

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: P637668

Luminaire Tested: **IFLD-S-SA2D-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637668
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15027.3 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 123.9
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



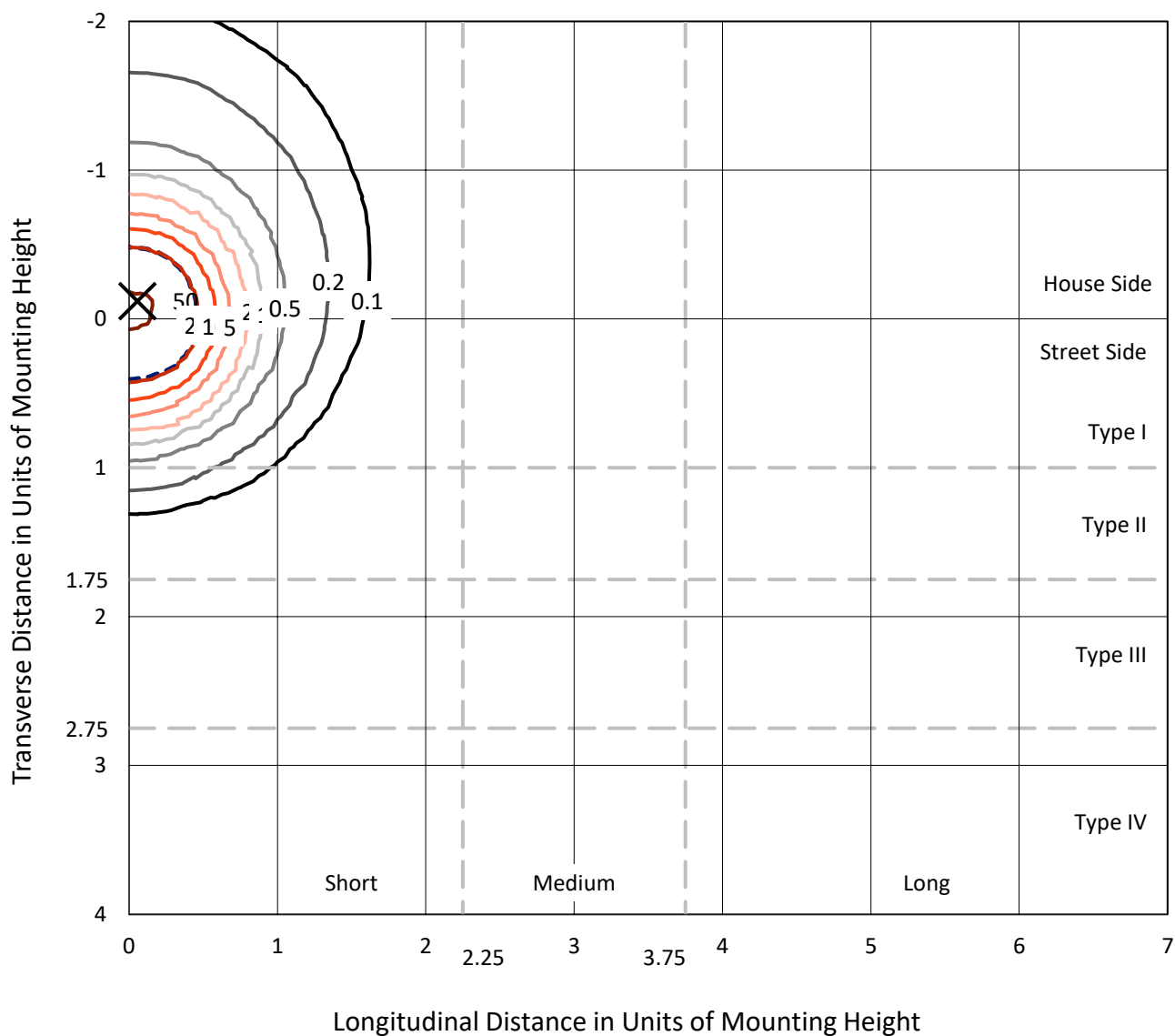
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



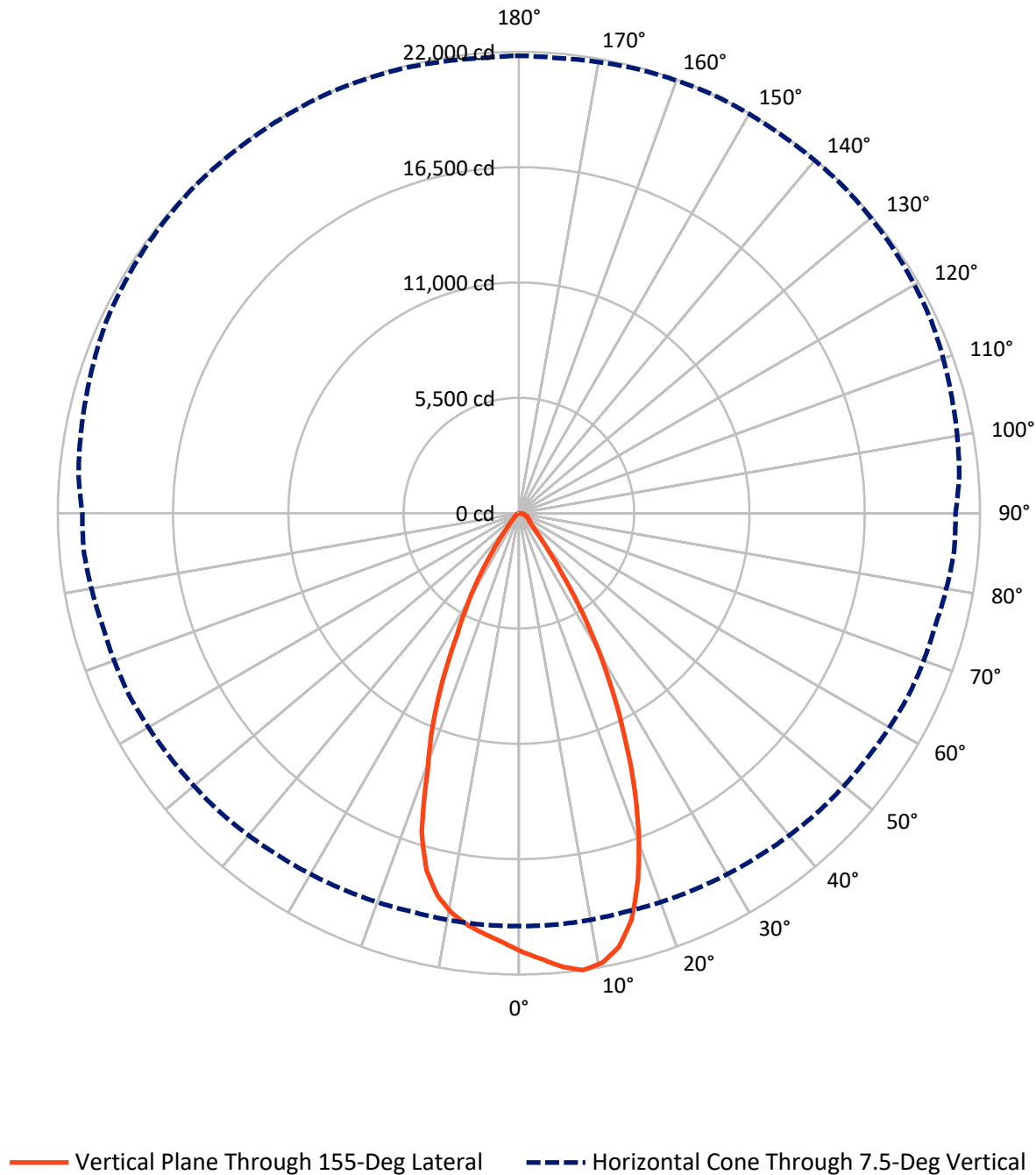
Based on 20 foot mounting height. Maximum calculated value = 53.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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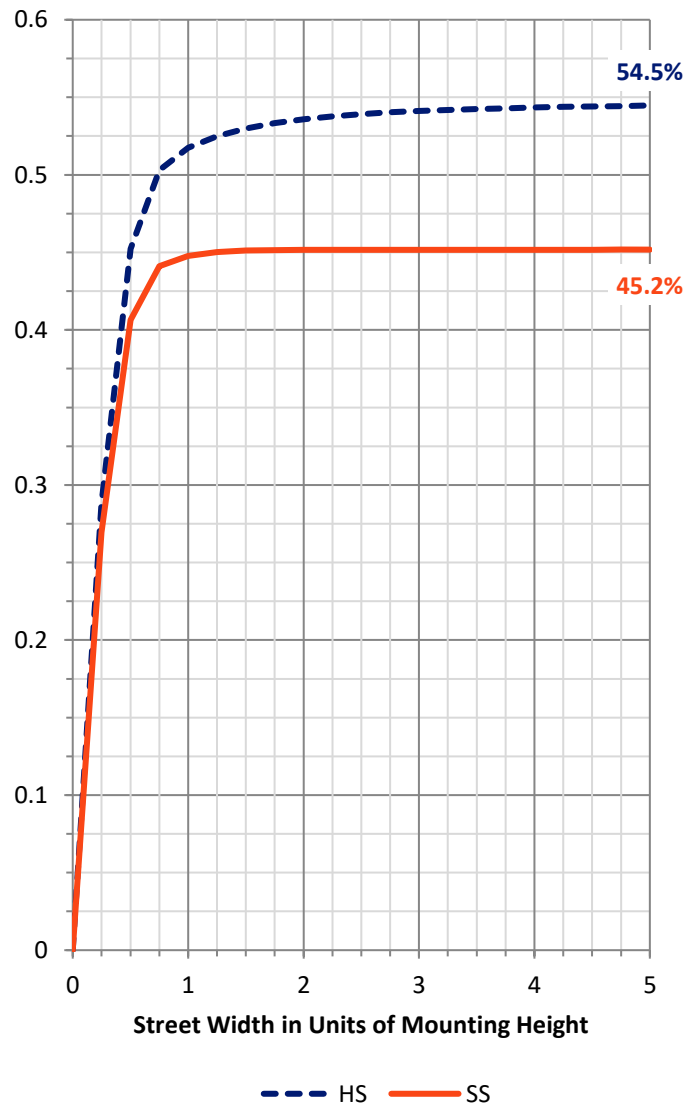
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8295.6	0.0	8295.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6731.7	0.0	6731.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	15027.3	0.0	15027.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1996.2	13.3
10°-20°	5176.2	34.4
20°-30°	4742.8	31.6
30°-40°	1916.1	12.8
40°-50°	562.1	3.7
50°-60°	314.3	2.1
60°-70°	190.9	1.3
70°-80°	97.0	0.6
80°-90°	31.7	0.2
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°	15027.3	100.0
