

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: P636427

Luminaire Tested: **IFLD-S-SA3E-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636427
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14130.8 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 232.1
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

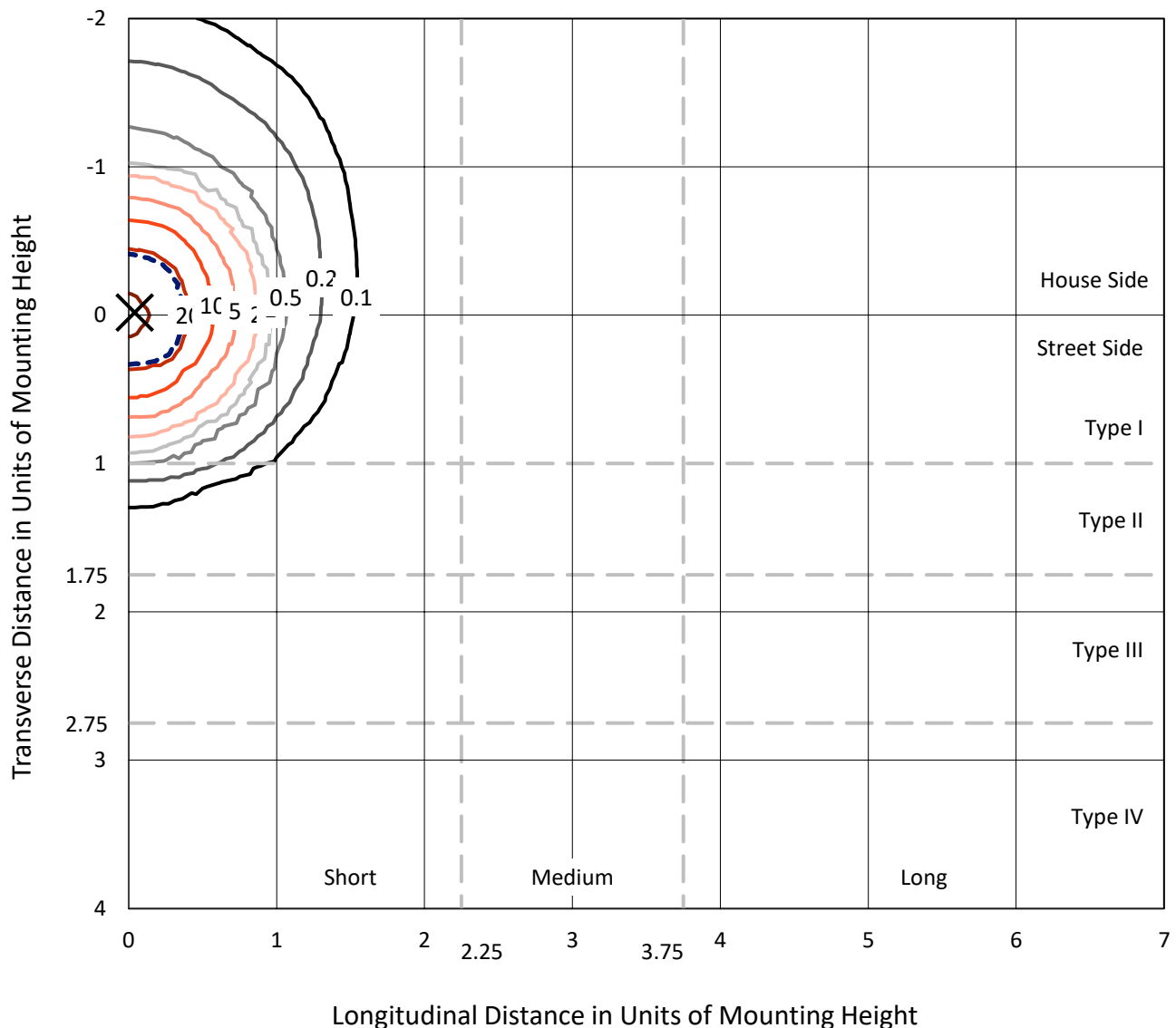


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

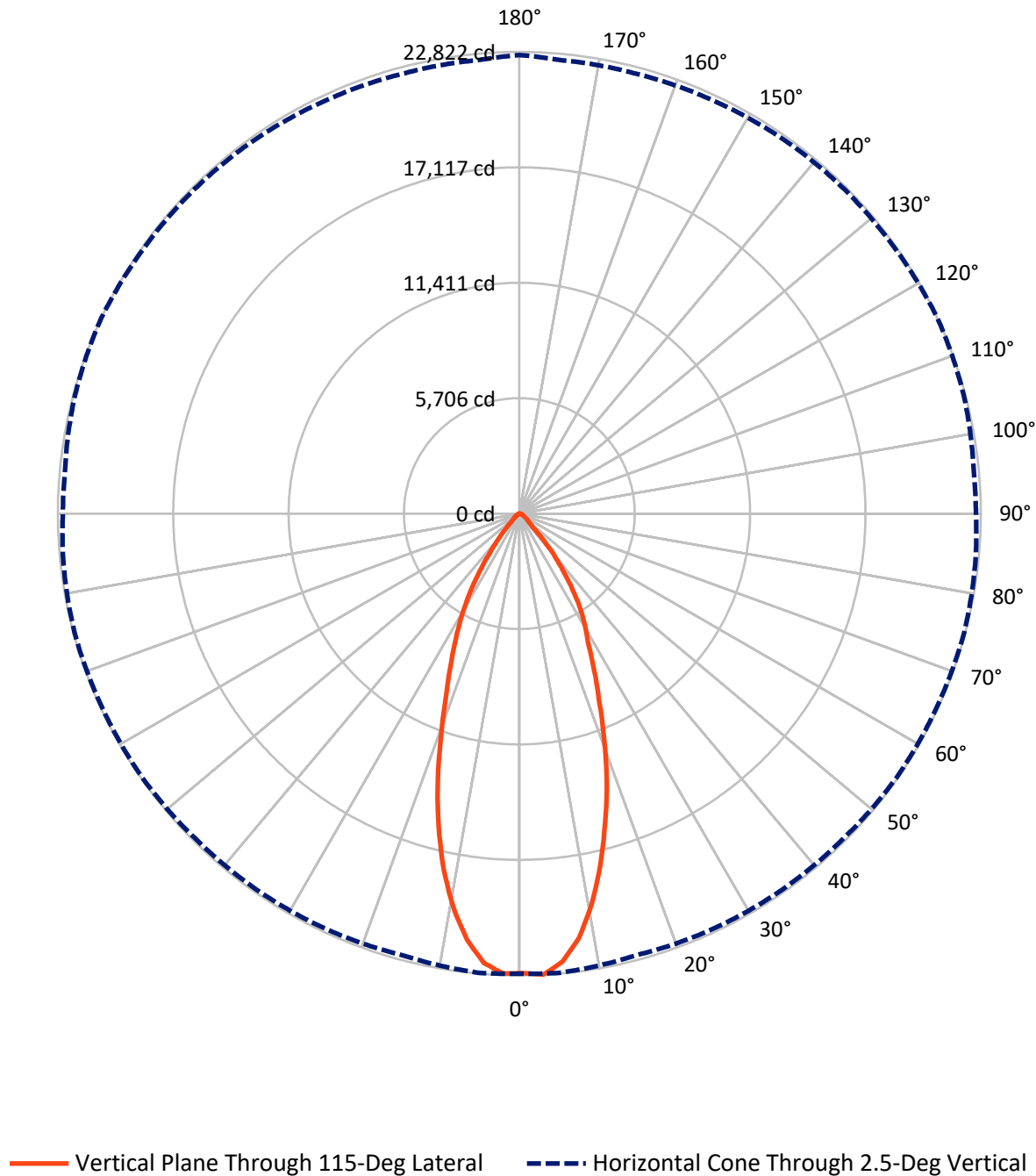


Based on 20 foot mounting height. Maximum calculated value = 56.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7798.6	0.0	7798.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6332.3	0.0	6332.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	14130.8	0.0	14130.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2037.4	14.4
10°-20°	4306.0	30.5
20°-30°	3886.4	27.5
30°-40°	2571.9	18.2
40°-50°	770.4	5.5
50°-60°	309.0	2.2
60°-70°	160.0	1.1
70°-80°	69.5	0.5
80°-90°	20.2	0.1
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°	14130.8	100.0
0°-180°	14130.8	100.0

