

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: P636677

Luminaire Tested: **IFLD-L-SA8C-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636677
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29149.1 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

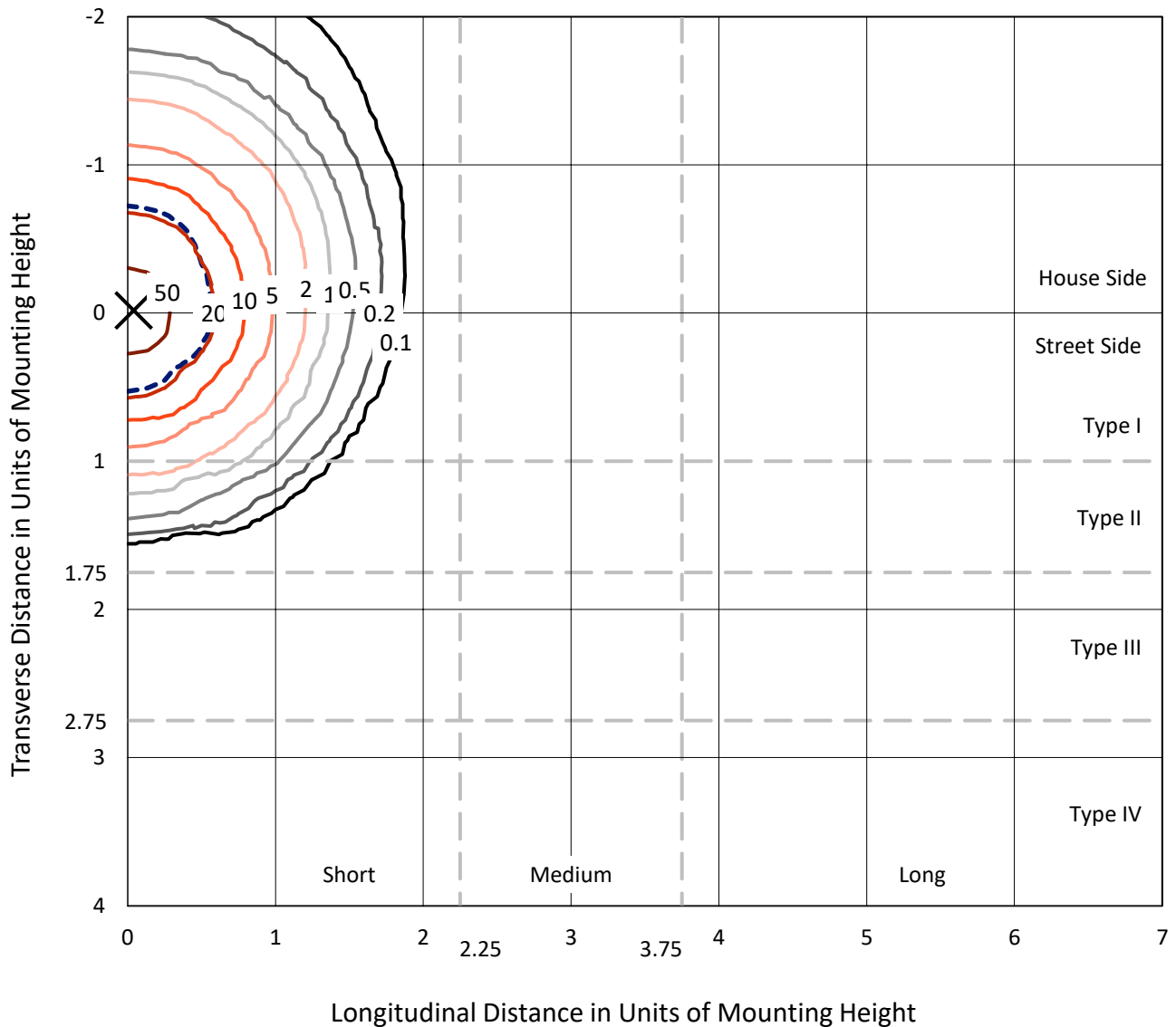
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

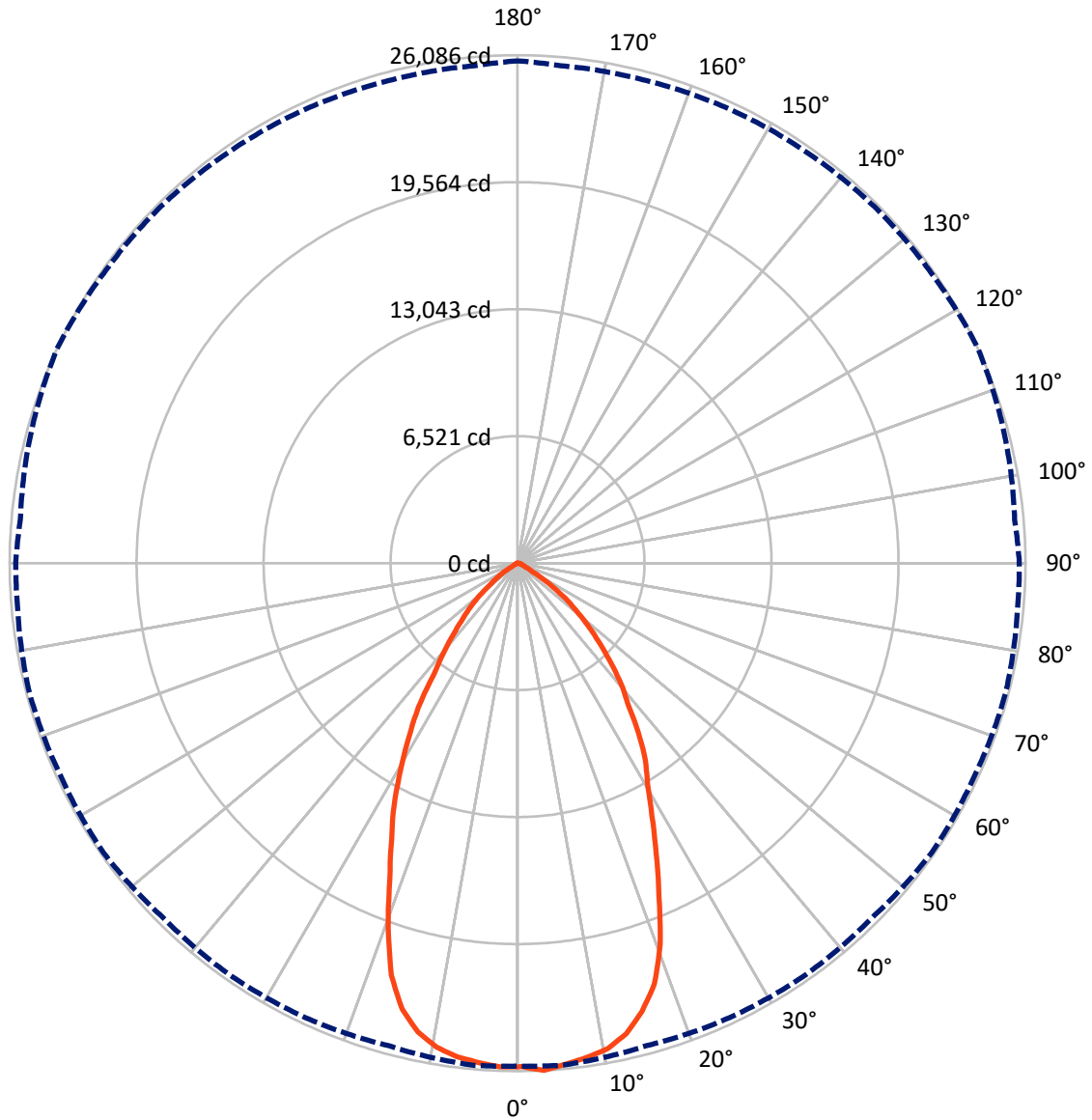
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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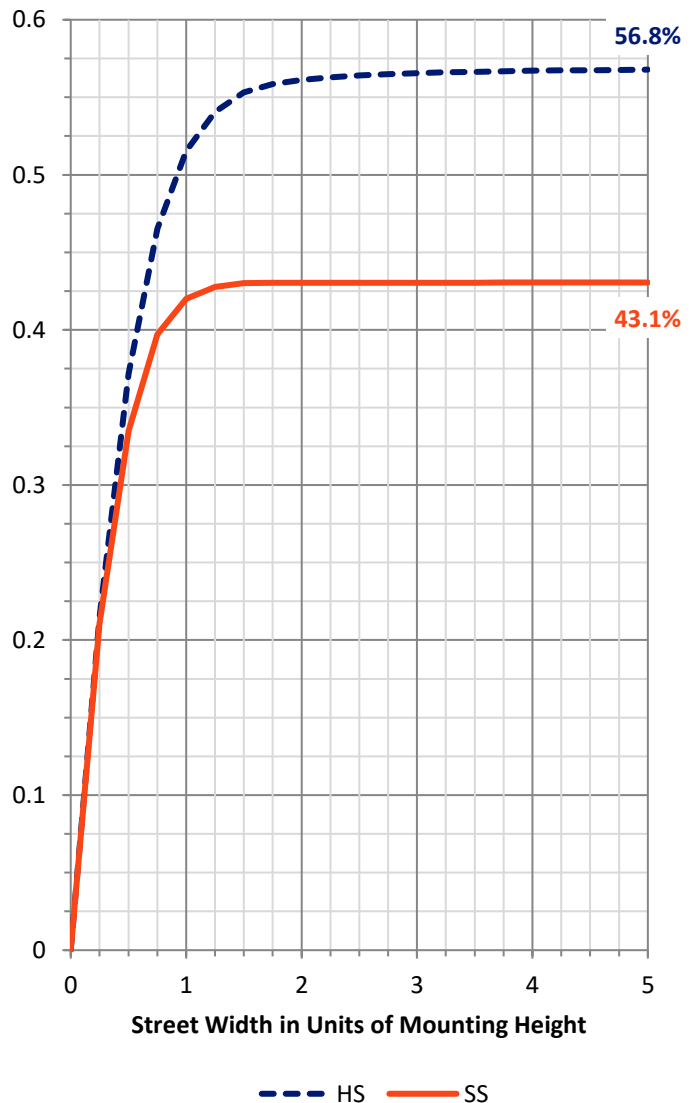
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16681.7	0.0	16681.7
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	12467.4	0.0	12467.4
	% Fixture	42.8	0.0	42.8
Total	Lumens	29149.1	0.0	29149.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2435.9	8.4
10°-20°	6458.8	22.2
20°-30°	7387.6	25.3
30°-40°	6330.9	21.7
40°-50°	4186.3	14.4
50°-60°	1826.7	6.3
60°-70°	358.9	1.2
70°-80°	129.5	0.4
80°-90°	34.4	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°	29149.1	100.0
0°-180°	29149.1	100.0



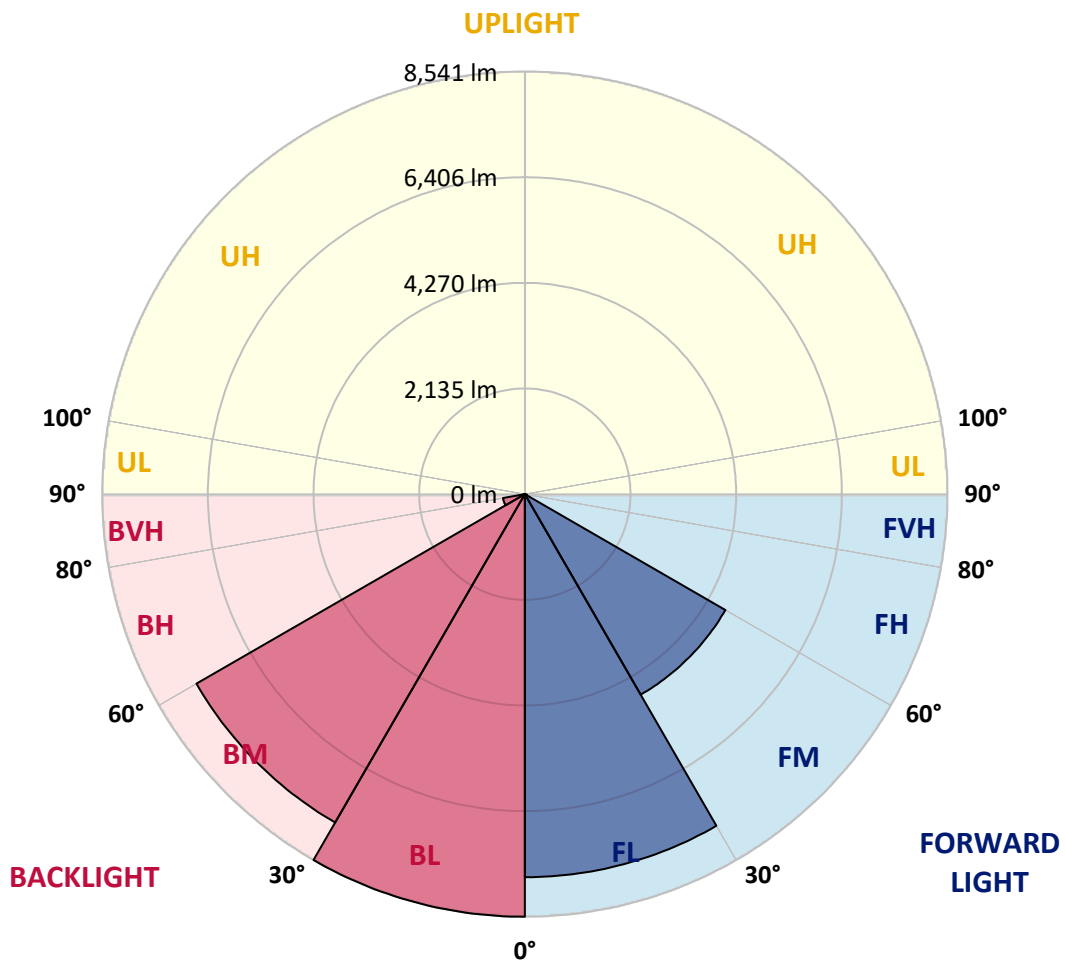
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7741.4	26.6			
