

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: P636443

Luminaire Tested: **IFLD-L-SA8A-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636443
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17946.2 lumens
Efficiency: N/A
Efficacy: 72.4 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): 247.8
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



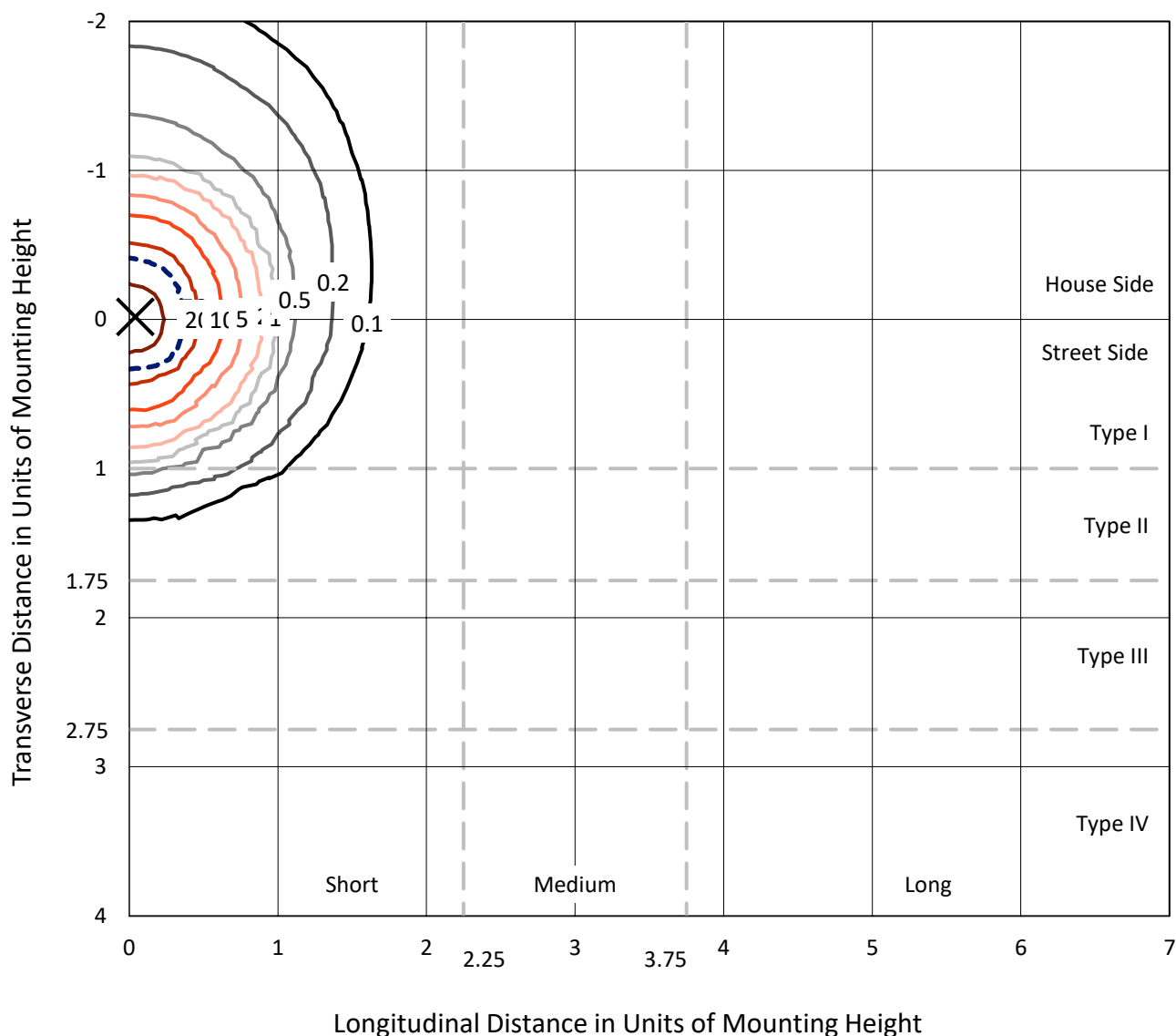
REPORT NUMBER: P636443

CATALOG NUMBER: IFLD-L-SA8A-927-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

