

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: P637622

Luminaire Tested: **IFLD-M-SA4A-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637622
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17109.5 lumens
Efficiency: N/A
Efficacy: 133.0 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): 128.6
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



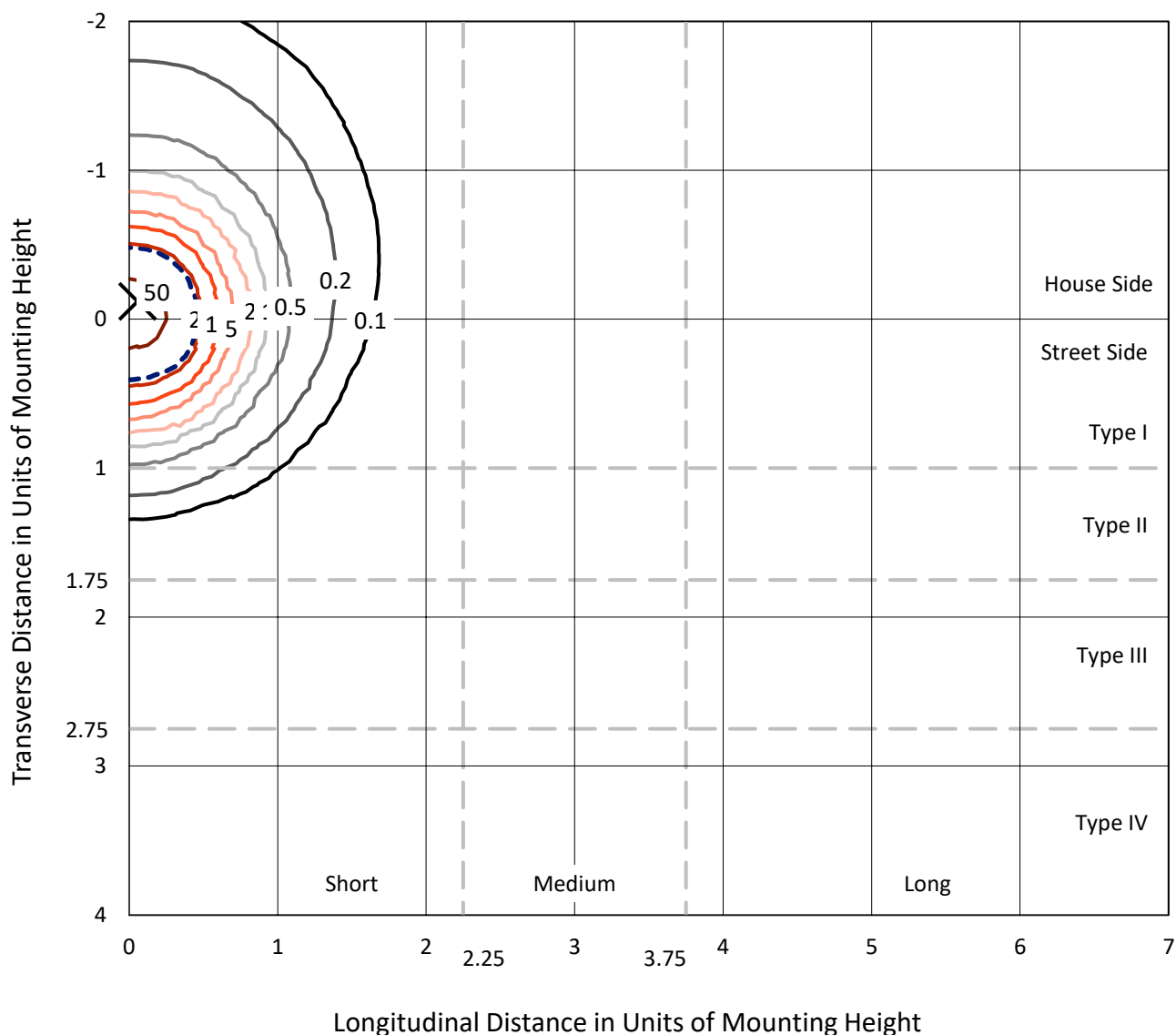
REPORT NUMBER: P637622

CATALOG NUMBER: IFLD-M-SA4A-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

