

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: P636454

Luminaire Tested: **IFLD-S-SA3C-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636454
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11217.8 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 160.8
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



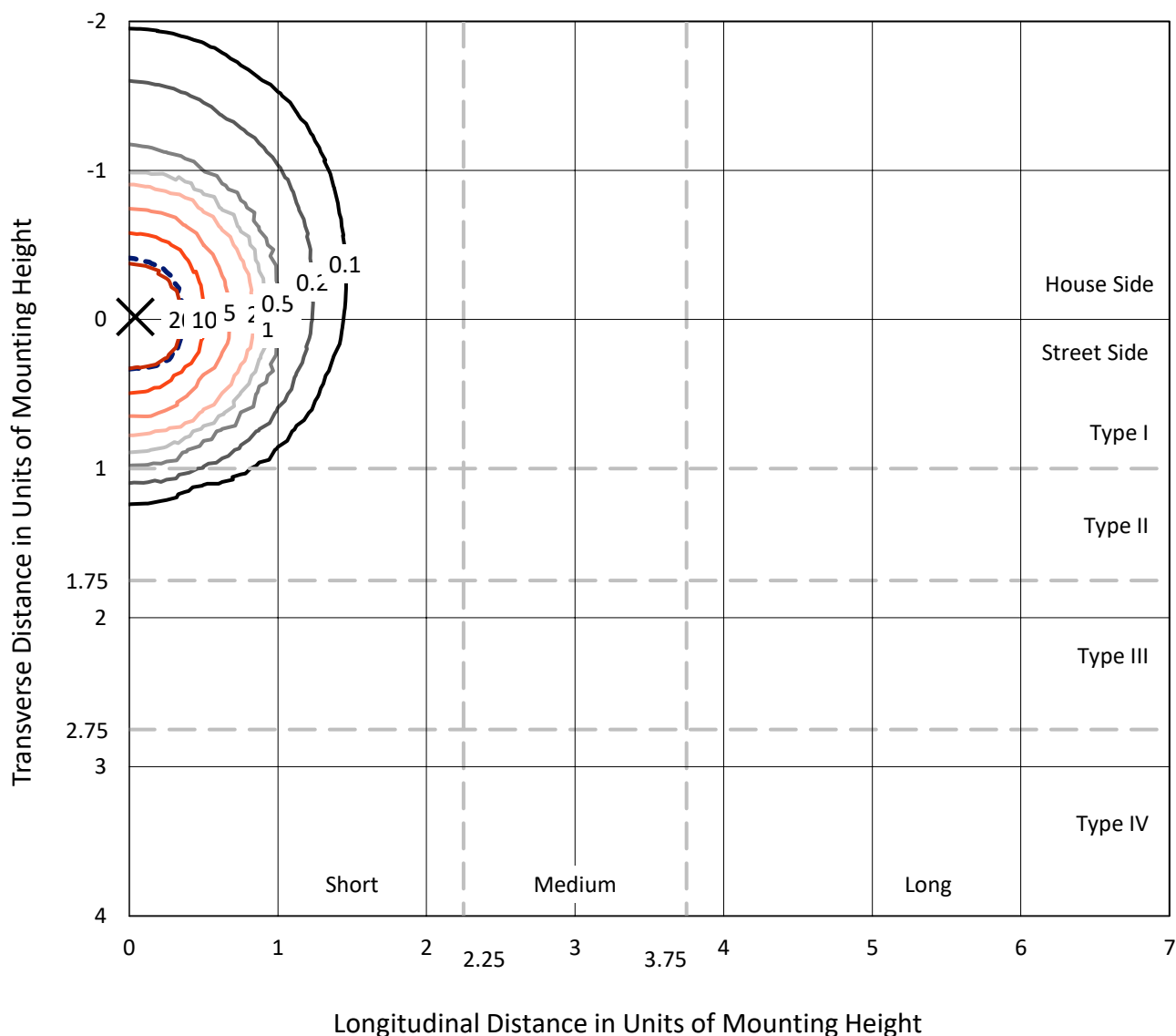
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

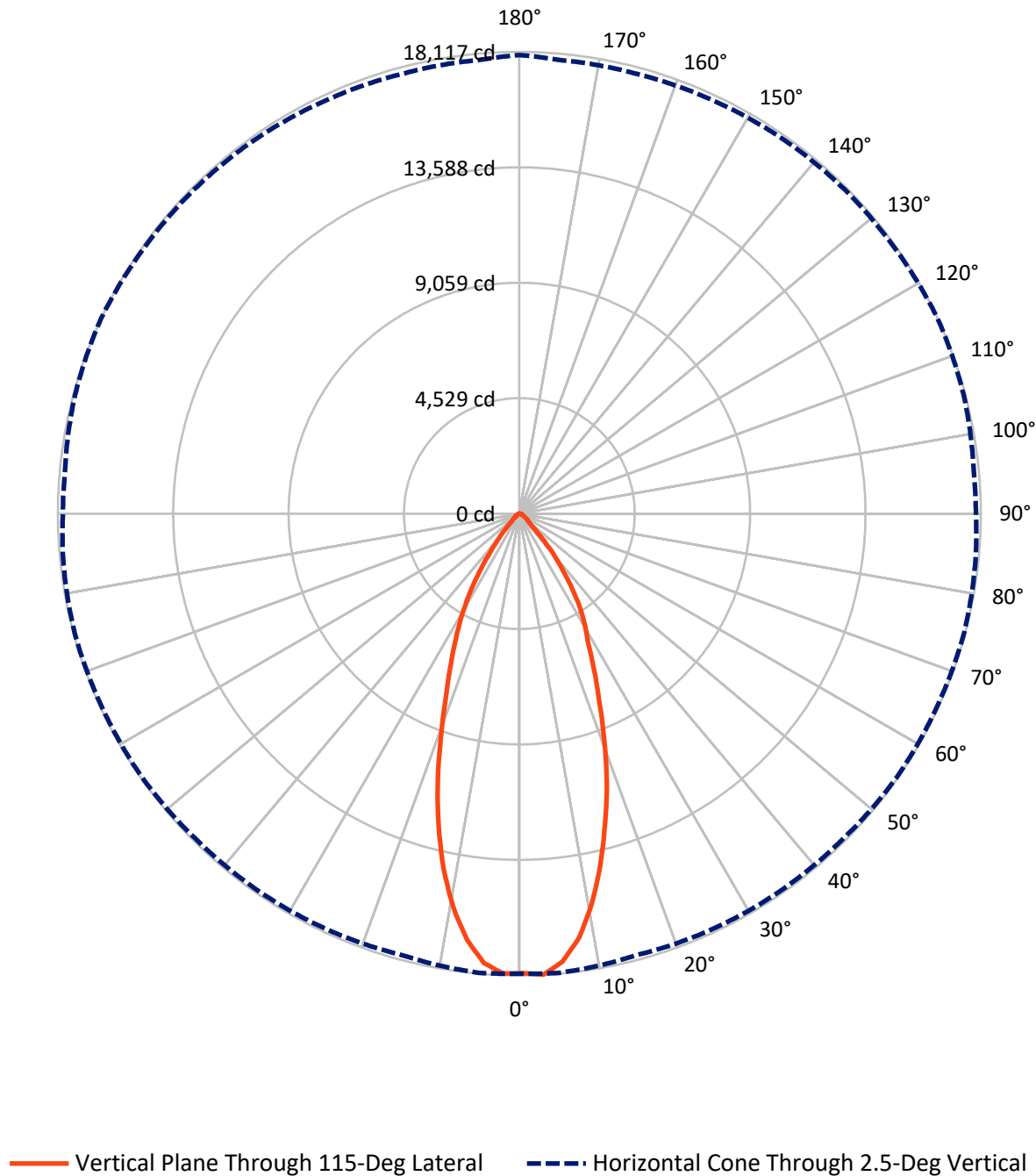


Based on 20 foot mounting height. Maximum calculated value = 45.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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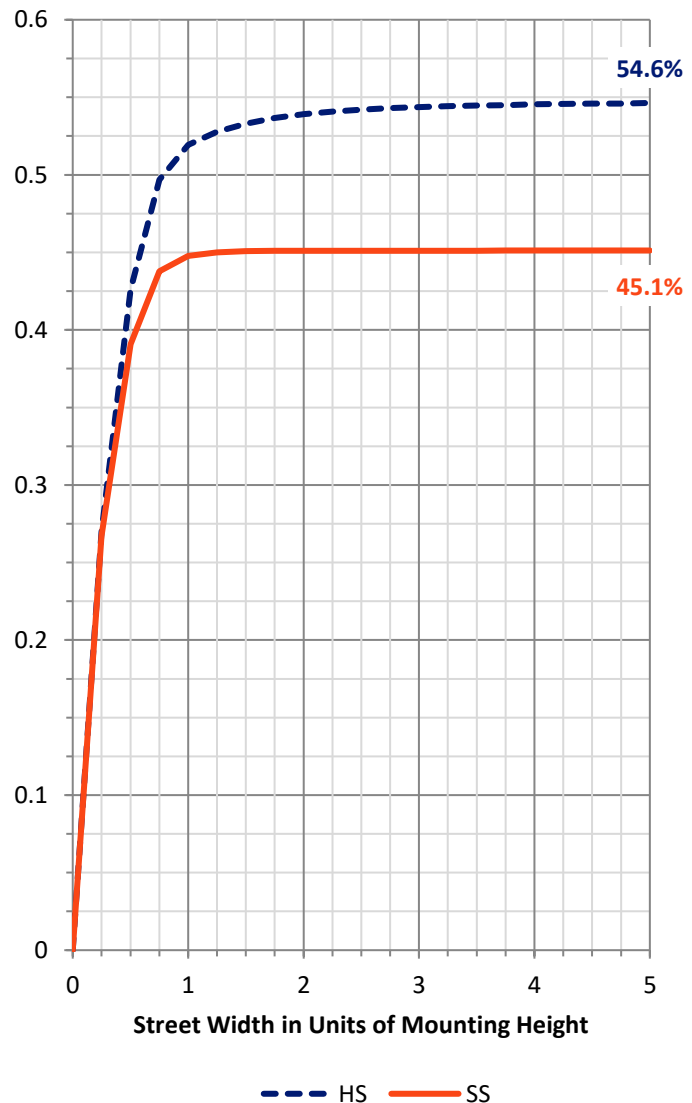
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6190.9	0.0	6190.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5026.9	0.0	5026.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	11217.8	0.0	11217.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1617.4	14.4
10°-20°	3418.3	30.5
20°-30°	3085.2	27.5
30°-40°	2041.7	18.2
40°-50°	611.6	5.5
50°-60°	245.3	2.2
60°-70°	127.0	1.1
70°-80°	55.2	0.5
80°-90°	16.1	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°	11217.8	100.0
