

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: P636610

Luminaire Tested: **IFLD-M-SA4D-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636610
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15941.5 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

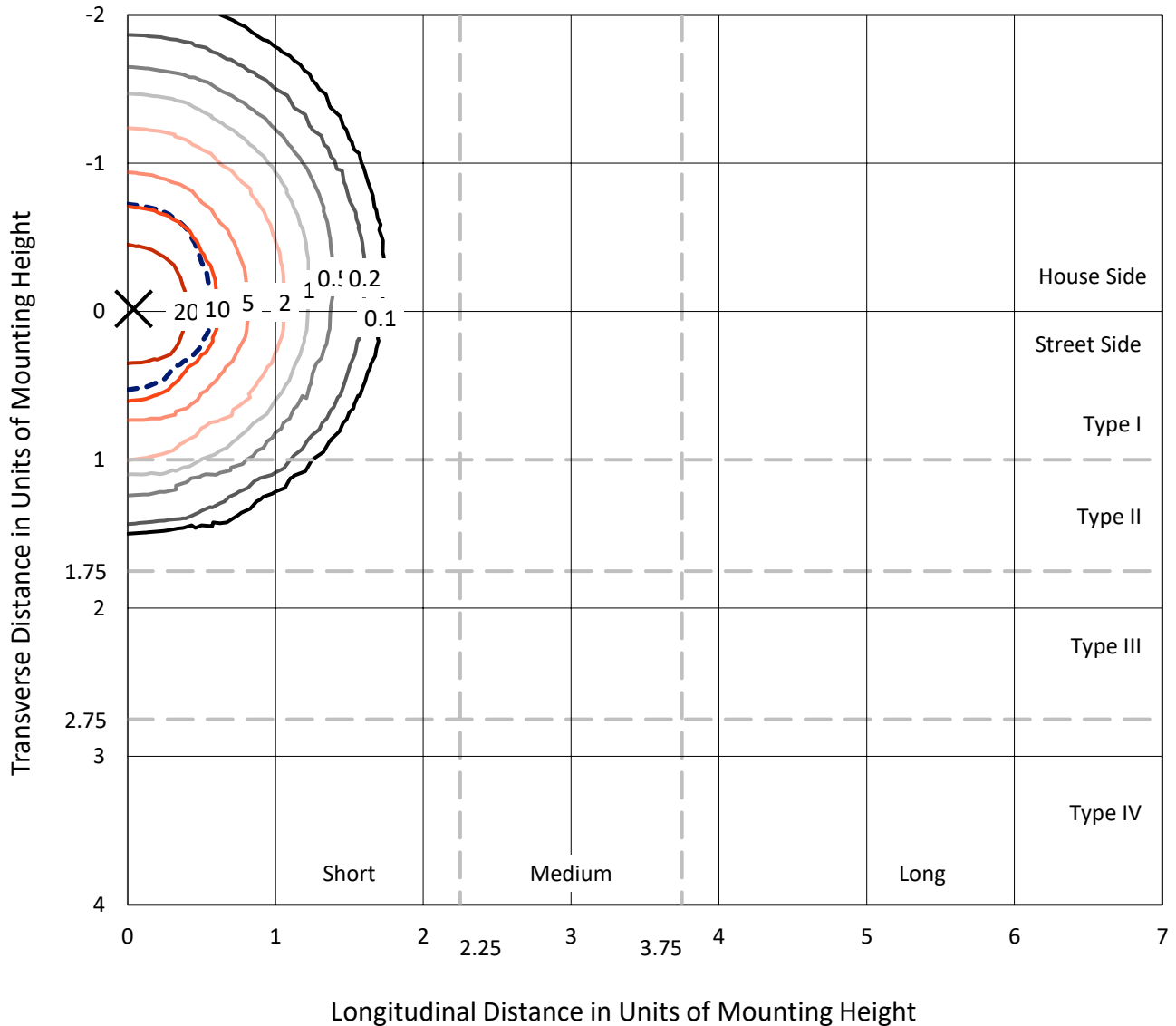
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

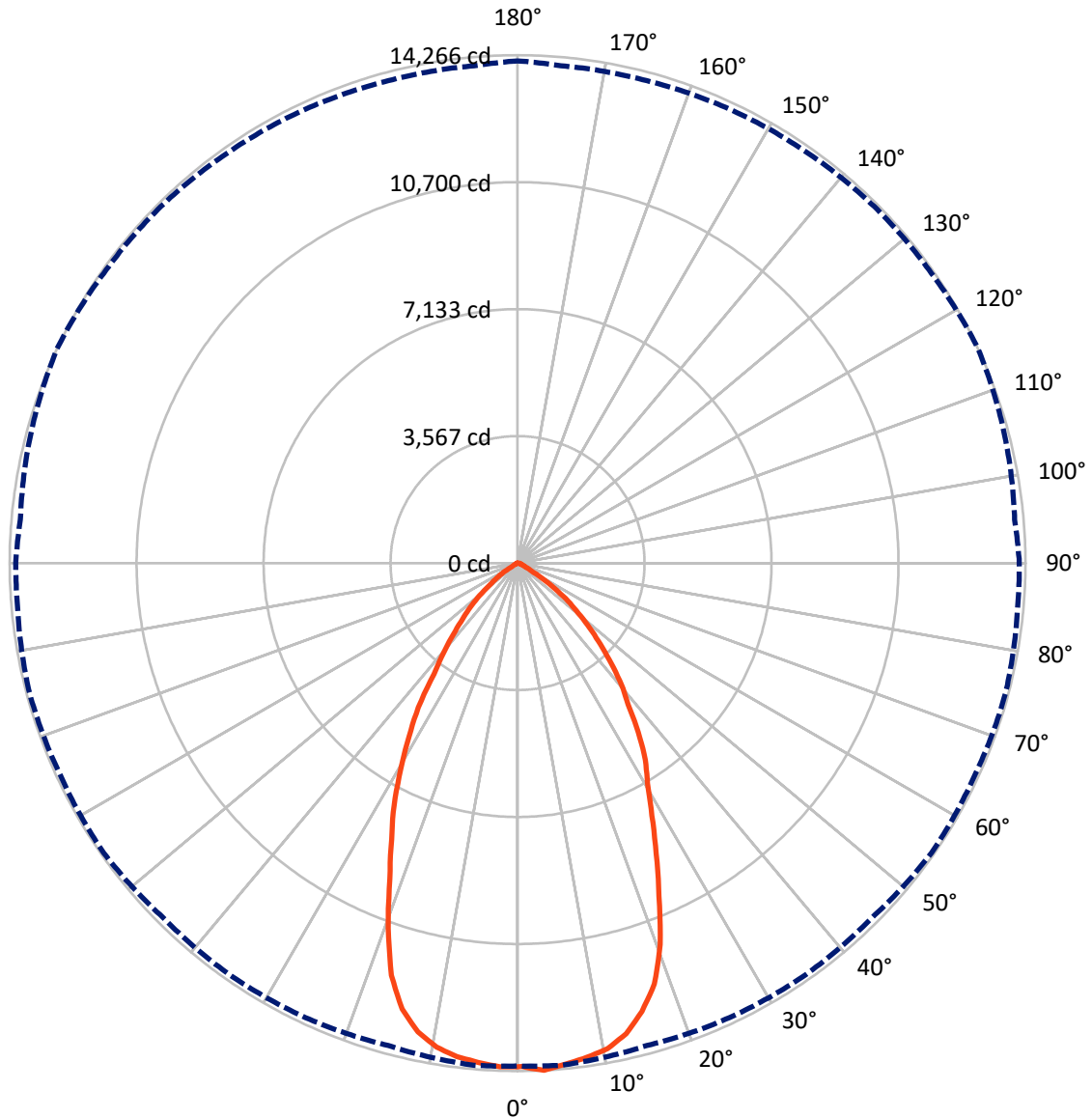
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.4 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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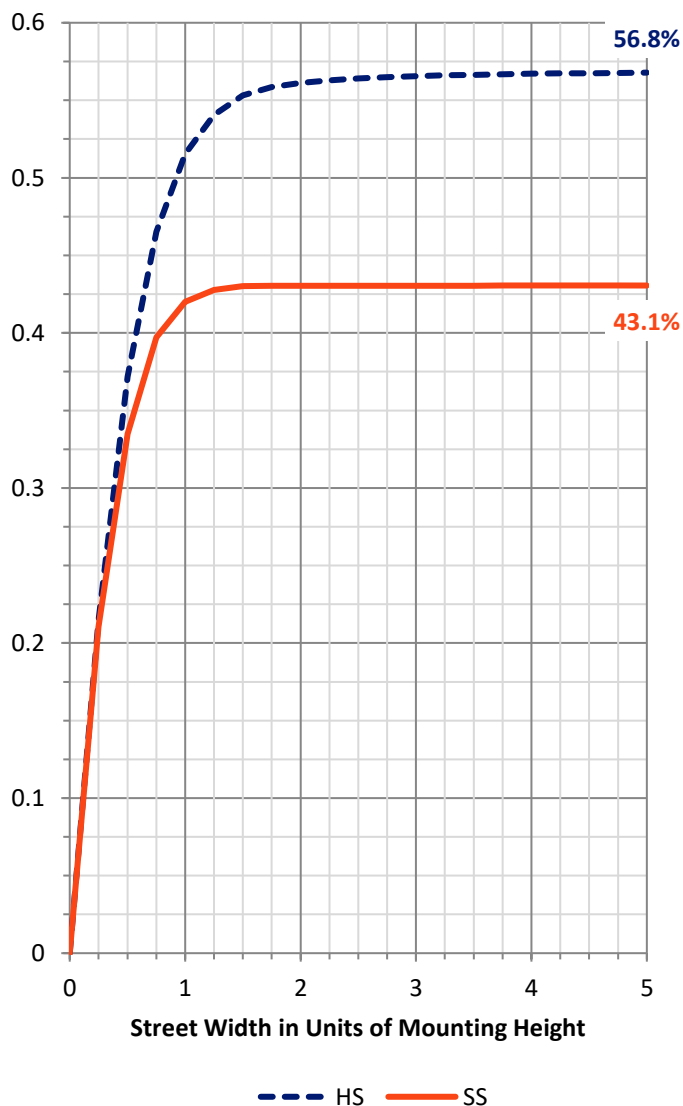
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9123.1	0.0	9123.1
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6818.4	0.0	6818.4
	% Fixture	42.8	0.0	42.8
Total	Lumens	15941.5	0.0	15941.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1332.2	8.4
10°-20°	3532.3	22.2
20°-30°	4040.2	25.3
30°-40°	3462.4	21.7
40°-50°	2289.4	14.4
50°-60°	999.0	6.3
60°-70°	196.3	1.2
70°-80°	70.8	0.4
80°-90°	18.8	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°	15941.5	100.0
0°-180°	15941.5	100.0



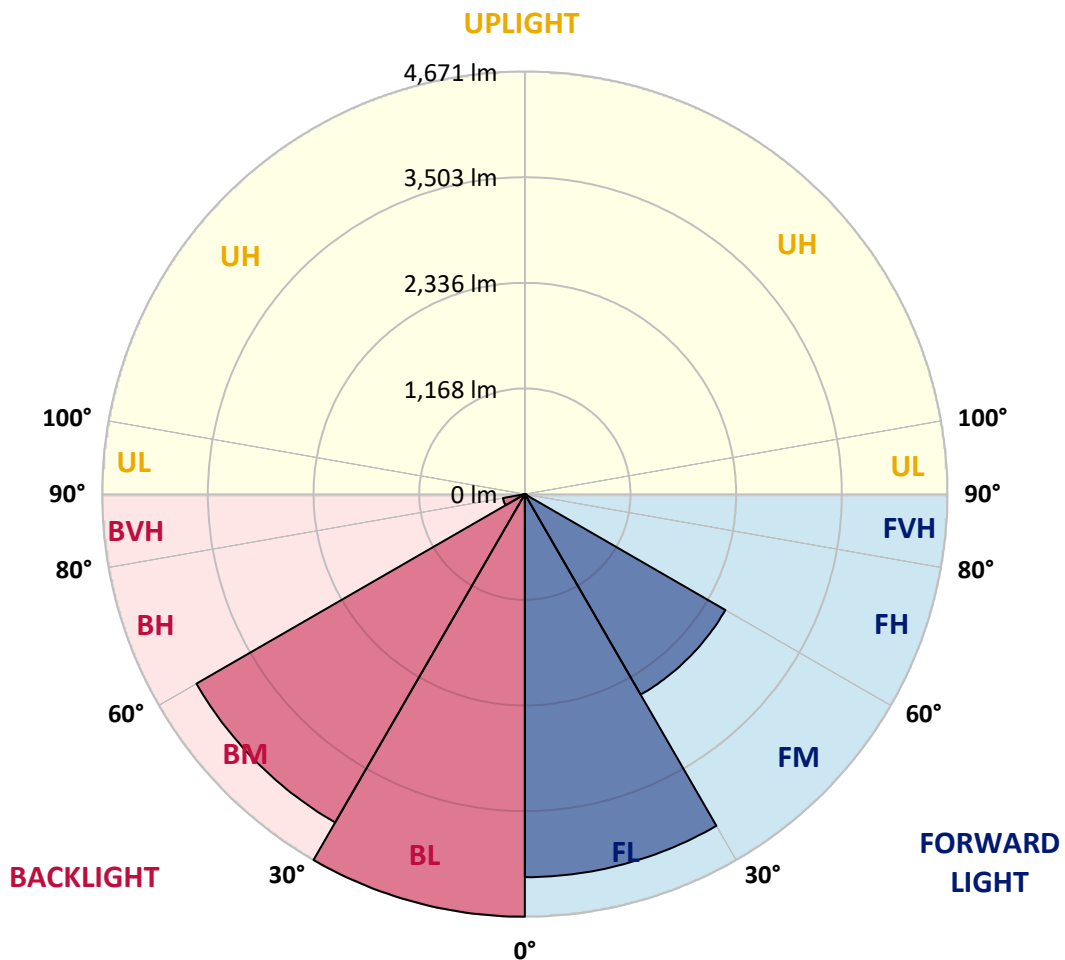