FM (30°-60°)	4680.7	16.1			
FH (60°-80°)	39.6	0.1			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	8541.0	29.3	B5		
BM (30°-60°)	7663.2	26.3	B4/8500		
BH (60°-80°)	448.8	1.5	B1/500		G1/500
BVH (80°-90°)	28.7	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°	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6
2.5°	25825.4	25887.4	25651.9	25757.2	25800.6	25744.9	25949.3	25887.4	25936.9	25782.0
5°	25825.4	25887.4	25614.7	25664.3	25676.7	25571.4	25794.4	25720.1	25726.3	25565.2
7.5°	25664.3	25738.7	25490.8	25528.0	25534.2	25447.4	25639.5	25534.2	25497.0	25329.7
10°	25230.6	25274.0	25050.9	25143.8	25230.6	25150.0	25317.3	25199.6	25199.6	25050.9
12.5°	24542.8	24623.4	24375.5	24487.0	24561.4	24468.5	24660.5	24617.2	24623.4	24474.7
15°	23291.2	23012.4	23309.8	23532.8	23539.0	23520.5	23700.1	23656.8	23687.7	23464.7
17.5°	17206.6	17138.5	17485.4	20118.8	22076.8	22343.2	22374.2	22138.7	22033.4	21816.5
20°	15942.6	15992.2	15917.8	15930.2	17473.0	20676.4	20484.4	19901.9	19635.5	19418.6
22.5°	15019.4	14938.8	14889.3	14858.3	14901.7	16989.7	18371.5	17491.6	17349.1	17243.8
25°	14015.6	13978.4	13916.5	13904.1	13879.3	13526.1	15515.1	15595.6	15366.4	15236.2
