

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: P637923

Luminaire Tested: **IFLD-L-SA8B-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637923
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34317.6 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

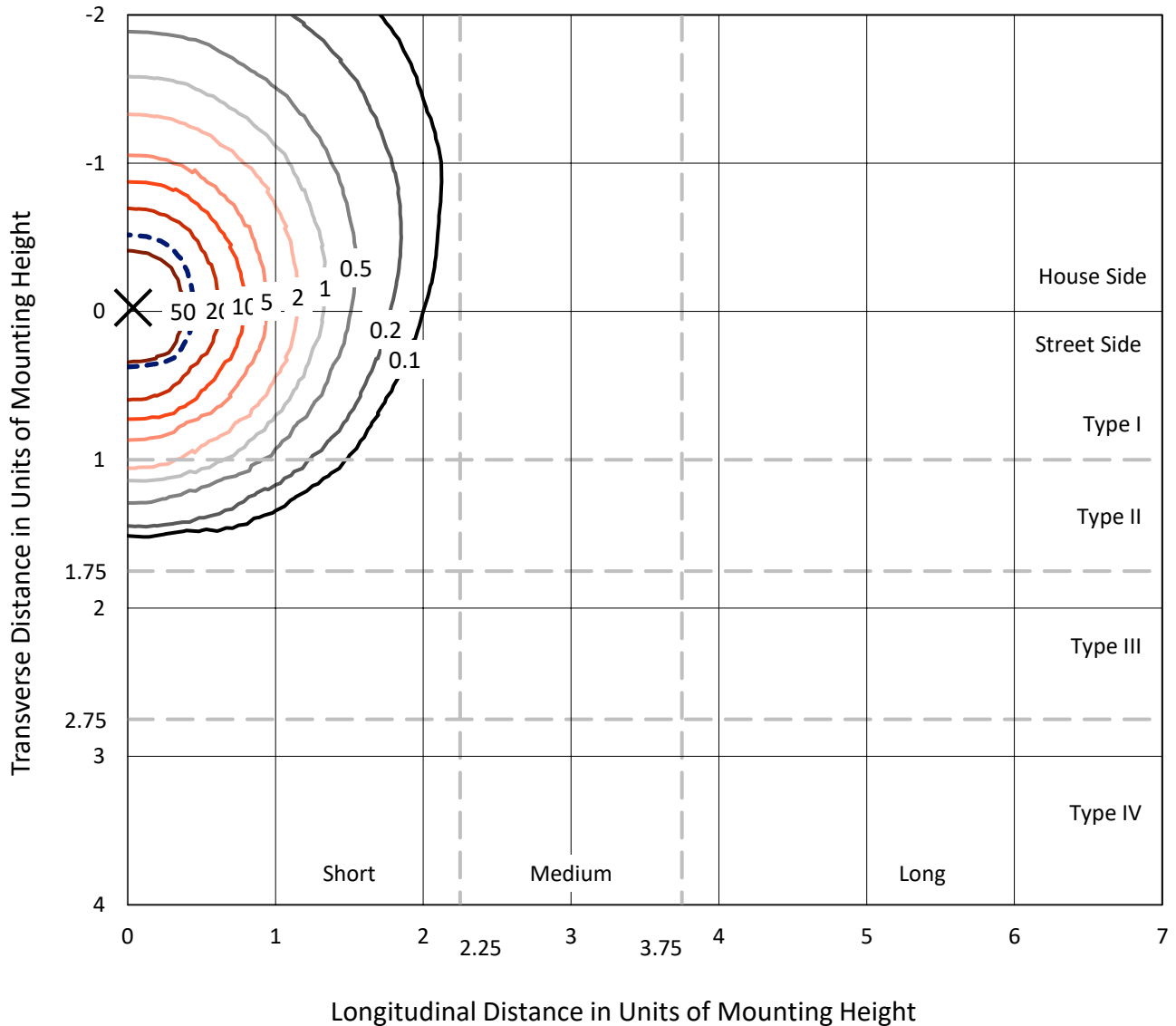
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637923
 CATALOG NUMBER: IFLD-L-SA8B-740-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

