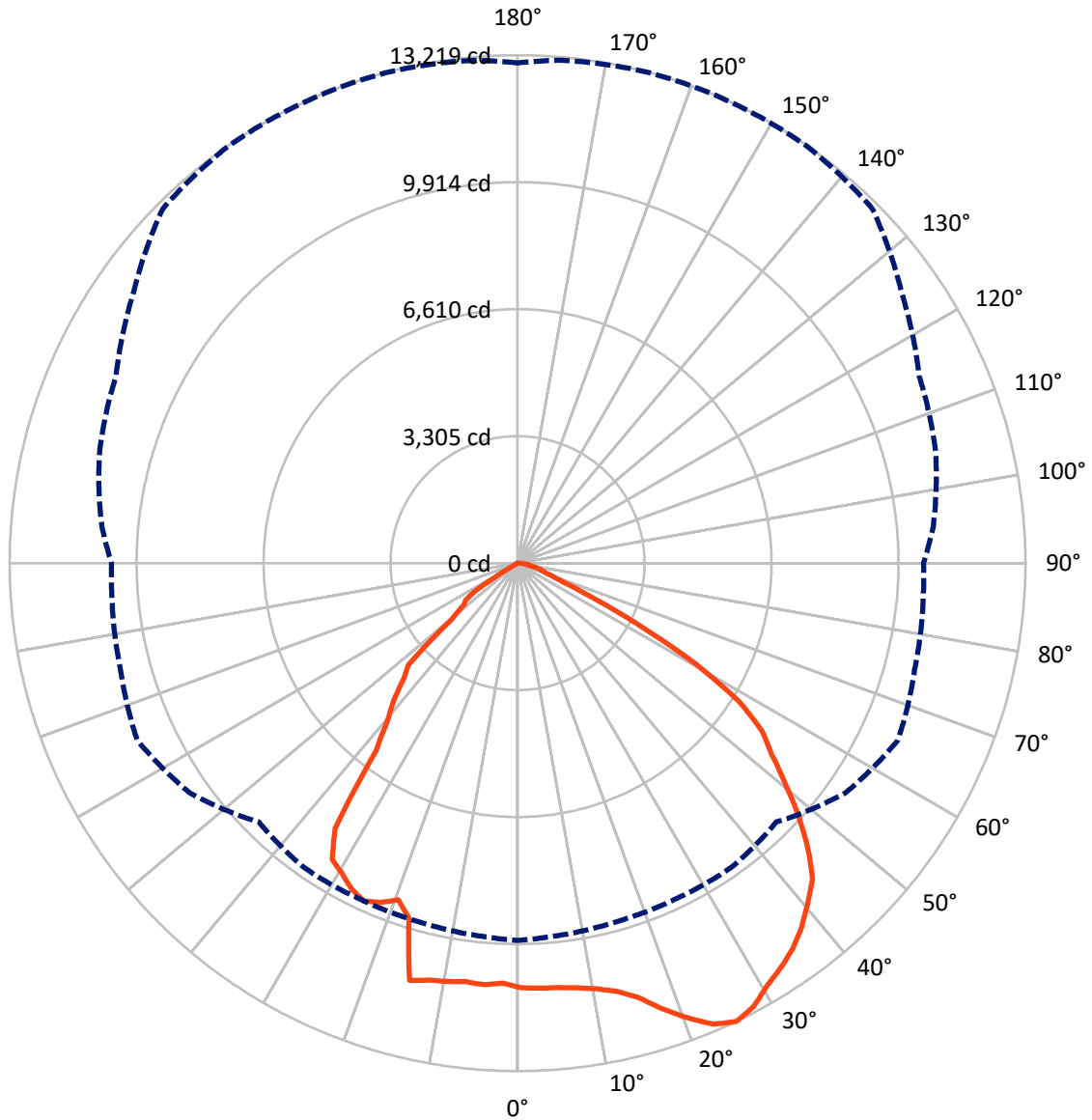
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.6 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	15856.4	0.0	15856.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9755.5	0.0	9755.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	25611.9	0.0	25611.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1060.2	4.1
10°-20°	3237.3	12.6
20°-30°	5118.0	20.0
30°-40°	5781.2	22.6
40°-50°	5414.2	21.1
50°-60°	3732.7	14.6
60°-70°	1002.8	3.9
70°-80°	209.0	0.8
80°-90°	56.5	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°	25611.9	100.0
0°-180°	25611.9	100.0



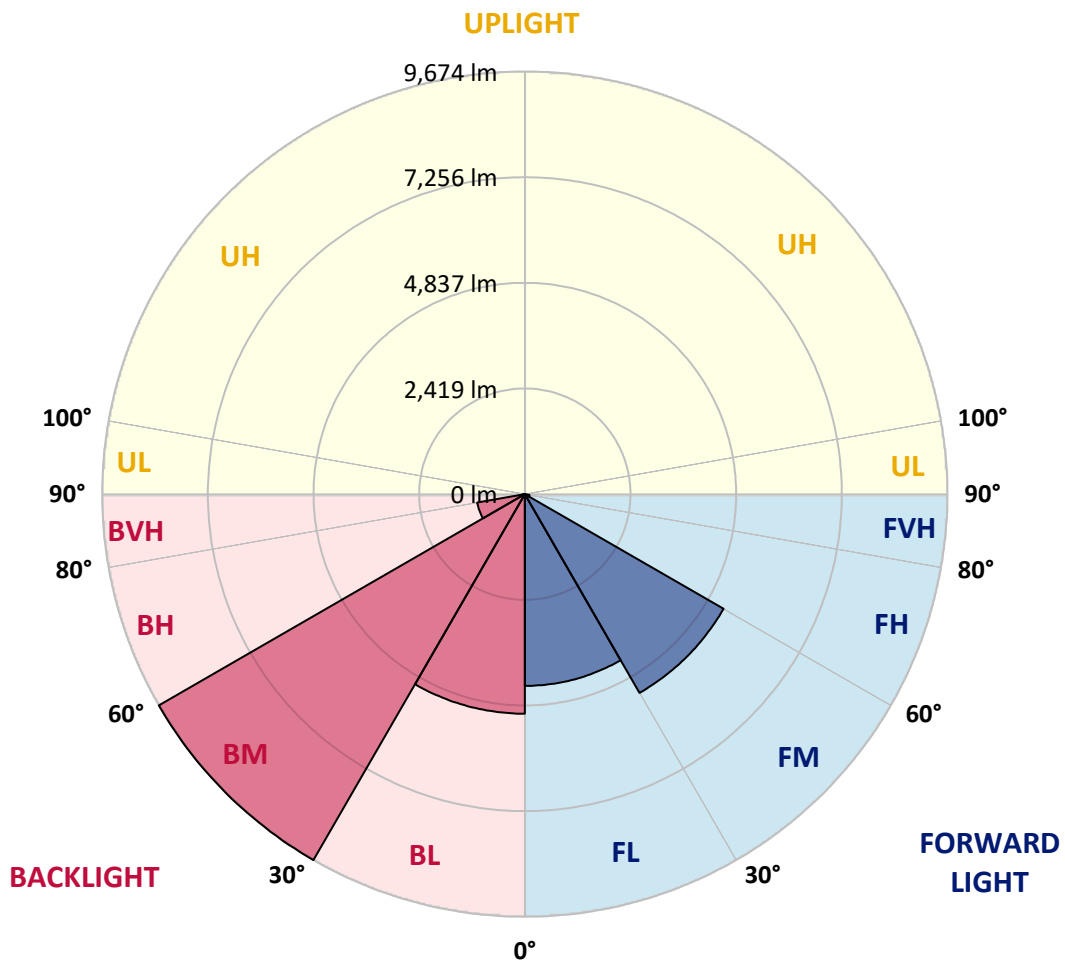
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4389.1	17.1			
FM (30°-60°)	5253.6	20.5			
FH (60°-80°)	105.3	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	5026.4	19.6	B5		
BM (30°-60°)	9674.5	37.8	B5		
BH (60°-80°)	1106.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	49.0	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°	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1
2.5°	11100.0	11028.5	10960.7	10938.1	11032.2	11133.9	11069.9	11073.6	11051.1	11092.5
5°	11182.8	11084.9	11039.8	11005.9	11021.0	11126.3	11036.0	11069.9	11032.2	11081.2
7.5°	11152.7	11084.9	11039.8	10975.8	11024.7	11148.9	11062.4	11066.1	11047.3	11092.5
10°	11133.9	11084.9	11028.5	11036.0	11092.5	11197.9	11130.1	11167.7	11141.4	11167.7
12.5°	11179.0	11126.3	11096.2	11096.2	11145.2	11265.6	11231.7	11265.6	11254.3	11276.9
15°	10753.7	10802.6	11088.7	11216.7	11314.5	11435.0	11419.9	11453.8	11461.3	11495.2
17.5°	9071.2	9022.3	8999.7	9658.4	11408.6	11781.3	11770.0	11766.2	11728.6	11702.2
