

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: P637768

Luminaire Tested: **IFLD-M-SA4B-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637768
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17047.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 166.1
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



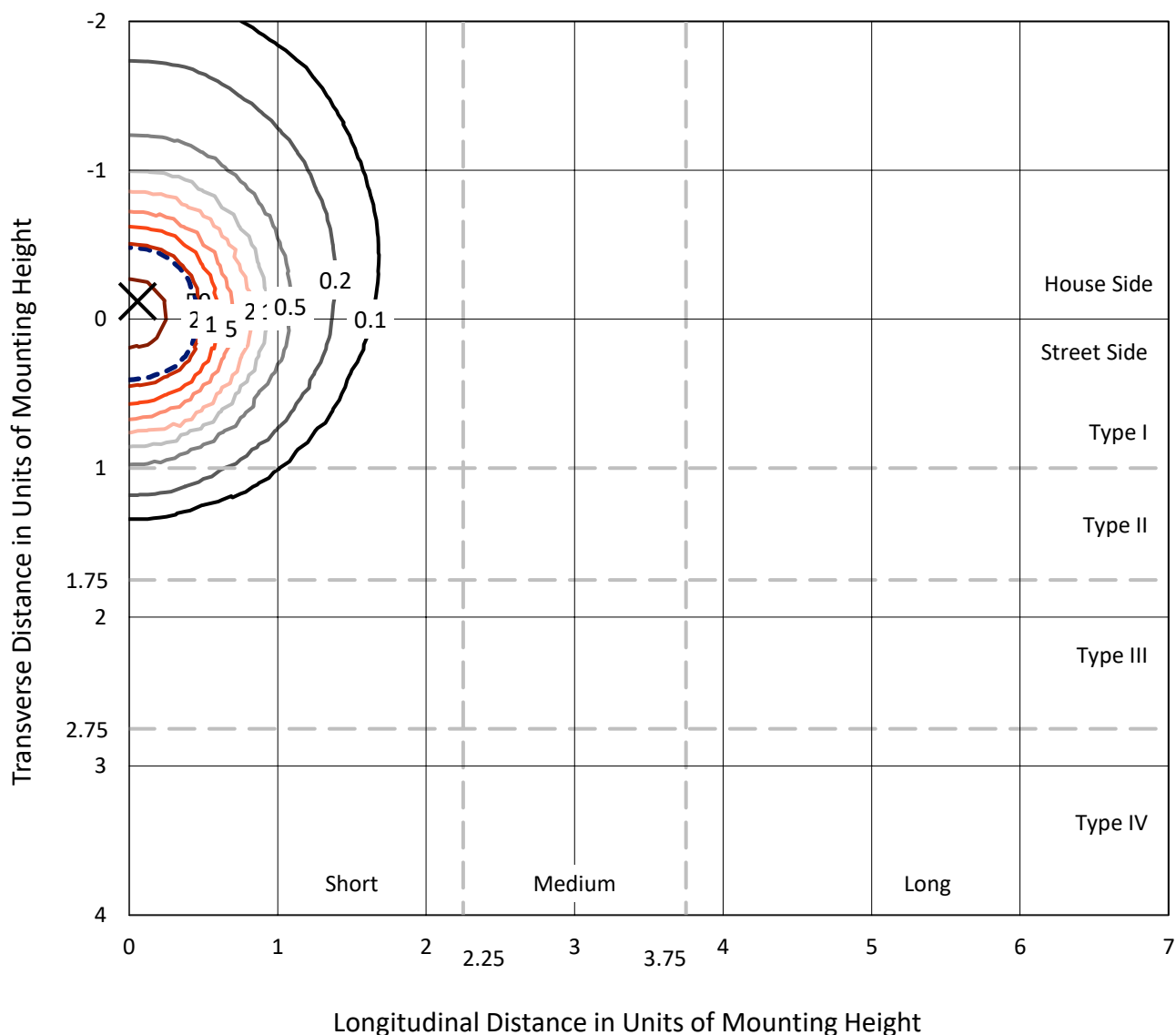
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

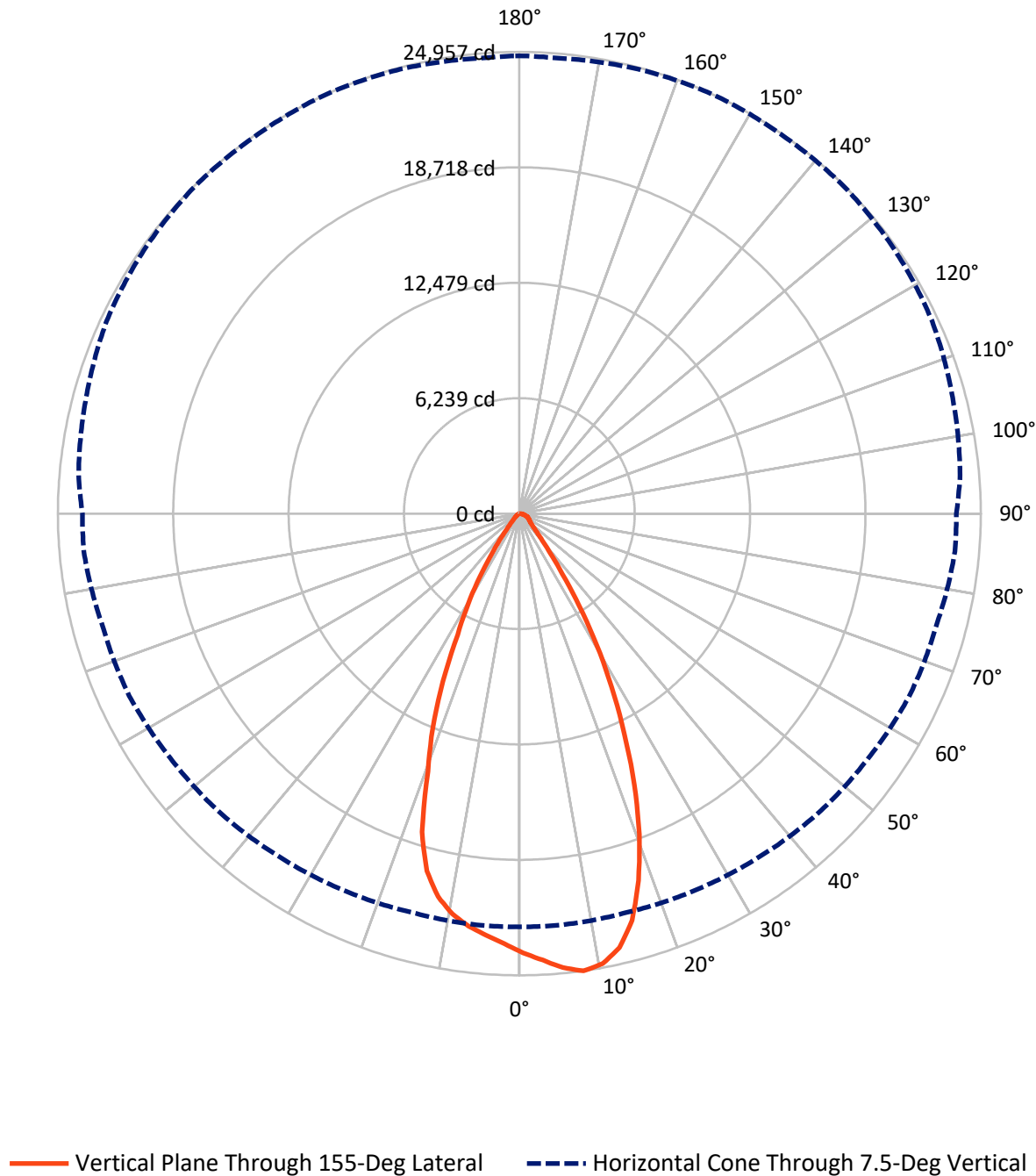


Based on 20 foot mounting height. Maximum calculated value = 60.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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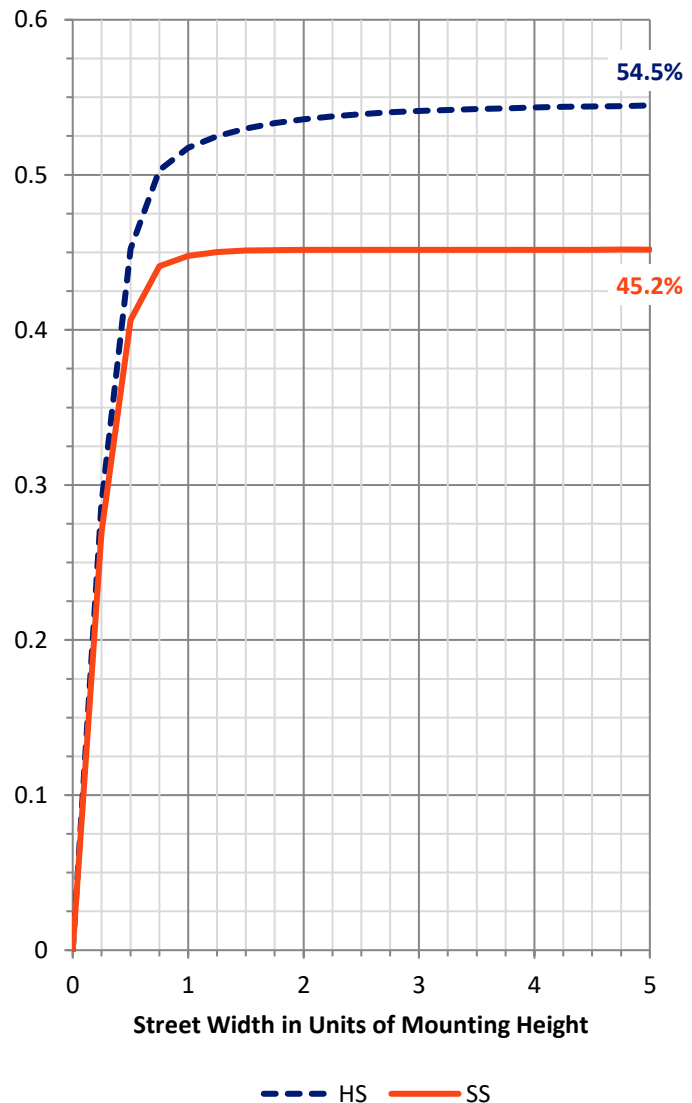
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9410.8	0.0	9410.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7636.6	0.0	7636.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	17047.4	0.0	17047.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2264.6	13.3
10°-20°	5872.0	34.4
20°-30°	5380.4	31.6
30°-40°	2173.7	12.8
40°-50°	637.7	3.7
50°-60°	356.5	2.1
60°-70°	216.5	1.3
70°-80°	110.0	0.6
80°-90°	36.0	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°	17047.4	100.0
