

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: P637609

Luminaire Tested: **IFLD-S-SA2C-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13168.3 lumens
Efficiency: N/A
Efficacy: 121.7 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): 108.2
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



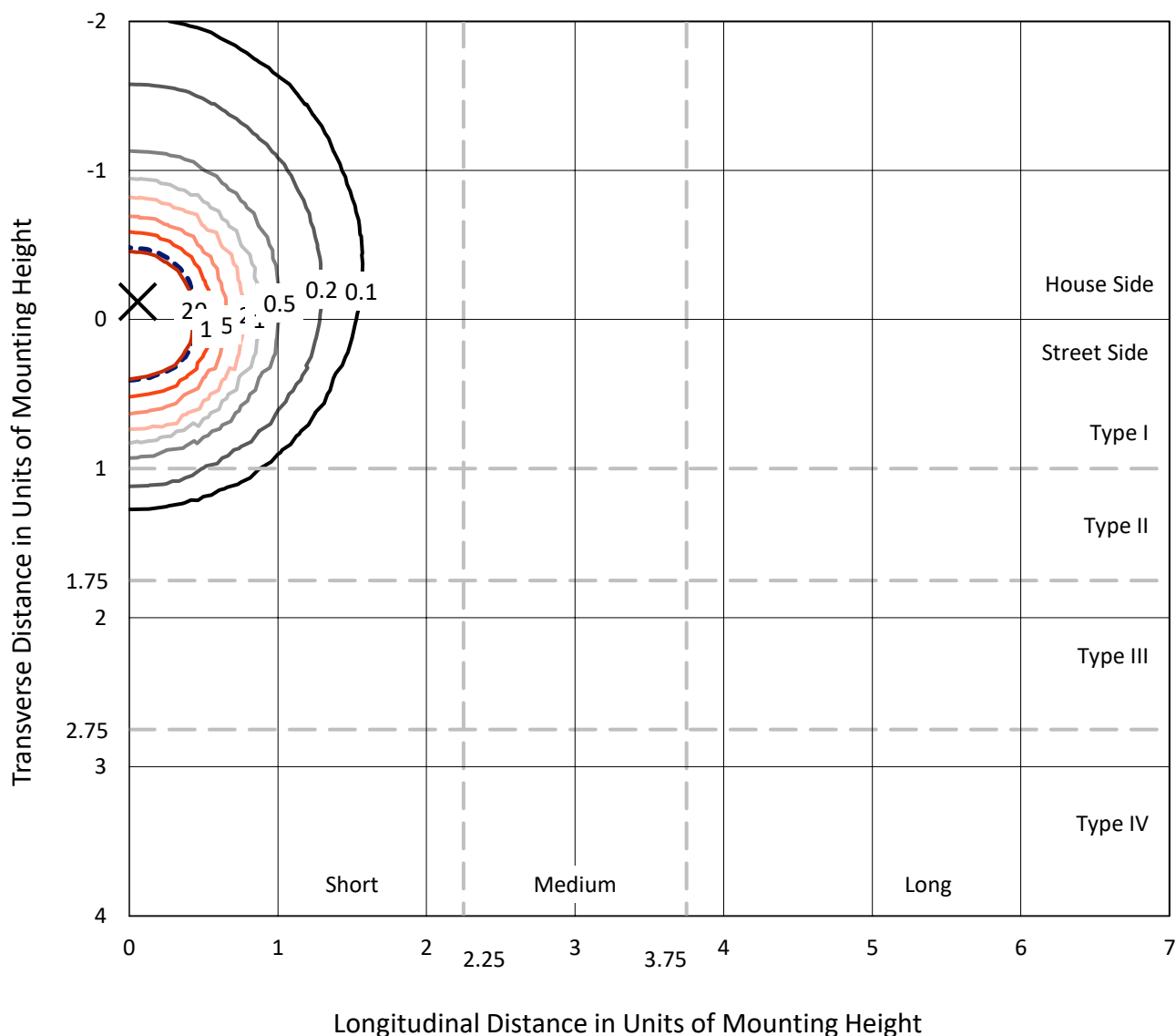
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



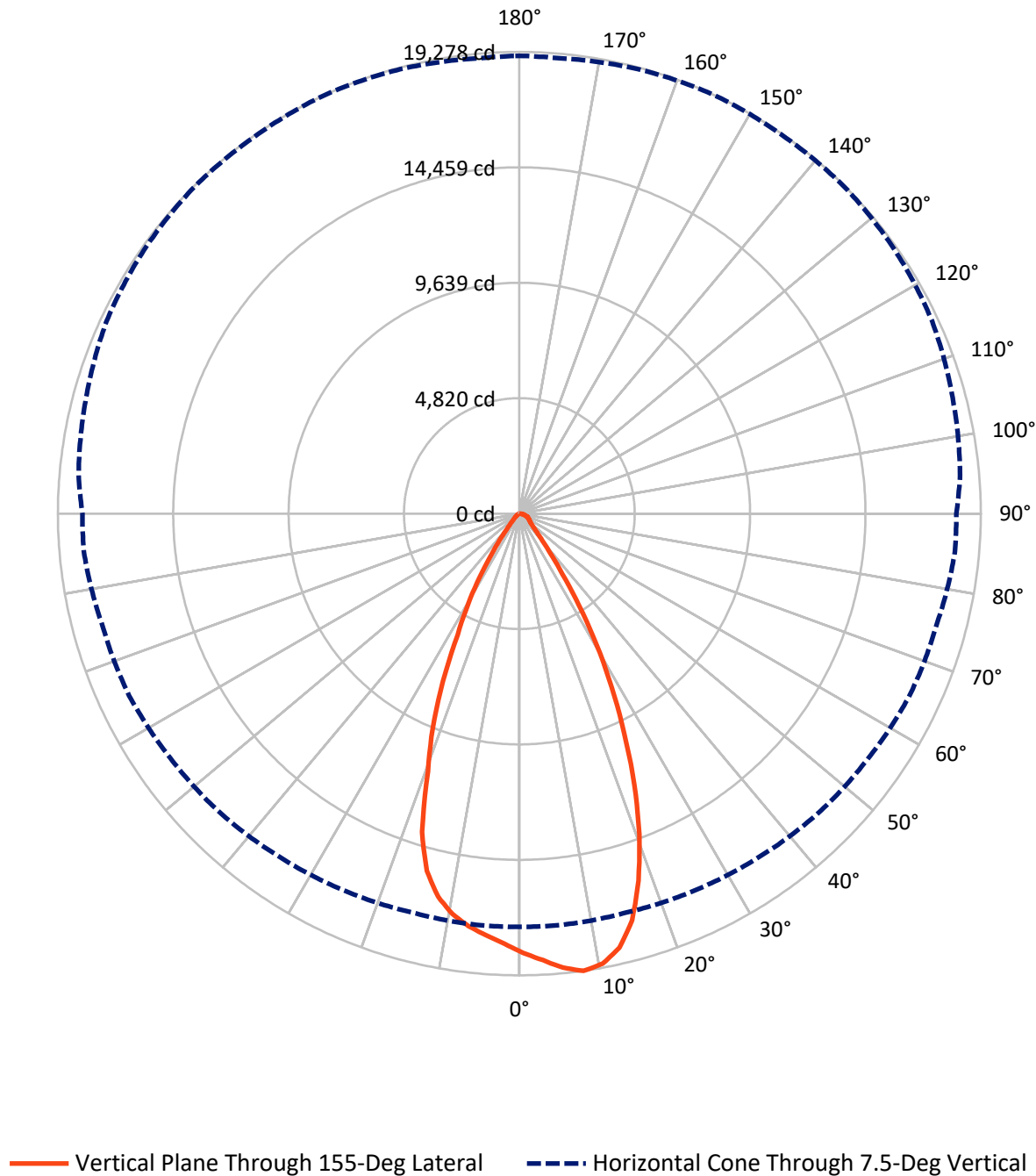
Based on 20 foot mounting height. Maximum calculated value = 46.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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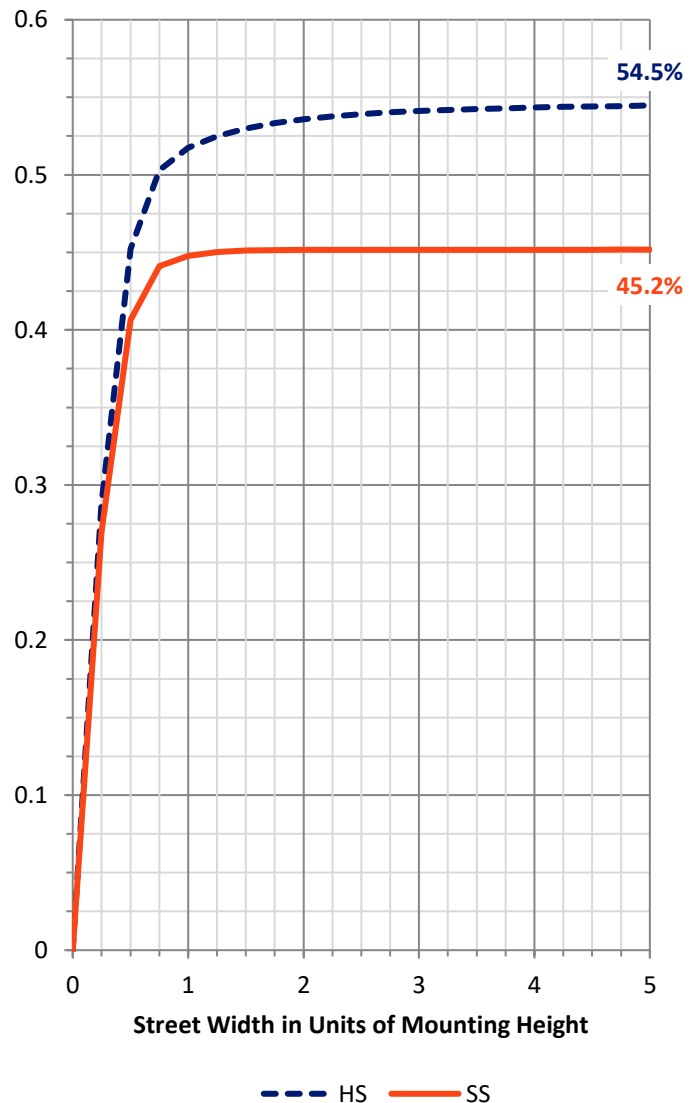
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7269.4	0.0	7269.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5898.9	0.0	5898.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	13168.3	0.0	13168.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1749.3	13.3
10°-20°	4535.9	34.4
20°-30°	4156.1	31.6
30°-40°	1679.1	12.8
40°-50°	492.6	3.7
50°-60°	275.4	2.1
60°-70°	167.3	1.3
70°-80°	85.0	0.6
80°-90°	27.8	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°	13168.3	100.0