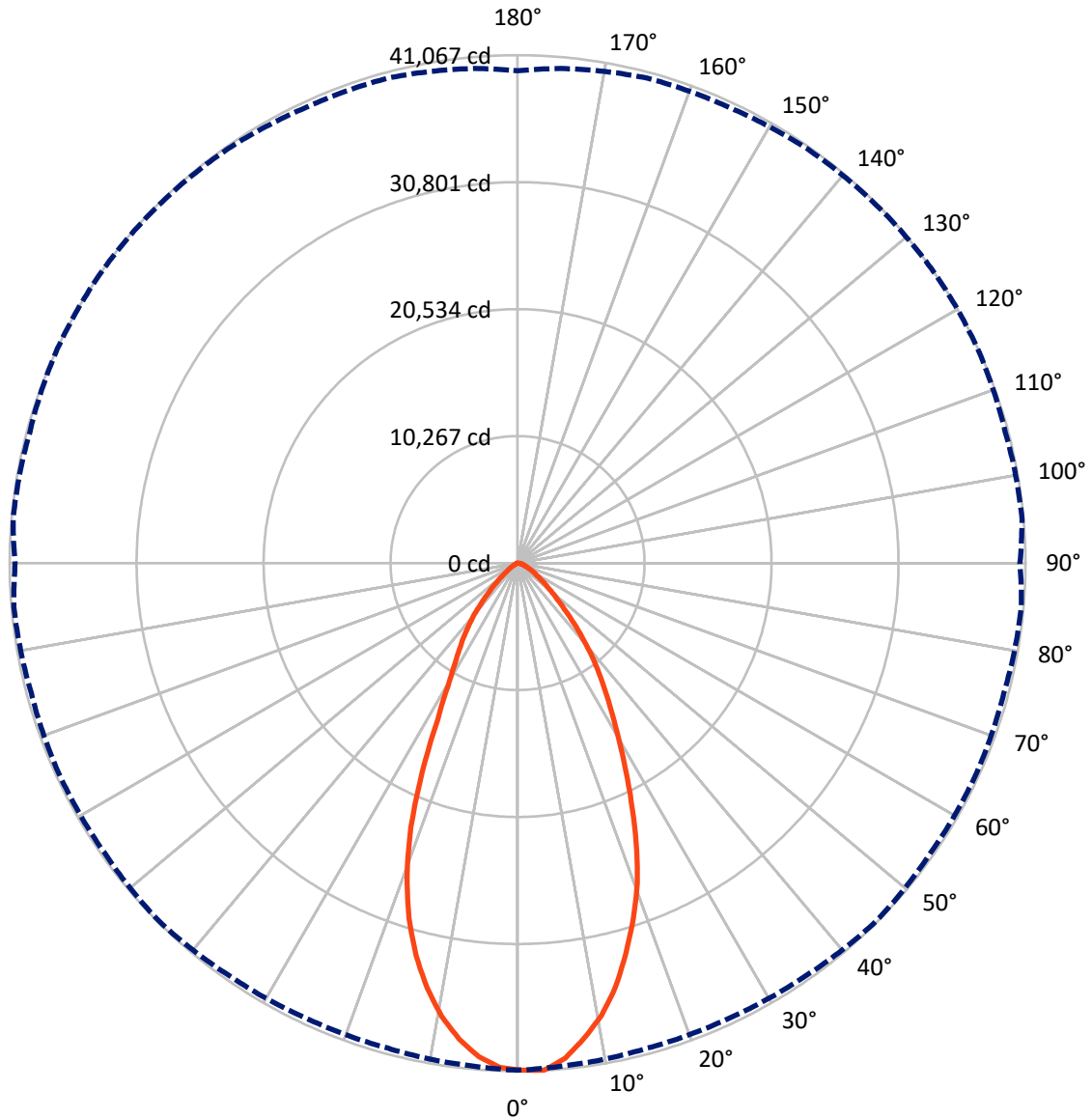
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 102.5 fc
 Type I - Short - N/A

REPORT NUMBER: P637923
CATALOG NUMBER: IFLD-L-SA8B-740-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P637923

