

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: P637585

Luminaire Tested: **IFLD-S-SA3C-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637585
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18118.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - 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



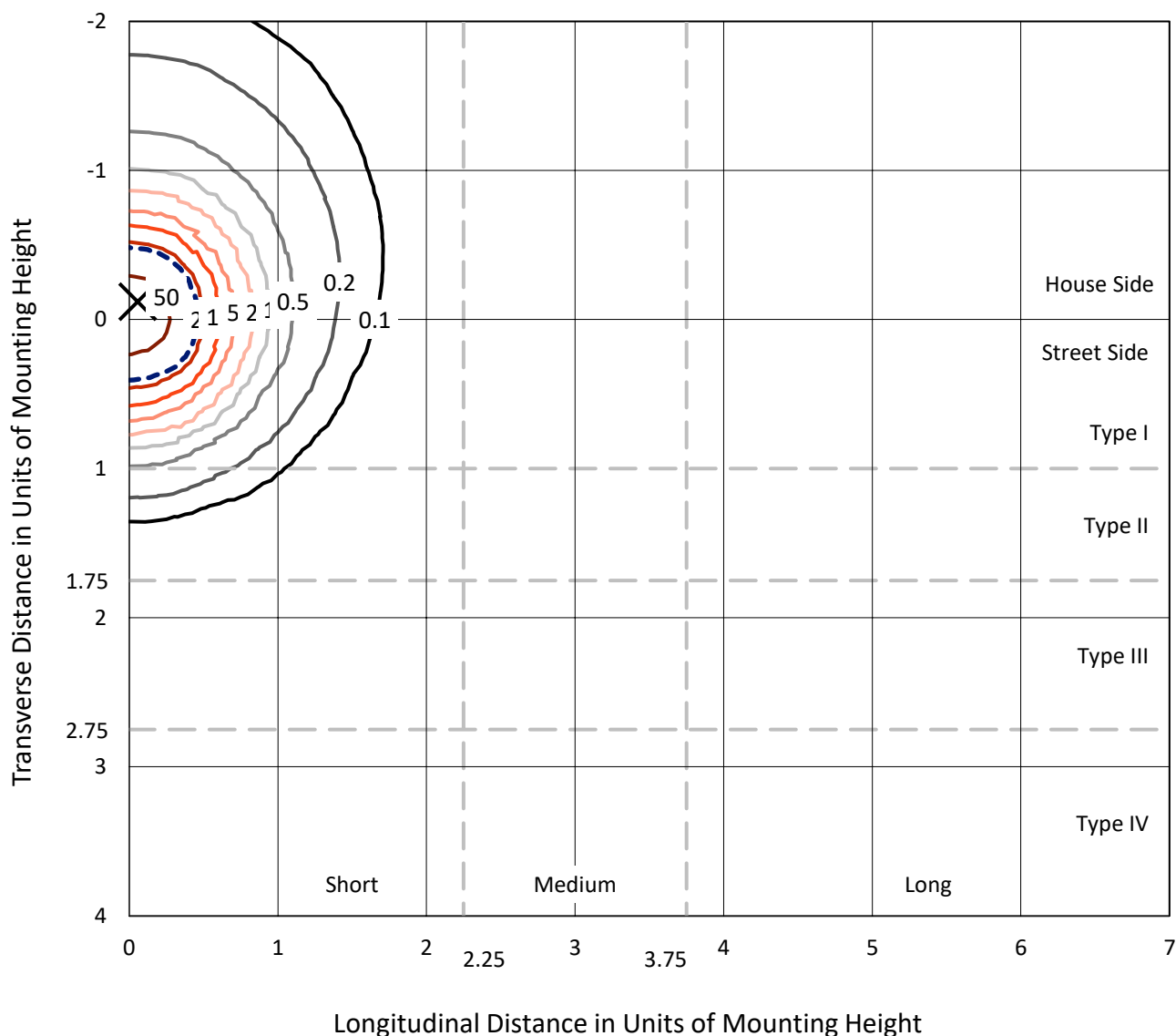
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

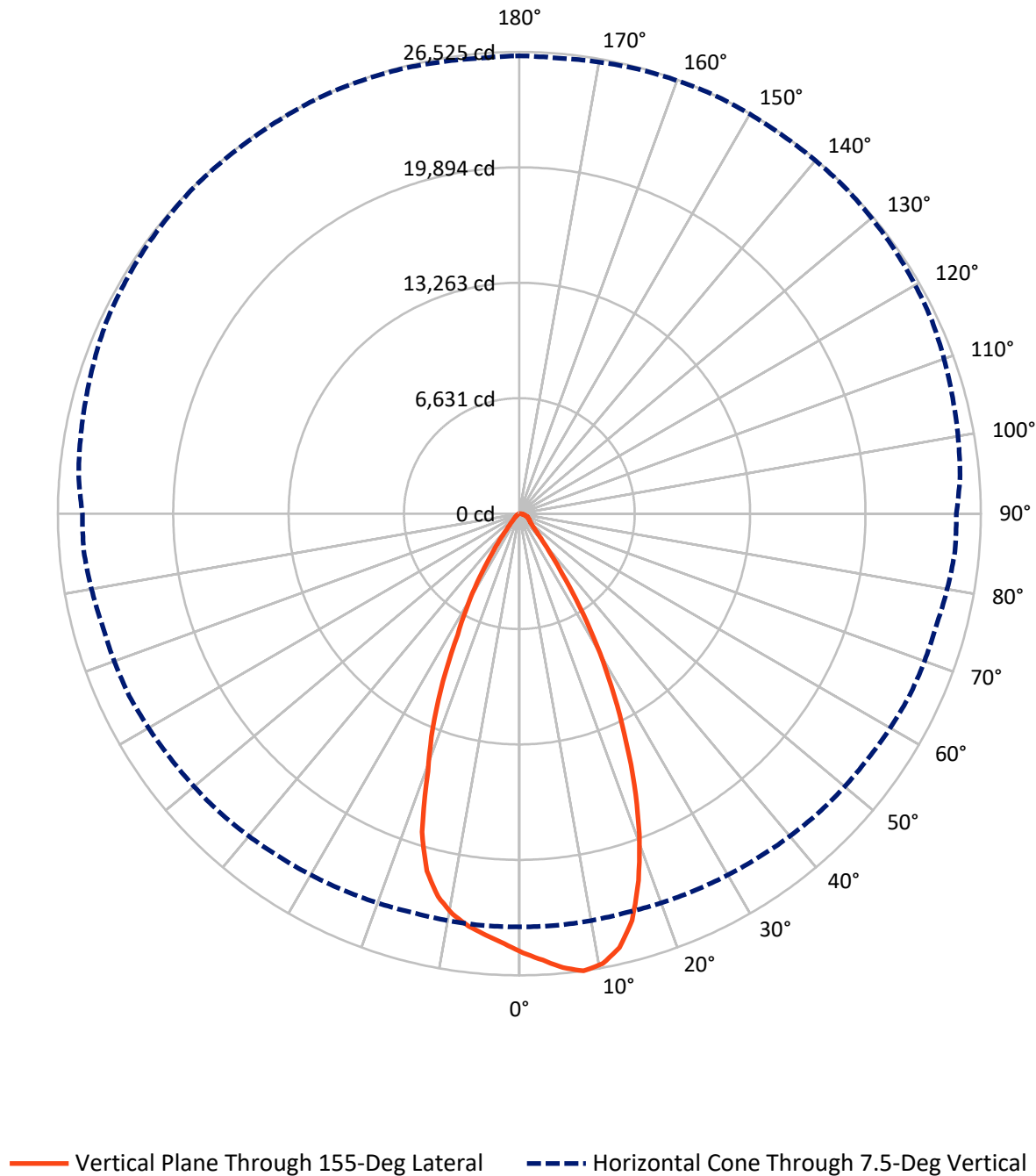


Based on 20 foot mounting height. Maximum calculated value = 64.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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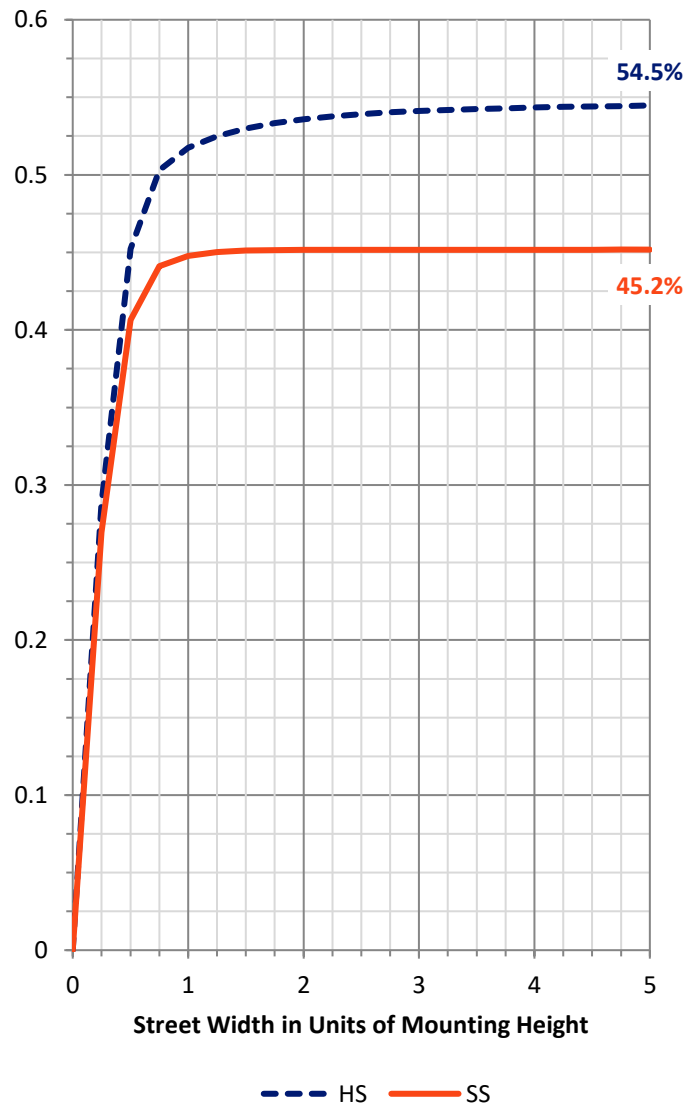
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10002.0	0.0	10002.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8116.3	0.0	8116.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	18118.3	0.0	18118.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2406.8	13.3
10°-20°	6240.9	34.4
20°-30°	5718.4	31.6
30°-40°	2310.2	12.8
40°-50°	677.7	3.7
50°-60°	378.9	2.1
60°-70°	230.2	1.3
70°-80°	116.9	0.6
80°-90°	38.3	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°	18118.3	100.0