0°-180°	13168.3	100.0

Coefficient of Utilization



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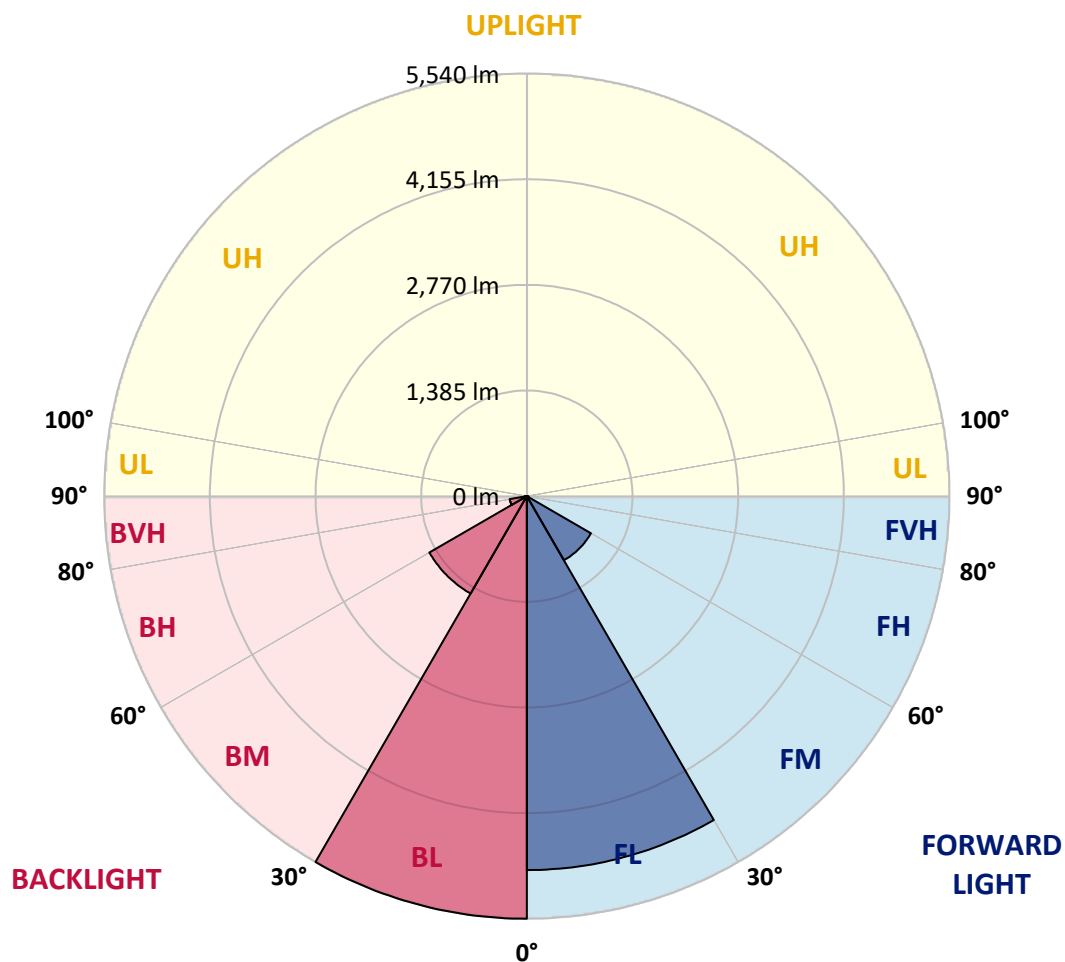
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4901.6	37.2			
FM	(30°-60°)	971.4	7.4			
FH	(60°-80°)	23.5	0.2			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	5539.7	42.1	B5		
BM	(30°-60°)	1475.6	11.2	B2/2500		
BH	(60°-80°)	228.7	1.7	B1/500		G1/500
BVH	(80°-90°)	25.4	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°	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5
2.5°	17946.7	18007.4	17885.9	17966.4	18028.7	18177.5	18189.6	18241.2	18259.5	18394.6
5°	17606.5	17653.6	17554.9	17662.7	17750.8	17882.9	17984.6	18127.4	18206.3	18365.8
7.5°	17252.7	17263.4	17243.6	17357.5	17489.6	17671.8	17797.9	17984.6	18033.2	18261.0
10°	16824.5	16747.1	16785.0	16952.1	17149.5	17428.9	17515.4	17702.2	17788.7	18021.1
12.5°	16141.2	16180.7	16133.6	16346.2	16510.2	16827.6	16918.7	17107.0	17272.5	17477.5
15°	15178.5	15155.7	15251.4	15416.9	15594.6	15846.6	15993.9	16198.9	16324.9	16537.5
17.5°	13014.7	13092.1	13486.9	13901.5	14265.9	14560.5	14736.6	14906.7	14997.8	15228.6