0°-180°	17047.4	100.0

Coefficient of Utilization



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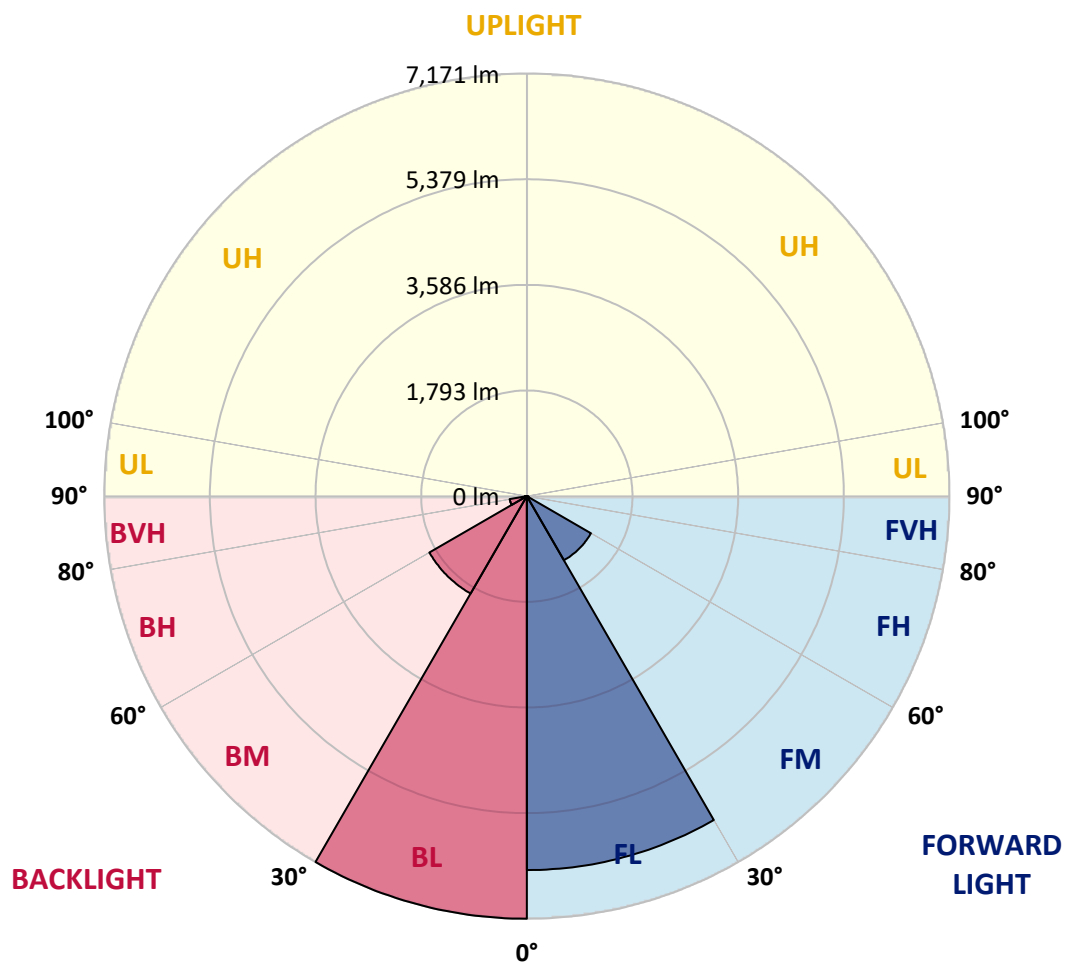
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6345.5	37.2			
FM	(30°-60°)	1257.6	7.4			
FH	(60°-80°)	30.5	0.2			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	7171.5	42.1	B5		
BM	(30°-60°)	1910.3	11.2	B2/2500		
BH	(60°-80°)	296.1	1.7	B1/500		G1/500
BVH	(80°-90°)	32.9	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°	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3
2.5°	23233.3	23311.9	23154.7	23258.8	23339.4	23532.1	23547.8	23614.6	23638.2	23813.2
5°	22793.0	22853.9	22726.1	22865.7	22979.7	23150.7	23282.4	23467.2	23569.4	23775.8
7.5°	22334.9	22348.7	22323.1	22470.6	22641.6	22877.5	23040.6	23282.4	23345.3	23640.2
10°	21780.6	21680.3	21729.5	21945.7	22201.3	22563.0	22675.0	22916.8	23028.9	23329.6
12.5°	20896.0	20947.1	20886.2	21161.4	21373.7	21784.5	21902.5	22146.2	22360.5	22625.9
15°	19649.7	19620.2	19744.1	19958.3	20188.3	20514.6	20705.3	20970.7	21133.9	21409.1
17.5°	16848.5	16948.8	17459.9	17996.5	18468.3	18849.7	19077.7	19297.8	19415.8	19714.6
20°	14550.5	14424.7	14493.5	14796.3	16138.9	16722.7	16962.5	17015.6	17064.7	17300.6
