

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: P638265

Luminaire Tested: **IFLD-L-SA7A-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638265
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17698.2 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

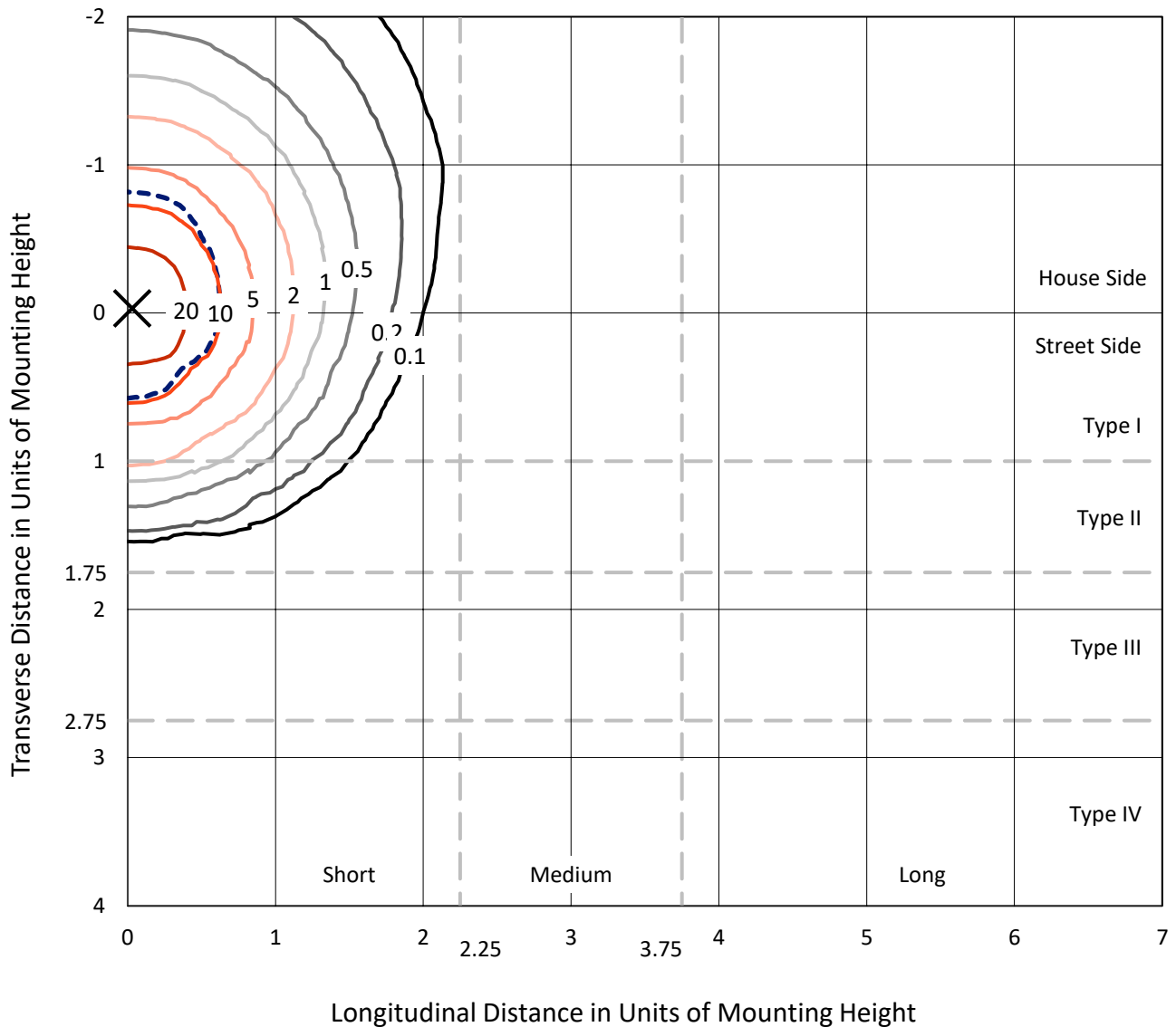
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638265
 CATALOG NUMBER: IFLD-L-SA7A-827-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

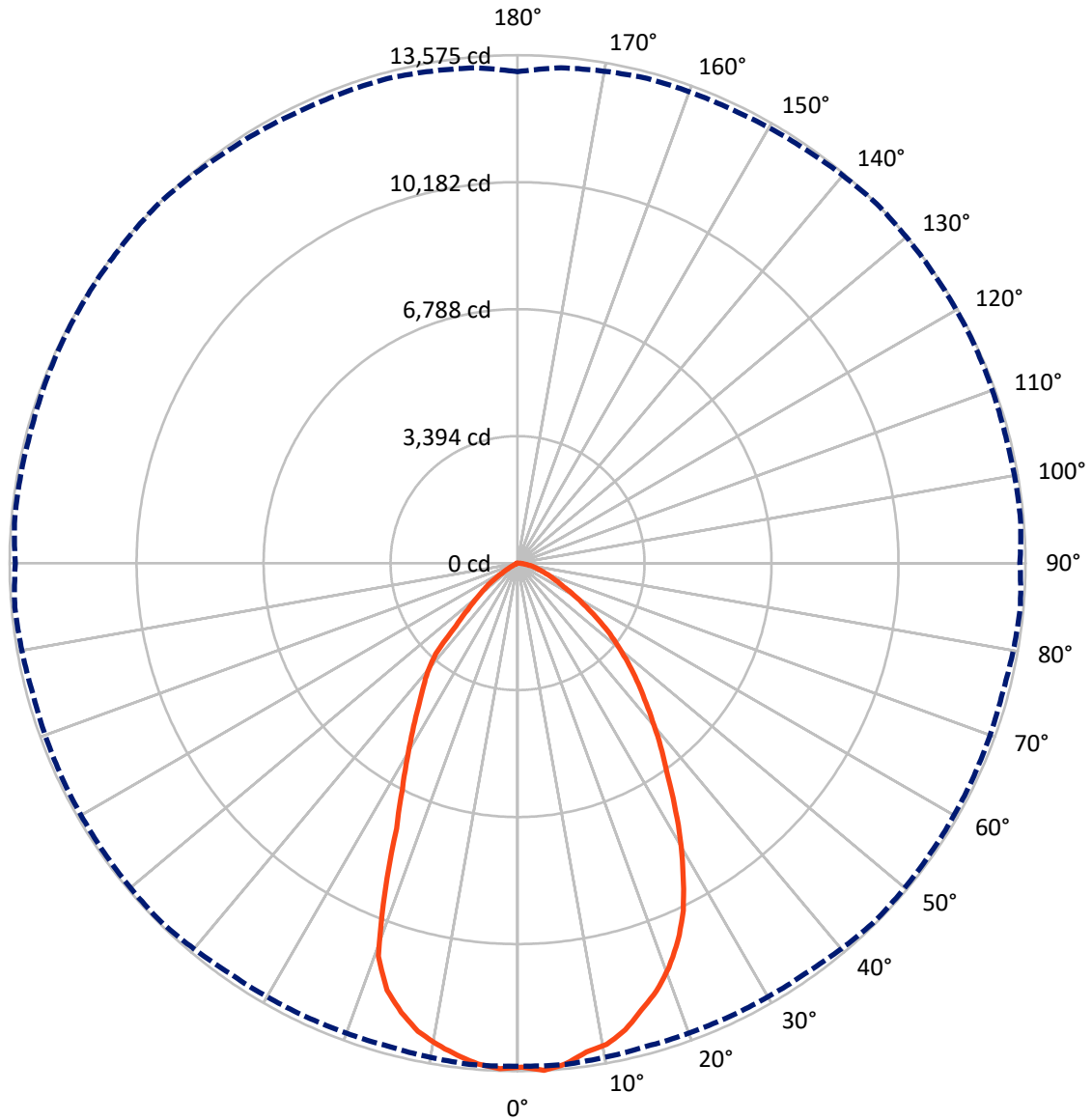
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P638265
CATALOG NUMBER: IFLD-L-SA7A-827-U-77-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638265
 CATALOG NUMBER: IFLD-L-SA7A-827-U-77-VI

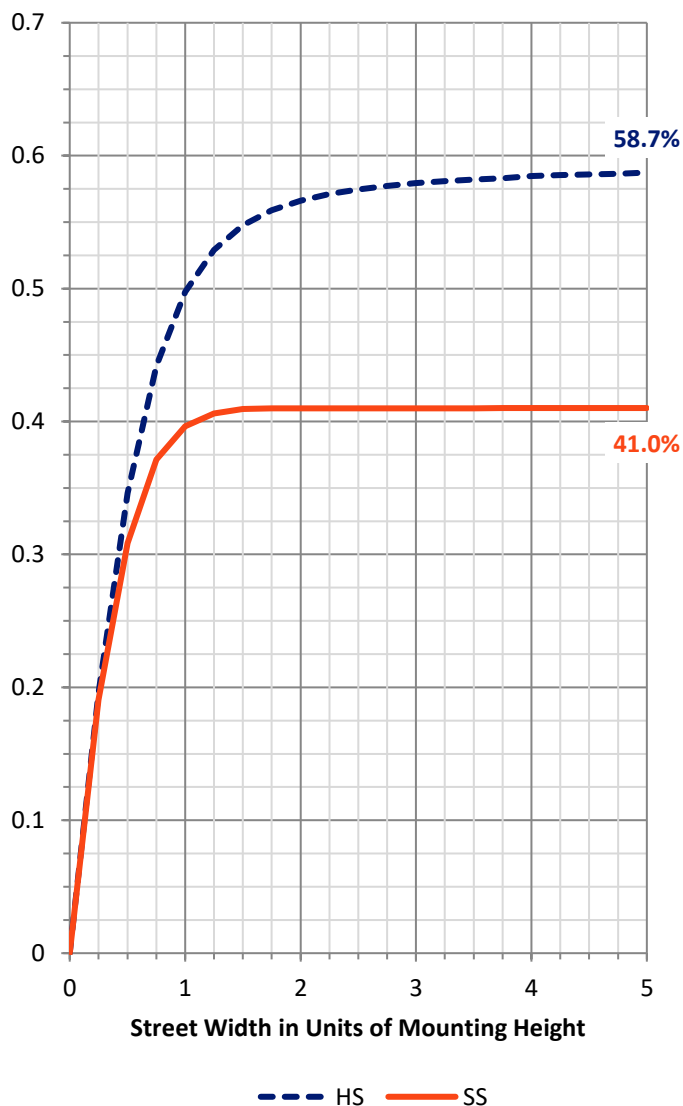
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10481.8	0.0	10481.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7216.4	0.0	7216.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	17698.2	0.0	17698.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1263.1	7.1
10°-20°	3387.1	19.1
20°-30°	4130.8	23.3
30°-40°	3771.3	21.3
40°-50°	2725.5	15.4
50°-60°	1488.1	8.4
60°-70°	615.3	3.5
70°-80°	249.2	1.4
80°-90°	67.8	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°	17698.2	100.0