0°-180°	11217.8	100.0

Coefficient of Utilization



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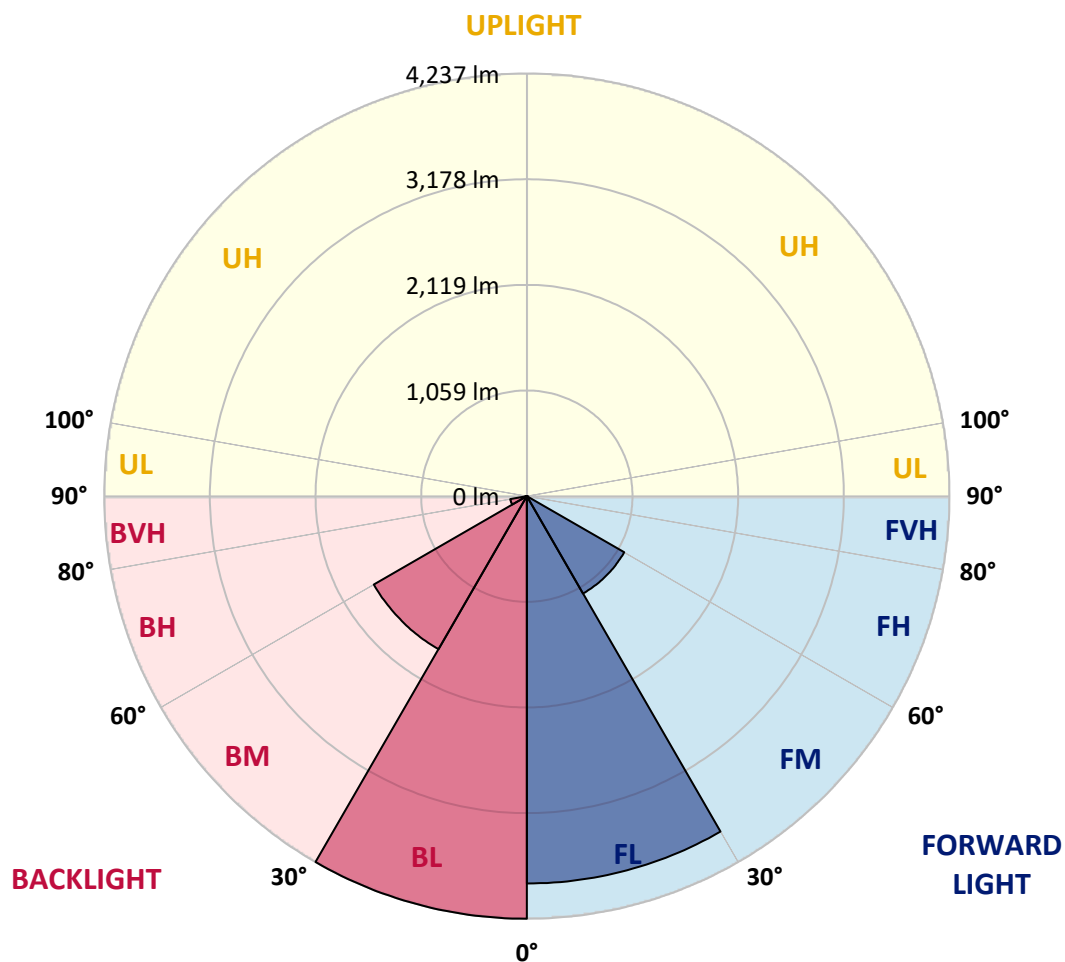
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3883.7	34.6			
FM	(30°-60°)	1126.9	10.0			
FH	(60°-80°)	14.0	0.1			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	4237.2	37.8	B4/5000		
BM	(30°-60°)	1771.7	15.8	B2/2500		
BH	(60°-80°)	168.2	1.5	B1/500		G1/500
BVH	(80°-90°)	13.7	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°	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6
2.5°	18055.5	18087.6	17927.0	17982.1	18005.0	18011.9	18069.3	18060.1	18076.1	17991.3
5°	17816.9	17755.0	17635.7	17637.9	17631.1	17566.8	17697.6	17688.4	17660.9	17559.9
7.5°	17004.7	17094.2	16869.4	16864.8	16860.2	16782.2	16954.3	16848.7	16871.7	16727.1
10°	15816.3	15827.8	15628.2	15609.9	15625.9	15525.0	15724.6	15683.3	15726.9	15575.4
12.5°	14359.5	14423.7	14203.5	14171.4	14235.6	14093.4	14254.0	14274.6	14210.4	14189.7
15°	11262.3	11432.1	11849.6	12487.4	12652.6	12533.3	12661.8	12659.5	12687.0	12531.0
17.5°	8580.4	8596.4	8497.8	8802.9	10569.5	11143.0	11170.5	10952.6	10787.4	10730.1
