

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: P638062

Luminaire Tested: **IFLD-L-SA7A-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638062
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17734.3 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

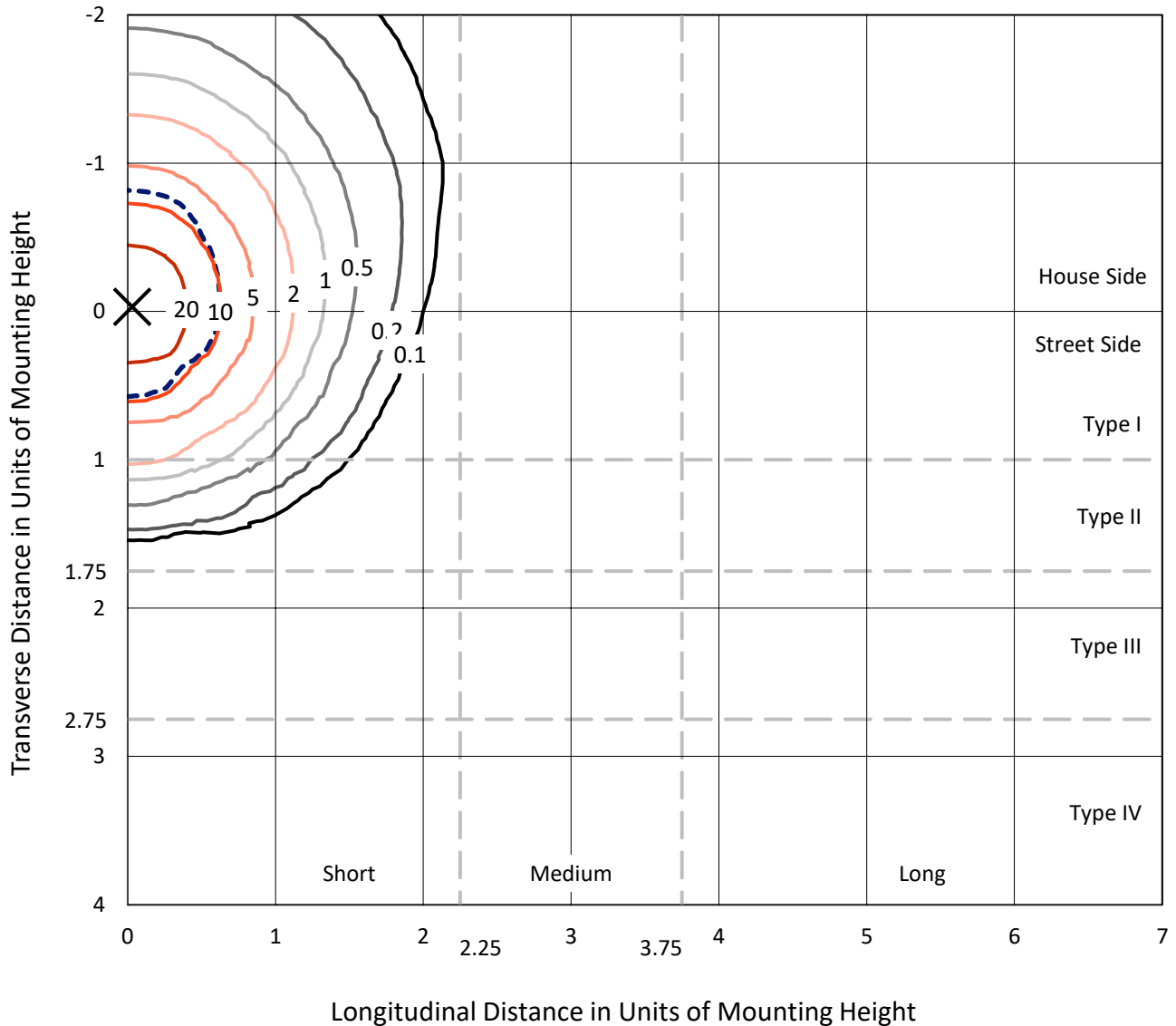
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638062
 CATALOG NUMBER: IFLD-L-SA7A-722-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

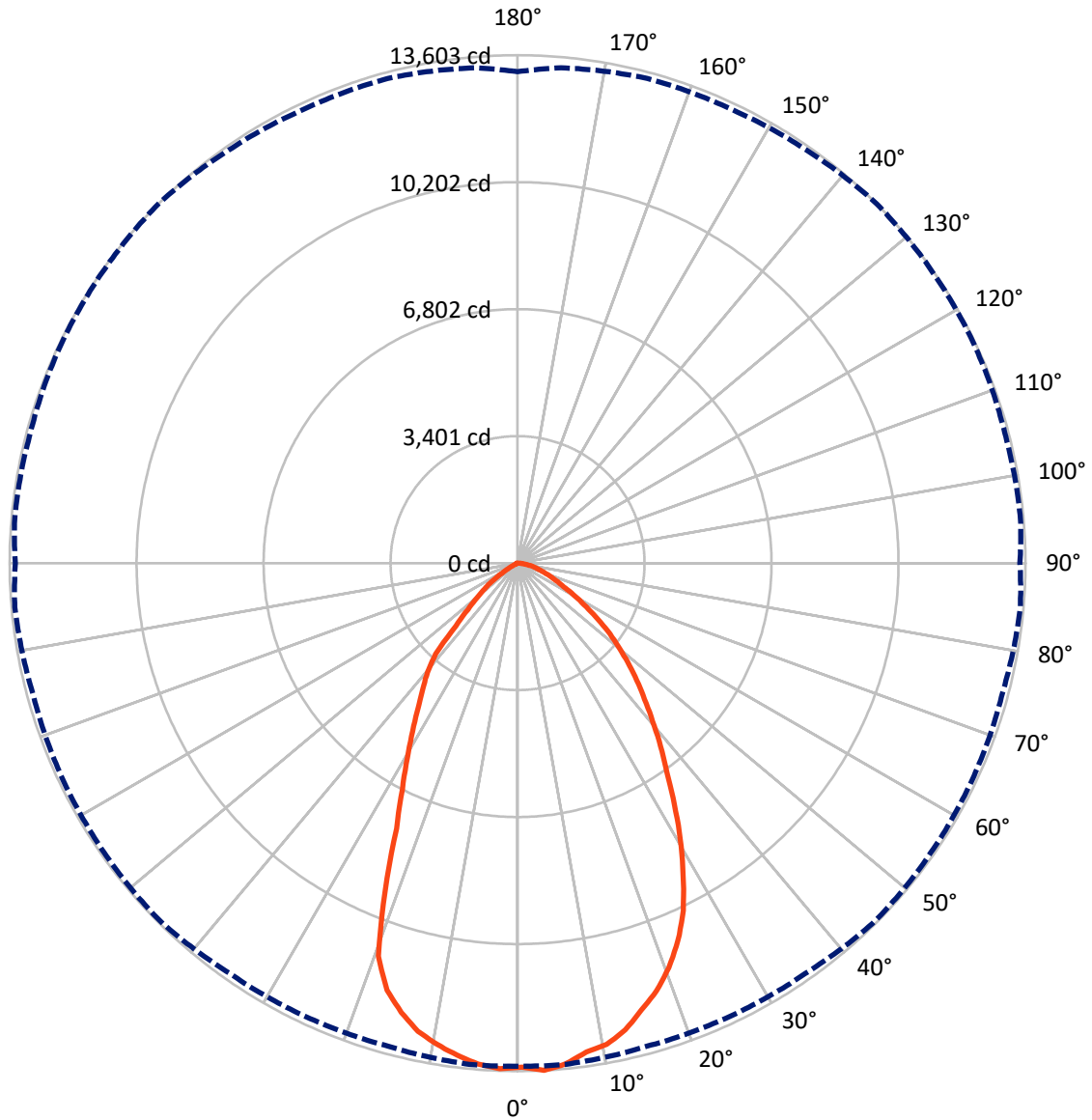
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.7 fc
 Type I - Short - N/A

REPORT NUMBER: P638062
CATALOG NUMBER: IFLD-L-SA7A-722-U-77-VI

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-L-SA7A-722-U-77-VI

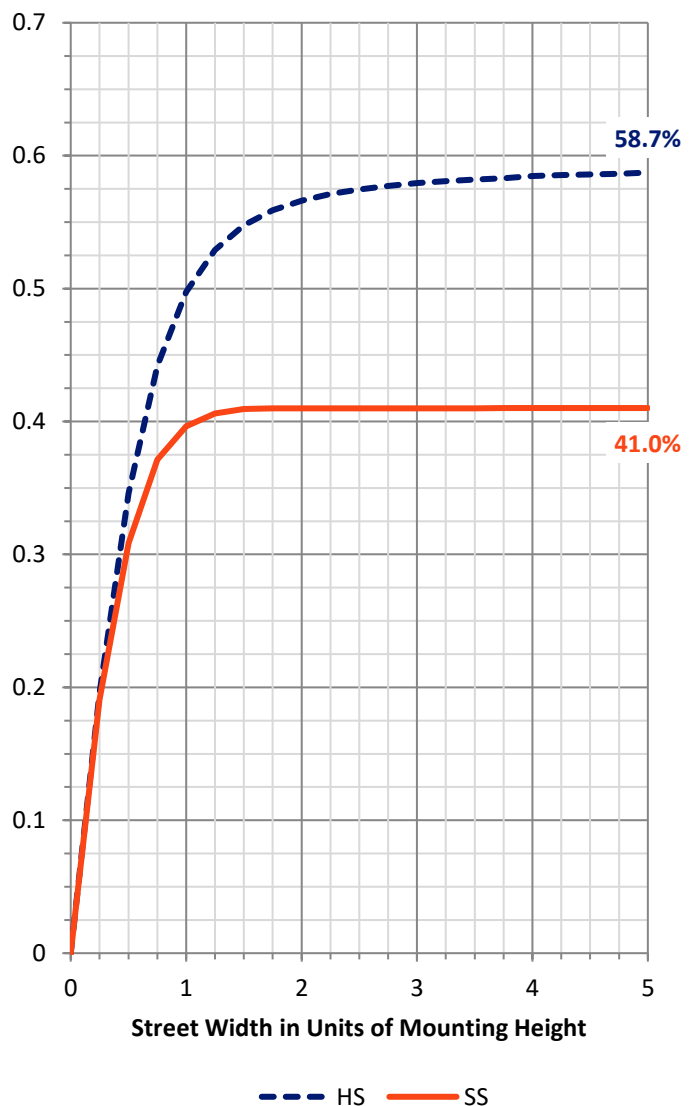
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10503.2	0.0	10503.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7231.2	0.0	7231.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	17734.3	0.0	17734.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.7	7.1
10°-20°	3394.0	19.1
20°-30°	4139.2	23.3
30°-40°	3779.0	21.3
40°-50°	2731.0	15.4
50°-60°	1491.2	8.4
60°-70°	616.5	3.5
70°-80°	249.7	1.4
80°-90°	67.9	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°	17734.3	100.0
