

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: P638356

Luminaire Tested: **IFLD-L-SA7E-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638356
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34795.7 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

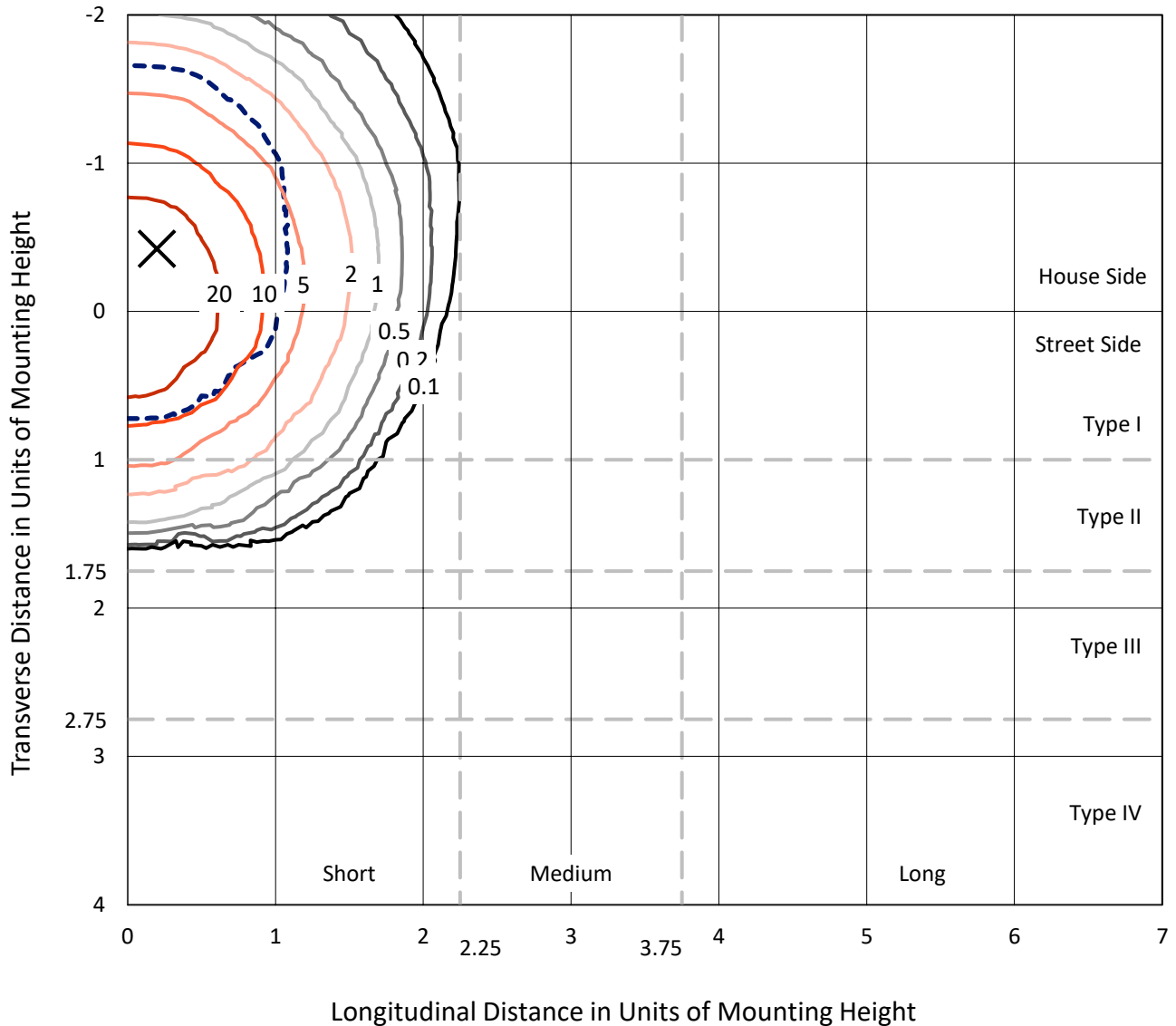
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

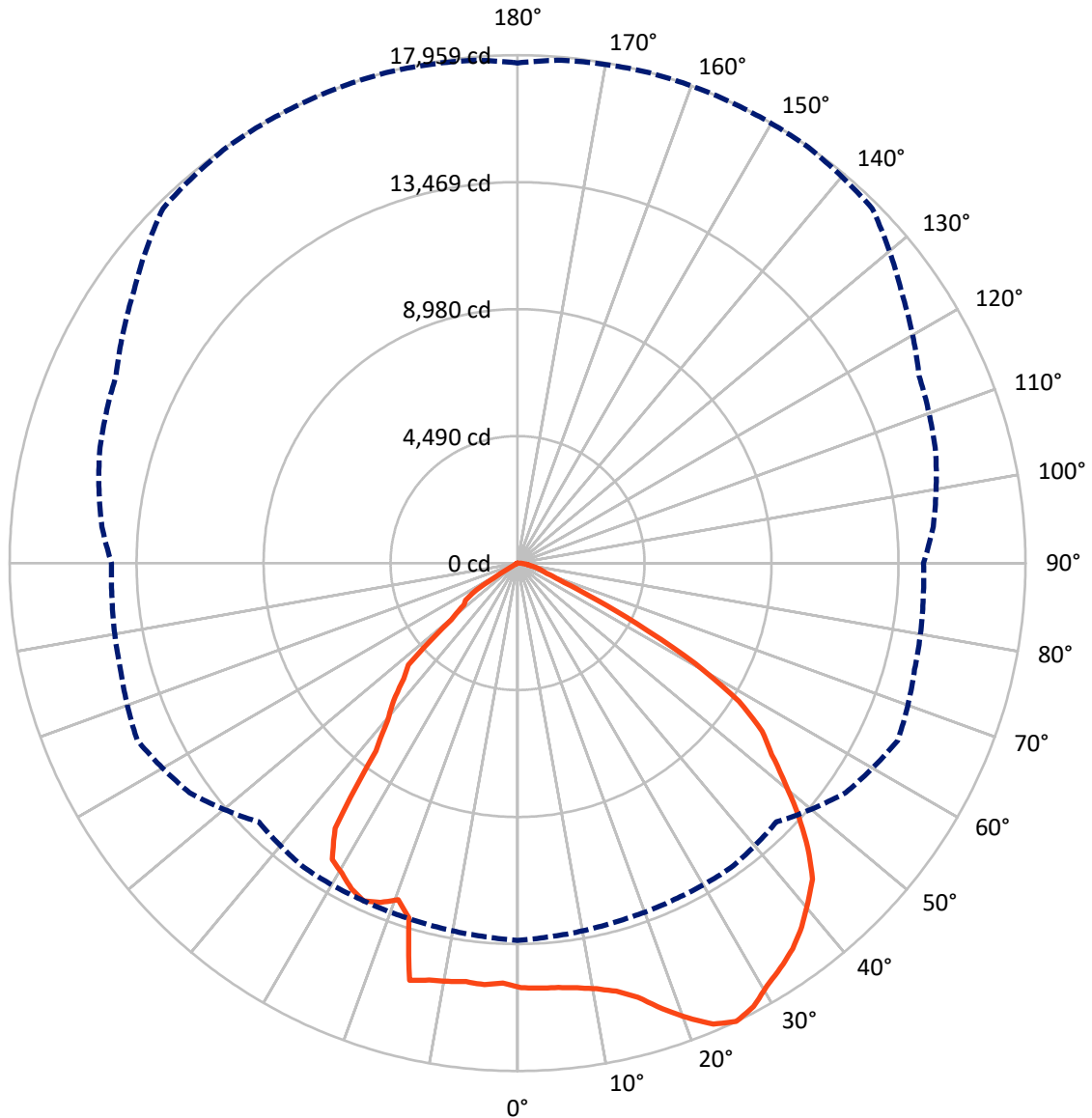
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.5 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	21542.1	0.0	21542.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	13253.6	0.0	13253.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	34795.7	0.0	34795.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1440.4	4.1
10°-20°	4398.1	12.6
20°-30°	6953.1	20.0
30°-40°	7854.2	22.6
40°-50°	7355.6	21.1
50°-60°	5071.2	14.6
60°-70°	1362.5	3.9
70°-80°	283.9	0.8
80°-90°	76.8	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°	34795.7	100.0
0°-180°	34795.7	100.0



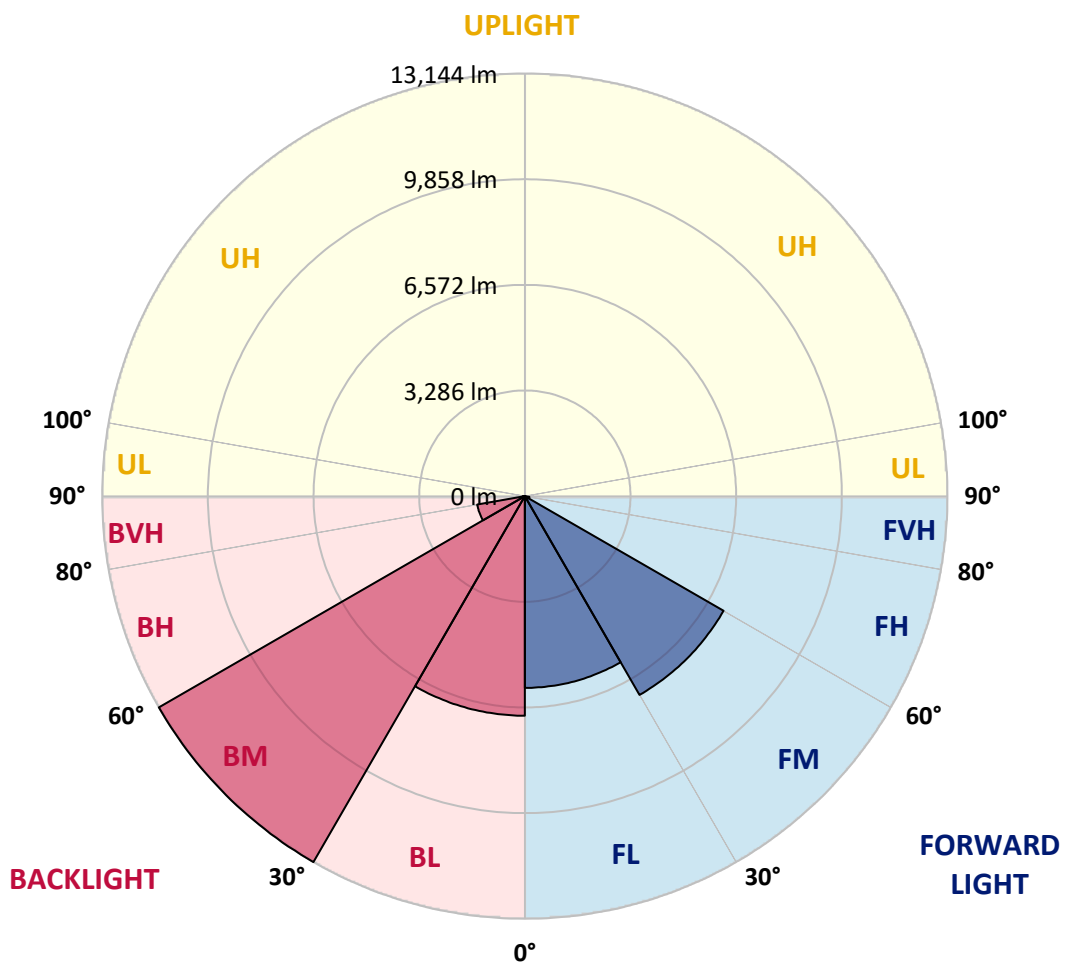
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5962.9	17.1			
FM (30°-60°)	7137.4	20.5			
FH (60°-80°)	143.0	0.4			G0/660
FVH (80°-90°)	10.3	0.0			G1/100
BL (0°-30°)	6828.7	19.6	B5		
BM (30°-60°)	13143.6	37.8	B5		
BH (60°-80°)	1503.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	66.5	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°	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7