20°	9293.3	9274.5	9248.1	9297.0	9492.8	11961.9	12037.2	11574.3	11438.8	11427.5
22.5°	9647.1	9617.0	9519.1	9522.9	9583.1	10399.9	11664.6	11243.0	11197.9	11171.5
25°	9820.2	9760.0	9681.0	9658.4	9677.2	9526.6	10418.7	10919.3	10697.2	10595.6
27.5°	9515.4	9519.1	9455.1	9515.4	9443.8	8766.3	8386.2	10287.0	10279.4	10234.3
30°	9285.8	9274.5	9199.2	9274.5	8781.4	8024.8	7863.0	9594.4	9515.4	9455.1
32.5°	8581.9	8589.4	8807.7	9101.3	8292.1	7693.6	7204.3	8570.6	9319.6	9285.8
35°	6139.1	6154.1	6929.5	8378.6	7550.6	7034.9	6997.3	7407.5	9011.0	9026.0
37.5°	5909.5	5909.5	5890.6	6127.8	6967.1	6767.6	6842.9	6801.5	8254.4	8292.1
40°	5743.8	5710.0	5683.6	5311.0	4844.3	6579.4	6632.1	6443.9	7802.7	7810.3
42.5°	5544.4	5506.7	5514.2	4825.4	4336.1	6112.7	5965.9	5713.7	7049.9	7057.5
45°	5179.2	5243.2	5288.4	4223.2	4185.6	4366.2	5502.9	5344.9	6541.8	6681.1
47.5°	2634.8	2691.3	4129.1	3884.4	3971.0	3880.7	4648.5	4652.3	5442.7	5905.7
50°	2390.1	2375.1	2378.8	2265.9	3666.1	3139.2	3361.2	4264.6	4358.7	5021.2
52.5°	2228.3	2224.5	1994.9	1772.8	2303.6	2762.8	2439.1	3086.5	3240.8	4253.3
55°	1648.6	1769.1	1573.3	1667.4	1441.6	2213.2	2201.9	2785.3	2838.0	3410.2
57.5°	15.1	18.8	45.2	1268.5	997.5	1106.6	1520.7	1900.8	1994.9	2657.4
60°	3.8	7.5	18.8	37.6	647.4	681.3	1016.3	1099.1	1238.4	1584.6
62.5°	0.0	0.0	7.5	18.8	33.9	278.5	323.7	353.8	545.8	809.3
65°	0.0	0.0	3.8	11.3	18.8	45.2	79.0	165.6	237.1	293.6
67.5°	0.0	0.0	3.8	7.5	15.1	22.6	45.2	64.0	101.6	173.1
70°	0.0	0.0	3.8	7.5	11.3	18.8	30.1	45.2	60.2	86.6
72.5°	0.0	0.0	3.8	7.5	7.5	22.6	22.6	33.9	45.2	56.5
75°	0.0	0.0	3.8	3.8	7.5	15.1	22.6	26.3	30.1	45.2
77.5°	0.0	0.0	3.8	7.5	11.3	15.1	18.8	30.1	26.3	26.3