20°	11239.6	11142.4	11195.6	11429.4	12466.5	12917.5	13102.8	13143.8	13181.7	13364.0
22.5°	9255.0	9223.1	9400.8	9663.5	9909.5	10949.6	11201.7	11106.0	11185.0	11356.6
25°	6872.5	7033.5	7191.4	7695.5	8014.4	8524.6	9002.9	9045.5	9074.3	9182.1
27.5°	5594.0	5537.8	5534.8	5676.0	6146.7	6571.9	6978.8	7073.0	7056.3	7159.5
30°	4397.5	4379.2	4315.5	4348.9	4301.8	4679.9	4871.2	5258.4	5237.2	5240.2
32.5°	3172.1	3103.7	3077.9	3128.0	3079.4	3044.5	3211.5	3648.9	3641.3	3671.6
35°	1919.3	1910.2	1931.5	1975.5	1878.3	1875.3	1910.2	2321.7	2371.8	2420.4
37.5°	1059.9	1050.8	1067.5	1230.0	1198.1	1169.2	1178.3	1395.5	1539.7	1576.2
40°	698.5	697.0	709.1	738.0	792.6	782.0	786.6	883.7	1020.4	1052.3
42.5°	467.7	469.2	476.8	510.2	517.8	572.5	563.3	586.1	713.7	741.0
45°	373.5	372.0	376.6	361.4	370.5	426.7	432.8	434.3	543.6	560.3
47.5°	294.6	294.6	299.1	279.4	274.8	309.8	341.7	346.2	434.3	457.1
50°	206.5	206.5	229.3	220.2	230.8	241.4	276.4	280.9	355.3	379.6
52.5°	151.8	154.9	157.9	159.4	194.4	192.8	223.2	244.5	268.8	311.3
55°	115.4	118.4	110.8	118.4	144.3	161.0	167.0	197.4	214.1	261.2
57.5°	75.9	83.5	77.4	91.1	97.2	124.5	133.6	162.5	173.1	214.1
60°	10.6	12.1	19.7	63.8	68.3	82.0	103.3	129.1	139.7	174.6
