

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: P638119

Luminaire Tested: **IFLD-M-SA4E-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638119
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25358.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

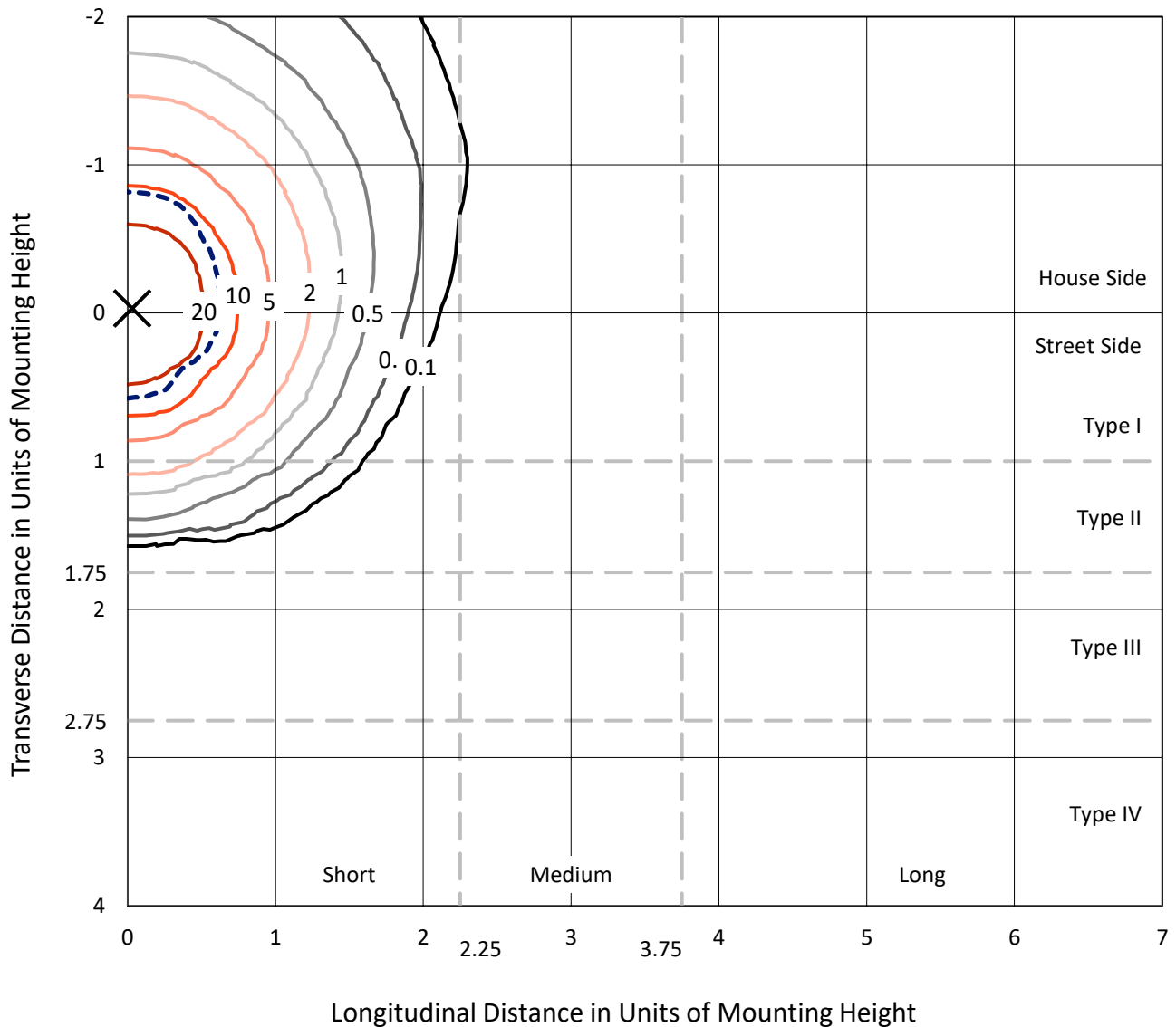
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638119
 CATALOG NUMBER: IFLD-M-SA4E-730-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

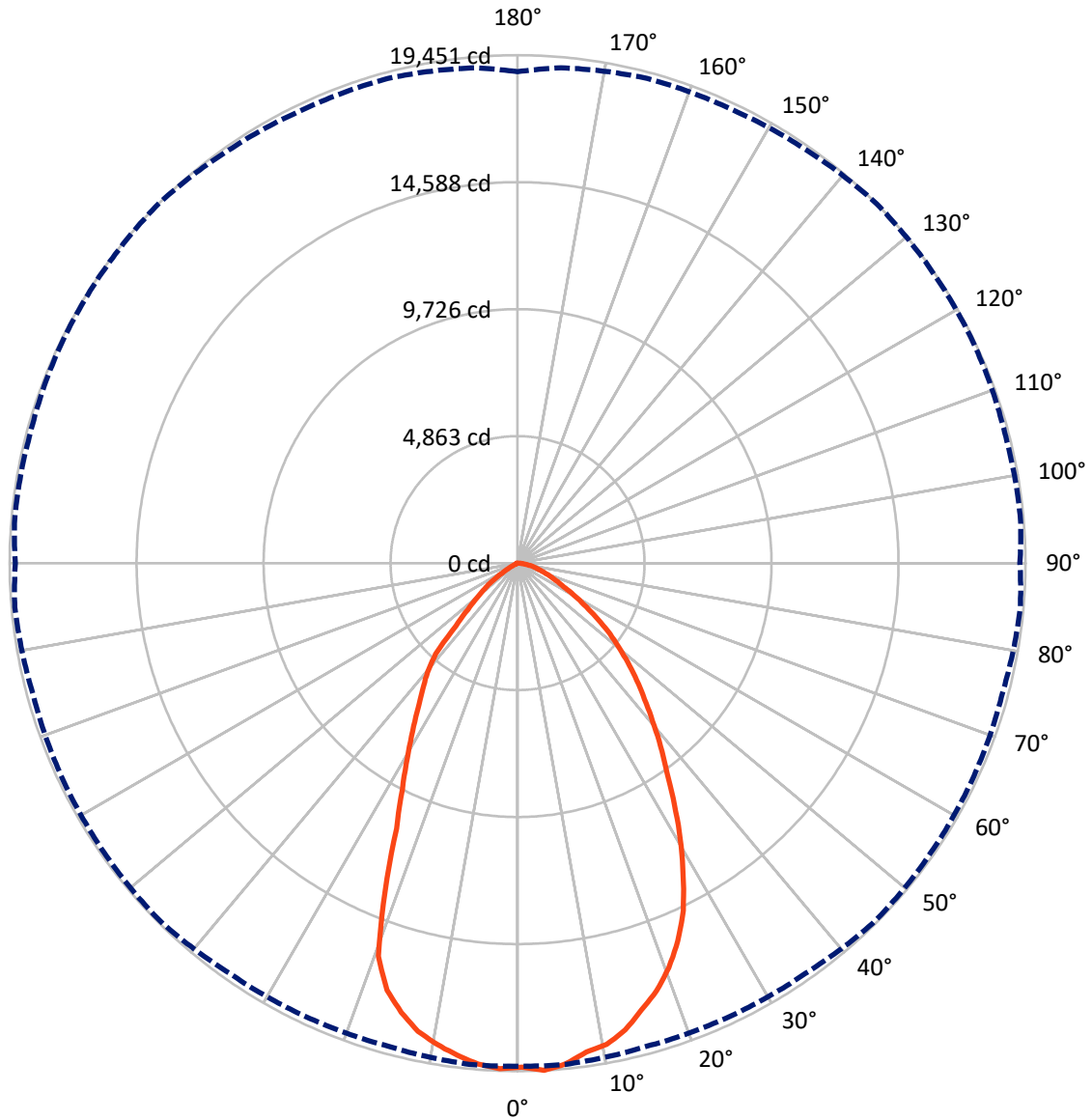
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.2 fc
 Type I - Short - N/A

REPORT NUMBER: P638119
CATALOG NUMBER: IFLD-M-SA4E-730-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638119
 CATALOG NUMBER: IFLD-M-SA4E-730-U-77-VI

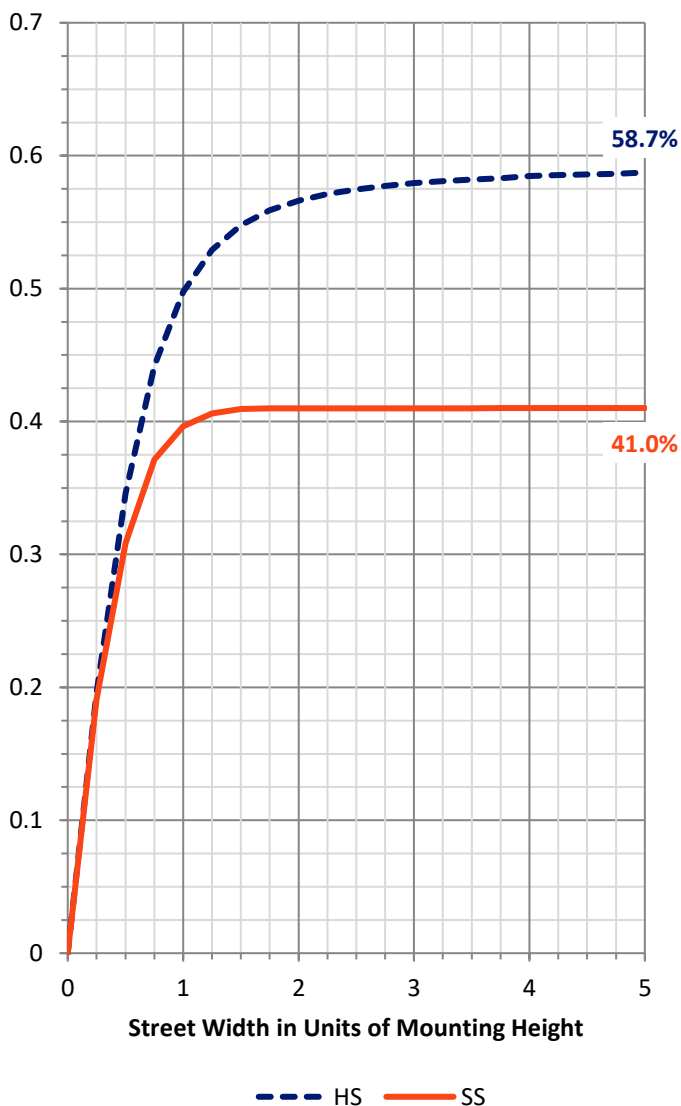
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15018.5	0.0	15018.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10339.9	0.0	10339.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	25358.4	0.0	25358.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1809.8	7.1
10°-20°	4853.1	19.1
20°-30°	5918.7	23.3
30°-40°	5403.7	21.3
40°-50°	3905.1	15.4
50°-60°	2132.2	8.4
60°-70°	881.6	3.5
70°-80°	357.1	1.4
80°-90°	97.1	0.4
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°	25358.4	100.0