0°-180°	15027.3	100.0

Coefficient of Utilization



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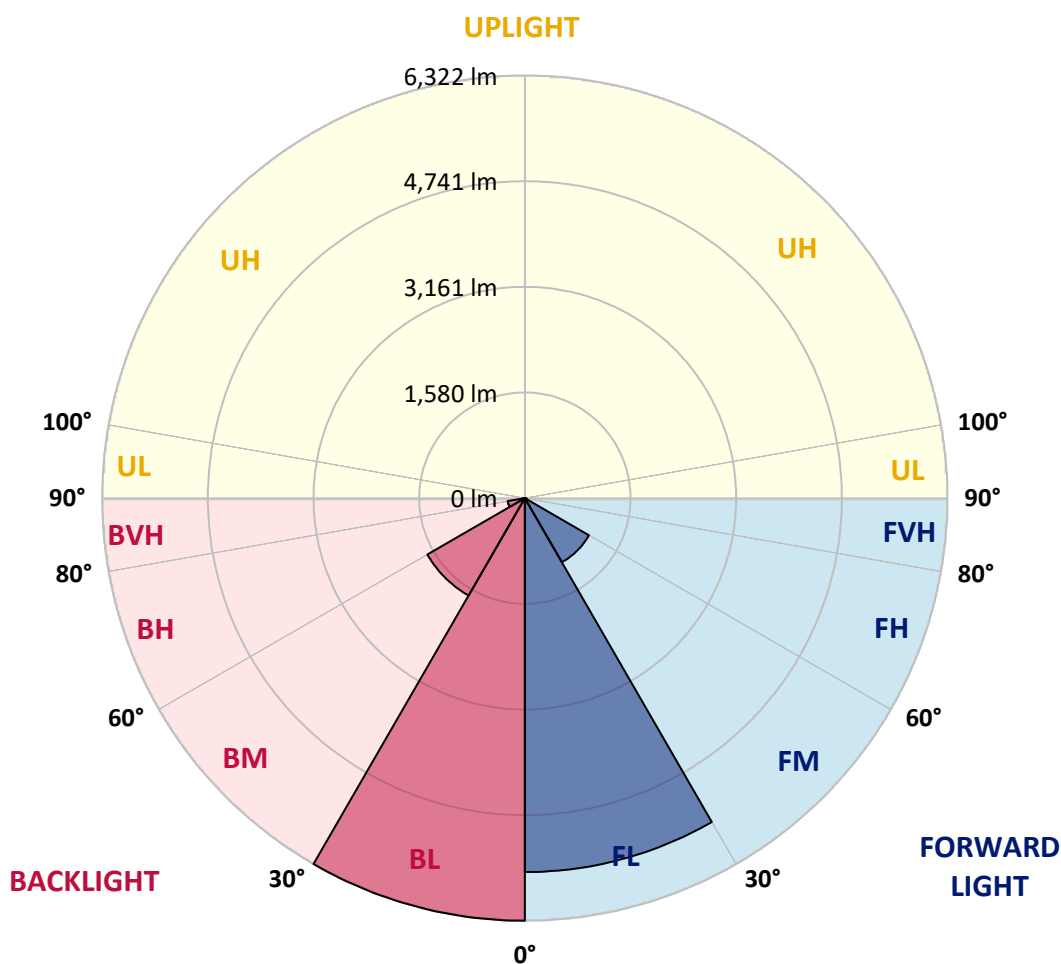
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5593.5	37.2			
FM	(30°-60°)	1108.5	7.4			
FH	(60°-80°)	26.9	0.2			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	6321.7	42.1	B5		
BM	(30°-60°)	1683.9	11.2	B2/2500		
BH	(60°-80°)	261.0	1.7	B1/500		G1/500
BVH	(80°-90°)	29.0	0.2			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°	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2
2.5°	20480.2	20549.5	20410.8	20502.7	20573.7	20743.5	20757.4	20816.3	20837.1	20991.3
5°	20092.0	20145.7	20033.1	20156.1	20256.6	20407.4	20523.5	20686.4	20776.5	20958.4
7.5°	19688.3	19700.4	19677.9	19807.8	19958.6	20166.5	20310.3	20523.5	20578.9	20838.9
10°	19199.6	19111.2	19154.6	19345.2	19570.4	19889.3	19988.0	20201.2	20299.9	20565.1
12.5°	18419.8	18464.9	18411.2	18653.8	18840.9	19203.1	19307.0	19521.9	19710.8	19944.7
15°	17321.2	17295.2	17404.4	17593.3	17796.0	18083.7	18251.8	18485.7	18629.5	18872.1
17.5°	14852.0	14940.3	15390.9	15863.9	16279.8	16616.0	16817.0	17011.1	17115.0	17378.4