80°	0.0	0.0	3.8	11.3	11.3	18.8	22.6	30.1	18.8	18.8
82.5°	0.0	0.0	3.8	15.1	11.3	37.6	37.6	41.4	15.1	15.1
85°	0.0	0.0	11.3	7.5	22.6	37.6	33.9	22.6	18.8	11.3
87.5°	0.0	0.0	3.8	3.8	7.5	11.3	26.3	22.6	7.5	7.5
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°
11051.1	0°	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1	11051.1
10983.3	2.5°	11133.9	11084.9	11186.6	11175.3	11126.3	11103.8	11077.4	11054.8	10889.2
10990.8	5°	11137.6	11062.4	11186.6	11164.0	11156.5	11118.8	11096.2	11130.1	10979.5
11021.0	7.5°	11137.6	11062.4	11197.9	11205.4	11194.1	11164.0	11160.2	11182.8	11058.6
11073.6	10°	11212.9	11182.8	11295.7	11307.0	11292.0	11284.4	11265.6	11250.6	11118.8
11254.3	12.5°	11371.0	11310.8	11438.8	11472.6	11461.3	11480.2	11435.0	11457.6	11322.1
11438.8	15°	11563.0	11566.7	11664.6	11739.9	11732.3	11792.6	11724.8	11785.0	11687.2
11649.5	17.5°	11856.6	11898.0	12037.2	12150.1	12191.6	12236.7	12191.6	12210.4	12071.1
11416.2	20°	11547.9	11702.2	12372.2	12579.2	12665.8	12707.2	12631.9	12654.5	12515.3
11130.1	22.5°	11269.4	11468.9	12063.6	12711.0	12978.2	13061.0	13034.7	13030.9	12978.2
10565.5	25°	10859.1	11261.8	11529.1	12214.1	13053.5	13204.1	13219.1	13215.4	13136.3
10219.2	27.5°	10354.7	10445.1	11137.6	11555.4	12526.5	13098.7	13076.1	12966.9	12861.5
9500.3	30°	9711.1	10121.4	10433.8	11100.0	11845.3	12775.0	12775.0	12692.2	12583.0
9244.3	32.5°	9383.6	9914.3	10204.2	10445.1	11081.2	12413.6	12564.2	12477.6	12391.0
9044.9	35°	9210.5	9289.5	9967.0	10185.3	10723.6	11717.3	12327.1	12240.5	12176.5
8514.1	37.5°	8830.3	9014.7	9330.9	9914.3	10080.0	11148.9	12010.9	11965.7	11890.4
7825.3	40°	7983.4	8476.5	8962.1	9515.4	9688.5	10418.7	11627.0	11645.8	11544.1