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4233.7	26.6			
FM (30°-60°)	2559.9	16.1			
FH (60°-80°)	21.7	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	4671.0	29.3	B4/5000		
BM (30°-60°)	4191.0	26.3	B3/5000		
BH (60°-80°)	245.4	1.5	B1/500		G1/500
BVH (80°-90°)	15.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1
2.5°	14123.8	14157.7	14028.9	14086.5	14110.2	14079.7	14191.6	14157.7	14184.8	14100.1
5°	14123.8	14157.7	14008.6	14035.7	14042.5	13984.9	14106.8	14066.2	14069.6	13981.5
7.5°	14035.7	14076.3	13940.8	13961.1	13964.5	13917.1	14022.1	13964.5	13944.2	13852.7
10°	13798.5	13822.2	13700.2	13751.0	13798.5	13754.4	13845.9	13781.5	13781.5	13700.2
12.5°	13422.3	13466.4	13330.9	13391.8	13432.5	13381.7	13486.7	13463.0	13466.4	13385.1
15°	12737.8	12585.4	12748.0	12870.0	12873.4	12863.2	12961.5	12937.8	12954.7	12832.7
17.5°	9410.2	9372.9	9562.7	11002.9	12073.7	12219.4	12236.3	12107.6	12050.0	11931.3
20°	8718.9	8746.0	8705.4	8712.2	9555.9	11307.8	11202.8	10884.3	10738.6	10620.0
22.5°	8214.0	8170.0	8142.9	8125.9	8149.6	9291.6	10047.3	9566.1	9488.1	9430.5
25°	7665.1	7644.7	7610.9	7604.1	7590.5	7397.4	8485.1	8529.2	8403.8	8332.6