20°	12826.3	12715.4	12776.1	13042.9	14226.4	14741.1	14952.5	14999.3	15042.6	15250.5
22.5°	10561.5	10525.1	10727.9	11027.6	11308.4	12495.3	12783.0	12673.8	12763.9	12959.7
25°	7842.7	8026.4	8206.6	8781.9	9145.8	9728.0	10273.9	10322.4	10355.3	10478.3
27.5°	6383.7	6319.6	6316.1	6477.3	7014.4	7499.6	7964.0	8071.5	8052.4	8170.2
30°	5018.2	4997.4	4924.7	4962.8	4909.1	5340.5	5558.9	6000.7	5976.5	5980.0
32.5°	3619.9	3541.9	3512.4	3569.6	3514.2	3474.3	3664.9	4164.0	4155.3	4190.0
35°	2190.3	2179.9	2204.1	2254.4	2143.5	2140.0	2179.9	2649.5	2706.7	2762.1
37.5°	1209.5	1199.1	1218.2	1403.6	1367.2	1334.3	1344.7	1592.5	1757.1	1798.7
40°	797.1	795.4	809.2	842.1	904.5	892.4	897.6	1008.5	1164.5	1200.8
42.5°	533.7	535.4	544.1	582.2	590.9	653.3	642.9	668.9	814.4	845.6
45°	426.3	424.5	429.7	412.4	422.8	486.9	493.9	495.6	620.3	639.4
47.5°	336.2	336.2	341.4	318.8	313.6	353.5	389.9	395.1	495.6	521.6
50°	235.7	235.7	261.7	251.3	263.4	275.5	315.4	320.6	405.5	433.2
52.5°	173.3	176.7	180.2	181.9	221.8	220.1	254.7	279.0	306.7	355.2
55°	131.7	135.2	126.5	135.2	164.6	183.7	190.6	225.3	244.3	298.0
57.5°	86.6	95.3	88.4	104.0	110.9	142.1	152.5	185.4	197.5	244.3
60°	12.1	13.9	22.5	72.8	78.0	93.6	117.8	147.3	159.4	199.3