0°-180°	17734.3	100.0



REPORT NUMBER: P638062

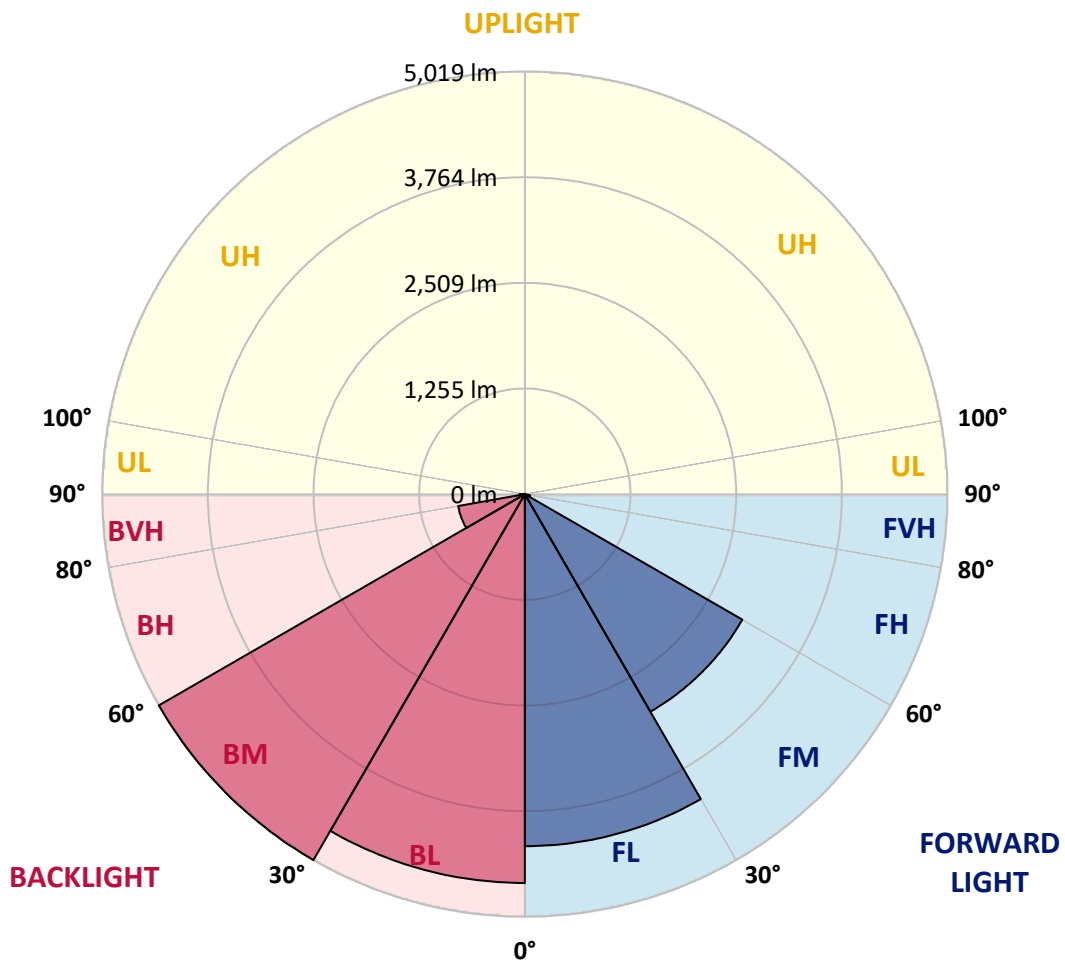
CATALOG NUMBER: IFLD-L-SA7A-722-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4180.6	23.6			
FM (30°-60°)	2982.6	16.8			
FH (60°-80°)	62.5	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4618.3	26.0	B4/5000		
BM (30°-60°)	5018.6	28.3	B4/8500		
BH (60°-80°)	803.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P638062
 CATALOG NUMBER: IFLD-L-SA7A-722-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7
2.5°	13470.8	13488.2	13393.3	13403.3	13420.8	13548.2	13515.7	13485.7	13443.3	13515.7
5°	13453.3	13463.3	13363.4	13328.4	13343.4	13458.3	13353.4	13353.4	13343.4	13330.9
7.5°	13318.4	13323.4	13246.0	13183.6	13223.5	13276.0	13198.6	13236.0	13181.1	13223.5
10°	13116.1	13083.7	12991.3	12973.8	13018.7	13068.7	13016.2	13051.2	13001.3	13033.7
12.5°	12819.0	12769.0	12694.1	12671.6	12749.0	12816.5	12774.0	12754.0	12689.1	12769.0
15°	11672.7	11635.2	11805.0	12102.2	12369.4	12426.9	12381.9	12401.9	12267.0	12289.5
17.5°	9607.3	9537.4	9719.7	10424.0	11427.9	11957.4	11917.4	11787.5	11587.8	11632.7
20°	8730.8	8710.8	8690.8	8858.1	9559.9	11165.7	11220.6	10891.0	10606.3	10543.9