27.5°	7153.4	7139.8	7102.6	7099.2	6943.3	6475.7	6594.3	7641.3	7607.5	7580.4
30°	6607.8	6580.7	6560.4	6560.4	6089.4	5608.2	5415.0	6662.0	6662.0	6638.3
32.5°	6014.8	5991.1	5997.9	5916.5	5354.0	4913.5	4608.5	5750.5	6106.3	6086.0
35°	3676.7	3669.9	4357.8	5262.5	4601.8	4201.9	4181.6	4920.3	5438.7	5493.0
37.5°	3273.4	3253.1	3263.2	3320.9	3941.0	3781.7	3774.9	3900.3	4628.9	4656.0
40°	2937.9	2924.4	2914.2	2707.5	2511.0	3375.1	3351.4	3270.0	3954.5	4002.0
42.5°	2619.4	2605.9	2605.9	2314.4	1995.9	2775.3	2785.4	2690.6	3334.4	3351.4
45°	2290.7	2280.5	2222.9	1846.8	1755.3	1843.4	2307.7	2199.2	2646.5	2822.7
47.5°	1081.0	1074.2	1555.4	1535.0	1528.3	1474.1	1762.1	1823.1	2100.9	2277.2
50°	867.5	860.7	820.0	721.8	1257.2	1118.2	1270.7	1402.9	1491.0	1653.6
52.5°	718.4	711.6	626.9	555.7	698.1	816.7	759.1	938.6	935.3	1111.5
55°	471.0	437.1	481.2	454.1	366.0	593.0	579.5	711.6	694.7	847.2
57.5°	10.2	10.2	23.7	257.5	230.4	250.8	332.1	406.6	457.5	501.5
60°	3.4	3.4	6.8	13.6	94.9	105.0	128.8	149.1	210.1	260.9
62.5°	0.0	0.0	3.4	6.8	13.6	54.2	61.0	71.2	98.3	135.5
65°	0.0	0.0	0.0	3.4	6.8	13.6	20.3	44.1	61.0	77.9