62.5°	1.7	1.7	5.2	12.1	52.0	62.4	88.4	102.2	117.8	149.0
65°	0.0	0.0	1.7	3.5	10.4	36.4	45.1	55.5	81.4	107.4
67.5°	0.0	0.0	1.7	3.5	5.2	12.1	19.1	36.4	46.8	74.5
70°	0.0	0.0	1.7	3.5	5.2	6.9	10.4	13.9	27.7	43.3
72.5°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	10.4	12.1	27.7
75°	0.0	0.0	1.7	3.5	5.2	8.7	10.4	10.4	10.4	12.1
77.5°	0.0	0.0	1.7	3.5	6.9	10.4	12.1	10.4	8.7	8.7
80°	0.0	0.0	1.7	5.2	8.7	12.1	13.9	10.4	6.9	5.2
82.5°	0.0	0.0	1.7	5.2	8.7	12.1	13.9	12.1	6.9	5.2
85°	0.0	0.0	1.7	5.2	6.9	8.7	13.9	12.1	6.9	3.5
87.5°	0.0	0.0	0.0	1.7	1.7	3.5	6.9	5.2	3.5	1.7
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°
20934.2	0°	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2	20934.2
20987.9	2.5°	21143.8	21221.8	21358.7	21396.8	21514.7	21379.5	21305.0	21311.9	21150.8
20935.9	5°	21143.8	21322.3	21561.4	21675.8	21762.4	21755.5	21736.5	21687.9	21570.1
20831.9	7.5°	21088.4	21379.5	21708.7	21861.2	21965.2	21956.5	21999.8	21921.9	21778.0
20646.5	10°	20909.9	21162.9	21568.4	21693.1	21861.2	21864.7	21811.0	21826.6	21570.1
19969.0	12.5°	20348.5	20546.0	20901.2	21043.3	21247.8	21280.7	21221.8	21199.3	20956.7