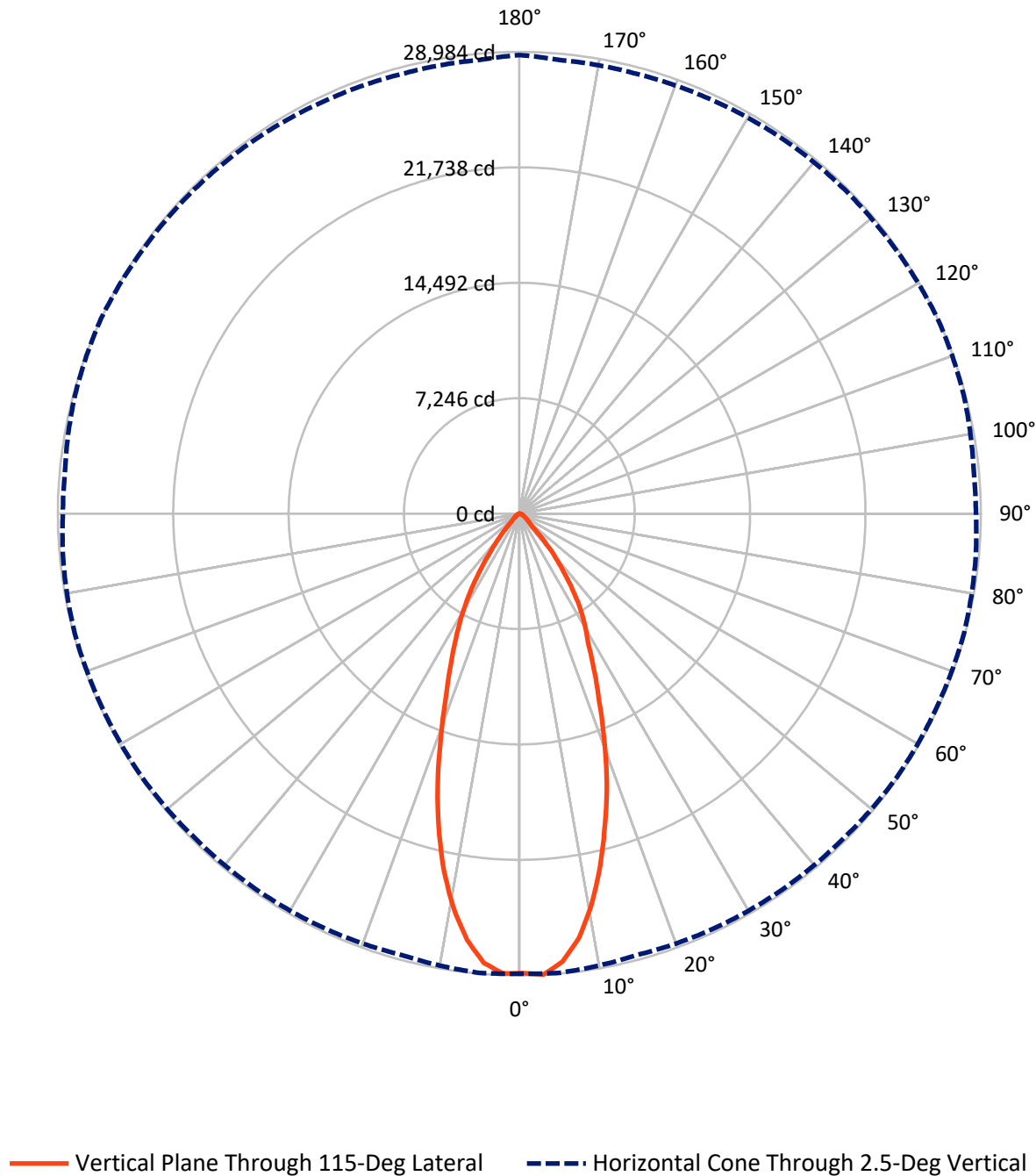


Based on 20 foot mounting height. Maximum calculated value = 72.1 fc

Type I - Short - N/A

REPORT NUMBER: P636443
CATALOG NUMBER: IFLD-L-SA8A-927-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636443