67.5°	0.0	0.0	0.0	3.4	3.4	6.8	13.6	20.3	27.1	54.2
70°	0.0	0.0	0.0	3.4	3.4	6.8	10.2	13.6	20.3	27.1
72.5°	0.0	0.0	0.0	3.4	3.4	10.2	6.8	10.2	13.6	16.9
75°	0.0	0.0	0.0	3.4	3.4	3.4	6.8	10.2	10.2	13.6
77.5°	0.0	0.0	0.0	3.4	6.8	6.8	6.8	6.8	6.8	10.2
80°	0.0	0.0	0.0	3.4	3.4	6.8	10.2	13.6	6.8	6.8
82.5°	0.0	0.0	0.0	6.8	3.4	13.6	20.3	16.9	6.8	3.4
85°	0.0	0.0	0.0	3.4	13.6	16.9	16.9	10.2	3.4	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	10.2	10.2	3.4	3.4
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°
14144.1	0°	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1	14144.1
14093.3	2.5°	14015.4	14147.5	14266.1	14191.6	14164.5	14110.2	14069.6	14025.5	14022.1
13971.3	5°	13893.4	14018.7	14134.0	14045.9	14052.6	14025.5	13998.4	13988.2	13995.0
13845.9	7.5°	13788.3	13893.4	14018.7	13944.2	13964.5	13947.6	13934.0	13913.7	13944.2
13683.3	10°	13629.0	13723.9	13869.6	13798.5	13788.3	13771.4	13757.8	13720.5	13737.5
13388.5	12.5°	13280.0	13398.6	13564.7	13483.3	13510.4	13463.0	13442.7	13419.0	13422.3
12876.8	15°	12805.6	12897.1	13066.5	13002.2	13022.5	12992.0	12992.0	12992.0	13015.7
11948.3	17.5°	11978.8	12165.2	12432.9	12351.5	12382.0	12388.8	12382.0	12405.8	12436.3