0°-180°	17698.2	100.0



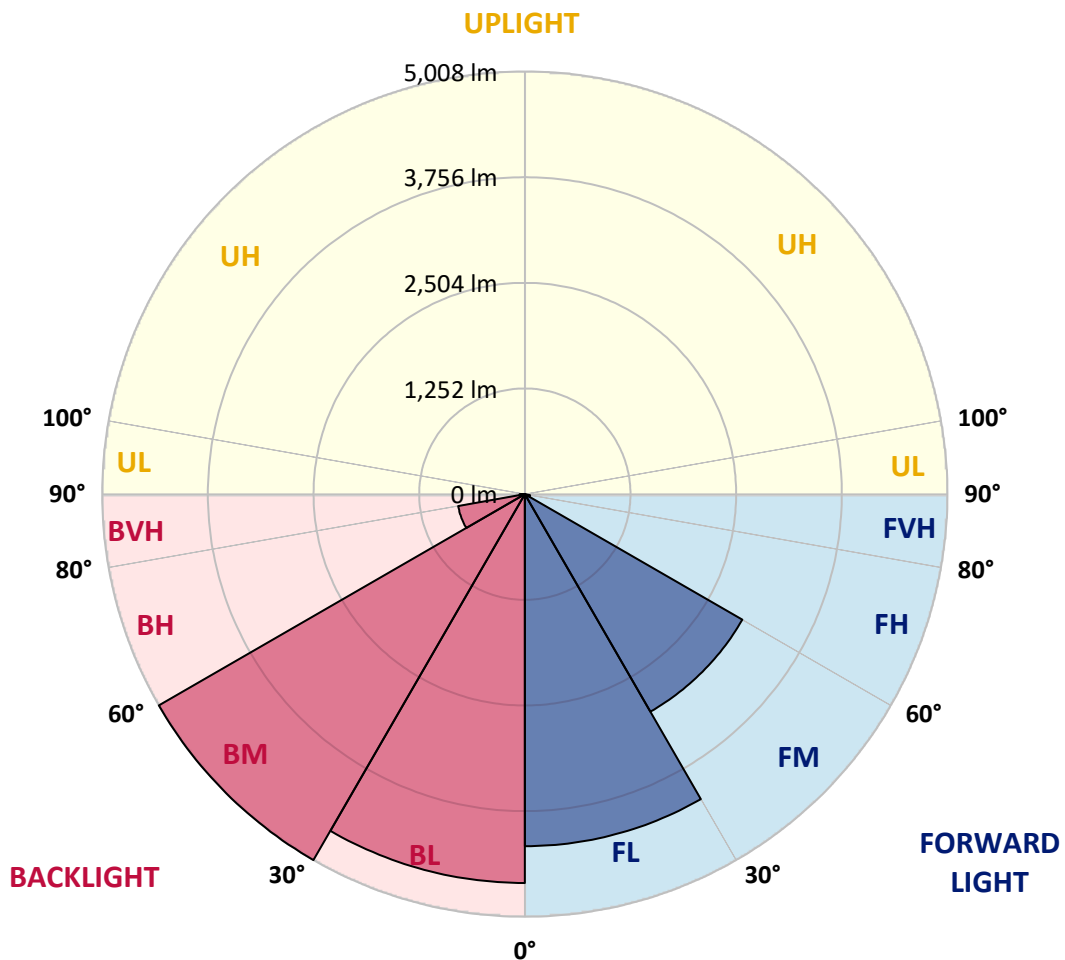
REPORT NUMBER: P638265
 CATALOG NUMBER: IFLD-L-SA7A-827-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4172.1	23.6			
FM (30°-60°)	2976.5	16.8			
FH (60°-80°)	62.4	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4608.9	26.0	B4/5000		
BM (30°-60°)	5008.4	28.3	B4/8500		
BH (60°-80°)	802.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.4	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: P638265
 CATALOG NUMBER: IFLD-L-SA7A-827-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3
2.5°	13443.3	13460.8	13366.1	13376.0	13393.5	13520.6	13488.2	13458.3	13415.9	13488.2
5°	13425.9	13435.9	13336.2	13301.3	13316.2	13430.9	13326.2	13326.2	13316.2	13303.8
7.5°	13291.3	13296.3	13219.0	13156.7	13196.6	13248.9	13171.7	13209.1	13154.2	13196.6
10°	13089.4	13057.0	12964.8	12947.4	12992.2	13042.1	12989.7	13024.6	12974.8	13007.2
12.5°	12792.8	12743.0	12668.2	12645.8	12723.1	12790.4	12748.0	12728.0	12663.2	12743.0
15°	11648.9	11611.5	11781.0	12077.6	12344.2	12401.6	12356.7	12376.6	12242.1	12264.5
17.5°	9587.8	9518.0	9699.9	10402.8	11404.7	11933.0	11893.1	11763.5	11564.2	11609.0
20°	8713.0	8693.1	8673.1	8840.1	9540.4	11143.0	11197.8	10868.8	10584.7	10522.4