CATALOG NUMBER: IFLD-L-SA8B-740-U-66-VI

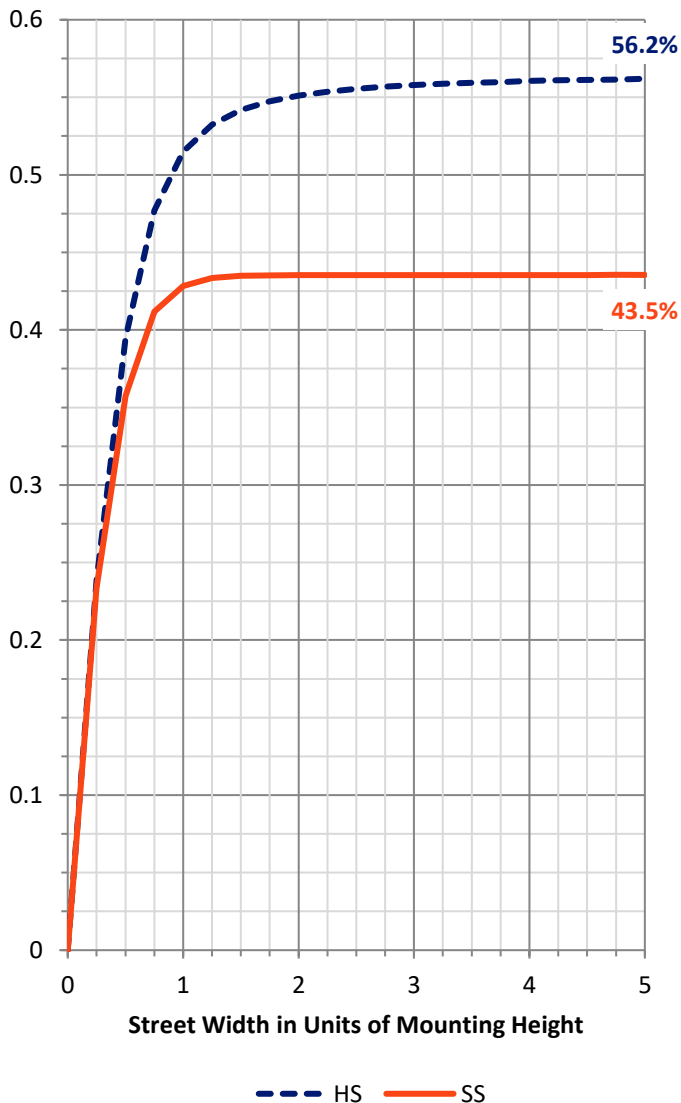
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19473.2	0.0	19473.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14844.4	0.0	14844.4
	% Fixture	43.3	0.0	43.3
Total	Lumens	34317.6	0.0	34317.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3723.1	10.8
10°-20°	8875.0	25.9
20°-30°	9039.0	26.3
30°-40°	6740.3	19.6
40°-50°	3521.3	10.3
50°-60°	1481.1	4.3
60°-70°	604.9	1.8
70°-80°	254.5	0.7
80°-90°	78.4	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°	34317.6	100.0
0°-180°	34317.6	100.0