10626.7	20°	10633.5	10952.0	11440.0	11599.3	11663.6	11667.0	11619.6	11677.2	11738.2
9389.9	22.5°	9396.7	9732.1	10162.5	10599.6	10870.7	10857.2	10863.9	10901.2	10965.6
8288.6	25°	8325.9	8647.8	9037.5	9427.2	10020.2	10142.2	10145.5	10179.4	10230.3
7536.3	27.5°	7553.2	7678.6	8034.4	8427.5	9064.6	9454.3	9433.9	9464.4	9518.6
6594.3	30°	6621.4	7102.6	7183.9	7424.5	7973.4	8688.4	8691.8	8725.7	8779.9
6038.5	32.5°	6021.6	6340.1	6590.9	6597.7	7065.3	7800.6	7946.3	7980.2	8017.5
5462.5	35°	5459.1	5496.3	5835.2	5930.1	6201.2	6929.7	7187.3	7207.6	7268.6
4645.8	37.5°	4723.7	4944.0	5038.9	5377.7	5391.3	5980.9	6492.6	6472.3	6519.7
3998.6	40°	4049.4	4259.5	4500.1	4747.5	4781.3	5221.9	5787.8	5808.1	5828.4
3317.5	42.5°	3344.6	3612.3	3859.6	4025.7	4256.1	4510.3	5049.1	5143.9	5191.4
2843.1	45°	2893.9	2968.4	3263.2	3507.2	3741.0	3859.6	4364.5	4537.4	4567.9
2250.0	47.5°	2280.5	2531.3	2731.2	2937.9	3229.4	3334.4	3700.4	3941.0	3964.7
1670.6	50°	1762.1	1941.7	2216.2	2402.5	2741.4	2799.0	3049.8	3361.5	3392.0
1118.2	52.5°	1260.6	1504.5	1772.3	1951.8	2277.2	2351.7	2538.1	2836.3	2856.6
857.3	55°	904.8	1064.0	1284.3	1541.8	1779.0	1945.1	2073.8	2358.5	2385.6