22.5°	11981.3	11940.0	12170.0	12510.1	12828.5	14175.1	14501.4	14377.6	14479.8	14701.9
25°	8897.0	9105.4	9309.8	9962.5	10375.3	11035.8	11655.0	11710.0	11747.4	11886.9
27.5°	7241.9	7169.1	7165.2	7348.0	7957.4	8507.8	9034.6	9156.5	9134.9	9268.5
30°	5692.8	5669.2	5586.7	5629.9	5569.0	6058.5	6306.2	6807.4	6779.9	6783.8
32.5°	4106.5	4018.0	3984.6	4049.5	3986.6	3941.3	4157.6	4723.7	4713.9	4753.2
35°	2484.7	2472.9	2500.4	2557.5	2431.6	2427.7	2472.9	3005.6	3070.5	3133.4
37.5°	1372.1	1360.3	1381.9	1592.3	1551.0	1513.6	1525.4	1806.5	1993.3	2040.5
40°	904.2	902.3	918.0	955.4	1026.1	1012.4	1018.3	1144.1	1321.0	1362.3
42.5°	605.5	607.4	617.2	660.5	670.3	741.1	729.3	758.8	923.9	959.3
45°	483.6	481.6	487.5	467.9	479.6	552.4	560.2	562.2	703.7	725.4
47.5°	381.4	381.4	387.3	361.7	355.8	401.0	442.3	448.2	562.2	591.7
50°	267.3	267.3	296.8	285.0	298.8	312.6	357.8	363.7	460.0	491.4
52.5°	196.6	200.5	204.4	206.4	251.6	249.7	289.0	316.5	347.9	403.0
55°	149.4	153.3	143.5	153.3	186.7	208.4	216.2	255.5	277.2	338.1
57.5°	98.3	108.1	100.3	117.9	125.8	161.2	173.0	210.3	224.1	277.2
60°	13.8	15.7	25.6	82.6	88.5	106.2	133.7	167.1	180.8	226.1