20°	7490.6	7545.7	7456.2	7481.4	7763.6	9445.3	9509.5	9181.5	8899.3	8876.3
22.5°	6623.4	6657.8	6593.6	6614.2	6628.0	6825.3	7942.6	7653.5	7518.2	7414.9
25°	5889.3	5889.3	5854.8	5861.7	5848.0	5556.6	6130.2	6460.5	6382.5	6345.8
27.5°	5219.3	5228.5	5184.9	5210.2	5042.7	4572.4	4503.6	5478.6	5396.0	5329.5
30°	4583.8	4613.7	4572.4	4586.1	4221.4	3835.9	3638.6	4570.1	4673.3	4655.0
32.5°	3450.5	3585.9	3918.5	3932.3	3436.7	3140.8	3053.6	3668.5	4060.8	4026.4
35°	2138.2	2131.3	2145.1	2805.8	2636.1	2434.2	2466.3	2771.4	3214.2	3198.1
37.5°	1631.2	1628.9	1654.1	1587.6	1727.5	1846.8	1872.1	1872.1	2347.0	2349.3
40°	1236.6	1227.4	1225.1	1119.6	938.3	1385.7	1344.4	1310.0	1631.2	1665.6
42.5°	789.2	816.7	796.1	681.4	612.6	757.1	844.3	816.7	1007.2	1032.4
45°	440.5	440.5	422.1	357.9	355.6	383.1	481.8	449.7	516.2	550.6
47.5°	213.4	208.8	229.4	282.2	293.7	284.5	344.1	357.9	390.0	422.1
50°	172.1	172.1	162.9	146.8	243.2	234.0	254.7	273.0	291.4	318.9
52.5°	144.5	144.5	133.1	123.9	139.9	178.9	181.2	215.7	213.4	252.4
55°	73.4	75.7	107.8	107.8	94.1	146.8	149.1	174.4	178.9	211.1
57.5°	6.9	9.2	13.8	66.5	73.4	80.3	112.4	128.5	149.1	162.9
