

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: P637462

Luminaire Tested: **IFLD-S-SA2A-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6545.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

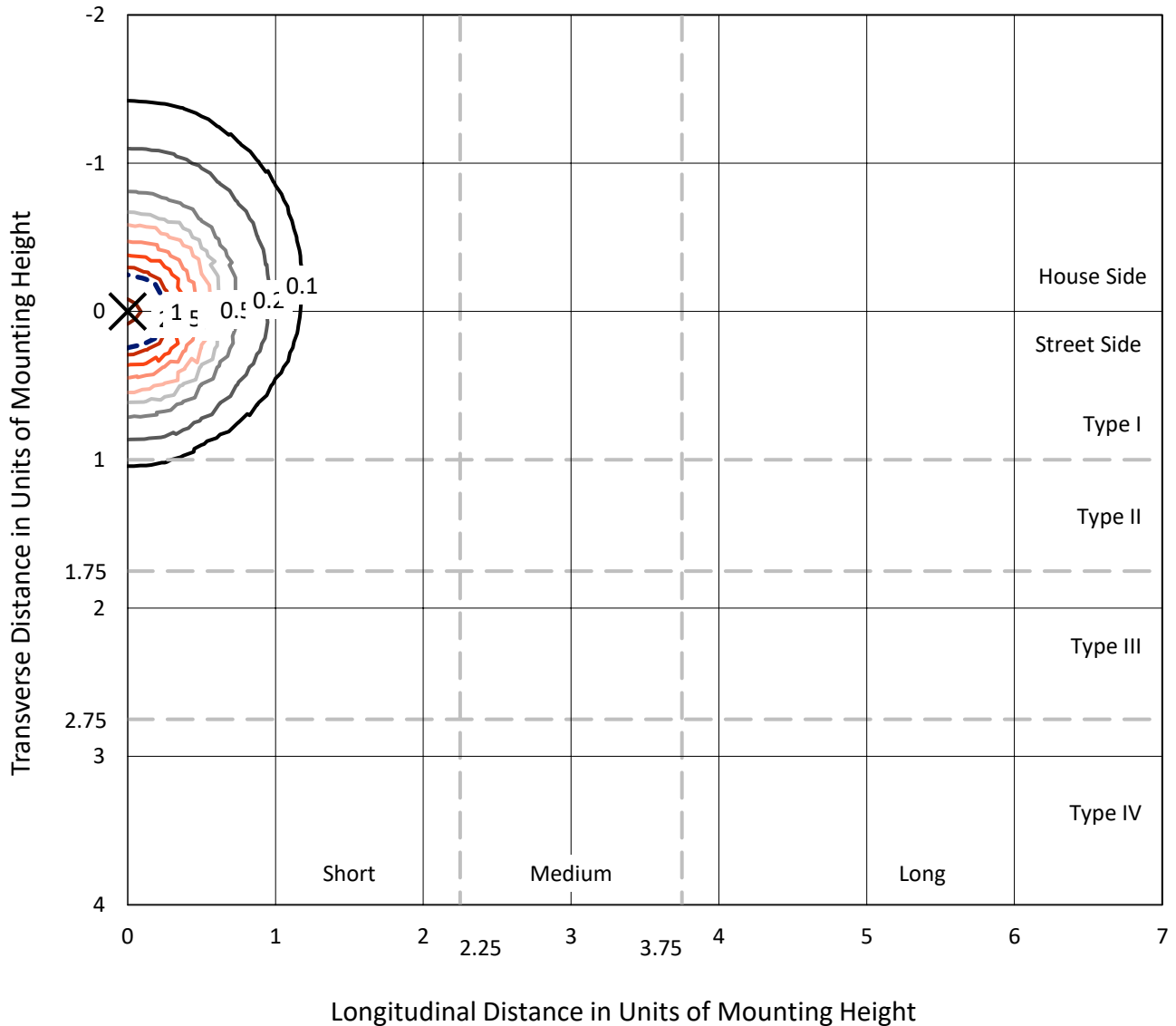
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

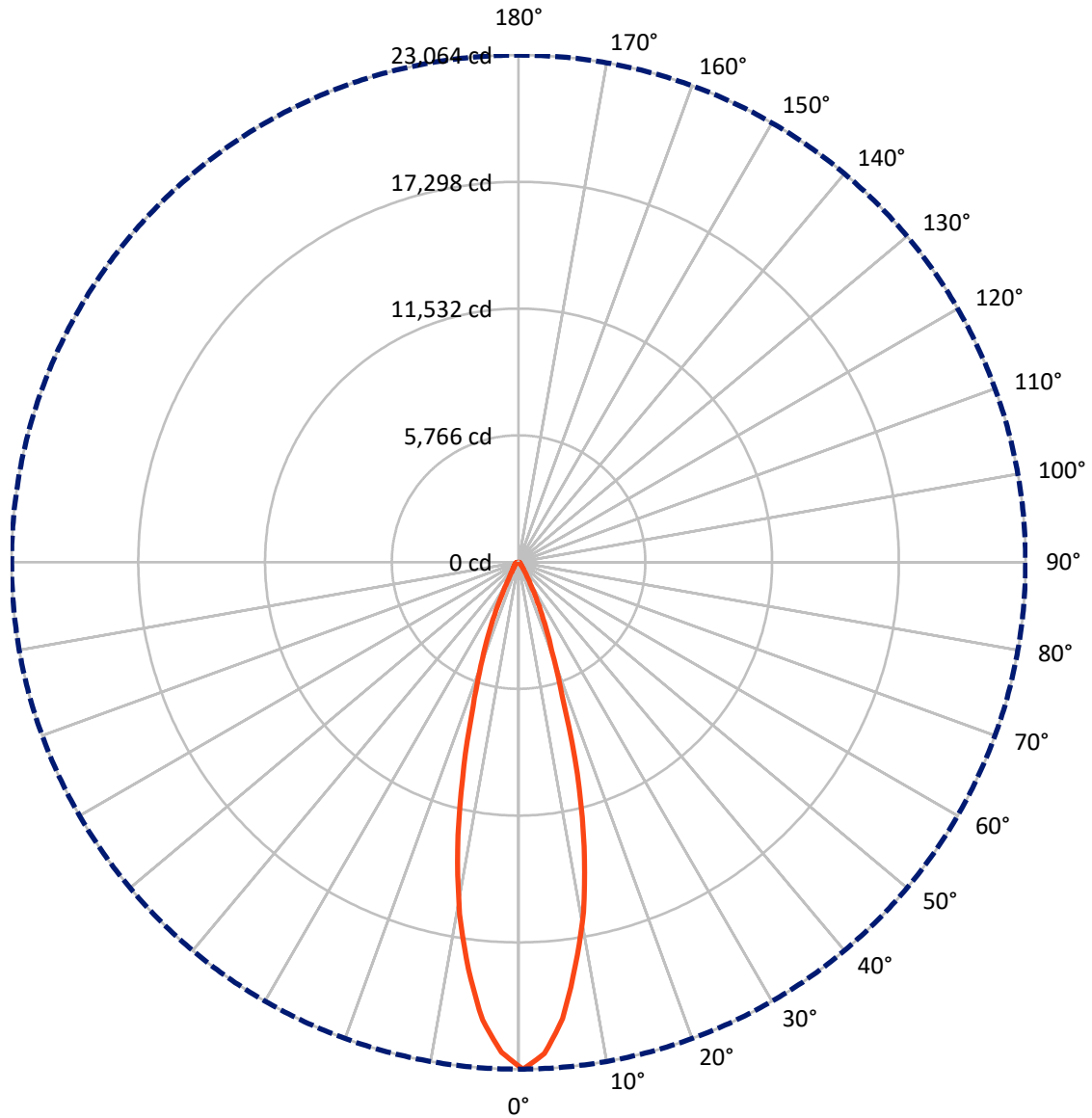
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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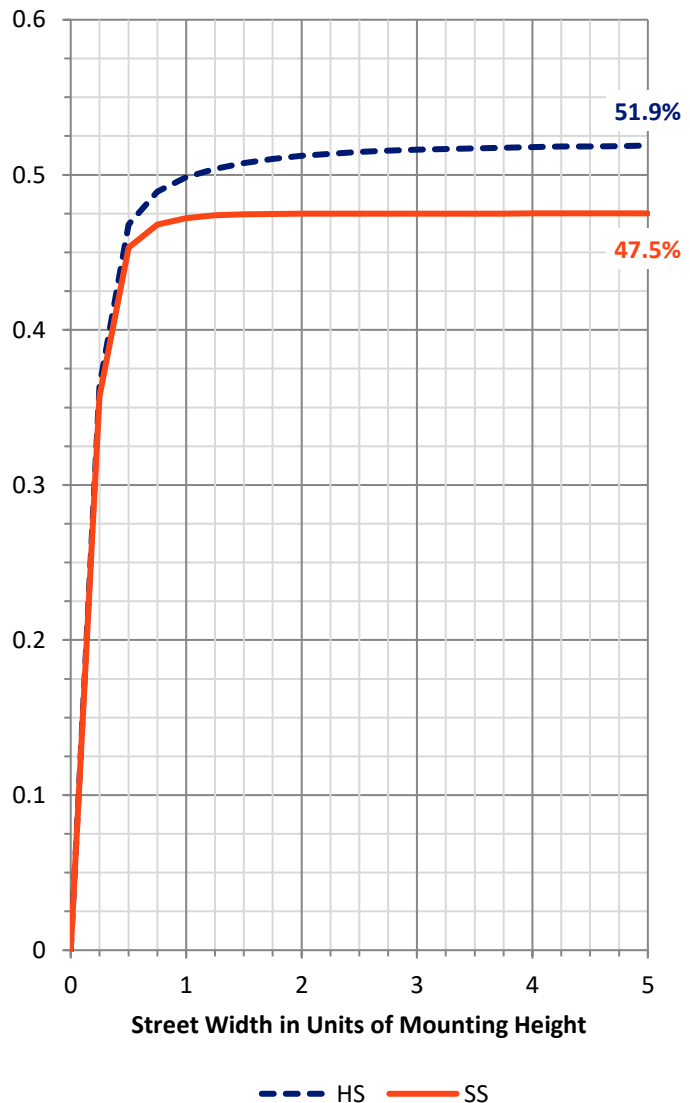
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3451.3	0.0	3451.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	3094.3	0.0	3094.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	6545.6	0.0	6545.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1861.4	28.4
10°-20°	2819.1	43.1
20°-30°	1189.7	18.2
30°-40°	310.3	4.7
40°-50°	156.9	2.4
50°-60°	102.6	1.6
60°-70°	61.5	0.9
70°-80°	32.3	0.5
80°-90°	11.7	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°	6545.6	100.0
0°-180°	6545.6	100.0



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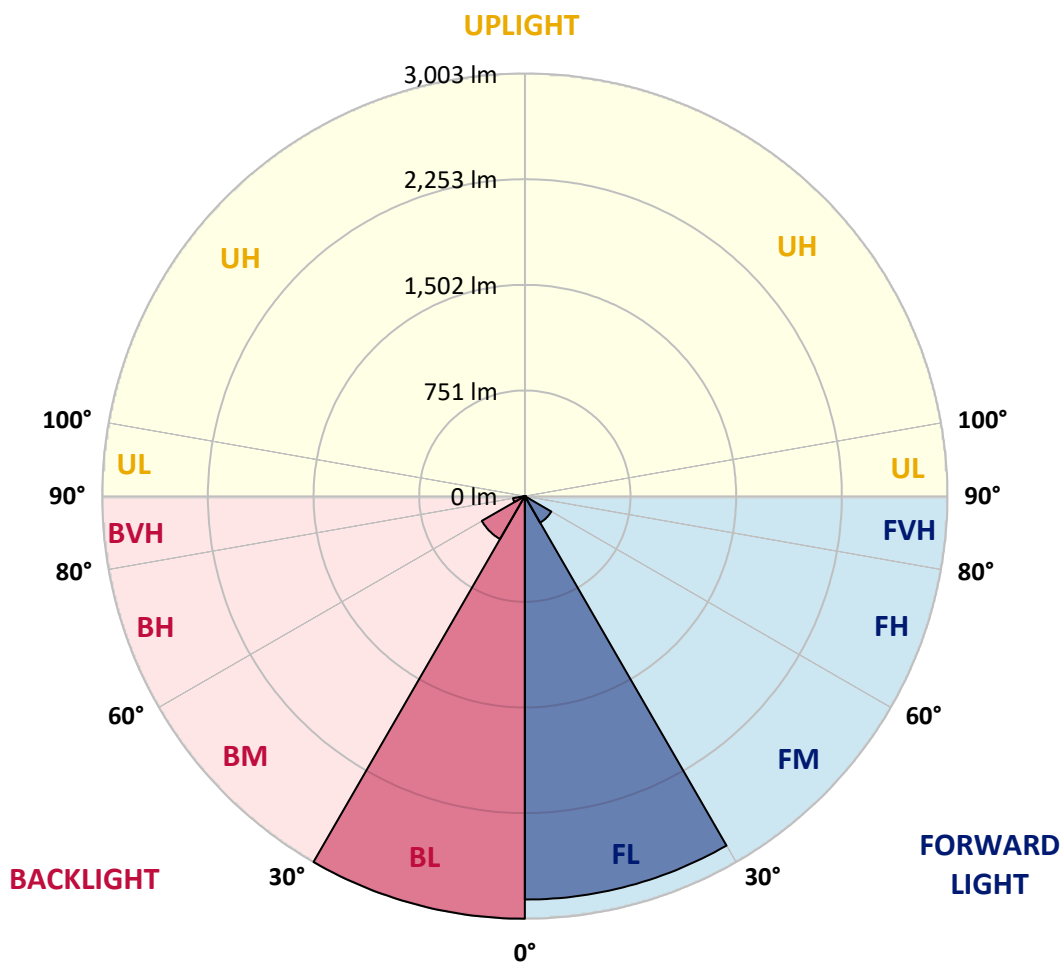