Coefficient of Utilization



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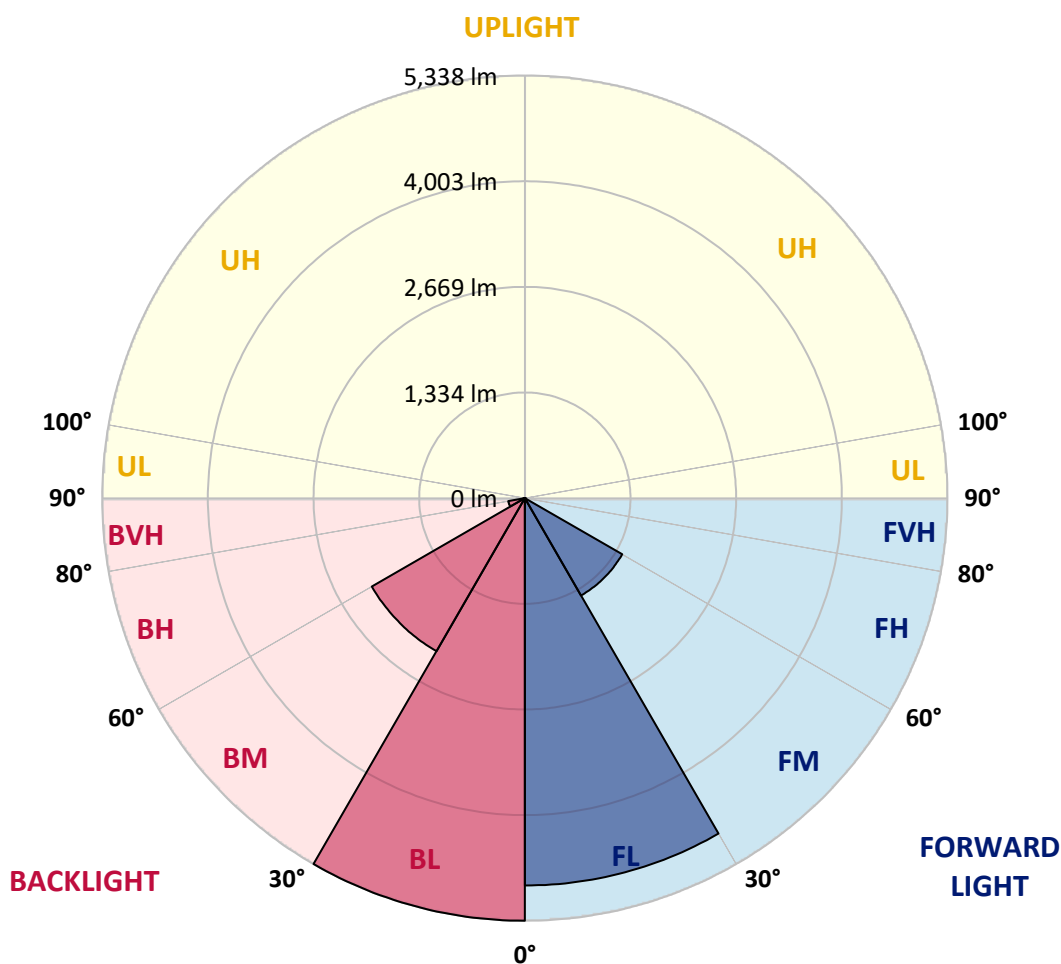
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4892.2	34.6			
FM	(30°-60°)	1419.6	10.0			
FH	(60°-80°)	17.6	0.1			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	5337.6	37.8	B5		
BM	(30°-60°)	2231.8	15.8	B2/2500		
BH	(60°-80°)	211.9	1.5	B1/500		G1/500
BVH	(80°-90°)	17.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3
2.5°	22744.2	22784.6	22582.3	22651.7	22680.6	22689.3	22761.5	22749.9	22770.2	22663.2
5°	22443.6	22365.6	22215.3	22218.2	22209.5	22128.6	22293.3	22281.8	22247.1	22119.9
7.5°	21420.6	21533.3	21250.0	21244.3	21238.5	21140.2	21357.0	21224.0	21252.9	21070.9
10°	19923.5	19938.0	19686.6	19663.4	19683.7	19556.5	19807.9	19755.9	19810.8	19620.1
12.5°	18088.4	18169.3	17891.9	17851.4	17932.3	17753.2	17955.5	17981.5	17900.6	17874.5
15°	14186.9	14400.8	14926.8	15730.2	15938.3	15788.0	15949.8	15946.9	15981.6	15785.1
17.5°	10808.5	10828.8	10704.5	11088.9	13314.2	14036.6	14071.3	13796.8	13588.7	13516.5
20°	9435.8	9505.2	9392.4	9424.2	9779.7	11898.1	11979.0	11565.7	11210.2	11181.3
22.5°	8343.4	8386.7	8305.8	8331.8	8349.2	8597.7	10005.1	9641.0	9470.5	9340.4
25°	7418.6	7418.6	7375.2	7383.9	7366.6	6999.5	7722.0	8138.2	8039.9	7993.7
27.5°	6574.7	6586.3	6531.4	6563.2	6352.2	5759.7	5673.0	6901.3	6797.2	6713.4
30°	5774.2	5811.8	5759.7	5777.1	5317.6	4832.1	4583.5	5756.8	5886.9	5863.8
32.5°	4346.5	4517.0	4936.1	4953.4	4329.2	3956.4	3846.6	4621.1	5115.3	5071.9
35°	2693.5	2684.8	2702.1	3534.4	3320.6	3066.3	3106.7	3491.1	4048.9	4028.6
37.5°	2054.8	2051.9	2083.7	1999.9	2176.2	2326.4	2358.2	2358.2	2956.5	2959.3
40°	1557.7	1546.1	1543.3	1410.3	1182.0	1745.5	1693.5	1650.2	2054.8	2098.1
42.5°	994.2	1028.8	1002.8	858.3	771.6	953.7	1063.5	1028.8	1268.7	1300.5
45°	554.9	554.9	531.8	450.8	447.9	482.6	606.9	566.4	650.2	693.6