0°-180°	18118.3	100.0

Coefficient of Utilization



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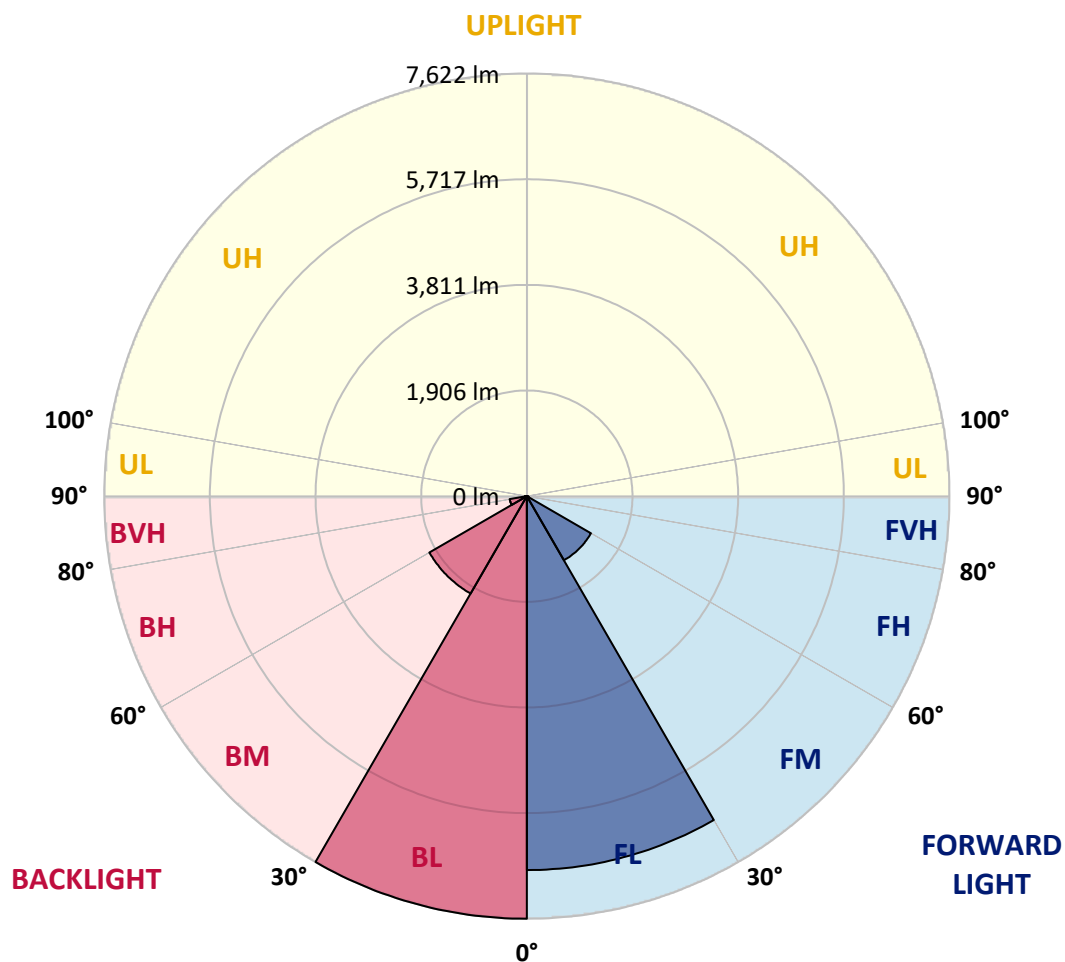
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6744.1	37.2			
FM	(30°-60°)	1336.6	7.4			
FH	(60°-80°)	32.4	0.2			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	7622.0	42.1	B5		
BM	(30°-60°)	2030.3	11.2	B2/2500		
BH	(60°-80°)	314.7	1.7	B1/500		G1/500
BVH	(80°-90°)	34.9	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°	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2
2.5°	24692.8	24776.4	24609.3	24720.0	24805.6	25010.4	25027.1	25098.1	25123.2	25309.2
5°	24224.8	24289.6	24153.8	24302.1	24423.3	24605.1	24745.1	24941.4	25050.1	25269.5
7.5°	23738.0	23752.7	23725.5	23882.2	24064.0	24314.7	24488.1	24745.1	24811.9	25125.3
10°	23148.9	23042.3	23094.6	23324.4	23596.0	23980.4	24099.5	24356.5	24475.5	24795.2
12.5°	22208.7	22263.0	22198.3	22490.8	22716.4	23153.1	23278.4	23537.5	23765.2	24047.2
15°	20884.1	20852.8	20984.4	21212.1	21456.6	21803.4	22006.1	22288.1	22461.5	22754.0
17.5°	17906.9	18013.5	18556.7	19127.1	19628.5	20033.8	20276.2	20510.2	20635.5	20953.1
20°	15464.6	15330.9	15404.0	15725.8	17152.7	17773.2	18028.1	18084.5	18136.8	18387.5