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2866.9	43.8			
FM (30°-60°)	217.1	3.3			
FH (60°-80°)	8.8	0.1			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	3003.4	45.9	B4/5000		
BM (30°-60°)	352.7	5.4	B1/1000		
BH (60°-80°)	84.9	1.3	B0/110		G0/660
BVH (80°-90°)	10.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7
2.5°	22391.9	22404.4	22358.1	22458.0	22380.1	22588.9	22485.2	22647.0	22592.6	22683.0
5°	20862.9	20842.3	20829.1	20984.2	20939.4	21163.6	21020.2	20973.2	21118.7	21092.3
7.5°	18554.0	18608.4	18577.6	18618.0	18640.8	18896.6	18977.5	18914.2	18916.4	18953.2
10°	16187.1	16107.0	15993.0	16068.8	16229.0	16340.7	16295.9	16388.5	16367.9	16455.4
12.5°	13274.7	13338.0	13274.0	13206.4	13486.4	13455.6	13533.5	13584.2	13457.0	13740.0
15°	9999.2	10032.3	10110.2	10105.1	10320.5	10363.8	10353.5	10407.2	10308.0	10355.0
17.5°	6423.8	6535.6	6745.1	7099.4	7497.8	7544.1	7532.3	7488.2	7440.4	7387.5
20°	4314.9	4303.1	4378.8	4482.5	5307.2	5525.6	5518.9	5380.8	5180.8	5142.6
22.5°	3022.6	3044.7	3034.4	3137.3	3307.8	3909.9	3835.6	3695.2	3629.8	3587.2