CATALOG NUMBER: IFLD-L-SA8A-927-U-55-VI

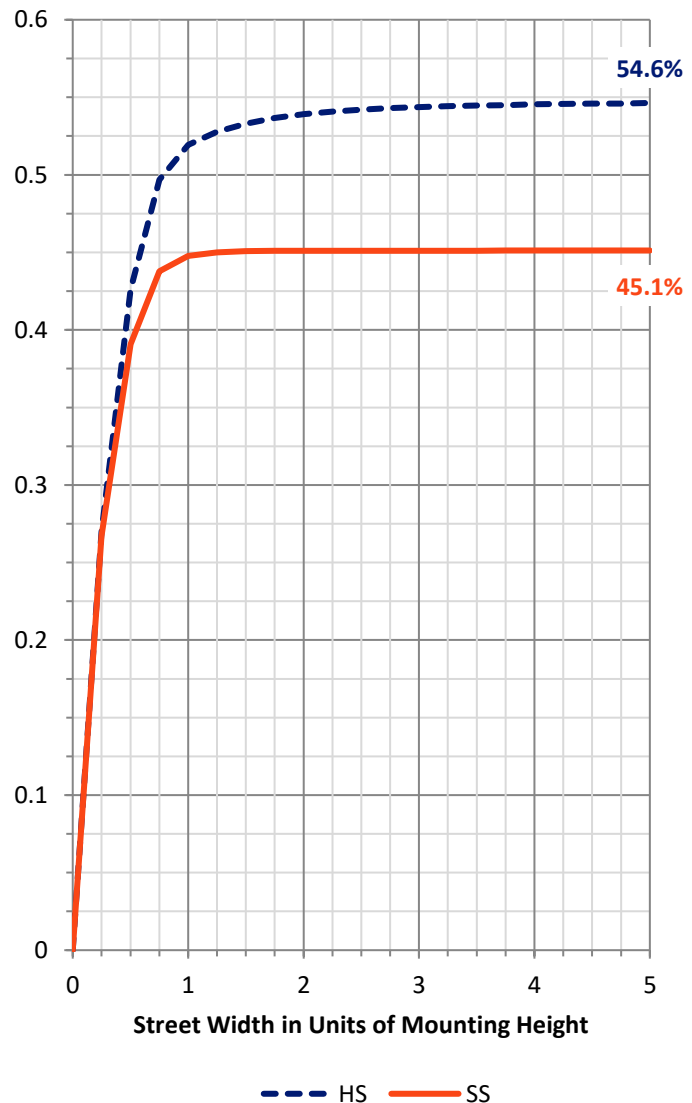
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9904.2	0.0	9904.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8042.0	0.0	8042.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	17946.2	0.0	17946.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2587.5	14.4
10°-20°	5468.6	30.5
20°-30°	4935.7	27.5
30°-40°	3266.3	18.2
40°-50°	978.4	5.5
50°-60°	392.5	2.2
60°-70°	203.3	1.1
70°-80°	88.2	0.5
80°-90°	25.7	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°	17946.2	100.0
0°-180°	17946.2	100.0