22.5°	8219.5	8212.0	8192.1	8229.5	8413.9	9443.2	10071.3	9767.2	9577.8	9560.4
25°	7768.4	7756.0	7696.1	7743.5	7743.5	7803.3	8608.3	8792.7	8625.8	8605.8
27.5°	7309.8	7287.4	7277.4	7299.9	7185.2	6781.5	6985.8	7885.6	7798.3	7803.3
30°	6813.9	6806.4	6779.0	6826.3	6472.4	5971.5	5841.9	7063.1	7080.6	7075.6
32.5°	6076.2	6108.6	6233.2	6285.5	5702.3	5288.6	5071.8	6111.1	6467.5	6460.0
35°	4413.8	4413.8	4820.1	5575.2	4997.0	4685.5	4568.3	5181.4	5861.8	5886.8
37.5°	3628.8	3641.2	3721.0	4064.9	4311.6	4202.0	4167.1	4361.5	5084.2	5124.1
40°	3264.9	3264.9	3264.9	3122.8	3115.3	3785.8	3765.8	3703.5	4391.4	4478.6
42.5°	2933.4	2940.9	2945.9	2587.0	2387.6	3272.4	3227.5	3132.8	3770.8	3873.0
45°	2592.0	2604.4	2619.4	2163.3	2076.1	2355.2	2731.5	2626.9	3157.7	3289.8
47.5°	1582.6	1602.5	1941.5	1834.3	1844.3	1816.9	2228.1	2210.6	2589.5	2776.4
50°	1069.2	1076.7	1109.1	1163.9	1582.6	1428.1	1577.6	1829.3	1966.4	2250.5
52.5°	897.2	909.7	829.9	755.2	1039.3	1116.5	1101.6	1358.3	1413.1	1764.5
55°	630.5	670.4	633.0	625.6	590.7	867.3	834.9	1044.3	1079.2	1340.8
57.5°	64.8	74.8	129.6	466.1	386.3	491.0	595.7	765.1	800.0	989.4
60°	5.0	5.0	12.5	64.8	281.6	294.1	411.2	471.0	538.3	690.4
62.5°	0.0	2.5	5.0	10.0	44.9	157.0	206.9	246.7	324.0	446.1