27.5°	13080.0	13055.2	12987.1	12980.9	12695.8	11840.8	12057.6	13972.2	13910.3	13860.7
30°	12082.4	12032.9	11995.7	11995.7	11134.4	10254.6	9901.4	12181.6	12181.6	12138.2
32.5°	10998.1	10954.7	10967.1	10818.4	9789.9	8984.4	8426.7	10514.8	11165.4	11128.2
35°	6722.8	6710.4	7968.2	9622.6	8414.3	7683.2	7646.0	8996.8	9944.8	10043.9
37.5°	5985.4	5948.3	5966.9	6072.2	7206.1	6914.9	6902.5	7131.7	8463.9	8513.5
40°	5372.0	5347.2	5328.7	4950.7	4591.3	6171.3	6128.0	5979.3	7230.9	7317.6
42.5°	4789.6	4764.8	4764.8	4231.9	3649.5	5074.6	5093.2	4919.7	6097.0	6128.0
45°	4188.6	4170.0	4064.7	3376.9	3209.6	3370.7	4219.6	4021.3	4839.2	5161.4
47.5°	1976.6	1964.2	2844.0	2806.8	2794.4	2695.3	3222.0	3333.5	3841.6	4163.8
50°	1586.2	1573.8	1499.5	1319.8	2298.8	2044.7	2323.5	2565.2	2726.3	3023.7
52.5°	1313.6	1301.2	1146.3	1016.2	1276.4	1493.3	1387.9	1716.3	1710.1	2032.3
55°	861.3	799.3	879.8	830.3	669.2	1084.3	1059.5	1301.2	1270.2	1549.0
57.5°	18.6	18.6	43.4	470.9	421.3	458.5	607.2	743.5	836.5	917.0
60°	6.2	6.2	12.4	24.8	173.5	192.1	235.5	272.6	384.2	477.1
62.5°	0.0	0.0	6.2	12.4	24.8	99.1	111.5	130.1	179.7	247.8
65°	0.0	0.0	0.0	6.2	12.4	24.8	37.2	80.5	111.5	142.5