25°	1988.4	1980.3	2031.7	2062.6	2208.9	2282.4	2542.6	2490.4	2389.7	2400.8
27.5°	1212.1	1222.4	1241.5	1268.0	1371.7	1348.1	1496.6	1516.5	1484.1	1449.6
30°	743.9	751.2	766.7	785.8	821.8	796.1	837.3	908.6	896.8	872.5
32.5°	505.0	505.7	516.8	524.1	519.7	495.4	508.7	576.3	577.8	575.6
35°	363.1	363.1	373.4	379.3	366.8	347.0	349.2	391.1	409.4	413.1
37.5°	250.7	251.4	269.0	286.7	272.7	267.6	258.7	286.7	316.1	320.5
40°	190.4	189.6	198.5	211.7	213.2	203.6	206.6	224.2	254.3	258.0
42.5°	154.4	155.1	159.5	158.0	158.8	171.3	175.7	183.8	211.7	218.3
45°	130.1	130.8	133.0	125.7	122.8	141.9	147.8	152.2	175.7	183.8
47.5°	107.3	108.8	111.0	102.9	101.4	113.9	124.2	128.6	149.2	158.0
50°	77.2	78.7	86.7	82.3	86.7	89.7	103.6	110.3	124.2	136.0
52.5°	55.9	57.3	59.5	60.3	71.3	72.8	83.1	93.4	100.0	113.2
55°	44.1	45.6	44.1	42.6	52.2	60.3	64.0	75.0	80.1	95.6
57.5°	25.0	26.5	28.7	33.1	34.5	46.3	50.0	59.5	64.0	78.7
60°	4.4	5.1	8.1	19.8	24.3	29.4	37.5	45.6	51.5	61.7
62.5°	0.7	0.7	1.5	4.4	14.0	20.6	27.2	32.3	37.5	47.0
65°	0.0	0.0	0.7	1.5	3.7	11.8	14.7	19.1	25.7	33.8