60°	2.3	2.3	4.6	9.2	43.6	55.1	71.1	84.9	103.2	135.4
62.5°	0.0	0.0	2.3	4.6	9.2	34.4	39.0	43.6	61.9	84.9
65°	0.0	0.0	2.3	2.3	4.6	11.5	16.1	27.5	39.0	52.8
67.5°	0.0	0.0	2.3	2.3	4.6	6.9	9.2	13.8	18.4	34.4
70°	0.0	0.0	2.3	2.3	4.6	6.9	6.9	9.2	11.5	16.1
72.5°	0.0	0.0	2.3	2.3	4.6	9.2	6.9	6.9	9.2	11.5
75°	0.0	0.0	2.3	2.3	4.6	6.9	6.9	6.9	6.9	6.9
77.5°	0.0	0.0	2.3	2.3	4.6	6.9	6.9	6.9	4.6	4.6
80°	0.0	0.0	2.3	2.3	4.6	6.9	9.2	9.2	4.6	4.6
82.5°	0.0	0.0	2.3	4.6	4.6	11.5	13.8	11.5	4.6	2.3
85°	0.0	0.0	2.3	2.3	6.9	11.5	11.5	6.9	4.6	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	6.9	6.9	2.3	2.3
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°
18032.6	0°	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6	18032.6
17922.4	2.5°	17913.3	18053.2	18117.4	18050.9	18018.8	17972.9	17906.4	17860.5	17869.7
17504.9	5°	17465.9	17612.7	17663.2	17605.8	17557.7	17532.4	17520.9	17543.9	17603.5
16665.2	7.5°	16660.6	16754.7	16809.7	16782.2	16715.7	16791.4	16812.0	16798.3	16885.4
15529.6	10°	15534.2	15637.4	15586.9	15598.4	15520.4	15559.4	15547.9	15598.4	15685.6
14173.7	12.5°	14081.9	14180.6	14141.6	14134.7	14052.1	14125.5	14079.6	14134.7	14249.4