2.5°	15080.2	14983.1	14891.0	14860.3	14988.2	15126.2	15039.3	15044.4	15013.7	15070.0
5°	15192.7	15059.8	14998.4	14952.4	14972.8	15116.0	14993.3	15039.3	14988.2	15054.7
7.5°	15151.8	15059.8	14998.4	14911.5	14977.9	15146.7	15029.1	15034.2	15008.6	15070.0
10°	15126.2	15059.8	14983.1	14993.3	15070.0	15213.2	15121.1	15172.3	15136.5	15172.3
12.5°	15187.6	15116.0	15075.1	15075.1	15141.6	15305.2	15259.2	15305.2	15289.9	15320.6
15°	14609.8	14676.2	15064.9	15238.7	15371.7	15535.3	15514.9	15560.9	15571.1	15617.2
17.5°	12324.0	12257.5	12226.8	13121.7	15499.5	16005.8	15990.5	15985.3	15934.2	15898.4
20°	12625.7	12600.1	12564.3	12630.8	12896.7	16251.3	16353.5	15724.5	15540.5	15525.1
22.5°	13106.3	13065.4	12932.5	12937.6	13019.4	14129.1	15847.3	15274.5	15213.2	15177.4
25°	13341.6	13259.8	13152.4	13121.7	13147.3	12942.7	14154.6	14834.8	14533.1	14395.0
27.5°	12927.4	12932.5	12845.5	12927.4	12830.2	11909.7	11393.3	13975.7	13965.4	13904.1
30°	12615.4	12600.1	12497.8	12600.1	11930.2	10902.4	10682.5	13034.8	12927.4	12845.5
32.5°	11659.2	11669.4	11966.0	12364.9	11265.4	10452.3	9787.6	11643.8	12661.5	12615.4
35°	8340.4	8360.9	9414.3	11383.0	10258.0	9557.5	9506.3	10063.7	12242.1	12262.6
37.5°	8028.5	8028.5	8002.9	8325.1	9465.4	9194.4	9296.7	9240.4	11214.3	11265.4
40°	7803.5	7757.4	7721.6	7215.4	6581.3	8938.7	9010.3	8754.6	10600.6	10610.9
42.5°	7532.4	7481.3	7491.5	6555.7	5891.0	8304.6	8105.2	7762.6	9577.9	9588.1