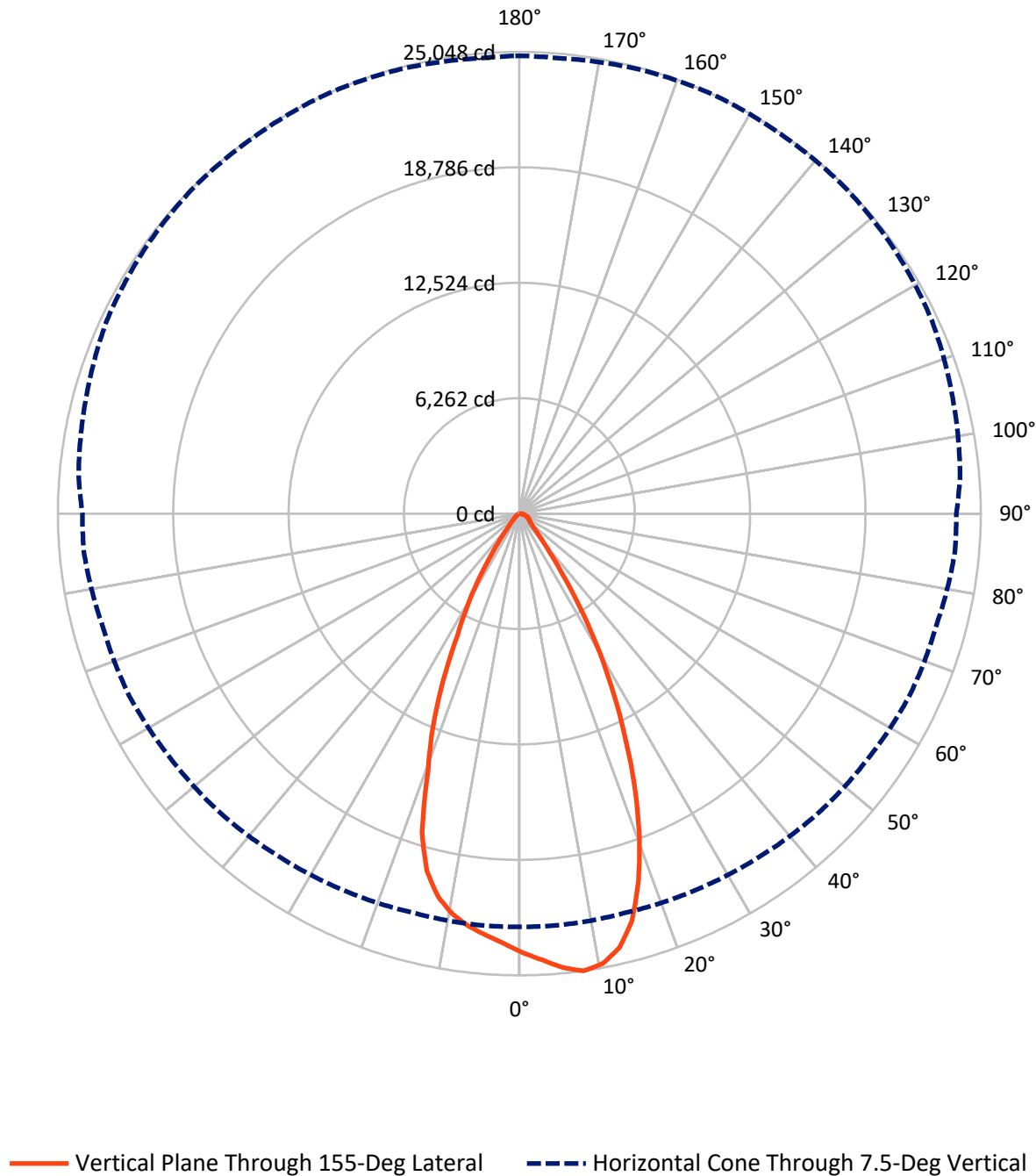


Based on 20 foot mounting height. Maximum calculated value = 60.6 fc

Type I - Short - N/A

REPORT NUMBER: P637622
CATALOG NUMBER: IFLD-M-SA4A-735-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637622

CATALOG NUMBER: IFLD-M-SA4A-735-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9445.1	0.0	9445.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7664.4	0.0	7664.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	17109.5	0.0	17109.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2272.8	13.3
10°-20°	5893.4	34.4
20°-30°	5400.0	31.6
30°-40°	2181.6	12.8
40°-50°	640.0	3.7
50°-60°	357.8	2.1
60°-70°	217.3	1.3
70°-80°	110.4	0.6
80°-90°	36.1	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°	17109.5	100.0
0°-180°	17109.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637622