67.5°	0.0	0.0	0.7	1.5	2.2	4.4	6.6	11.8	14.7	22.8
70°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	5.1	8.8	14.0
72.5°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	4.4	4.4	8.8
75°	0.0	0.0	0.7	1.5	2.2	3.7	4.4	4.4	3.7	3.7
77.5°	0.0	0.0	0.7	1.5	2.9	4.4	5.1	4.4	2.9	2.9
80°	0.0	0.0	1.5	2.2	3.7	5.1	6.6	5.1	2.9	1.5
82.5°	0.0	0.0	1.5	2.9	3.7	5.9	8.1	6.6	2.9	1.5
85°	0.0	0.0	0.7	2.2	4.4	5.9	8.1	5.9	2.9	0.7
87.5°	0.0	0.0	0.7	0.7	1.5	2.2	4.4	3.7	1.5	0.7
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°
23063.7	0°	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7	23063.7
22511.7	2.5°	22641.1	22758.7	22782.9	22750.6	22797.6	22713.1	22648.4	22480.8	22380.1
21084.2	5°	21220.2	21202.5	21325.3	21365.7	21360.6	21295.9	21205.5	21104.0	21005.5
18881.9	7.5°	18999.5	19022.3	19134.0	19205.3	19169.3	19088.4	19026.0	18949.5	18883.4
16487.0	10°	16637.7	16481.1	16620.1	16620.1	16716.4	16487.8	16509.1	16316.5	16325.3
13734.9	12.5°	13781.9	13838.5	13861.3	13926.7	13814.3	13693.0	13544.5	13515.1	13423.2
10265.3	15°	10413.1	10574.8	10435.9	10673.3	10558.6	10432.2	10409.4	10181.5	10253.6