18858.2	15°	19262.0	19376.4	19733.3	19875.4	20078.1	20050.4	20109.3	20085.1	19871.9
17357.6	17.5°	17673.0	17709.4	18083.7	18203.2	18393.8	18468.4	18380.0	18492.6	18308.9
15286.9	20°	15394.3	15590.2	16011.2	16194.9	16305.8	16439.2	16323.1	16449.6	16234.8
12774.3	22.5°	13082.8	13198.9	13580.1	13845.2	14051.4	14077.4	14034.1	14122.5	13833.1
10559.8	25°	10558.1	10750.4	11051.9	11398.5	11601.2	11726.0	11613.3	11670.5	11623.7
8189.3	27.5°	8327.9	8499.5	8726.5	8984.7	9289.6	9452.5	9362.4	9459.4	9230.7
6106.4	30°	6111.6	6198.3	6454.7	6728.5	7063.0	7260.5	7269.2	7367.9	7232.8
4278.3	32.5°	4309.5	4385.8	4543.4	4725.4	5044.2	5264.3	5229.6	5243.5	5160.3
2788.1	35°	2802.0	2904.2	3016.8	3103.5	3295.8	3538.4	3519.4	3502.0	3444.8
1833.3	37.5°	1873.2	1913.0	1975.4	2053.4	2178.2	2330.6	2380.9	2318.5	2294.2
1237.2	40°	1266.7	1336.0	1377.6	1436.5	1495.4	1623.6	1658.3	1646.2	1621.9
866.4	42.5°	899.3	953.0	1005.0	1062.2	1093.4	1173.1	1240.7	1221.6	1211.2
658.5	45°	682.7	731.2	791.9	835.2	866.4	913.2	977.3	984.2	968.6
528.5	47.5°	547.6	590.9	639.4	693.1	729.5	759.0	814.4	835.2	824.8
445.3	50°	464.4	497.3	544.1	597.8	637.7	663.7	712.2	734.7	727.8
372.6	52.5°	395.1	434.9	478.3	523.3	571.8	597.8	642.9	675.8	670.6