REPORT NUMBER: P637923

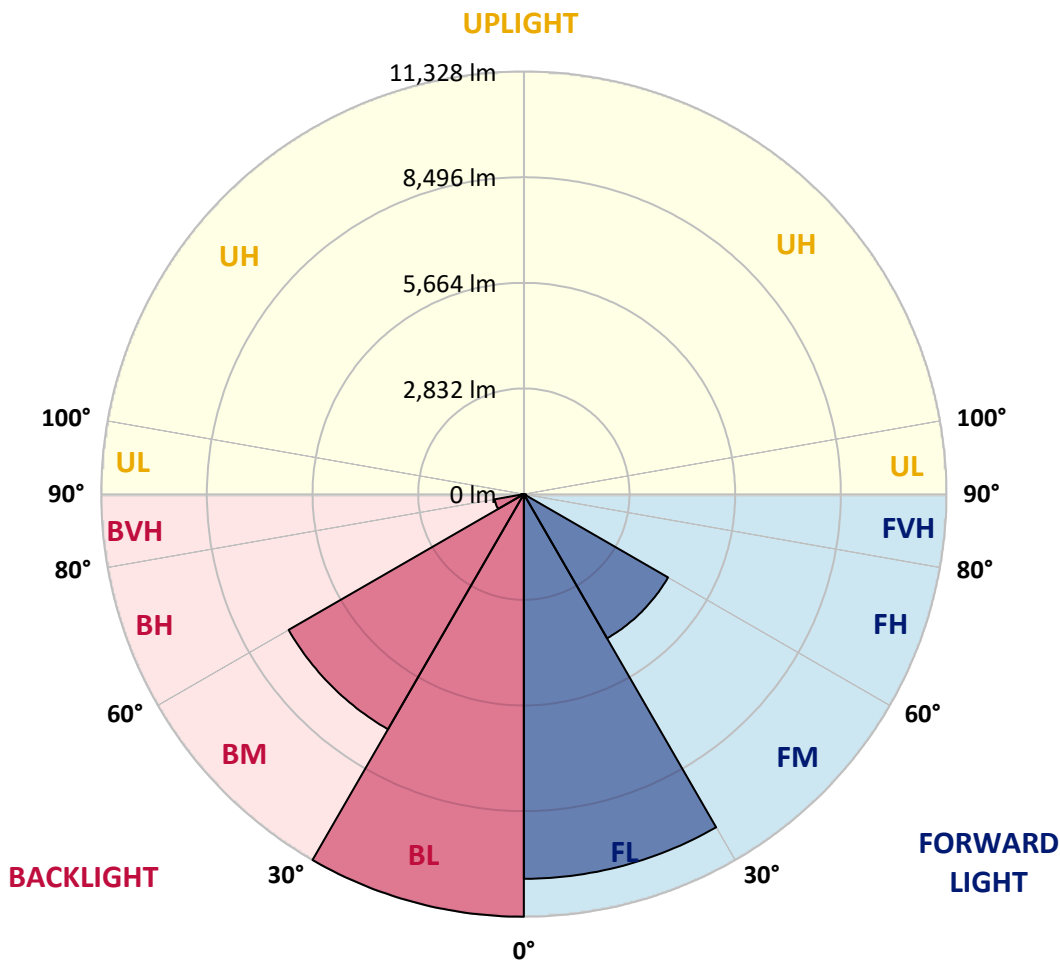
CATALOG NUMBER: IFLD-L-SA8B-740-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10309.4	30.0			
FM (30°-60°)	4463.1	13.0			
FH (60°-80°)	64.6	0.2			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	11327.6	33.0	B5		
BM (30°-60°)	7279.6	21.2	B4/8500		
BH (60°-80°)	794.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	71.1	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-G2