0°-180°	25358.4	100.0



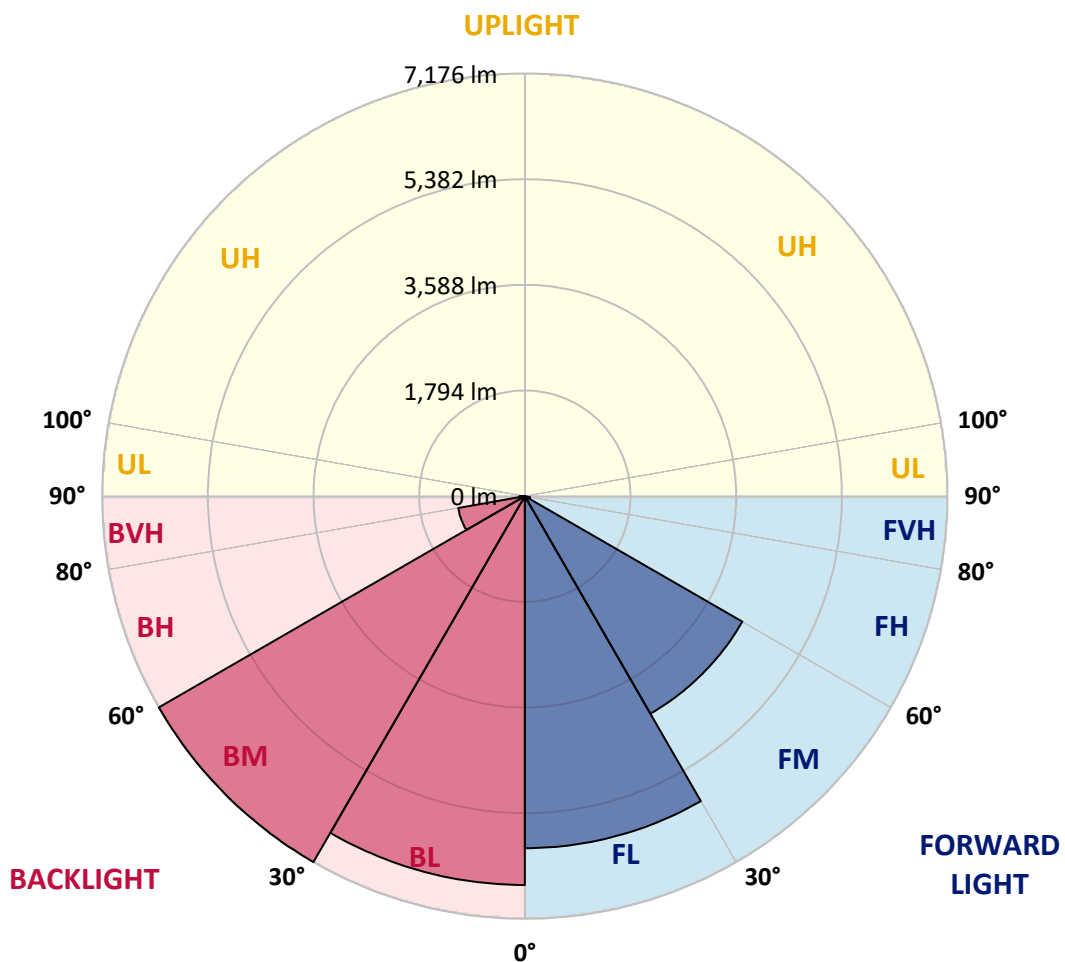
REPORT NUMBER: P638119
 CATALOG NUMBER: IFLD-M-SA4E-730-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5977.9	23.6			
FM (30°-60°)	4264.8	16.8			
FH (60°-80°)	89.4	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	6603.7	26.0	B5		
BM (30°-60°)	7176.2	28.3	B4/8500		
BH (60°-80°)	1149.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	89.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P638119
 CATALOG NUMBER: IFLD-M-SA4E-730-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7
2.5°	19261.9	19286.9	19151.2	19165.5	19190.5	19372.6	19326.2	19283.4	19222.7	19326.2
5°	19236.9	19251.2	19108.4	19058.4	19079.8	19244.1	19094.1	19094.1	19079.8	19062.0
7.5°	19044.1	19051.3	18940.6	18851.3	18908.4	18983.4	18872.7	18926.3	18847.7	18908.4
10°	18754.9	18708.4	18576.3	18551.3	18615.6	18687.0	18612.0	18662.0	18590.6	18637.0
12.5°	18329.9	18258.5	18151.4	18119.2	18229.9	18326.3	18265.6	18237.1	18144.2	18258.5
15°	16690.8	16637.3	16880.1	17305.0	17687.1	17769.3	17705.0	17733.6	17540.7	17572.9
17.5°	13737.6	13637.6	13898.3	14905.3	16340.9	17097.9	17040.8	16855.1	16569.4	16633.7
20°	12484.2	12455.6	12427.1	12666.3	13669.8	15965.9	16044.5	15573.1	15166.0	15076.7