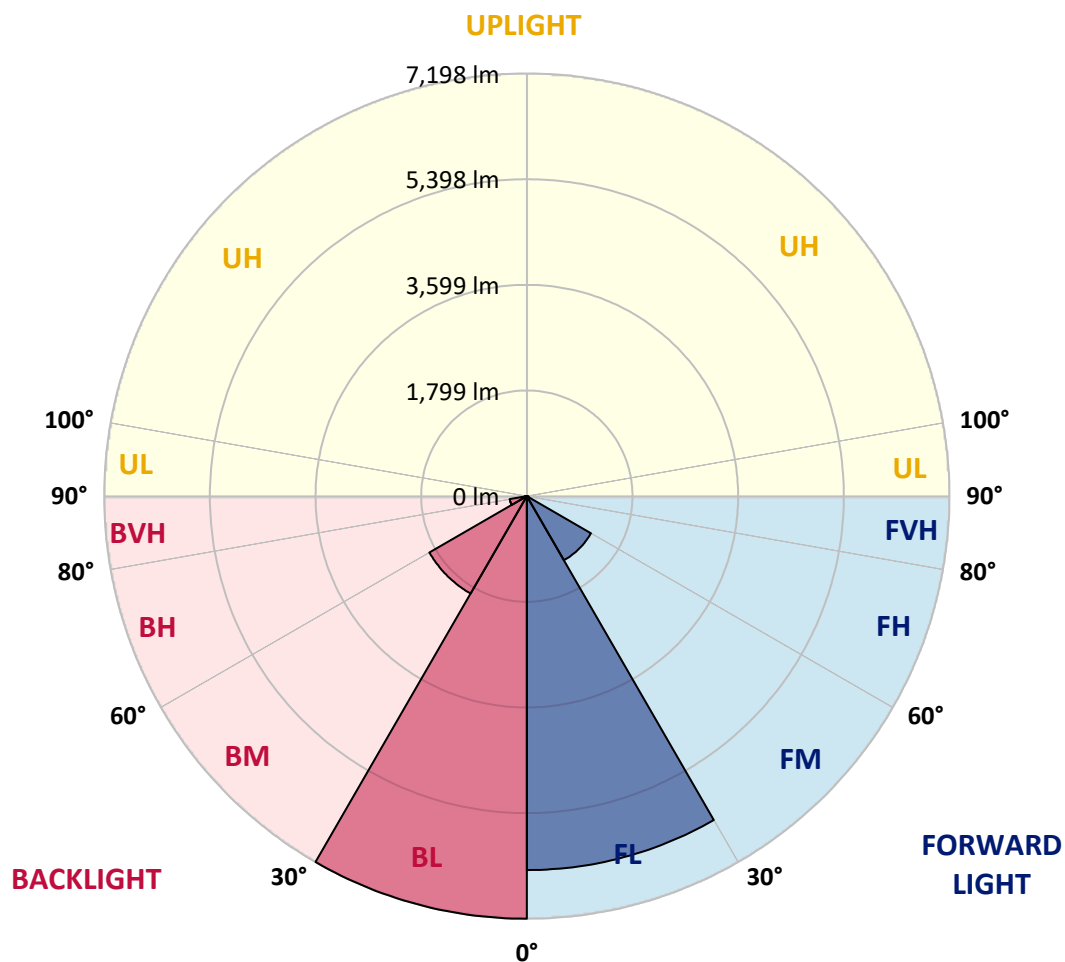
CATALOG NUMBER: IFLD-M-SA4A-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6368.6	37.2			
FM	(30°-60°)	1262.1	7.4			
FH	(60°-80°)	30.6	0.2			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	7197.6	42.1	B5		
BM	(30°-60°)	1917.3	11.2	B2/2500		
BH	(60°-80°)	297.2	1.7	B1/500		G1/500
BVH	(80°-90°)	33.0	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