65°	0.0	0.0	2.5	7.5	10.0	59.8	79.8	129.6	177.0	276.6
67.5°	0.0	0.0	2.5	5.0	7.5	15.0	27.4	47.4	94.7	157.0
70°	0.0	0.0	2.5	5.0	7.5	12.5	19.9	29.9	42.4	84.7
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	15.0	19.9	29.9	42.4
75°	0.0	0.0	2.5	2.5	7.5	15.0	12.5	15.0	19.9	27.4
77.5°	0.0	0.0	2.5	5.0	7.5	15.0	12.5	15.0	15.0	17.4
80°	0.0	0.0	2.5	5.0	10.0	17.4	15.0	15.0	12.5	12.5
82.5°	0.0	0.0	2.5	7.5	10.0	22.4	22.4	19.9	10.0	7.5
85°	0.0	0.0	5.0	10.0	15.0	24.9	24.9	19.9	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.5	17.4	24.9	19.9	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: P638265
 CATALOG NUMBER: IFLD-L-SA7A-827-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13468.3	0°	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3	13468.3
13425.9	2.5°	13493.2	13478.2	13528.1	13548.0	13575.4	13470.7	13405.9	13408.4	13288.8
13273.9	5°	13353.6	13356.1	13420.9	13415.9	13443.3	13386.0	13361.1	13318.7	13214.0
13082.0	7.5°	13176.7	13154.2	13216.5	13263.9	13194.1	13234.0	13176.7	13196.6	13134.3
12912.5	10°	13039.6	12987.2	13044.6	13077.0	13079.5	13039.6	12984.8	12932.4	12910.0
12648.3	12.5°	12735.5	12668.2	12765.4	12810.3	12802.8	12725.6	12663.2	12675.7	12603.4