22.5°	8236.3	8228.8	8208.8	8246.3	8431.1	9462.5	10091.8	9787.2	9597.4	9579.9
25°	7784.3	7771.8	7711.8	7759.3	7759.3	7819.2	8625.9	8810.7	8643.4	8623.4
27.5°	7324.8	7302.3	7292.3	7314.8	7199.9	6795.3	7000.1	7901.6	7814.2	7819.2
30°	6827.8	6820.3	6792.8	6840.3	6485.6	5983.7	5853.8	7077.5	7095.0	7090.0
32.5°	6088.6	6121.0	6245.9	6298.3	5714.0	5299.4	5082.1	6123.5	6480.7	6473.2
35°	4422.8	4422.8	4829.9	5586.6	5007.2	4695.0	4577.7	5192.0	5873.8	5898.8
37.5°	3636.2	3648.6	3728.6	4073.2	4320.4	4210.5	4175.6	4370.4	5094.6	5134.6
40°	3271.5	3271.5	3271.5	3129.2	3121.7	3793.5	3773.5	3711.1	4400.3	4487.8
42.5°	2939.4	2946.9	2951.9	2592.3	2392.5	3279.0	3234.1	3139.2	3778.5	3880.9
45°	2597.3	2609.7	2624.7	2167.7	2080.3	2360.0	2737.1	2632.2	3164.2	3296.5
47.5°	1585.8	1605.8	1945.4	1838.1	1848.0	1820.6	2232.6	2215.2	2594.8	2782.1
50°	1071.4	1078.9	1111.3	1166.3	1585.8	1431.0	1580.8	1833.1	1970.4	2255.1
52.5°	899.0	911.5	831.6	756.7	1041.4	1118.8	1103.8	1361.1	1416.0	1768.1
55°	631.8	671.8	634.3	626.8	591.9	869.1	836.6	1046.4	1081.4	1343.6
57.5°	64.9	74.9	129.9	467.0	387.1	492.0	596.9	766.7	801.7	991.5
60°	5.0	5.0	12.5	64.9	282.2	294.7	412.1	472.0	539.4	691.8
62.5°	0.0	2.5	5.0	10.0	45.0	157.3	207.3	247.2	324.7	447.0
