

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: P637506

Luminaire Tested: **IFLD-M-SA4A-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637506
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14153 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

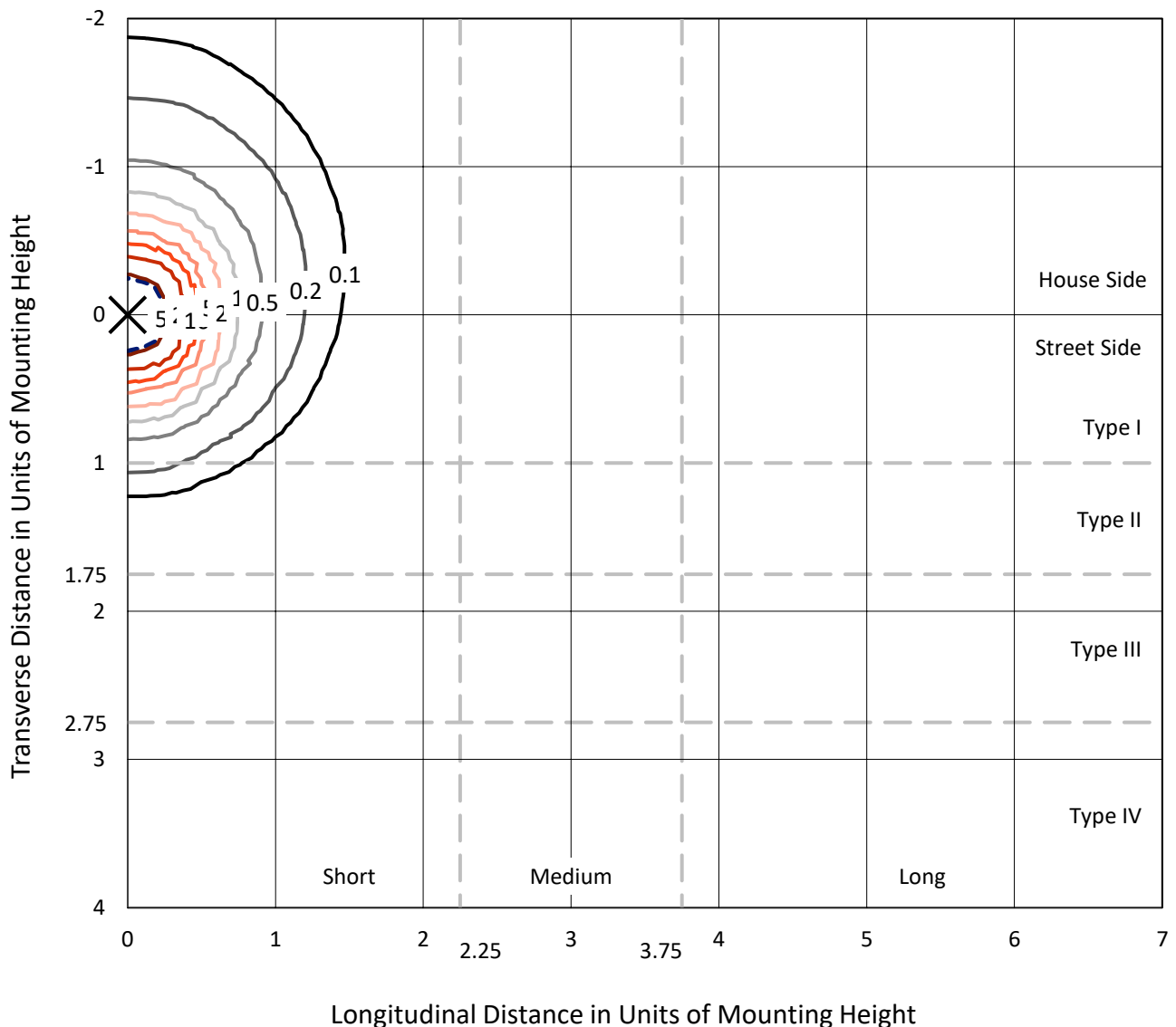
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637506
 CATALOG NUMBER: IFLD-M-SA4A-830-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