62.5°	1.5	1.5	4.6	10.6	45.6	54.7	77.4	89.6	103.3	130.6
65°	0.0	0.0	1.5	3.0	9.1	31.9	39.5	48.6	71.4	94.1
67.5°	0.0	0.0	1.5	3.0	4.6	10.6	16.7	31.9	41.0	65.3
70°	0.0	0.0	1.5	3.0	4.6	6.1	9.1	12.1	24.3	38.0
72.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	9.1	10.6	24.3
75°	0.0	0.0	1.5	3.0	4.6	7.6	9.1	9.1	9.1	10.6
77.5°	0.0	0.0	1.5	3.0	6.1	9.1	10.6	9.1	7.6	7.6
80°	0.0	0.0	1.5	4.6	7.6	10.6	12.1	9.1	6.1	4.6
82.5°	0.0	0.0	1.5	4.6	7.6	10.6	12.1	10.6	6.1	4.6
85°	0.0	0.0	1.5	4.6	6.1	7.6	12.1	10.6	6.1	3.0
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	6.1	4.6	3.0	1.5
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°
18344.5	0°	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5	18344.5
18391.6	2.5°	18528.2	18596.6	18716.5	18749.9	18853.2	18734.7	18669.4	18675.5	18534.3
18346.0	5°	18528.2	18684.6	18894.2	18994.4	19070.3	19064.2	19047.5	19005.0	18901.8
18254.9	7.5°	18479.6	18734.7	19023.2	19156.9	19248.0	19240.4	19278.3	19210.0	19084.0
18092.4	10°	18323.2	18544.9	18900.3	19009.6	19156.9	19159.9	19112.8	19126.5	18901.8
17498.7	12.5°	17831.3	18004.4	18315.6	18440.2	18619.3	18648.2	18596.6	18576.8	18364.2
16525.4	15°	16879.2	16979.4	17292.2	17416.7	17594.4	17570.1	17621.7	17600.5	17413.7