Type I Short





REPORT NUMBER: P637923
 CATALOG NUMBER: IFLD-L-SA8B-740-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3
2.5°	41005.7	40838.2	40600.1	40578.1	40701.5	40970.4	40798.5	40807.3	40701.5	40882.2
5°	40362.1	40203.4	40040.3	39824.3	40005.0	40119.6	40031.4	39934.5	39797.8	39974.1
7.5°	39145.4	39057.2	38814.8	38717.8	38828.0	38955.8	38766.3	38739.8	38550.3	38779.5
10°	37285.1	37249.8	37011.8	36954.5	37051.5	37245.4	37161.7	37144.0	37025.0	37003.0
12.5°	35354.3	35217.6	34922.3	34904.6	35050.1	35341.0	35116.2	34900.2	34966.3	35023.7
15°	30381.8	30236.3	30968.1	32118.6	32722.5	32700.5	32766.6	32506.5	32427.2	32453.6
17.5°	24152.9	23906.0	24170.5	25951.4	28821.2	30487.6	30029.1	29469.2	29169.5	28971.1
20°	20846.7	20859.9	20811.4	21269.9	23059.6	26859.5	26749.3	25669.3	25277.0	25113.9
22.5°	18836.5	18761.6	18655.8	18801.2	19281.7	21512.3	23006.7	22014.9	21878.2	21697.5
25°	16866.0	16866.0	16738.2	16883.6	17020.3	17051.2	18550.0	18955.5	18691.0	18691.0
27.5°	15160.0	15071.9	15014.5	15080.7	14899.9	14031.5	14221.1	16297.4	16116.6	16006.4
30°	13467.2	13440.8	13343.8	13432.0	12761.9	11783.3	11386.5	13753.8	13943.3	13903.7
32.5°	11117.6	11223.4	11655.4	11792.1	10646.0	9856.9	9477.8	11417.4	12175.6	12144.8
35°	7555.8	7643.9	8137.7	9768.7	8825.3	8261.1	8150.9	9081.0	10328.6	10447.6
37.5°	6017.3	6004.1	6145.1	6436.1	7092.9	6956.2	6925.4	7167.8	8424.2	8477.1
40°	4959.3	4941.7	4937.3	4699.2	4536.1	5783.6	5699.9	5554.4	6643.3	6749.1
42.5°	3998.3	4015.9	4029.2	3509.0	3270.9	4461.2	4412.7	4262.8	5210.6	5334.0
45°	3138.7	3134.3	3160.7	2614.1	2548.0	2852.1	3297.4	3178.4	3932.2	4064.4
47.5°	1626.6	1684.0	2041.0	2023.4	2054.3	2023.4	2495.1	2464.2	2957.9	3169.5
50°	1093.2	1110.9	1141.7	1146.1	1617.8	1490.0	1692.8	1917.6	2071.9	2398.1
52.5°	846.4	859.6	780.3	731.8	991.9	1102.1	1110.9	1326.9	1445.9	1776.5
55°	471.7	529.0	568.7	573.1	546.6	815.5	811.1	983.0	1075.6	1296.0
57.5°	61.7	74.9	114.6	370.3	365.9	454.1	568.7	714.1	767.0	947.8
60°	4.4	8.8	13.2	57.3	242.5	264.5	387.9	445.2	533.4	665.6
62.5°	0.0	0.0	4.4	13.2	48.5	154.3	202.8	233.6	313.0	436.4
65°	0.0	0.0	4.4	8.8	17.6	57.3	79.3	127.8	185.1	268.9
67.5°	0.0	0.0	4.4	8.8	13.2	22.0	35.3	57.3	97.0	163.1
70°	0.0	0.0	4.4	8.8	13.2	17.6	26.4	35.3	52.9	88.2
72.5°	0.0	0.0	4.4	4.4	8.8	22.0	22.0	26.4	35.3	48.5
75°	0.0	0.0	4.4	8.8	13.2	22.0	22.0	22.0	26.4	30.9
77.5°	0.0	0.0	4.4	8.8	13.2	22.0	17.6	22.0	22.0	22.0
80°	0.0	0.0	4.4	8.8	13.2	22.0	26.4	22.0	17.6	17.6
82.5°	0.0	0.0	4.4	13.2	13.2	30.9	30.9	30.9	13.2	13.2
85°	0.0	0.0	8.8	13.2	22.0	35.3	35.3	26.4	13.2	8.8
87.5°	0.0	0.0	4.4	8.8	8.8	17.6	26.4	22.0	8.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637923
 CATALOG NUMBER: IFLD-L-SA8B-740-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
41001.3	0°	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3	41001.3
40617.7	2.5°	40944.0	40833.7	41040.9	41067.4	40979.2	40869.0	40613.3	40591.3	40146.1