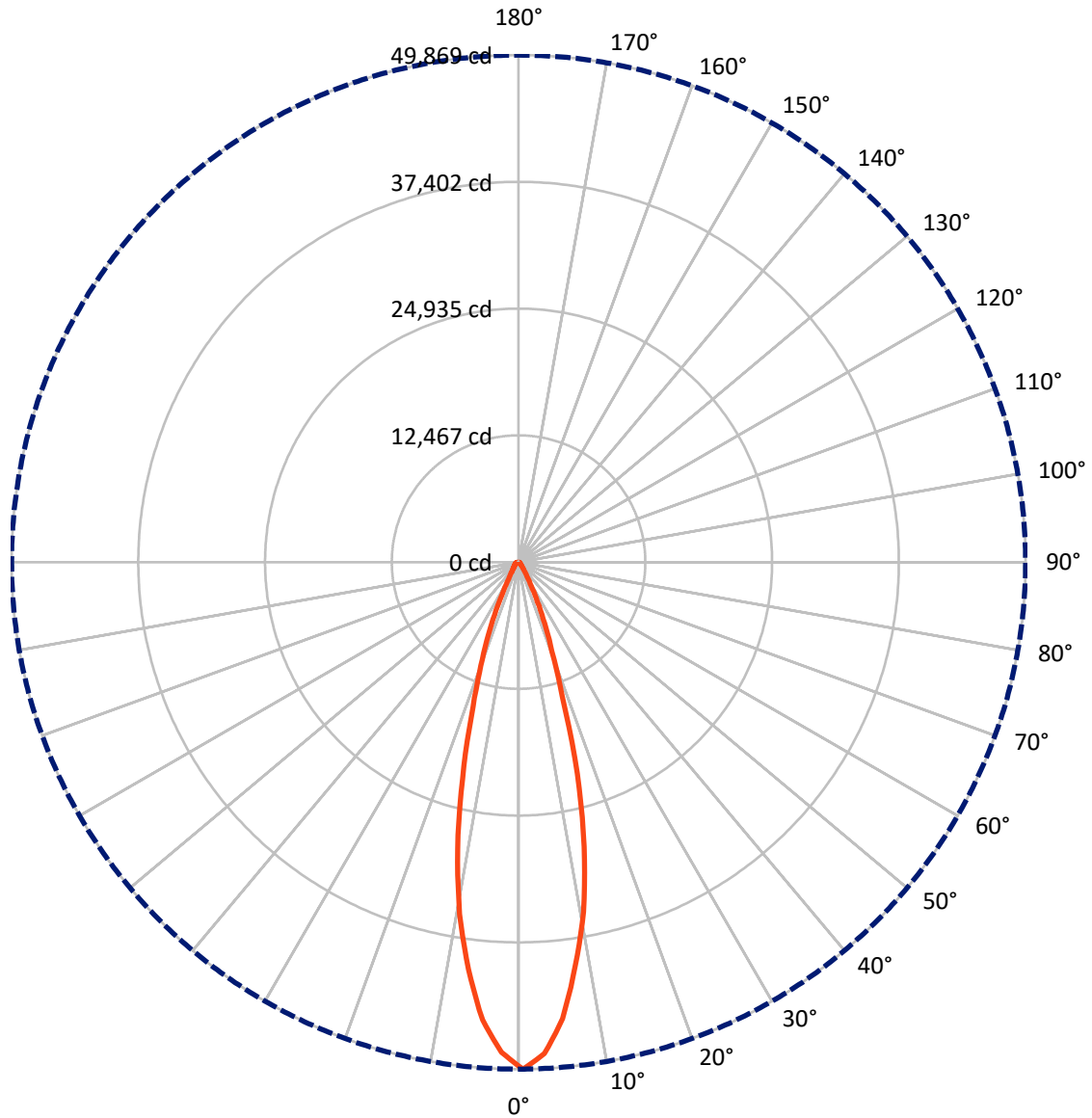
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 124.7 fc
 Type V - Short - N/A