47.5°	268.8	263.0	289.0	355.5	369.9	358.4	433.5	450.8	491.3	531.8
50°	216.7	216.7	205.2	185.0	306.3	294.8	320.8	343.9	367.0	401.7
52.5°	182.1	182.1	167.6	156.1	176.3	225.4	228.3	271.7	268.8	317.9
55°	92.5	95.4	135.8	135.8	118.5	185.0	187.8	219.6	225.4	265.9
57.5°	8.7	11.6	17.3	83.8	92.5	101.1	141.6	161.8	187.8	205.2
60°	2.9	2.9	5.8	11.6	54.9	69.4	89.6	106.9	130.0	170.5
62.5°	0.0	0.0	2.9	5.8	11.6	43.3	49.1	54.9	78.0	106.9
65°	0.0	0.0	2.9	2.9	5.8	14.4	20.2	34.7	49.1	66.5
67.5°	0.0	0.0	2.9	2.9	5.8	8.7	11.6	17.3	23.1	43.3
70°	0.0	0.0	2.9	2.9	5.8	8.7	8.7	11.6	14.4	20.2
72.5°	0.0	0.0	2.9	2.9	5.8	11.6	8.7	8.7	11.6	14.4
75°	0.0	0.0	2.9	2.9	5.8	8.7	8.7	8.7	8.7	8.7
77.5°	0.0	0.0	2.9	2.9	5.8	8.7	8.7	8.7	5.8	5.8
80°	0.0	0.0	2.9	2.9	5.8	8.7	11.6	11.6	5.8	5.8
82.5°	0.0	0.0	2.9	5.8	5.8	14.4	17.3	14.4	5.8	2.9
85°	0.0	0.0	2.9	2.9	8.7	14.4	14.4	8.7	5.8	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	8.7	8.7	2.9	2.9
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°
22715.3	0°	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3	22715.3
22576.5	2.5°	22565.0	22741.3	22822.2	22738.4	22697.9	22640.1	22556.3	22498.5	22510.1
22050.6	5°	22001.4	22186.4	22250.0	22177.7	22117.0	22085.3	22070.8	22099.7	22174.8
20992.8	7.5°	20987.1	21105.5	21174.9	21140.2	21056.4	21151.8	21177.8	21160.5	21270.3
19562.3	10°	19568.1	19698.1	19634.5	19649.0	19550.7	19599.9	19585.4	19649.0	19758.8
17854.3	12.5°	17738.7	17863.0	17813.9	17805.2	17701.1	17793.6	17735.8	17805.2	17949.7
15704.2	15°	15816.9	15894.9	15863.1	15814.0	15721.5	15753.3	15932.5	15920.9	15984.5
13473.1	17.5°	13415.3	13791.0	13996.2	14039.5	13964.4	14028.0	14155.1	14123.3	14267.8
11120.7	20°	11100.4	11479.0	11984.8	12395.1	12403.8	12412.5	12493.4	12513.6	12637.9
9343.3	22.5°	9302.9	9571.6	10114.9	10658.3	11034.0	11112.0	11103.3	11132.2	11166.9
7930.1	25°	7909.9	8106.4	8603.5	8979.2	9638.1	9857.7	9921.3	9857.7	9878.0
6684.5	27.5°	6759.7	7060.2	7225.0	7626.7	8271.1	8779.8	8759.5	8722.0	8727.7