12466.8	15°	12556.3	12618.2	12593.0	12554.0	12480.5	12505.8	12648.0	12638.8	12689.3
10695.6	17.5°	10649.8	10948.0	11110.9	11145.3	11085.7	11136.1	11237.1	11211.8	11326.6
8828.2	20°	8812.1	9112.6	9514.1	9839.9	9846.8	9853.7	9917.9	9934.0	10032.6
7417.2	22.5°	7385.1	7598.5	8029.8	8461.1	8759.3	8821.3	8814.4	8837.3	8864.9
6295.3	25°	6279.3	6435.3	6829.9	7128.1	7651.2	7825.6	7876.1	7825.6	7841.6
5306.5	27.5°	5366.2	5604.8	5735.5	6054.4	6566.1	6969.8	6953.8	6924.0	6928.5
4618.3	30°	4616.0	4872.9	5065.6	5162.0	5547.4	6130.2	6189.8	6104.9	6107.2
4010.3	32.5°	3985.1	4065.4	4349.8	4427.8	4675.6	5205.6	5409.8	5345.5	5334.1
3207.3	35°	3301.4	3345.0	3475.7	3629.5	3776.3	4177.8	4515.0	4455.4	4485.2
2358.5	37.5°	2349.3	2528.2	2654.4	2780.6	2886.1	3138.5	3544.6	3489.5	3519.3
1670.2	40°	1656.4	1736.7	1954.7	2009.7	2165.7	2282.7	2626.9	2608.5	2645.2
1037.0	42.5°	1018.6	1076.0	1186.1	1238.9	1344.4	1410.9	1612.8	1635.8	1684.0
573.6	45°	578.1	603.4	679.1	736.4	814.4	842.0	913.1	945.2	972.7
445.1	47.5°	440.5	468.0	518.5	569.0	633.2	656.1	706.6	754.8	780.0
344.1	50°	360.2	385.4	438.2	479.5	543.7	564.4	605.7	658.4	690.6
261.5	52.5°	273.0	309.7	374.0	417.5	484.1	509.3	548.3	601.1	630.9