65°	0.0	0.0	2.5	7.5	10.0	59.9	79.9	129.9	177.3	277.2
67.5°	0.0	0.0	2.5	5.0	7.5	15.0	27.5	47.4	94.9	157.3
70°	0.0	0.0	2.5	5.0	7.5	12.5	20.0	30.0	42.5	84.9
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	15.0	20.0	30.0	42.5
75°	0.0	0.0	2.5	2.5	7.5	15.0	12.5	15.0	20.0	27.5
77.5°	0.0	0.0	2.5	5.0	7.5	15.0	12.5	15.0	15.0	17.5
80°	0.0	0.0	2.5	5.0	10.0	17.5	15.0	15.0	12.5	12.5
82.5°	0.0	0.0	2.5	7.5	10.0	22.5	22.5	20.0	10.0	7.5
85°	0.0	0.0	5.0	10.0	15.0	25.0	25.0	20.0	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.5	17.5	25.0	20.0	7.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638062
 CATALOG NUMBER: IFLD-L-SA7A-722-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13495.7	0°	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7	13495.7
13453.3	2.5°	13520.7	13505.7	13555.7	13575.7	13603.1	13498.2	13433.3	13435.8	13315.9
13300.9	5°	13380.9	13383.4	13448.3	13443.3	13470.8	13413.3	13388.4	13345.9	13241.0
13108.6	7.5°	13203.5	13181.1	13243.5	13291.0	13221.0	13261.0	13203.5	13223.5	13161.1
12938.8	10°	13066.2	13013.7	13071.2	13103.7	13106.1	13066.2	13011.2	12958.8	12936.3
12674.1	12.5°	12761.5	12694.1	12791.5	12836.4	12828.9	12751.5	12689.1	12701.6	12629.2
12209.6	15°	12342.0	12344.5	12414.4	12456.8	12416.9	12399.4	12404.4	12374.4	12312.0