7445.6	17.5°	7408.8	7587.5	7643.3	7779.3	7674.9	7599.9	7505.1	7436.0	7430.9
5212.4	20°	5253.6	5432.9	5474.1	5637.3	5625.5	5602.0	5521.9	5434.4	5339.6
3548.2	22.5°	3601.9	3748.2	3884.9	4104.7	4101.0	4031.9	4023.8	3900.3	3902.5
2397.1	25°	2422.1	2528.7	2561.0	2785.9	2810.9	2803.6	2761.7	2647.0	2690.4
1464.3	27.5°	1465.7	1559.1	1668.6	1748.0	1823.0	1811.2	1769.3	1705.4	1677.4
879.9	30°	903.4	945.3	985.7	1081.3	1126.1	1149.7	1129.8	1070.3	1074.7
579.2	32.5°	591.7	627.0	656.4	716.7	740.2	783.6	775.5	763.0	748.3
416.8	35°	431.5	457.2	477.1	505.0	535.1	571.9	577.8	572.6	566.7
322.0	37.5°	329.3	355.8	378.6	390.3	413.8	442.5	458.7	458.0	453.5
262.4	40°	267.6	287.4	308.0	323.4	339.6	360.9	380.8	383.0	383.0
220.5	42.5°	223.5	240.4	261.0	277.1	288.9	308.7	329.3	330.8	329.3
186.7	45°	191.1	205.8	225.7	244.8	254.3	269.0	288.9	293.3	290.4
160.2	47.5°	166.1	179.4	196.3	216.8	227.1	240.4	258.7	263.9	263.2
138.2	50°	142.6	158.0	174.9	191.9	205.1	217.6	235.2	241.1	238.9
117.6	52.5°	125.7	139.7	154.4	172.7	188.2	199.2	213.2	223.5	220.5