22.5°	11777.1	11766.4	11737.9	11791.4	12055.7	13530.5	14430.4	13994.7	13723.3	13698.3
25°	11130.8	11112.9	11027.2	11095.1	11095.1	11180.8	12334.2	12598.5	12359.2	12330.6
27.5°	10473.7	10441.6	10427.3	10459.4	10295.2	9716.7	10009.5	11298.6	11173.6	11180.8
30°	9763.1	9752.4	9713.1	9781.0	9273.9	8556.1	8370.4	10120.2	10145.2	10138.1
32.5°	8706.1	8752.5	8931.1	9006.0	8170.4	7577.7	7267.0	8756.1	9266.7	9256.0
35°	6324.2	6324.2	6906.3	7988.3	7159.8	6713.5	6545.6	7424.1	8399.0	8434.7
37.5°	5199.4	5217.2	5331.5	5824.3	6177.8	6020.7	5970.7	6249.2	7284.8	7342.0
40°	4678.0	4678.0	4678.0	4474.5	4463.7	5424.3	5395.8	5306.5	6292.1	6417.1
42.5°	4203.1	4213.8	4220.9	3706.7	3421.0	4688.7	4624.4	4488.7	5402.9	5549.3
45°	3713.8	3731.7	3753.1	3099.6	2974.6	3374.6	3913.8	3763.8	4524.5	4713.7
47.5°	2267.6	2296.1	2781.8	2628.3	2642.5	2603.3	3192.5	3167.5	3710.3	3978.1
50°	1532.0	1542.7	1589.1	1667.7	2267.6	2046.2	2260.4	2621.1	2817.5	3224.6
52.5°	1285.6	1303.4	1189.1	1082.0	1489.1	1599.8	1578.4	1946.2	2024.8	2528.3
55°	903.5	960.6	907.0	896.3	846.3	1242.7	1196.3	1496.2	1546.2	1921.2
57.5°	92.8	107.1	185.7	667.8	553.5	703.5	853.5	1096.3	1146.3	1417.7
60°	7.1	7.1	17.9	92.8	403.5	421.4	589.2	674.9	771.3	989.2
62.5°	0.0	3.6	7.1	14.3	64.3	225.0	296.4	353.5	464.2	639.2