15210.4	17.5°	15486.8	15518.6	15846.6	15951.4	16118.4	16183.7	16106.3	16205.0	16044.0
13395.8	20°	13490.0	13661.6	14030.6	14191.5	14288.7	14405.6	14303.9	14414.7	14226.4
11194.1	22.5°	11464.4	11566.1	11900.2	12132.5	12313.2	12336.0	12298.0	12375.4	12121.9
9253.5	25°	9252.0	9420.5	9684.7	9988.4	10166.1	10275.4	10176.7	10226.8	10185.8
7176.2	27.5°	7297.7	7448.0	7647.0	7873.2	8140.5	8283.2	8204.2	8289.3	8088.8
5351.0	30°	5355.6	5431.5	5656.3	5896.2	6189.2	6362.3	6369.9	6456.5	6338.0
3749.1	32.5°	3776.4	3843.2	3981.4	4140.8	4420.2	4613.1	4582.7	4594.9	4522.0
2443.2	35°	2455.3	2544.9	2643.6	2719.6	2888.1	3100.7	3084.0	3068.8	3018.7
1606.5	37.5°	1641.5	1676.4	1731.0	1799.4	1908.7	2042.3	2086.4	2031.7	2010.4
1084.2	40°	1110.0	1170.7	1207.2	1258.8	1310.4	1422.8	1453.2	1442.5	1421.3
759.2	42.5°	788.1	835.2	880.7	930.8	958.1	1028.0	1087.2	1070.5	1061.4
577.0	45°	598.3	640.8	693.9	731.9	759.2	800.2	856.4	862.5	848.8
463.1	47.5°	479.8	517.8	560.3	607.4	639.3	665.1	713.7	731.9	722.8
390.2	50°	406.9	435.8	476.8	523.9	558.8	581.6	624.1	643.8	637.8
326.5	52.5°	346.2	381.1	419.1	458.6	501.1	523.9	563.3	592.2	587.6