45°	7036.4	7123.3	7184.7	5737.5	5686.4	5931.9	7476.2	7261.4	8887.6	9076.8
47.5°	3579.6	3656.3	5609.7	5277.3	5394.9	5272.2	6315.4	6320.5	7394.4	8023.4
50°	3247.2	3226.7	3231.8	3078.4	4980.7	4264.8	4566.5	5793.8	5921.6	6821.6
52.5°	3027.3	3022.2	2710.2	2408.5	3129.6	3753.4	3313.7	4193.2	4402.9	5778.5
55°	2239.8	2403.4	2137.5	2265.4	1958.5	3006.8	2991.5	3784.1	3855.7	4633.0
57.5°	20.5	25.6	61.4	1723.3	1355.1	1503.4	2065.9	2582.4	2710.2	3610.3
60°	5.1	10.2	25.6	51.1	879.6	925.6	1380.7	1493.2	1682.4	2152.9
62.5°	0.0	0.0	10.2	25.6	46.0	378.4	439.8	480.7	741.5	1099.4
65°	0.0	0.0	5.1	15.3	25.6	61.4	107.4	225.0	322.2	398.9
67.5°	0.0	0.0	5.1	10.2	20.5	30.7	61.4	86.9	138.1	235.2
70°	0.0	0.0	5.1	10.2	15.3	25.6	40.9	61.4	81.8	117.6
72.5°	0.0	0.0	5.1	10.2	10.2	30.7	30.7	46.0	61.4	76.7
75°	0.0	0.0	5.1	5.1	10.2	20.5	30.7	35.8	40.9	61.4
77.5°	0.0	0.0	5.1	10.2	15.3	20.5	25.6	40.9	35.8	35.8
80°	0.0	0.0	5.1	15.3	15.3	25.6	30.7	40.9	25.6	25.6
82.5°	0.0	0.0	5.1	20.5	15.3	51.1	51.1	56.3	20.5	20.5
85°	0.0	0.0	15.3	10.2	30.7	51.1	46.0	30.7	25.6	15.3
87.5°	0.0	0.0	5.1	5.1	10.2	15.3	35.8	30.7	10.2	10.2
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°
15013.7	0°	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7	15013.7
14921.7	2.5°	15126.2	15059.8	15197.8	15182.5	15116.0	15085.3	15049.5	15018.9	14793.9
14931.9	5°	15131.4	15029.1	15197.8	15167.2	15156.9	15105.8	15075.1	15121.1	14916.6