Coefficient of Utilization



REPORT NUMBER: P636443

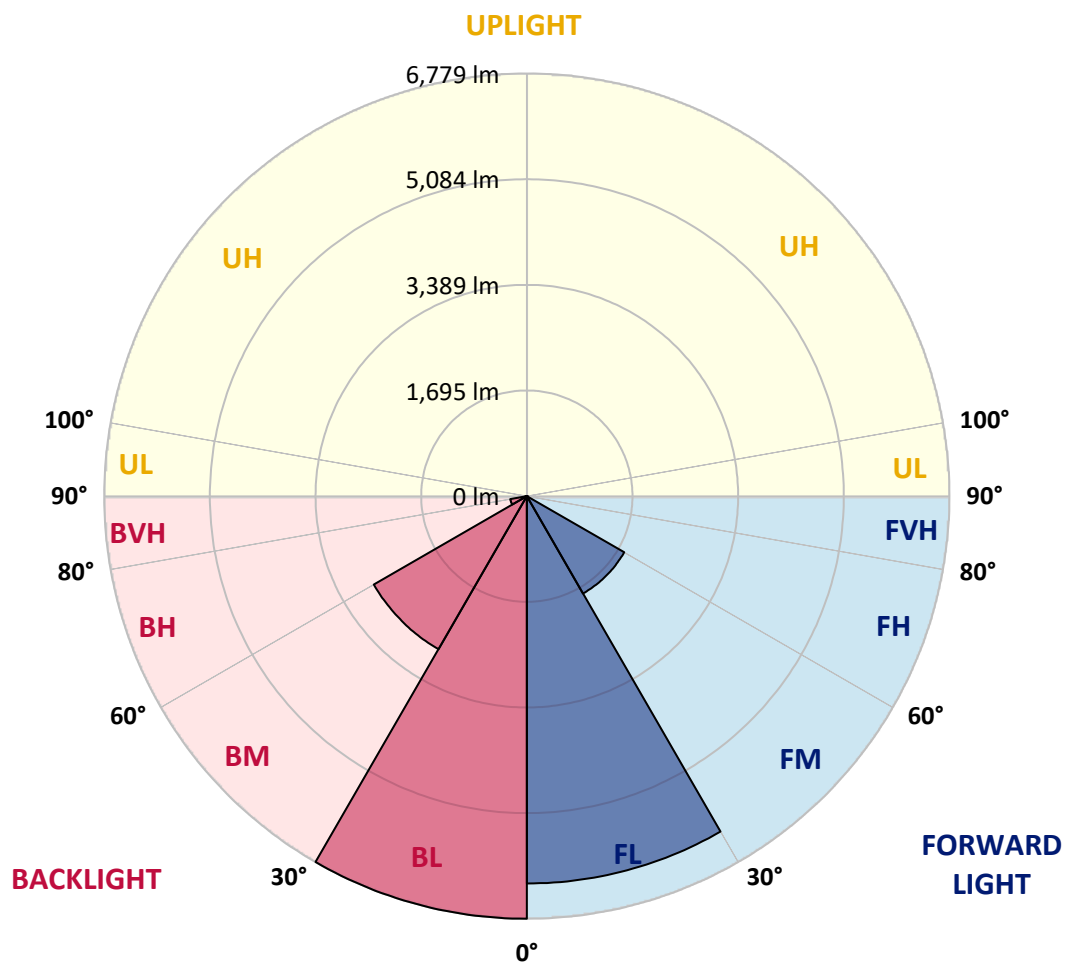
CATALOG NUMBER: IFLD-L-SA8A-927-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6213.1	34.6			
FM	(30°-60°)	1802.9	10.0			
FH	(60°-80°)	22.3	0.1			G0/660
FVH	(80°-90°)	3.7	0.0			G0/10
BL	(0°-30°)	6778.7	37.8	B5		
BM	(30°-60°)	2834.3	15.8	B3/5000		
BH	(60°-80°)	269.2	1.5	B1/500		G1/500
BVH	(80°-90°)	22.0	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