99.2	55°	105.1	122.0	137.5	152.9	172.0	183.8	197.0	209.5	206.6
83.8	57.5°	91.1	105.1	122.8	136.7	155.8	169.8	183.0	196.3	195.5
68.4	60°	76.4	91.1	108.1	122.8	140.4	155.8	169.1	183.8	185.2
51.5	62.5°	60.3	77.9	92.6	109.5	127.2	144.1	155.8	170.5	172.7
39.0	65°	45.6	64.0	80.1	96.3	113.9	132.3	142.6	155.1	157.3
28.7	67.5°	33.8	49.3	68.4	83.1	101.4	119.1	128.6	138.9	142.6
17.6	70°	25.7	37.5	57.3	71.3	90.4	104.4	114.7	123.5	126.4
11.8	72.5°	16.2	29.4	46.3	61.0	77.9	90.4	97.8	102.9	107.3
6.6	75°	11.0	22.8	37.5	52.2	64.7	74.2	80.9	85.3	88.9
2.9	77.5°	6.6	17.6	30.9	43.4	51.5	58.8	65.4	68.4	70.6
2.2	80°	3.7	13.2	25.7	35.3	40.4	45.6	50.7	54.4	55.9
1.5	82.5°	2.2	10.3	20.6	27.2	29.4	34.5	39.7	41.9	41.9
0.7	85°	1.5	7.4	14.0	19.8	21.3	25.0	26.5	27.9	29.4
0.7	87.5°	1.5	4.4	8.8	11.0	11.8	13.2	14.0	15.4	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23063.7
22305.9
20895.3
18659.2
16239.3
13339.4
10181.5
7294.2
5298.4
3859.9
2622.0
1653.2
1055.6
743.2
564.5
451.3
378.6
327.8
290.4
261.7
237.4
219.8
208.0
196.3
186.0
174.2
159.5
144.1
127.9
106.6
88.2
69.8
54.4
41.2
28.7
16.2
0.0

(END OF REPORT)