67.5°	0.0	0.0	0.0	6.2	6.2	12.4	24.8	37.2	49.6	99.1
70°	0.0	0.0	0.0	6.2	6.2	12.4	18.6	24.8	37.2	49.6
72.5°	0.0	0.0	0.0	6.2	6.2	18.6	12.4	18.6	24.8	31.0
75°	0.0	0.0	0.0	6.2	6.2	6.2	12.4	18.6	18.6	24.8
77.5°	0.0	0.0	0.0	6.2	12.4	12.4	12.4	12.4	12.4	18.6
80°	0.0	0.0	0.0	6.2	6.2	12.4	18.6	24.8	12.4	12.4
82.5°	0.0	0.0	0.0	12.4	6.2	24.8	37.2	31.0	12.4	6.2
85°	0.0	0.0	0.0	6.2	24.8	31.0	31.0	18.6	6.2	6.2
87.5°	0.0	0.0	0.0	6.2	6.2	12.4	18.6	18.6	6.2	6.2
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°
25862.6	0°	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6	25862.6
25769.6	2.5°	25627.1	25868.8	26085.6	25949.3	25899.8	25800.6	25726.3	25645.7	25639.5
25546.6	5°	25404.1	25633.3	25844.0	25682.9	25695.3	25645.7	25596.2	25577.6	25590.0
25317.3	7.5°	25212.0	25404.1	25633.3	25497.0	25534.2	25503.2	25478.4	25441.2	25497.0
25019.9	10°	24920.8	25094.3	25360.7	25230.6	25212.0	25181.0	25156.2	25088.1	25119.0
24480.8	12.5°	24282.6	24499.4	24803.0	24654.3	24703.9	24617.2	24580.0	24536.6	24542.8
23545.2	15°	23415.1	23582.4	23892.2	23774.5	23811.7	23755.9	23755.9	23755.9	23799.3
21847.5	17.5°	21903.3	22244.1	22733.5	22584.8	22640.6	22653.0	22640.6	22684.0	22739.7