REPORT NUMBER: P637506
CATALOG NUMBER: IFLD-M-SA4A-830-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637506
 CATALOG NUMBER: IFLD-M-SA4A-830-U-44-VI

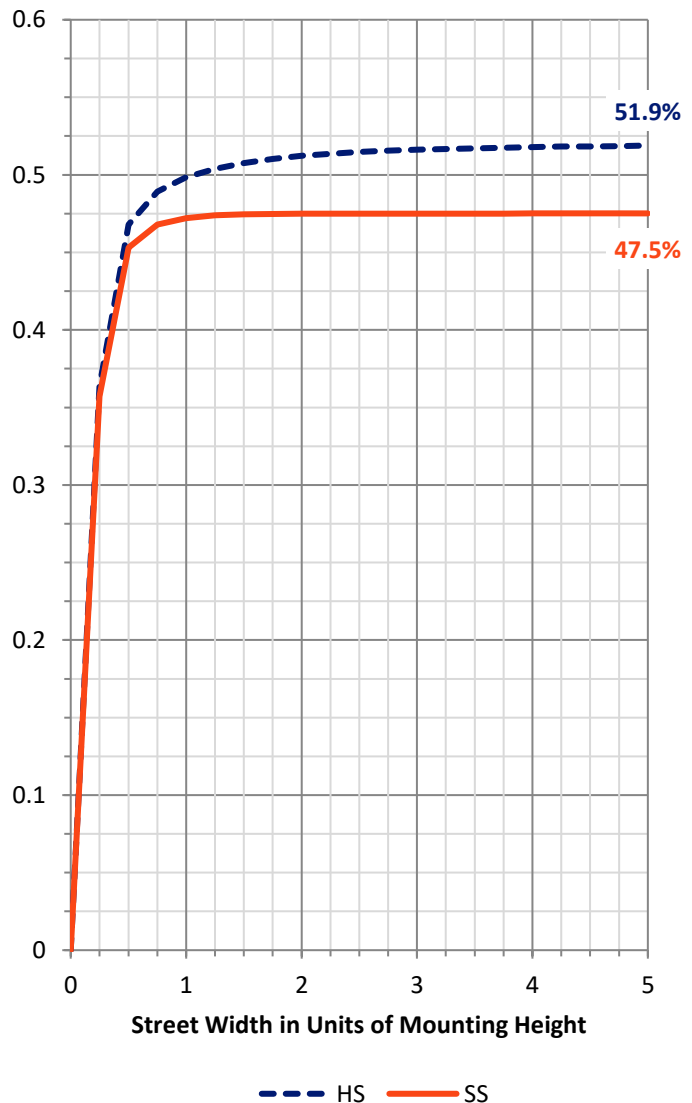
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7462.4	0.0	7462.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6690.6	0.0	6690.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	14153.0	0.0	14153.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4024.9	28.4
10°-20°	6095.6	43.1
20°-30°	2572.4	18.2
30°-40°	670.9	4.7
40°-50°	339.3	2.4
50°-60°	221.8	1.6
60°-70°	132.9	0.9
70°-80°	69.9	0.5
80°-90°	25.3	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°	14153.0	100.0
0°-180°	14153.0	100.0