65°	0.0	0.0	3.6	10.7	14.3	85.7	114.3	185.7	253.5	396.4
67.5°	0.0	0.0	3.6	7.1	10.7	21.4	39.3	67.8	135.7	225.0
70°	0.0	0.0	3.6	7.1	10.7	17.9	28.6	42.9	60.7	121.4
72.5°	0.0	0.0	3.6	3.6	7.1	17.9	21.4	28.6	42.9	60.7
75°	0.0	0.0	3.6	3.6	10.7	21.4	17.9	21.4	28.6	39.3
77.5°	0.0	0.0	3.6	7.1	10.7	21.4	17.9	21.4	21.4	25.0
80°	0.0	0.0	3.6	7.1	14.3	25.0	21.4	21.4	17.9	17.9
82.5°	0.0	0.0	3.6	10.7	14.3	32.1	32.1	28.6	14.3	10.7
85°	0.0	0.0	7.1	14.3	21.4	35.7	35.7	28.6	10.7	7.1
87.5°	0.0	0.0	7.1	10.7	17.9	25.0	35.7	28.6	10.7	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638119

CATALOG NUMBER: IFLD-M-SA4E-730-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
19297.7	0°	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7	19297.7
19236.9	2.5°	19333.4	19311.9	19383.4	19411.9	19451.2	19301.2	19208.4	19212.0	19040.5
19019.1	5°	19133.4	19137.0	19229.8	19222.7	19261.9	19179.8	19144.1	19083.4	18933.4
18744.2	7.5°	18879.9	18847.7	18937.0	19004.8	18904.8	18962.0	18879.9	18908.4	18819.1
18501.3	10°	18683.4	18608.5	18690.6	18737.0	18740.6	18683.4	18604.9	18529.9	18497.8
18122.8	12.5°	18247.8	18151.4	18290.6	18354.9	18344.2	18233.5	18144.2	18162.1	18058.5
17458.6	15°	17647.9	17651.4	17751.4	17812.1	17755.0	17730.0	17737.1	17694.3	17605.0