REPORT NUMBER: P636443

CATALOG NUMBER: IFLD-L-SA8A-927-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5
2.5°	28885.2	28936.6	28679.6	28767.7	28804.4	28815.4	28907.2	28892.5	28918.2	28782.4
5°	28503.5	28404.4	28213.5	28217.2	28206.2	28103.4	28312.6	28297.9	28253.9	28092.4
7.5°	27204.2	27347.3	26987.6	26980.3	26972.9	26848.2	27123.4	26954.6	26991.3	26760.1
10°	25303.0	25321.3	25002.0	24972.6	24998.3	24836.8	25156.2	25090.1	25159.8	24917.6
12.5°	22972.3	23075.1	22722.8	22671.4	22774.1	22546.6	22803.5	22836.5	22733.8	22700.7
15°	18017.4	18289.0	18957.0	19977.4	20241.6	20050.8	20256.3	20252.7	20296.7	20047.1
17.5°	13726.9	13752.6	13594.7	14082.9	16909.0	17826.6	17870.6	17522.0	17257.7	17165.9
20°	11983.5	12071.6	11928.4	11968.8	12420.3	15110.6	15213.3	14688.5	14237.0	14200.3
22.5°	10596.1	10651.2	10548.4	10581.4	10603.5	10919.1	12706.5	12244.1	12027.5	11862.4
25°	9421.6	9421.6	9366.6	9377.6	9355.6	8889.4	9807.0	10335.5	10210.7	10152.0
27.5°	8349.9	8364.6	8294.9	8335.2	8067.3	7314.9	7204.8	8764.6	8632.5	8526.1
30°	7333.2	7380.9	7314.9	7336.9	6753.3	6136.7	5821.1	7311.2	7476.4	7447.0
32.5°	5520.1	5736.7	6268.9	6290.9	5498.1	5024.6	4885.2	5868.8	6496.4	6441.4
35°	3420.7	3409.7	3431.7	4488.8	4217.2	3894.2	3945.6	4433.7	5142.1	5116.4
37.5°	2609.6	2605.9	2646.3	2539.8	2763.7	2954.6	2995.0	2995.0	3754.7	3758.4
40°	1978.3	1963.6	1959.9	1791.1	1501.1	2216.9	2150.8	2095.7	2609.6	2664.6
42.5°	1262.6	1306.6	1273.6	1090.1	980.0	1211.2	1350.7	1306.6	1611.3	1651.6
45°	704.7	704.7	675.3	572.6	568.9	612.9	770.8	719.4	825.8	880.9
47.5°	341.3	334.0	367.0	451.4	469.8	455.1	550.5	572.6	623.9	675.3
50°	275.3	275.3	260.6	234.9	389.1	374.4	407.4	436.8	466.1	510.2
52.5°	231.2	231.2	212.9	198.2	223.9	286.3	290.0	345.0	341.3	403.7
55°	117.4	121.1	172.5	172.5	150.5	234.9	238.6	278.9	286.3	337.7
57.5°	11.0	14.7	22.0	106.4	117.4	128.5	179.8	205.5	238.6	260.6
60°	3.7	3.7	7.3	14.7	69.7	88.1	113.8	135.8	165.2	216.5
62.5°	0.0	0.0	3.7	7.3	14.7	55.1	62.4	69.7	99.1	135.8
65°	0.0	0.0	3.7	3.7	7.3	18.4	25.7	44.0	62.4	84.4
67.5°	0.0	0.0	3.7	3.7	7.3	11.0	14.7	22.0	29.4	55.1
70°	0.0	0.0	3.7	3.7	7.3	11.0	11.0	14.7	18.4	25.7
72.5°	0.0	0.0	3.7	3.7	7.3	14.7	11.0	11.0	14.7	18.4
75°	0.0	0.0	3.7	3.7	7.3	11.0	11.0	11.0	11.0	11.0
77.5°	0.0	0.0	3.7	3.7	7.3	11.0	11.0	11.0	7.3	7.3
80°	0.0	0.0	3.7	3.7	7.3	11.0	14.7	14.7	7.3	7.3
82.5°	0.0	0.0	3.7	7.3	7.3	18.4	22.0	18.4	7.3	3.7
85°	0.0	0.0	3.7	3.7	11.0	18.4	18.4	11.0	7.3	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.3	11.0	11.0	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636443