14972.8	7.5°	15131.4	15029.1	15213.2	15223.4	15208.1	15167.2	15162.0	15192.7	15024.0
15044.4	10°	15233.6	15192.7	15346.1	15361.5	15341.0	15330.8	15305.2	15284.8	15105.8
15289.9	12.5°	15448.4	15366.6	15540.5	15586.5	15571.1	15596.7	15535.3	15566.0	15381.9
15540.5	15°	15709.2	15714.3	15847.3	15949.5	15939.3	16021.1	15929.1	16010.9	15878.0
15826.8	17.5°	16108.1	16164.3	16353.5	16506.9	16563.2	16624.6	16563.2	16588.8	16399.6
15509.8	20°	15688.7	15898.4	16808.6	17089.9	17207.5	17263.8	17161.5	17192.2	17003.0
15121.1	22.5°	15310.3	15581.4	16389.3	17268.9	17631.9	17744.4	17708.7	17703.5	17631.9
14354.1	25°	14752.9	15300.1	15663.2	16593.9	17734.2	17938.8	17959.2	17954.1	17846.7
13883.6	27.5°	14067.7	14190.4	15131.4	15699.0	17018.3	17795.6	17764.9	17616.6	17473.4
12906.9	30°	13193.3	13750.7	14175.1	15080.2	16092.7	17355.8	17355.8	17243.3	17095.0
12559.2	32.5°	12748.4	13469.4	13863.2	14190.4	15054.7	16864.9	17069.4	16951.8	16834.2
12288.2	35°	12513.2	12620.5	13541.0	13837.6	14568.9	15918.9	16747.3	16629.7	16542.7
11567.1	37.5°	11996.7	12247.2	12676.8	13469.4	13694.4	15146.7	16317.7	16256.4	16154.1
10631.3	40°	10846.1	11516.0	12175.7	12927.4	13162.6	14154.6	15796.1	15821.7	15683.6
9634.2	42.5°	10166.0	10621.1	11654.1	12160.3	12794.4	13515.4	15289.9	15330.8	15233.6
9127.9	45°	9368.2	9874.5	10600.6	11521.1	12385.3	12635.9	14395.0	14824.5	14742.7
8120.5	47.5°	8637.0	9046.1	9935.9	10866.6	11822.8	11787.0	13367.1	14175.1	14062.6