19431.0	20°	19443.4	20025.8	20918.1	21209.3	21327.0	21333.2	21246.5	21351.8	21463.3
17169.4	22.5°	17181.8	17795.2	18582.1	19381.4	19877.1	19852.4	19864.7	19932.9	20050.6
15155.7	25°	15223.9	15812.5	16525.0	17237.6	18321.9	18545.0	18551.2	18613.1	18706.1
13780.2	27.5°	13811.1	14040.4	14691.0	15409.7	16574.6	17287.2	17250.0	17305.7	17404.9
12057.6	30°	12107.2	12987.1	13135.8	13575.7	14579.5	15886.8	15893.0	15955.0	16054.1
11041.5	32.5°	11010.5	11592.9	12051.4	12063.8	12918.9	14263.5	14529.9	14591.9	14660.0
9988.1	35°	9981.9	10050.1	10669.7	10843.2	11338.9	12671.1	13142.0	13179.1	13290.7
8494.9	37.5°	8637.4	9040.1	9213.6	9833.2	9858.0	10936.1	11871.8	11834.6	11921.3
7311.4	40°	7404.4	7788.5	8228.4	8680.8	8742.7	9548.2	10583.0	10620.1	10657.3
6066.0	42.5°	6115.6	6605.1	7057.4	7361.0	7782.3	8247.0	9232.2	9405.7	9492.4
5198.5	45°	5291.5	5427.8	5966.9	6413.0	6840.5	7057.4	7980.6	8296.6	8352.4
4114.2	47.5°	4170.0	4628.5	4994.1	5372.0	5904.9	6097.0	6766.2	7206.1	7249.5
3054.7	50°	3222.0	3550.4	4052.3	4393.0	5012.7	5118.0	5576.5	6146.5	6202.3
2044.7	52.5°	2305.0	2751.1	3240.6	3569.0	4163.8	4300.1	4640.9	5186.1	5223.3
1567.6	55°	1654.4	1945.6	2348.3	2819.2	3253.0	3556.6	3792.0	4312.5	4362.1