562.5	57.5°	616.7	765.8	857.3	1114.9	1257.2	1436.8	1541.8	1758.7	1779.0
267.7	60°	294.8	366.0	437.1	565.9	657.4	809.9	877.7	965.8	989.5
162.7	62.5°	189.8	223.6	284.6	338.9	427.0	521.8	549.0	623.5	650.6
101.7	65°	125.4	159.3	223.6	237.2	325.3	399.9	433.7	488.0	518.5
61.0	67.5°	71.2	111.8	166.0	196.5	257.5	328.7	366.0	413.4	440.5
40.7	70°	47.4	91.5	132.2	162.7	203.3	264.3	311.8	352.4	369.4
20.3	72.5°	27.1	57.6	91.5	128.8	162.7	220.3	264.3	298.2	196.5
13.6	75°	16.9	44.1	77.9	108.4	135.5	176.2	213.5	210.1	88.1
10.2	77.5°	13.6	33.9	67.8	91.5	111.8	122.0	152.5	172.8	67.8
6.8	80°	10.2	27.1	61.0	77.9	44.1	88.1	118.6	128.8	47.4
6.8	82.5°	6.8	16.9	50.8	54.2	30.5	64.4	94.9	84.7	33.9
3.4	85°	3.4	10.2	16.9	30.5	27.1	30.5	23.7	33.9	23.7
3.4	87.5°	3.4	6.8	13.6	13.6	13.6	10.2	13.6	13.6	13.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14144.1
14103.5
14079.7
14028.9
13818.8
13520.6
13025.9
12537.9
11778.9
10975.8
10318.4
9569.5
8874.8
8102.2
7333.0
6577.3
5892.8
5259.1
4642.4
4022.3
3436.1
2893.9
2409.3
1819.7
1016.6
657.4
518.5
437.1
366.0
159.3
88.1
67.8
50.8
33.9
23.7
13.6
0.0

(END OF REPORT)