62.5°	2.0	2.0	5.9	13.8	59.0	70.8	100.3	116.0	133.7	169.1
65°	0.0	0.0	2.0	3.9	11.8	41.3	51.1	62.9	92.4	121.9
67.5°	0.0	0.0	2.0	3.9	5.9	13.8	21.6	41.3	53.1	84.5
70°	0.0	0.0	2.0	3.9	5.9	7.9	11.8	15.7	31.5	49.1
72.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.8	11.8	13.8	31.5
75°	0.0	0.0	2.0	3.9	5.9	9.8	11.8	11.8	11.8	13.8
77.5°	0.0	0.0	2.0	3.9	7.9	11.8	13.8	11.8	9.8	9.8
80°	0.0	0.0	2.0	5.9	9.8	13.8	15.7	11.8	7.9	5.9
82.5°	0.0	0.0	2.0	5.9	9.8	13.8	15.7	13.8	7.9	5.9
85°	0.0	0.0	2.0	5.9	7.9	9.8	15.7	13.8	7.9	3.9
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	7.9	5.9	3.9	2.0
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°
23748.3	0°	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3	23748.3
23809.3	2.5°	23986.2	24074.6	24229.9	24273.2	24406.8	24253.5	24169.0	24176.9	23994.0
23750.3	5°	23986.2	24188.6	24459.9	24589.7	24688.0	24680.1	24658.5	24603.4	24469.8
23632.3	7.5°	23923.3	24253.5	24627.0	24800.0	24917.9	24908.1	24957.3	24868.8	24705.6
23422.0	10°	23720.8	24007.8	24467.8	24609.3	24800.0	24803.9	24743.0	24760.7	24469.8
22653.4	12.5°	23083.9	23308.0	23711.0	23872.2	24104.1	24141.5	24074.6	24049.1	23773.9
21393.3	15°	21851.4	21981.1	22386.0	22547.2	22777.2	22745.8	22812.6	22785.1	22543.3