5817.5	30°	5814.6	6138.3	6381.1	6502.5	6988.0	7722.0	7797.2	7690.2	7693.1
5051.7	32.5°	5019.9	5121.1	5479.4	5577.7	5889.8	6557.4	6814.6	6733.7	6719.2
4040.2	35°	4158.7	4213.6	4378.3	4572.0	4756.9	5262.7	5687.5	5612.3	5649.9
2970.9	37.5°	2959.3	3184.8	3343.7	3502.7	3635.6	3953.5	4465.0	4395.7	4433.2
2103.9	40°	2086.6	2187.7	2462.3	2531.6	2728.1	2875.5	3309.0	3285.9	3332.2
1306.3	42.5°	1283.2	1355.4	1494.1	1560.6	1693.5	1777.3	2031.7	2060.6	2121.2
722.5	45°	728.3	760.1	855.4	927.7	1025.9	1060.6	1150.2	1190.7	1225.4
560.7	47.5°	554.9	589.6	653.1	716.7	797.6	826.5	890.1	950.8	982.6
433.5	50°	453.7	485.5	552.0	604.0	684.9	710.9	763.0	829.4	869.9
329.5	52.5°	343.9	390.1	471.1	526.0	609.8	641.6	690.7	757.2	794.7
271.7	55°	283.2	317.9	390.1	465.3	543.3	586.7	618.5	699.4	739.8
222.5	57.5°	242.8	268.8	315.0	404.6	471.1	534.6	560.7	635.8	676.3
176.3	60°	185.0	225.4	265.9	335.2	410.4	476.8	505.7	572.2	604.0
127.2	62.5°	153.2	179.2	231.2	268.8	352.6	421.9	450.8	511.5	534.6
83.8	65°	106.9	144.5	193.6	216.7	294.8	361.2	401.7	447.9	471.1
49.1	67.5°	63.6	106.9	153.2	185.0	239.9	306.3	349.7	393.0	413.3
28.9	70°	40.5	83.8	121.4	156.1	187.8	251.4	303.4	341.0	332.3
17.3	72.5°	23.1	52.0	89.6	127.2	156.1	211.0	260.1	289.0	205.2
11.6	75°	14.4	37.6	75.1	104.0	127.2	167.6	213.9	219.6	127.2
5.8	77.5°	11.6	28.9	57.8	83.8	86.7	124.3	150.3	170.5	95.4
5.8	80°	5.8	23.1	49.1	69.4	54.9	86.7	115.6	132.9	75.1
2.9	82.5°	5.8	14.4	37.6	49.1	40.5	66.5	83.8	95.4	63.6
2.9	85°	2.9	11.6	20.2	28.9	28.9	43.3	37.6	46.2	40.5
2.9	87.5°	2.9	5.8	11.6	14.4	11.6	17.3	20.2	20.2	17.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22715.3
22666.1
22330.9
21380.1
19802.2
17975.7
15998.9
14244.7
12611.9
11103.3
9846.2
8736.4
7696.0
6753.9
5684.6
4465.0
3349.5
2190.6
1222.5
997.0
887.2
820.8
751.4
693.6
609.8
537.5
471.1
410.4
306.3
182.1
118.5
95.4
78.0
69.4
40.5
14.4
0.0

(END OF REPORT)