270.3	55°	287.0	332.5	372.0	411.5	460.1	482.9	517.8	555.8	548.2
229.3	57.5°	250.5	288.5	329.5	367.5	419.1	449.5	481.4	520.8	519.3
188.3	60°	209.5	247.5	293.1	325.0	379.6	422.1	451.0	492.0	495.0
142.7	62.5°	167.0	214.1	249.0	293.1	343.2	393.3	420.6	461.6	476.8
109.3	65°	124.5	176.1	215.6	259.7	306.7	362.9	387.2	428.2	443.4
79.0	67.5°	92.6	132.1	182.2	220.2	273.3	321.9	350.8	388.7	399.4
47.1	70°	69.8	101.7	151.8	185.3	239.9	279.4	308.2	337.1	350.8
31.9	72.5°	41.0	75.9	120.0	159.4	206.5	239.9	261.2	284.0	293.1
15.2	75°	28.9	57.7	94.1	132.1	167.0	194.4	214.1	233.8	243.0
7.6	77.5°	15.2	42.5	74.4	106.3	130.6	153.4	173.1	188.3	194.4
6.1	80°	9.1	30.4	60.7	83.5	100.2	120.0	139.7	150.3	148.8
4.6	82.5°	6.1	24.3	44.0	60.7	72.9	88.1	101.7	109.3	109.3
3.0	85°	4.6	16.7	30.4	47.1	48.6	60.7	63.8	71.4	72.9
3.0	87.5°	3.0	10.6	16.7	27.3	25.8	31.9	33.4	38.0	41.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18344.5
18420.4
18935.2
19112.8
18836.5
18315.6
17472.9
16004.6
14211.3
12086.9
10160.0
8140.5
6359.3
4563.0
2974.7
2005.9
1424.3
1053.8
847.3
718.2
636.2
584.6
548.2
517.8
495.0
475.3
441.9
399.4
347.7
290.0
239.9
192.8
147.3
107.8
71.4
39.5
0.0

(END OF REPORT)