19691.0	17.5°	20048.8	20090.0	20514.6	20650.3	20866.5	20951.0	20850.8	20978.6	20770.2
17341.9	20°	17463.8	17685.9	18163.6	18372.0	18497.8	18649.1	18517.4	18660.9	18417.2
14491.6	22.5°	14841.5	14973.2	15405.6	15706.4	15940.3	15969.8	15920.7	16020.9	15692.6
11979.3	25°	11977.4	12195.6	12537.6	12930.8	13160.7	13302.3	13174.5	13239.4	13186.3
9290.2	27.5°	9447.4	9642.0	9899.6	10192.5	10538.4	10723.2	10621.0	10731.1	10471.6
6927.3	30°	6933.2	7031.5	7322.4	7633.0	8012.4	8236.5	8246.4	8358.4	8205.1
4853.5	32.5°	4888.8	4975.3	5154.2	5360.6	5722.3	5972.0	5932.7	5948.4	5854.0
3162.9	35°	3178.6	3294.6	3422.4	3520.7	3738.9	4014.1	3992.5	3972.8	3907.9
2079.8	37.5°	2125.0	2170.2	2241.0	2329.4	2471.0	2643.9	2701.0	2630.2	2602.7
1403.6	40°	1437.0	1515.6	1562.8	1629.6	1696.4	1841.9	1881.2	1867.5	1839.9
982.9	42.5°	1020.2	1081.2	1140.1	1205.0	1240.4	1330.8	1407.5	1385.9	1374.1
747.0	45°	774.5	829.5	898.4	947.5	982.9	1036.0	1108.7	1116.6	1098.9
599.6	47.5°	621.2	670.3	725.4	786.3	827.6	861.0	923.9	947.5	935.7
505.2	50°	526.8	564.2	617.2	678.2	723.4	752.9	807.9	833.5	825.6
422.6	52.5°	448.2	493.4	542.5	593.7	648.7	678.2	729.3	766.6	760.7