12184.7	15°	12316.8	12319.3	12389.1	12431.5	12391.6	12374.1	12379.1	12349.2	12286.9
11544.2	17.5°	11676.3	11713.7	11898.1	12000.3	12022.7	11987.8	11970.4	11935.5	11873.2
10522.4	20°	10609.6	10833.9	11162.9	11479.4	11541.7	11531.8	11469.4	11454.5	11419.6
9510.5	22.5°	9672.5	9839.5	10220.8	10714.3	10968.5	10993.4	10918.7	10896.2	10858.8
8605.8	25°	8703.0	8882.5	9226.4	9762.2	10288.1	10395.3	10382.8	10315.5	10275.6
7803.3	27.5°	7885.6	8065.0	8376.5	8860.0	9423.3	9767.2	9799.6	9692.5	9690.0
7088.0	30°	7147.8	7394.6	7631.3	8025.1	8570.9	9086.8	9141.7	9066.9	9074.4
6432.6	32.5°	6569.6	6774.0	6975.9	7240.1	7693.7	8294.3	8508.6	8438.8	8411.4
5886.8	35°	5979.0	6118.5	6325.4	6567.1	6876.2	7471.8	7843.2	7790.9	7763.4
5149.0	37.5°	5306.1	5545.3	5694.8	5966.5	6208.3	6681.8	7205.2	7197.7	7140.4
4521.0	40°	4615.7	4867.4	5094.2	5368.4	5555.3	5931.6	6512.3	6509.8	6517.3
3870.5	42.5°	3990.1	4221.9	4496.1	4795.1	4974.6	5248.7	5871.8	5906.7	5949.1
3334.7	45°	3424.4	3633.7	3887.9	4251.8	4468.6	4625.7	5178.9	5338.5	5336.0
2856.1	47.5°	2916.0	3112.9	3327.2	3681.1	3957.7	4099.8	4558.4	4785.2	4770.2
2342.7	50°	2447.4	2621.9	2846.2	3102.9	3474.2	3598.8	3940.3	4239.4	4216.9
1866.7	52.5°	1968.9	2210.6	2400.1	2634.3	3025.6	3147.7	3411.9	3703.5	3686.1