REPORT NUMBER: P637506

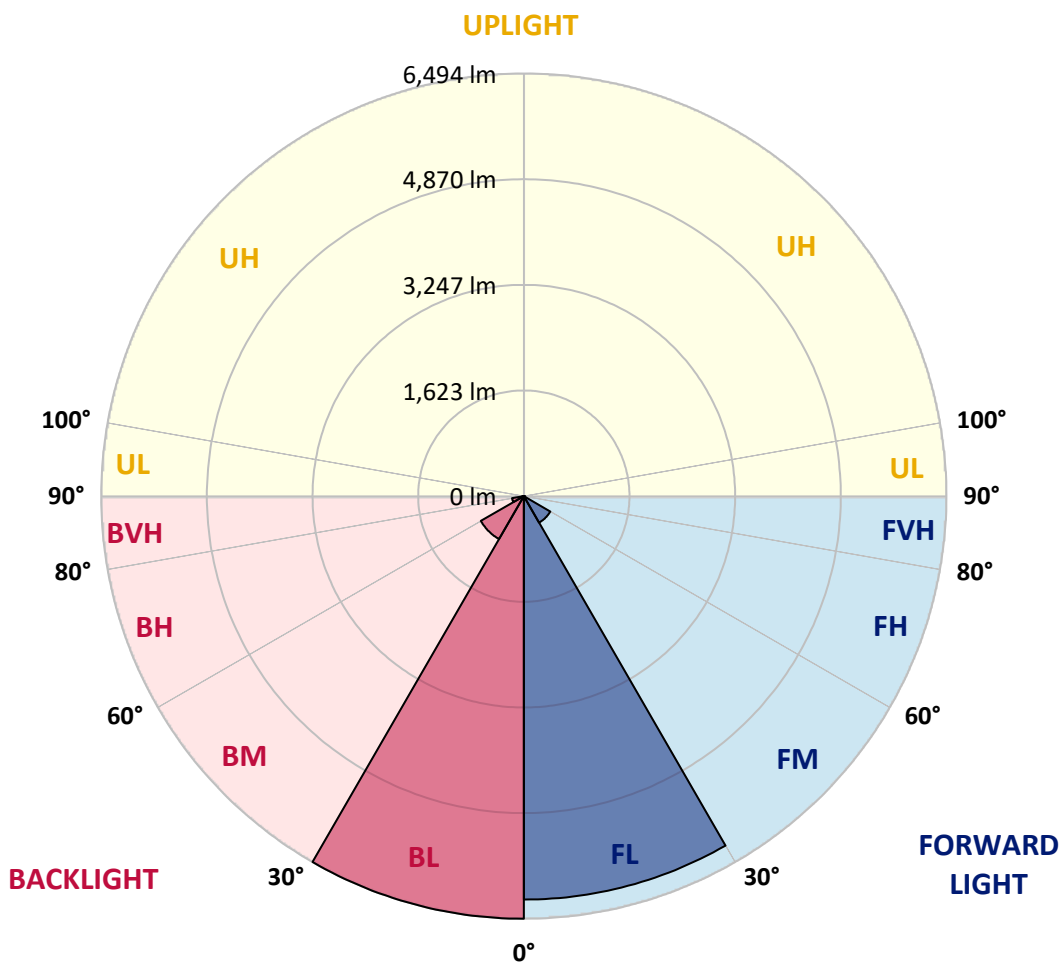
CATALOG NUMBER: IFLD-M-SA4A-830-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6198.9	43.8			
FM (30°-60°)	469.5	3.3			
FH (60°-80°)	19.1	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	6494.0	45.9	B5		
BM (30°-60°)	762.6	5.4	B1/1000		
BH (60°-80°)	183.7	1.3	B1/500		G0/660
BVH (80°-90°)	22.2	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 V Short