7348.3	50°	7598.9	8314.8	8734.2	9588.1	11014.9	11112.0	12272.8	13413.2	13321.1
6243.8	52.5°	6407.4	7307.4	8110.3	8892.7	10196.7	10426.8	11255.2	12635.9	12574.5
4771.1	55°	5599.5	6254.0	7159.1	7788.1	9204.6	9818.3	10493.3	11894.4	11863.7
3922.2	57.5°	3983.6	5246.6	5993.2	6872.8	7619.4	8729.0	9230.2	10385.9	10099.5
2173.3	60°	2700.0	3293.2	4203.4	5149.5	5650.6	6760.3	7225.6	8151.2	8074.5
1298.9	62.5°	1426.7	1973.9	2623.3	3098.9	3462.0	4540.9	4735.3	5732.4	5706.9
521.6	65°	629.0	833.5	1421.6	1667.1	2040.4	2541.5	2710.2	3068.2	2981.3
255.7	67.5°	327.3	496.0	802.8	986.9	1242.6	1431.8	1569.9	1682.4	1754.0
168.8	70°	199.4	363.1	496.0	685.2	854.0	1007.4	1114.8	1268.2	1360.2
86.9	72.5°	148.3	230.1	342.6	526.7	618.8	797.7	905.1	1017.6	1099.4
71.6	75°	81.8	153.4	276.1	414.2	496.0	649.4	746.6	823.3	848.9
40.9	77.5°	51.1	117.6	230.1	322.2	388.6	526.7	501.1	572.7	634.1
30.7	80°	35.8	86.9	179.0	265.9	271.0	337.5	398.9	460.2	501.1
20.5	82.5°	25.6	71.6	133.0	204.5	179.0	260.8	311.9	358.0	260.8
15.3	85°	20.5	51.1	66.5	122.7	102.3	184.1	158.5	153.4	102.3
10.2	87.5°	15.3	25.6	46.0	56.3	40.9	40.9	51.1	61.4	51.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15013.7
14640.4
14742.7
14829.7
14957.5
15218.3
15658.1
16235.9
16870.0
17401.8
17683.1
17360.9
17038.8
16737.1
16420.0
16051.8
15653.0
15223.4
14752.9
14144.4
13336.5
12615.4
11899.5
10068.8
8079.6
5712.0
2945.5
1754.0
1365.4
1114.8
833.5
644.3
506.3
189.2
102.3
51.1
0.0

(END OF REPORT)