349.9	55°	371.5	430.5	481.6	532.7	595.6	625.1	670.3	719.5	709.6
296.8	57.5°	324.4	373.5	426.6	475.7	542.5	581.9	623.1	674.3	672.3
243.8	60°	271.3	320.4	379.4	420.7	491.4	546.5	583.8	636.9	640.8
184.8	62.5°	216.2	277.2	322.4	379.4	444.3	509.1	544.5	597.6	617.2
141.5	65°	161.2	228.0	279.1	336.1	397.1	469.8	501.3	554.3	574.0
102.2	67.5°	119.9	171.0	235.9	285.0	353.8	416.7	454.1	503.2	517.0
60.9	70°	90.4	131.7	196.6	239.8	310.6	361.7	399.0	436.4	454.1
41.3	72.5°	53.1	98.3	155.3	206.4	267.3	310.6	338.1	367.6	379.4
19.7	75°	37.3	74.7	121.9	171.0	216.2	251.6	277.2	302.7	314.5
9.8	77.5°	19.7	55.0	96.3	137.6	169.1	198.5	224.1	243.8	251.6
7.9	80°	11.8	39.3	78.6	108.1	129.7	155.3	180.8	194.6	192.6
5.9	82.5°	7.9	31.5	57.0	78.6	94.4	114.0	131.7	141.5	141.5
3.9	85°	5.9	21.6	39.3	60.9	62.9	78.6	82.6	92.4	94.4
3.9	87.5°	3.9	13.8	21.6	35.4	33.4	41.3	43.2	49.1	53.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23748.3
23846.6
24513.0
24743.0
24385.2
23711.0
22620.0
20719.1
18397.5
15647.4
13152.9
10538.4
8232.6
5907.1
3850.9
2596.8
1843.9
1364.2
1096.9
929.8
823.7
756.8
709.6
670.3
640.8
615.3
572.0
517.0
450.2
375.5
310.6
249.7
190.7
139.6
92.4
51.1
0.0

(END OF REPORT)