REPORT NUMBER: P637506
 CATALOG NUMBER: IFLD-M-SA4A-830-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0
2.5°	48416.3	48443.3	48343.2	48559.3	48390.9	48842.3	48618.1	48967.8	48850.2	49045.7
5°	45110.3	45065.8	45037.2	45372.6	45275.6	45760.4	45450.5	45348.8	45663.5	45606.2
7.5°	40118.0	40235.7	40168.9	40256.3	40305.6	40858.7	41033.5	40896.8	40901.6	40981.1
10°	35000.2	34826.9	34580.6	34744.3	35090.8	35332.4	35235.4	35435.7	35391.2	35580.3
12.5°	28703.0	28839.7	28701.4	28555.2	29160.7	29094.0	29262.4	29372.1	29097.1	29709.1
15°	21620.6	21692.1	21860.6	21849.5	22315.2	22408.9	22386.7	22502.7	22288.2	22389.9
17.5°	13889.8	14131.4	14584.3	15350.4	16211.9	16312.0	16286.6	16191.2	16087.9	15973.5
20°	9329.8	9304.3	9468.1	9692.2	11475.5	11947.5	11933.2	11634.4	11202.1	11119.4
22.5°	6535.6	6583.3	6561.0	6783.6	7152.3	8454.0	8293.5	7989.9	7848.5	7756.3
25°	4299.3	4281.8	4393.1	4459.9	4776.1	4935.1	5497.7	5384.9	5167.1	5191.0
27.5°	2620.9	2643.2	2684.5	2741.7	2965.8	2915.0	3236.0	3278.9	3209.0	3134.3
30°	1608.5	1624.4	1657.7	1699.1	1776.9	1721.3	1810.3	1964.5	1939.1	1886.6
32.5°	1091.9	1093.5	1117.3	1133.2	1123.7	1071.3	1099.9	1246.1	1249.3	1244.5
35°	785.2	785.2	807.4	820.1	793.1	750.2	755.0	845.6	885.3	893.2
37.5°	542.0	543.6	581.7	619.9	589.7	578.5	559.5	619.9	683.4	693.0
40°	411.7	410.1	429.1	457.7	460.9	440.3	446.6	484.8	549.9	557.9
42.5°	333.8	335.4	344.9	341.7	343.3	370.3	379.9	397.3	457.7	472.1
45°	281.3	282.9	287.7	271.8	265.4	306.8	319.5	329.0	379.9	397.3
47.5°	232.1	235.2	240.0	222.5	219.3	246.4	268.6	278.1	322.6	341.7
50°	166.9	170.1	187.5	178.0	187.5	193.9	224.1	238.4	268.6	294.0
52.5°	120.8	124.0	128.7	130.3	154.2	157.4	179.6	201.9	216.2	244.8
55°	95.4	98.5	95.4	92.2	112.8	130.3	138.3	162.1	173.2	206.6
57.5°	54.0	57.2	62.0	71.5	74.7	100.1	108.1	128.7	138.3	170.1
60°	9.5	11.1	17.5	42.9	52.5	63.6	81.1	98.5	111.3	133.5
62.5°	1.6	1.6	3.2	9.5	30.2	44.5	58.8	69.9	81.1	101.7
65°	0.0	0.0	1.6	3.2	7.9	25.4	31.8	41.3	55.6	73.1
67.5°	0.0	0.0	1.6	3.2	4.8	9.5	14.3	25.4	31.8	49.3
70°	0.0	0.0	1.6	3.2	4.8	6.4	7.9	11.1	19.1	30.2
72.5°	0.0	0.0	1.6	3.2	4.8	6.4	7.9	9.5	9.5	19.1
75°	0.0	0.0	1.6	3.2	4.8	7.9	9.5	9.5	7.9	7.9
77.5°	0.0	0.0	1.6	3.2	6.4	9.5	11.1	9.5	6.4	6.4
80°	0.0	0.0	3.2	4.8	7.9	11.1	14.3	11.1	6.4	3.2
82.5°	0.0	0.0	3.2	6.4	7.9	12.7	17.5	14.3	6.4	3.2
85°	0.0	0.0	1.6	4.8	9.5	12.7	17.5	12.7	6.4	1.6
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	9.5	7.9	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637506