22.5°	12734.0	12690.1	12934.5	13296.0	13634.4	15065.6	15412.4	15280.8	15389.4	15625.5
25°	9455.9	9677.4	9894.7	10588.3	11027.1	11729.0	12387.2	12445.7	12485.3	12633.7
27.5°	7696.8	7619.5	7615.3	7809.6	8457.3	9042.3	9602.2	9731.7	9708.7	9850.8
30°	6050.5	6025.4	5937.6	5983.6	5918.8	6439.1	6702.3	7235.1	7205.8	7210.0
32.5°	4364.4	4270.4	4234.9	4303.9	4237.0	4188.9	4418.8	5020.5	5010.0	5051.8
35°	2640.8	2628.3	2657.5	2718.1	2584.4	2580.2	2628.3	3194.5	3263.4	3330.3
37.5°	1458.3	1445.8	1468.7	1692.3	1648.4	1608.7	1621.3	1920.0	2118.5	2168.6
40°	961.1	959.0	975.7	1015.4	1090.6	1076.0	1082.2	1215.9	1404.0	1447.8
42.5°	643.5	645.6	656.0	702.0	712.4	787.6	775.1	806.4	981.9	1019.6
45°	514.0	511.9	518.1	497.2	509.8	587.1	595.4	597.5	748.0	770.9
47.5°	405.3	405.3	411.6	384.4	378.2	426.2	470.1	476.3	597.5	628.9
50°	284.1	284.1	315.5	302.9	317.6	332.2	380.2	386.5	488.9	522.3
52.5°	208.9	213.1	217.3	219.4	267.4	265.3	307.1	336.4	369.8	428.3
55°	158.8	163.0	152.5	163.0	198.5	221.5	229.8	271.6	294.6	359.4
57.5°	104.5	114.9	106.6	125.4	133.7	171.3	183.9	223.5	238.2	294.6
60°	14.6	16.7	27.2	87.7	94.0	112.8	142.1	177.6	192.2	240.3