CATALOG NUMBER: IFLD-L-SA8A-927-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
28848.5	0°	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5	28848.5
28672.3	2.5°	28657.6	28881.5	28984.3	28877.8	28826.4	28753.0	28646.6	28573.2	28587.9
28004.3	5°	27941.9	28176.8	28257.5	28165.8	28088.7	28048.3	28030.0	28066.7	28162.1
26661.0	7.5°	26653.6	26804.1	26892.2	26848.2	26741.7	26862.8	26895.9	26873.9	27013.3
24844.2	10°	24851.5	25016.7	24935.9	24954.3	24829.5	24891.9	24873.5	24954.3	25093.8
22675.0	12.5°	22528.2	22686.1	22623.7	22612.6	22480.5	22598.0	22524.6	22612.6	22796.2
19944.3	15°	20087.5	20186.6	20146.2	20083.8	19966.4	20006.7	20234.3	20219.6	20300.4
17110.9	17.5°	17037.5	17514.6	17775.2	17830.3	17734.8	17815.6	17977.1	17936.7	18120.2
14123.3	20°	14097.6	14578.4	15220.7	15741.9	15752.9	15763.9	15866.7	15892.3	16050.2
11866.0	22.5°	11814.7	12156.0	12846.0	13536.0	14013.2	14112.3	14101.2	14138.0	14182.0
10071.3	25°	10045.6	10295.2	10926.4	11403.6	12240.4	12519.4	12600.1	12519.4	12545.0
8489.4	27.5°	8584.8	8966.5	9175.7	9685.9	10504.4	11150.3	11124.6	11076.9	11084.3
7388.3	30°	7384.6	7795.7	8104.0	8258.1	8874.8	9807.0	9902.4	9766.6	9770.3
6415.7	32.5°	6375.3	6503.8	6958.9	7083.7	7480.0	8327.9	8654.5	8551.8	8533.4
5131.1	35°	5281.5	5351.3	5560.5	5806.4	6041.3	6683.6	7223.1	7127.7	7175.4
3773.1	37.5°	3758.4	4044.7	4246.5	4448.4	4617.2	5021.0	5670.6	5582.5	5630.2
2672.0	40°	2649.9	2778.4	3127.1	3215.2	3464.8	3651.9	4202.5	4173.1	4231.8
1659.0	42.5°	1629.6	1721.4	1897.5	1982.0	2150.8	2257.2	2580.2	2616.9	2694.0
917.6	45°	924.9	965.3	1086.4	1178.2	1303.0	1347.0	1460.8	1512.2	1556.2
712.0	47.5°	704.7	748.7	829.5	910.2	1013.0	1049.7	1130.4	1207.5	1247.9
550.5	50°	576.2	616.6	701.0	767.1	869.9	902.9	969.0	1053.4	1104.8
418.4	52.5°	436.8	495.5	598.3	668.0	774.4	814.8	877.2	961.6	1009.3
345.0	55°	359.7	403.7	495.5	590.9	690.0	745.1	785.4	888.2	939.6
282.6	57.5°	308.3	341.3	400.1	513.8	598.3	679.0	712.0	807.5	858.8
223.9	60°	234.9	286.3	337.7	425.8	521.2	605.6	642.3	726.7	767.1
161.5	62.5°	194.5	227.6	293.6	341.3	447.8	535.9	572.6	649.6	679.0
106.4	65°	135.8	183.5	245.9	275.3	374.4	458.8	510.2	568.9	598.3
62.4	67.5°	80.7	135.8	194.5	234.9	304.6	389.1	444.1	499.2	524.9
36.7	70°	51.4	106.4	154.2	198.2	238.6	319.3	385.4	433.1	422.1
22.0	72.5°	29.4	66.1	113.8	161.5	198.2	267.9	330.3	367.0	260.6
14.7	75°	18.4	47.7	95.4	132.1	161.5	212.9	271.6	278.9	161.5
7.3	77.5°	14.7	36.7	73.4	106.4	110.1	157.8	190.9	216.5	121.1
7.3	80°	7.3	29.4	62.4	88.1	69.7	110.1	146.8	168.8	95.4
3.7	82.5°	7.3	18.4	47.7	62.4	51.4	84.4	106.4	121.1	80.7
3.7	85°	3.7	14.7	25.7	36.7	36.7	55.1	47.7	58.7	51.4
3.7	87.5°	3.7	7.3	14.7	18.4	14.7	22.0	25.7	25.7	22.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
28848.5
28786.1
28360.3
27152.8
25148.8
22829.2
20318.7
18090.9
16017.1
14101.2
12504.7
11095.3
9774.0
8577.5
7219.5
5670.6
4253.9
2782.1
1552.5
1266.2
1126.8
1042.4
954.3
880.9
774.4
682.7
598.3
521.2
389.1
231.2
150.5
121.1
99.1
88.1
51.4
18.4
0.0

(END OF REPORT)