16540.8	17.5°	16730.1	16783.7	17047.9	17194.3	17226.5	17176.5	17151.5	17101.5	17012.2
15076.7	20°	15201.7	15523.1	15994.5	16448.0	16537.3	16523.0	16433.7	16412.3	16362.3
13626.9	22.5°	13859.0	14098.3	14644.7	15351.7	15715.9	15751.7	15644.5	15612.4	15558.8
12330.6	25°	12469.9	12727.0	13219.8	13987.6	14741.1	14894.6	14876.8	14780.3	14723.2
11180.8	27.5°	11298.6	11555.7	12002.1	12694.9	13501.9	13994.7	14041.2	13887.6	13884.0
10155.9	30°	10241.6	10595.1	10934.4	11498.6	12280.7	13019.8	13098.4	12991.3	13002.0
9216.7	32.5°	9413.1	9706.0	9995.2	10373.7	11023.7	11884.3	12191.4	12091.4	12052.1
8434.7	35°	8566.8	8766.8	9063.2	9409.6	9852.4	10705.8	11237.9	11162.9	11123.6
7377.7	37.5°	7602.6	7945.5	8159.7	8549.0	8895.3	9573.8	10323.7	10313.0	10230.9
6477.8	40°	6613.5	6974.2	7299.1	7691.9	7959.7	8499.0	9331.0	9327.4	9338.2
5545.8	42.5°	5717.2	6049.3	6442.1	6870.6	7127.7	7520.5	8413.3	8463.3	8524.0
4778.0	45°	4906.5	5206.5	5570.8	6092.1	6402.8	6627.8	7420.5	7649.1	7645.5
4092.4	47.5°	4178.1	4460.2	4767.3	5274.4	5670.7	5874.3	6531.3	6856.3	6834.9
3356.7	50°	3506.7	3756.7	4078.1	4445.9	4978.0	5156.5	5645.7	6074.3	6042.1
2674.7	52.5°	2821.1	3167.5	3438.9	3774.5	4335.2	4510.2	4888.7	5306.5	5281.5