62.5°	2.1	2.1	6.3	14.6	62.7	75.2	106.6	123.3	142.1	179.7
65°	0.0	0.0	2.1	4.2	12.5	43.9	54.3	66.9	98.2	129.5
67.5°	0.0	0.0	2.1	4.2	6.3	14.6	23.0	43.9	56.4	89.8
70°	0.0	0.0	2.1	4.2	6.3	8.4	12.5	16.7	33.4	52.2
72.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	12.5	14.6	33.4
75°	0.0	0.0	2.1	4.2	6.3	10.4	12.5	12.5	12.5	14.6
77.5°	0.0	0.0	2.1	4.2	8.4	12.5	14.6	12.5	10.4	10.4
80°	0.0	0.0	2.1	6.3	10.4	14.6	16.7	12.5	8.4	6.3
82.5°	0.0	0.0	2.1	6.3	10.4	14.6	16.7	14.6	8.4	6.3
85°	0.0	0.0	2.1	6.3	8.4	10.4	16.7	14.6	8.4	4.2
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	8.4	6.3	4.2	2.1
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°
25240.2	0°	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2	25240.2
25305.0	2.5°	25493.0	25587.0	25752.1	25798.0	25940.1	25777.1	25687.3	25695.7	25501.4
25242.3	5°	25493.0	25708.2	25996.5	26134.4	26238.9	26230.5	26207.5	26149.0	26007.0
25116.9	7.5°	25426.2	25777.1	26174.1	26358.0	26483.3	26472.9	26525.1	26431.1	26257.7
24893.4	10°	25211.0	25516.0	26004.9	26155.3	26358.0	26362.1	26297.4	26316.2	26007.0
24076.5	12.5°	24534.0	24772.2	25200.5	25371.8	25618.4	25658.1	25587.0	25559.9	25267.4
22737.3	15°	23224.1	23362.0	23792.4	23963.7	24208.1	24174.7	24245.7	24216.5	23959.5