215.7	55°	224.8	252.4	309.7	369.4	431.3	465.7	491.0	555.2	587.3
176.7	57.5°	192.7	213.4	250.1	321.2	374.0	424.4	445.1	504.7	536.8
139.9	60°	146.8	178.9	211.1	266.1	325.8	378.5	401.5	454.3	479.5
100.9	62.5°	121.6	142.2	183.5	213.4	279.9	335.0	357.9	406.1	424.4
66.5	65°	84.9	114.7	153.7	172.1	234.0	286.8	318.9	355.6	374.0
39.0	67.5°	50.5	84.9	121.6	146.8	190.4	243.2	277.6	312.0	328.1
22.9	70°	32.1	66.5	96.4	123.9	149.1	199.6	240.9	270.7	263.8
13.8	72.5°	18.4	41.3	71.1	100.9	123.9	167.5	206.5	229.4	162.9
9.2	75°	11.5	29.8	59.6	82.6	100.9	133.1	169.8	174.4	100.9
4.6	77.5°	9.2	22.9	45.9	66.5	68.8	98.7	119.3	135.4	75.7
4.6	80°	4.6	18.4	39.0	55.1	43.6	68.8	91.8	105.5	59.6
2.3	82.5°	4.6	11.5	29.8	39.0	32.1	52.8	66.5	75.7	50.5
2.3	85°	2.3	9.2	16.1	22.9	22.9	34.4	29.8	36.7	32.1
2.3	87.5°	2.3	4.6	9.2	11.5	9.2	13.8	16.1	16.1	13.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18032.6
17993.6
17727.4
16972.6
15720.0
14270.0
12700.8
11308.2
10012.0
8814.4
7816.4
6935.4
6109.5
5361.6
4512.7
3544.6
2659.0
1739.0
970.5
791.5
704.3
651.6
596.5
550.6
484.1
426.7
374.0
325.8
243.2
144.5
94.1
75.7
61.9
55.1
32.1
11.5
0.0

(END OF REPORT)