1028.6	57.5°	1127.7	1400.3	1567.6	2038.5	2298.8	2627.2	2819.2	3215.8	3253.0
489.5	60°	539.1	669.2	799.3	1034.8	1202.0	1480.9	1604.8	1765.9	1809.3
297.4	62.5°	347.0	408.9	520.5	619.6	780.7	954.2	1003.8	1140.1	1189.7
185.9	65°	229.3	291.2	408.9	433.7	594.8	731.1	793.1	892.2	948.0
111.5	67.5°	130.1	204.5	303.6	359.4	470.9	601.0	669.2	755.9	805.5
74.4	70°	86.7	167.3	241.6	297.4	371.8	483.3	570.0	644.4	675.4
37.2	72.5°	49.6	105.3	167.3	235.5	297.4	402.7	483.3	545.3	359.4
24.8	75°	31.0	80.5	142.5	198.3	247.8	322.2	390.4	384.2	161.1
18.6	77.5°	24.8	62.0	123.9	167.3	204.5	223.1	278.8	316.0	123.9
12.4	80°	18.6	49.6	111.5	142.5	80.5	161.1	216.9	235.5	86.7
12.4	82.5°	12.4	31.0	92.9	99.1	55.8	117.7	173.5	154.9	62.0
6.2	85°	6.2	18.6	31.0	55.8	49.6	55.8	43.4	62.0	43.4
6.2	87.5°	6.2	12.4	24.8	24.8	24.8	18.6	24.8	24.8	24.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25862.6
25788.2
25744.9
25651.9
25267.8
24722.5
23817.9
22925.6
21537.7
20069.2
18867.2
17497.8
16227.6
14814.9
13408.4
12026.7
10775.0
9616.4
8488.7
7354.8
6282.9
5291.5
4405.4
3327.3
1858.8
1202.0
948.0
799.3
669.2
291.2
161.1
123.9
92.9
62.0
43.4
24.8
0.0

(END OF REPORT)