20928.0	17.5°	21308.2	21352.1	21803.4	21947.6	22177.4	22267.2	22160.7	22296.5	22075.0
18431.3	20°	18560.9	18797.0	19304.7	19526.1	19659.8	19820.7	19680.7	19833.2	19574.2
15401.9	22.5°	15773.8	15913.8	16373.4	16693.1	16941.7	16973.1	16920.8	17027.4	16678.5
12731.9	25°	12729.8	12961.7	13325.2	13743.1	13987.5	14137.9	14002.1	14071.1	14014.7
9873.8	27.5°	10040.9	10247.8	10521.5	10832.8	11200.5	11396.9	11288.2	11405.2	11129.4
7362.5	30°	7368.8	7473.2	7782.5	8112.6	8515.8	8754.0	8764.4	8883.5	8720.5
5158.4	32.5°	5196.0	5287.9	5478.0	5697.4	6081.8	6347.1	6305.4	6322.1	6221.8
3361.6	35°	3378.3	3501.6	3637.4	3741.8	3973.8	4266.2	4243.3	4222.4	4153.4
2210.4	37.5°	2258.5	2306.5	2381.7	2475.8	2626.2	2810.0	2870.6	2795.4	2766.2
1491.7	40°	1527.2	1610.8	1661.0	1732.0	1803.0	1957.6	1999.4	1984.8	1955.5
1044.6	42.5°	1084.3	1149.1	1211.8	1280.7	1318.3	1414.4	1495.9	1472.9	1460.4
793.9	45°	823.2	881.7	954.8	1007.0	1044.6	1101.0	1178.3	1186.7	1167.9
637.2	47.5°	660.2	712.4	770.9	835.7	879.6	915.1	981.9	1007.0	994.5
536.9	50°	559.9	599.6	656.0	720.8	768.8	800.2	858.7	885.8	877.5
449.2	52.5°	476.3	524.4	576.6	631.0	689.5	720.8	775.1	814.8	808.5