11567.8	17.5°	11700.1	11737.6	11922.4	12024.8	12047.3	12012.3	11994.8	11959.9	11897.4
10543.9	20°	10631.3	10856.0	11185.7	11502.8	11565.3	11555.3	11492.9	11477.9	11442.9
9529.9	22.5°	9692.3	9859.6	10241.7	10736.2	10990.9	11015.9	10940.9	10918.5	10881.0
8623.4	25°	8720.8	8900.6	9245.2	9782.2	10309.1	10416.5	10404.0	10336.6	10296.6
7819.2	27.5°	7901.6	8081.5	8393.6	8878.1	9442.5	9787.2	9819.6	9712.2	9709.7
7102.5	30°	7162.4	7409.7	7646.9	8041.5	8588.4	9105.4	9160.3	9085.4	9092.9
6445.7	32.5°	6583.0	6787.8	6990.1	7254.8	7709.4	8311.2	8526.0	8456.1	8428.6
5898.8	35°	5991.2	6131.0	6338.3	6580.5	6890.2	7487.1	7859.2	7806.7	7779.3
5159.5	37.5°	5316.9	5556.6	5706.5	5978.7	6220.9	6695.4	7219.9	7212.4	7154.9
4530.2	40°	4625.1	4877.3	5104.6	5379.3	5566.6	5943.7	6525.6	6523.1	6530.6
3878.4	42.5°	3998.3	4230.5	4505.2	4804.9	4984.7	5259.4	5883.8	5918.7	5961.2
3341.5	45°	3431.4	3641.2	3895.9	4260.5	4477.8	4635.1	5189.5	5349.3	5346.8
2862.0	47.5°	2921.9	3119.2	3334.0	3688.6	3965.8	4108.2	4567.7	4794.9	4779.9
2347.5	50°	2452.4	2627.2	2852.0	3109.2	3481.3	3606.2	3948.3	4248.0	4225.5
1870.5	52.5°	1972.9	2215.2	2405.0	2639.7	3031.8	3154.2	3418.9	3711.1	3693.6