39718.5	5°	40168.1	39987.4	40119.6	40207.8	40176.9	40057.9	39952.1	39855.1	39454.0
38259.3	7.5°	38722.2	38656.1	38717.8	38783.9	38911.7	38783.9	38739.8	38638.4	38241.7
36822.2	10°	37117.6	36994.1	37227.8	37196.9	37161.7	37126.4	36941.2	36958.9	36491.6
34865.0	12.5°	35147.1	34939.9	35164.7	35191.2	35164.7	35041.3	34834.1	34922.3	34494.7
32220.0	15°	32497.7	32475.7	32638.8	32744.6	32819.5	32687.3	32616.7	32660.8	32405.1
28816.8	17.5°	29244.4	29531.0	30064.4	30245.1	30249.5	30386.2	30346.5	30293.6	30104.0
25047.8	20°	25418.0	25969.1	26789.0	27631.0	27873.5	27758.8	27705.9	27802.9	27520.8
21507.9	22.5°	21887.0	22358.7	23310.9	24540.8	25250.5	25321.1	25307.8	25224.1	25113.9
18673.4	25°	18889.4	19308.2	20220.7	21344.8	22707.0	22909.7	22918.6	22892.1	22795.1
16103.4	27.5°	16359.1	16866.0	17368.6	18373.6	19824.0	20661.5	20555.7	20524.9	20489.6
13934.5	30°	14066.8	14706.0	15177.7	15803.6	17104.1	18237.0	18347.2	18294.3	18210.5
12140.4	32.5°	12250.6	12629.7	13229.2	13652.4	14586.9	15869.7	16292.9	16253.3	16178.3
10522.5	35°	10672.4	10822.3	11294.0	11765.7	12387.2	13630.4	14256.3	14168.2	14154.9
8574.1	37.5°	8790.1	9292.6	9552.7	10028.8	10465.2	11430.6	12294.6	12255.0	12259.4
6894.5	40°	7097.3	7388.2	7904.0	8305.2	8706.3	9411.6	10372.6	10399.1	10390.3
5338.4	42.5°	5448.6	5730.7	6273.0	6709.4	7066.4	7502.9	8419.8	8450.6	8490.3
4157.0	45°	4254.0	4434.7	4831.5	5285.5	5664.6	5929.1	6625.6	6824.0	6828.4
3222.4	47.5°	3301.8	3509.0	3791.1	4227.5	4597.8	4787.4	5294.3	5563.2	5550.0
2473.0	50°	2592.1	2781.6	3010.8	3354.7	3755.8	3905.7	4280.4	4544.9	4531.7
1864.7	52.5°	1983.7	2226.2	2429.0	2693.4	3085.8	3213.6	3482.5	3786.7	3742.6
1366.6	55°	1503.2	1750.1	1939.6	2160.0	2517.1	2680.2	2865.4	3107.8	3116.6
1058.0	57.5°	1132.9	1388.6	1560.5	1785.3	2054.3	2235.0	2376.1	2636.1	2631.7
723.0	60°	811.1	1031.5	1238.7	1472.4	1679.5	1886.7	1983.7	2230.6	2239.4
511.4	62.5°	586.3	793.5	991.9	1194.6	1379.8	1582.6	1670.7	1864.7	1891.1
335.0	65°	410.0	555.4	784.7	939.0	1146.1	1296.0	1410.6	1578.2	1609.0
198.4	67.5°	264.5	401.2	621.6	758.2	947.8	1075.6	1194.6	1326.9	1366.6
127.8	70°	158.7	304.2	462.9	608.3	780.3	894.9	1009.5	1124.1	1146.1
61.7	72.5°	101.4	211.6	335.0	493.7	626.0	749.4	850.8	934.6	868.4
39.7	75°	57.3	145.5	264.5	387.9	507.0	626.0	709.7	753.8	603.9
26.4	77.5°	35.3	105.8	216.0	313.0	392.3	502.5	555.4	581.9	432.0
17.6	80°	22.0	79.3	180.7	255.7	255.7	370.3	432.0	454.1	313.0
13.2	82.5°	17.6	57.3	141.1	194.0	171.9	277.7	339.4	343.8	220.4
8.8	85°	13.2	44.1	88.2	127.8	119.0	194.0	198.4	220.4	145.5
8.8	87.5°	8.8	26.4	52.9	74.9	66.1	92.6	105.8	119.0	79.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41001.3
39797.8
39132.2
38157.9
36332.9
34371.2
32096.6
29821.9
27318.0
24902.3
22468.9
20282.4
18104.7
15980.0
14009.5
12118.3
10236.0
8358.1
6713.8
5501.5
4531.7
3747.0
3116.6
2622.9
2217.4
1882.3
1600.2
1362.2
1128.5
806.7
573.1
405.6
290.9
202.8
132.2
70.5
0.0

(END OF REPORT)