REPORT NUMBER: P637622

CATALOG NUMBER: IFLD-M-SA4A-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9
2.5°	23318.0	23396.9	23239.0	23343.6	23424.5	23617.8	23633.6	23700.7	23724.4	23900.0
5°	22876.0	22937.2	22809.0	22949.0	23063.5	23235.1	23367.3	23552.7	23655.3	23862.5
7.5°	22416.3	22430.2	22404.5	22552.5	22724.1	22960.9	23124.6	23367.3	23430.4	23726.4
10°	21860.0	21759.4	21808.7	22025.7	22282.2	22645.2	22757.7	23000.3	23112.8	23414.6
12.5°	20972.2	21023.5	20962.3	21238.5	21451.6	21863.9	21982.3	22226.9	22442.0	22708.3
15°	19721.3	19691.7	19816.0	20031.1	20261.9	20589.4	20780.8	21047.1	21210.9	21487.1
17.5°	16909.9	17010.5	17523.5	18062.1	18535.6	18918.3	19147.2	19368.2	19486.6	19786.4
20°	14603.6	14477.3	14546.4	14850.2	16197.7	16783.6	17024.3	17077.6	17126.9	17363.7
22.5°	12025.0	11983.5	12214.4	12555.7	12875.3	14226.7	14554.2	14430.0	14532.5	14755.5
25°	8929.4	9138.6	9343.8	9998.8	10413.1	11076.0	11697.5	11752.7	11790.2	11930.3
27.5°	7268.2	7195.2	7191.3	7374.8	7986.4	8538.8	9067.5	9189.9	9168.2	9302.3
30°	5713.6	5689.9	5607.0	5650.4	5589.3	6080.5	6329.1	6832.2	6804.6	6808.6
32.5°	4121.4	4032.7	3999.1	4064.2	4001.1	3955.7	4172.7	4740.9	4731.1	4770.5
35°	2493.8	2481.9	2509.6	2566.8	2440.5	2436.6	2481.9	3016.6	3081.7	3144.8
37.5°	1377.1	1365.3	1387.0	1598.1	1556.6	1519.1	1531.0	1813.1	2000.5	2047.9
40°	907.5	905.6	921.4	958.8	1029.9	1016.1	1022.0	1148.2	1325.8	1367.2
42.5°	607.7	609.6	619.5	662.9	672.8	743.8	732.0	761.5	927.3	962.8
45°	485.3	483.4	489.3	469.6	481.4	554.4	562.3	564.3	706.3	728.0
47.5°	382.7	382.7	388.7	363.0	357.1	402.5	443.9	449.8	564.3	593.8
50°	268.3	268.3	297.9	286.1	299.9	313.7	359.1	365.0	461.7	493.2
52.5°	197.3	201.2	205.2	207.2	252.5	250.6	290.0	317.6	349.2	404.4
55°	149.9	153.9	144.0	153.9	187.4	209.1	217.0	256.5	278.2	339.3
57.5°	98.6	108.5	100.6	118.4	126.3	161.8	173.6	211.1	224.9	278.2
60°	13.8	15.8	25.6	82.9	88.8	106.5	134.2	167.7	181.5	226.9
62.5°	2.0	2.0	5.9	13.8	59.2	71.0	100.6	116.4	134.2	169.7
65°	0.0	0.0	2.0	3.9	11.8	41.4	51.3	63.1	92.7	122.3
67.5°	0.0	0.0	2.0	3.9	5.9	13.8	21.7	41.4	53.3	84.8
70°	0.0	0.0	2.0	3.9	5.9	7.9	11.8	15.8	31.6	49.3
72.5°	0.0	0.0	2.0	3.9	5.9	7.9	9.9	11.8	13.8	31.6
75°	0.0	0.0	2.0	3.9	5.9	9.9	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	9.9	9.9
80°	0.0	0.0	2.0	5.9	9.9	13.8	15.8	11.8	7.9	5.9
82.5°	0.0	0.0	2.0	5.9	9.9	13.8	15.8	13.8	7.9	5.9
85°	0.0	0.0	2.0	5.9	7.9	9.9	15.8	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