2006.9	55°	2199.7	2535.4	2863.9	3153.2	3624.6	3885.2	4156.6	4585.2	4578.0
1571.2	57.5°	1664.1	2031.9	2342.6	2617.5	2992.5	3313.9	3531.7	3921.0	3970.9
1074.9	60°	1232.0	1514.1	1849.8	2156.9	2453.3	2785.4	2931.8	3313.9	3335.3
735.6	62.5°	839.2	1149.9	1478.4	1756.9	1978.3	2321.1	2453.3	2767.5	2806.8
471.4	65°	582.1	782.0	1157.0	1357.0	1628.4	1921.2	2053.3	2303.3	2381.9
271.4	67.5°	385.7	557.1	903.5	1085.6	1353.4	1553.4	1721.2	1924.8	2010.5
171.4	70°	210.7	410.7	646.4	857.0	1089.2	1282.0	1446.3	1610.5	1685.5
78.6	72.5°	142.8	275.0	449.9	678.5	878.5	1067.7	1214.1	1335.6	1339.1
46.4	75°	71.4	185.7	342.8	524.9	685.6	871.3	1003.4	1074.9	989.2
28.6	77.5°	42.9	135.7	278.5	421.4	557.1	703.5	778.5	817.8	678.5
21.4	80°	25.0	96.4	217.8	335.7	385.7	517.8	589.2	599.9	453.5
14.3	82.5°	17.9	71.4	171.4	246.4	235.7	364.2	442.8	428.5	289.3
10.7	85°	10.7	50.0	107.1	153.6	142.8	239.3	257.1	264.3	167.8
7.1	87.5°	7.1	28.6	57.1	82.1	67.8	103.6	103.6	125.0	82.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19297.7
<i>18819.1</i>
18897.7
18669.2
18354.9
17969.2
17515.7
16972.9
16248.0
15544.5
14662.5
13876.9
12948.4
12055.7
11070.1
10298.7
9338.2
8491.8
7652.6
6842.0
6070.7
5335.1
4595.9
3949.5
3367.4
2813.9
2364.0
1999.8
1656.9
1307.0
924.9
653.5
424.9
267.8
153.6
71.4
0.0

(END OF REPORT)