7091.3	42.5°	7482.8	7817.8	8578.1	8950.8	9417.5	9948.2	11254.3	11284.4	11212.9
6718.7	45°	6895.6	7268.3	7802.7	8480.3	9116.4	9300.8	10595.6	10911.8	10851.6
5977.2	47.5°	6357.4	6658.5	7313.4	7998.5	8702.3	8676.0	9839.1	10433.8	10351.0
5408.8	50°	5593.3	6120.2	6428.9	7057.5	8107.6	8179.1	9033.6	9872.9	9805.2
4595.8	52.5°	4716.3	5378.7	5969.7	6545.6	7505.4	7674.8	8284.5	9300.8	9255.6
3511.8	55°	4121.6	4603.4	5269.6	5732.6	6775.2	7226.9	7723.7	8755.0	8732.4
2887.0	57.5°	2932.1	3861.8	4411.4	5058.8	5608.3	6425.1	6794.0	7644.7	7433.9
1599.7	60°	1987.4	2424.0	3094.0	3790.3	4159.2	4976.0	5318.5	5999.8	5943.3
956.1	62.5°	1050.2	1452.9	1930.9	2281.0	2548.2	3342.4	3485.5	4219.4	4200.6
383.9	65°	463.0	613.5	1046.4	1227.1	1501.8	1870.7	1994.9	2258.4	2194.4
188.2	67.5°	240.9	365.1	590.9	726.4	914.6	1053.9	1155.5	1238.4	1291.0
124.2	70°	146.8	267.2	365.1	504.4	628.6	741.5	820.5	933.5	1001.2
64.0	72.5°	109.2	169.4	252.2	387.7	455.4	587.2	666.2	749.0	809.3
52.7	75°	60.2	112.9	203.3	304.9	365.1	478.0	549.5	606.0	624.8
30.1	77.5°	37.6	86.6	169.4	237.1	286.1	387.7	368.9	421.6	466.7
22.6	80°	26.3	64.0	131.7	195.7	199.5	248.4	293.6	338.8	368.9
15.1	82.5°	18.8	52.7	97.9	150.6	131.7	192.0	229.6	263.5	192.0
11.3	85°	15.1	37.6	48.9	90.3	75.3	135.5	116.7	112.9	75.3
7.5	87.5°	11.3	18.8	33.9	41.4	30.1	30.1	37.6	45.2	37.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11051.1
10776.3
10851.6
10915.6
11009.7
11201.6
11525.3
11950.7
12417.4
12808.8
13015.9
12778.7
12541.6
12319.5
12086.2
11815.2
11521.6
11205.4
10859.1
10411.2
9816.5
9285.8
8758.8
7411.3
5947.1
4204.4
2168.1
1291.0
1005.0
820.5
613.5
474.3
372.6
139.3
75.3
37.6
0.0

(END OF REPORT)