REPORT NUMBER: P637622

CATALOG NUMBER: IFLD-M-SA4A-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23834.9	0°	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9	23834.9
23896.0	2.5°	24073.6	24162.4	24318.2	24361.6	24495.8	24341.9	24257.1	24265.0	24081.5
23836.8	5°	24073.6	24276.8	24549.1	24679.3	24777.9	24770.0	24748.3	24693.1	24558.9
23718.5	7.5°	24010.5	24341.9	24716.8	24890.4	25008.8	24998.9	25048.2	24959.4	24795.7
23507.4	10°	23807.2	24095.3	24557.0	24699.0	24890.4	24894.3	24833.2	24850.9	24558.9
22736.0	12.5°	23168.0	23392.9	23797.4	23959.2	24192.0	24229.5	24162.4	24136.7	23860.5
21471.3	15°	21931.0	22061.2	22467.6	22629.4	22860.2	22828.7	22895.8	22868.1	22625.5
19762.8	17.5°	20121.8	20163.3	20589.4	20725.5	20942.6	21027.4	20926.8	21055.0	20845.9
17405.1	20°	17527.4	17750.4	18229.8	18438.9	18565.2	18717.1	18584.9	18728.9	18484.3
14544.4	22.5°	14895.6	15027.7	15461.8	15763.6	15998.4	16028.0	15978.7	16079.3	15749.8
12023.0	25°	12021.0	12240.0	12583.3	12977.9	13208.7	13350.8	13222.5	13287.6	13234.4
9324.0	27.5°	9481.9	9677.2	9935.6	10229.6	10576.8	10762.3	10659.7	10770.2	10509.8
6952.6	30°	6958.5	7057.1	7349.1	7660.9	8041.6	8266.5	8276.4	8388.9	8235.0
4871.1	32.5°	4906.7	4993.5	5173.0	5380.2	5743.2	5993.7	5954.3	5970.1	5875.4
3174.4	35°	3190.2	3306.6	3434.9	3533.5	3752.5	4028.7	4007.0	3987.3	3922.2
2087.4	37.5°	2132.7	2178.1	2249.1	2337.9	2480.0	2653.6	2710.8	2639.8	2612.1
1408.7	40°	1442.2	1521.1	1568.5	1635.6	1702.6	1848.6	1888.1	1874.3	1846.7
986.5	42.5°	1023.9	1085.1	1144.3	1209.4	1244.9	1335.7	1412.6	1390.9	1379.1
749.7	45°	777.3	832.6	901.6	950.9	986.5	1039.7	1112.7	1120.6	1102.9
601.7	47.5°	623.4	672.8	728.0	789.2	830.6	864.1	927.3	950.9	939.1
507.0	50°	528.7	566.2	619.5	680.7	726.0	755.6	810.9	836.5	828.6
424.2	52.5°	449.8	495.2	544.5	595.8	651.1	680.7	732.0	769.4	763.5
351.2	55°	372.9	432.1	483.4	534.7	597.8	627.4	672.8	722.1	712.2
297.9	57.5°	325.5	374.9	428.1	477.4	544.5	584.0	625.4	676.7	674.7
244.6	60°	272.3	321.6	380.8	422.2	493.2	548.5	586.0	639.2	643.2
185.5	62.5°	217.0	278.2	323.6	380.8	445.9	511.0	546.5	599.8	619.5
142.1	65°	161.8	228.9	280.2	337.4	398.5	471.5	503.1	556.4	576.1
102.6	67.5°	120.3	171.6	236.8	286.1	355.1	418.3	455.7	505.1	518.9
61.2	70°	90.8	132.2	197.3	240.7	311.7	363.0	400.5	438.0	455.7
41.4	72.5°	53.3	98.6	155.9	207.2	268.3	311.7	339.3	368.9	380.8
19.7	75°	37.5	75.0	122.3	171.6	217.0	252.5	278.2	303.8	315.7
9.9	77.5°	19.7	55.2	96.7	138.1	169.7	199.3	224.9	244.6	252.5
7.9	80°	11.8	39.5	78.9	108.5	130.2	155.9	181.5	195.3	193.3
5.9	82.5°	7.9	31.6	57.2	78.9	94.7	114.4	132.2	142.1	142.1
3.9	85°	5.9	21.7	39.5	61.2	63.1	78.9	82.9	92.7	94.7
3.9	87.5°	3.9	13.8	21.7	35.5	33.5	41.4	43.4	49.3	53.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23834.9
23933.5
24602.3
24833.2
24474.1
23797.4
22702.4
20794.6
18464.6
15704.5
13200.8
10576.8
8262.6
5928.6
3865.0
2606.2
1850.6
1369.2
1100.9
933.2
826.7
759.6
712.2
672.8
643.2
617.5
574.1
518.9
451.8
376.8
311.7
250.6
191.4
140.1
92.7
51.3
0.0

(END OF REPORT)