308.4	55°	327.5	379.5	424.5	469.6	525.0	551.0	590.9	634.2	625.5
261.7	57.5°	285.9	329.2	376.0	419.3	478.3	512.9	549.3	594.4	592.6
214.9	60°	239.1	282.4	334.4	370.8	433.2	481.7	514.6	561.4	564.9
162.9	62.5°	190.6	244.3	284.2	334.4	391.6	448.8	480.0	526.8	544.1
124.8	65°	142.1	201.0	246.1	296.3	350.0	414.1	441.9	488.7	506.0
90.1	67.5°	105.7	150.8	207.9	251.3	311.9	367.4	400.3	443.6	455.7
53.7	70°	79.7	116.1	173.3	211.4	273.8	318.8	351.8	384.7	400.3
36.4	72.5°	46.8	86.6	136.9	181.9	235.7	273.8	298.0	324.0	334.4
17.3	75°	32.9	65.8	107.4	150.8	190.6	221.8	244.3	266.9	277.3
8.7	77.5°	17.3	48.5	84.9	121.3	149.0	175.0	197.5	214.9	221.8
6.9	80°	10.4	34.7	69.3	95.3	114.4	136.9	159.4	171.5	169.8
5.2	82.5°	6.9	27.7	50.3	69.3	83.2	100.5	116.1	124.8	124.8
3.5	85°	5.2	19.1	34.7	53.7	55.5	69.3	72.8	81.4	83.2
3.5	87.5°	3.5	12.1	19.1	31.2	29.5	36.4	38.1	43.3	46.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
20934.2
21020.8
21608.2
21811.0
21495.6
20901.2
19939.5
18263.9
16217.4
13793.2
11594.3
9289.6
7257.0
5207.1
3394.6
2289.1
1625.4
1202.6
966.9
819.6
726.1
667.1
625.5
590.9
564.9
542.4
504.2
455.7
396.8
331.0
273.8
220.1
168.1
123.0
81.4
45.1
0.0

(END OF REPORT)