1403.5	55°	1538.4	1773.1	2002.9	2205.2	2534.8	2717.1	2906.9	3206.6	3201.6
1098.8	57.5°	1163.8	1421.0	1638.3	1830.6	2092.8	2317.6	2469.9	2742.1	2777.1
751.7	60°	861.6	1058.9	1293.6	1508.4	1715.7	1947.9	2050.3	2317.6	2332.5
514.5	62.5°	586.9	804.2	1033.9	1228.7	1383.5	1623.3	1715.7	1935.5	1962.9
329.7	65°	407.1	546.9	809.1	949.0	1138.8	1343.6	1436.0	1610.8	1665.7
189.8	67.5°	269.7	389.6	631.8	759.2	946.5	1086.4	1203.7	1346.1	1406.0
119.9	70°	147.3	287.2	452.0	599.4	761.7	896.6	1011.4	1126.3	1178.8
54.9	72.5°	99.9	192.3	314.7	474.5	614.4	746.7	849.1	934.0	936.5
32.5	75°	49.9	129.9	239.7	367.1	479.5	609.4	701.8	751.7	691.8
20.0	77.5°	30.0	94.9	194.8	294.7	389.6	492.0	544.4	571.9	474.5
15.0	80°	17.5	67.4	152.3	234.8	269.7	362.1	412.1	419.6	317.2
10.0	82.5°	12.5	49.9	119.9	172.3	164.8	254.7	309.7	299.7	202.3
7.5	85°	7.5	35.0	74.9	107.4	99.9	167.3	179.8	184.8	117.4
5.0	87.5°	5.0	20.0	40.0	57.4	47.4	72.4	72.4	87.4	57.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13495.7
13161.1
13216.0
13056.2
12836.4
12566.7
12249.6
11870.0
11363.0
10871.0
10254.2
9704.7
9055.4
8431.1
7741.8
7202.4
6530.6
5938.7
5351.8
4784.9
4245.5
3731.1
3214.1
2762.1
2355.0
1967.9
1653.3
1398.5
1158.8
914.0
646.8
457.0
297.2
187.3
107.4
49.9
0.0

(END OF REPORT)