371.9	55°	394.9	457.5	511.9	566.2	633.0	664.4	712.4	764.7	754.2
315.5	57.5°	344.7	397.0	453.4	505.6	576.6	618.4	662.3	716.6	714.5
259.1	60°	288.3	340.5	403.2	447.1	522.3	580.8	620.5	676.9	681.1
196.4	62.5°	229.8	294.6	342.6	403.2	472.2	541.1	578.7	635.1	656.0
150.4	65°	171.3	242.4	296.7	357.3	422.0	499.3	532.8	589.2	610.1
108.6	67.5°	127.4	181.8	250.7	302.9	376.1	442.9	482.6	534.8	549.5
64.8	70°	96.1	140.0	208.9	254.9	330.1	384.4	424.1	463.8	482.6
43.9	72.5°	56.4	104.5	165.1	219.4	284.1	330.1	359.4	390.7	403.2
20.9	75°	39.7	79.4	129.5	181.8	229.8	267.4	294.6	321.7	334.3
10.4	77.5°	20.9	58.5	102.4	146.2	179.7	211.0	238.2	259.1	267.4
8.4	80°	12.5	41.8	83.6	114.9	137.9	165.1	192.2	206.8	204.7
6.3	82.5°	8.4	33.4	60.6	83.6	100.3	121.2	140.0	150.4	150.4
4.2	85°	6.3	23.0	41.8	64.8	66.9	83.6	87.7	98.2	100.3
4.2	87.5°	4.2	14.6	23.0	37.6	35.5	43.9	46.0	52.2	56.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25240.2
25344.7
26052.9
26297.4
25917.1
25200.5
24041.0
22020.7
19553.3
16630.4
13979.2
11200.5
8749.8
6278.2
4092.8
2759.9
1959.7
1449.9
1165.8
988.2
875.4
804.4
754.2
712.4
681.1
653.9
608.0
549.5
478.4
399.0
330.1
265.3
202.7
148.3
98.2
54.3
0.0

(END OF REPORT)