CATALOG NUMBER: IFLD-M-SA4A-830-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
49869.0	0°	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0	49869.0
48675.4	2.5°	48955.1	49209.4	49261.9	49191.9	49293.6	49110.9	48971.0	48608.6	48390.9
45588.8	5°	45882.8	45844.6	46110.1	46197.5	46186.4	46046.5	45851.0	45631.7	45418.7
40826.9	7.5°	41081.2	41130.5	41372.1	41526.2	41448.4	41273.5	41138.4	40973.1	40830.1
35648.6	10°	35974.5	35635.9	35936.3	35936.3	36144.5	35650.2	35696.3	35279.9	35299.0
29697.9	12.5°	29799.7	29922.0	29971.3	30112.8	29869.6	29607.3	29286.3	29222.7	29024.0
22196.0	15°	22515.4	22865.1	22564.7	23078.1	22830.1	22556.8	22507.5	22014.8	22170.5
16099.0	17.5°	16019.6	16405.8	16526.6	16820.6	16594.9	16432.8	16227.8	16078.4	16067.2
11270.4	20°	11359.4	11747.3	11836.3	12189.1	12163.7	12112.8	11939.6	11750.4	11545.4
7672.0	22.5°	7788.1	8104.3	8400.0	8875.2	8867.3	8717.9	8700.4	8433.4	8438.1
5183.0	25°	5237.1	5467.5	5537.5	6023.8	6077.9	6062.0	5971.4	5723.4	5817.2
3166.1	27.5°	3169.3	3371.1	3607.9	3779.6	3941.7	3916.3	3825.7	3687.4	3627.0
1902.5	30°	1953.4	2044.0	2131.4	2338.0	2435.0	2485.8	2442.9	2314.2	2323.7
1252.4	32.5°	1279.5	1355.8	1419.3	1549.7	1600.5	1694.3	1676.8	1649.8	1618.0
901.2	35°	933.0	988.6	1031.5	1091.9	1157.1	1236.6	1249.3	1238.1	1225.4
696.2	37.5°	712.1	769.3	818.5	844.0	894.8	956.8	991.8	990.2	980.7
567.4	40°	578.5	621.5	666.0	699.3	734.3	780.4	823.3	828.1	828.1
476.8	42.5°	483.2	519.7	564.2	599.2	624.6	667.5	712.1	715.2	712.1
403.7	45°	413.2	445.0	487.9	529.3	549.9	581.7	624.6	634.2	627.8
346.5	47.5°	359.2	387.8	424.4	468.9	491.1	519.7	559.5	570.6	569.0
298.8	50°	308.3	341.7	378.3	414.8	443.4	470.5	508.6	521.3	516.6
254.3	52.5°	271.8	302.0	333.8	373.5	406.9	430.7	460.9	483.2	476.8
214.6	55°	227.3	263.8	297.2	330.6	371.9	397.3	426.0	453.0	446.6
181.2	57.5°	197.1	227.3	265.4	295.6	337.0	367.2	395.8	424.4	422.8
147.8	60°	165.3	197.1	233.6	265.4	303.6	337.0	365.6	397.3	400.5
111.3	62.5°	130.3	168.5	200.3	236.8	275.0	311.5	337.0	368.7	373.5
84.2	65°	98.5	138.3	173.2	208.2	246.4	286.1	308.3	335.4	340.1
62.0	67.5°	73.1	106.5	147.8	179.6	219.3	257.5	278.1	300.4	308.3
38.1	70°	55.6	81.1	124.0	154.2	195.5	225.7	247.9	267.0	273.4
25.4	72.5°	35.0	63.6	100.1	131.9	168.5	195.5	211.4	222.5	232.1
14.3	75°	23.8	49.3	81.1	112.8	139.9	160.5	174.8	184.4	192.3
6.4	77.5°	14.3	38.1	66.8	93.8	111.3	127.2	141.5	147.8	152.6
4.8	80°	7.9	28.6	55.6	76.3	87.4	98.5	109.7	117.6	120.8
3.2	82.5°	4.8	22.3	44.5	58.8	63.6	74.7	85.8	90.6	90.6
1.6	85°	3.2	15.9	30.2	42.9	46.1	54.0	57.2	60.4	63.6
1.6	87.5°	3.2	9.5	19.1	23.8	25.4	28.6	30.2	33.4	36.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
49869.0
48230.3
45180.3
40345.3
35113.0
28842.8
22014.8
15771.6
11456.4
8345.9
5669.4
3574.6
2282.4
1606.9
1220.7
975.9
818.5
708.9
627.8
565.8
513.4
475.2
449.8
424.4
402.1
376.7
344.9
311.5
276.6
230.5
190.7
151.0
117.6
89.0
62.0
35.0
0.0

(END OF REPORT)