1400.7	55°	1535.2	1769.5	1998.8	2200.7	2529.7	2711.6	2901.0	3200.1	3195.1
1096.6	57.5°	1161.4	1418.1	1634.9	1826.8	2088.5	2312.8	2464.9	2736.5	2771.4
750.2	60°	859.8	1056.7	1291.0	1505.3	1712.2	1944.0	2046.2	2312.8	2327.8
513.4	62.5°	585.7	802.5	1031.8	1226.2	1380.7	1620.0	1712.2	1931.5	1958.9
329.0	65°	406.2	545.8	807.5	947.1	1136.5	1340.8	1433.1	1607.5	1662.3
189.4	67.5°	269.2	388.8	630.5	757.7	944.6	1084.1	1201.3	1343.3	1403.2
119.6	70°	147.0	286.6	451.1	598.1	760.1	894.7	1009.4	1124.0	1176.4
54.8	72.5°	99.7	191.9	314.0	473.5	613.1	745.2	847.4	932.1	934.6
32.4	75°	49.8	129.6	239.3	366.4	478.5	608.1	700.3	750.2	690.4
19.9	77.5°	29.9	94.7	194.4	294.1	388.8	491.0	543.3	570.7	473.5
15.0	80°	17.4	67.3	152.0	234.3	269.2	361.4	411.2	418.7	316.5
10.0	82.5°	12.5	49.8	119.6	172.0	164.5	254.2	309.0	299.1	201.9
7.5	85°	7.5	34.9	74.8	107.2	99.7	167.0	179.4	184.4	117.1
5.0	87.5°	5.0	19.9	39.9	57.3	47.4	72.3	72.3	87.2	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13468.3
13134.3
13189.1
13029.6
12810.3
12541.1
12224.6
11845.8
11339.9
10848.9
10233.3
9685.0
9037.0
8413.9
7726.1
7187.7
6517.3
5926.6
5340.9
4775.2
4236.9
3723.5
3207.6
2756.5
2350.2
1963.9
1649.9
1395.7
1156.4
912.2
645.5
456.1
296.6
186.9
107.2
49.8
0.0

(END OF REPORT)