

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: P638063

Luminaire Tested: **IFLD-L-SA7B-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638063
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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: 20177.1 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

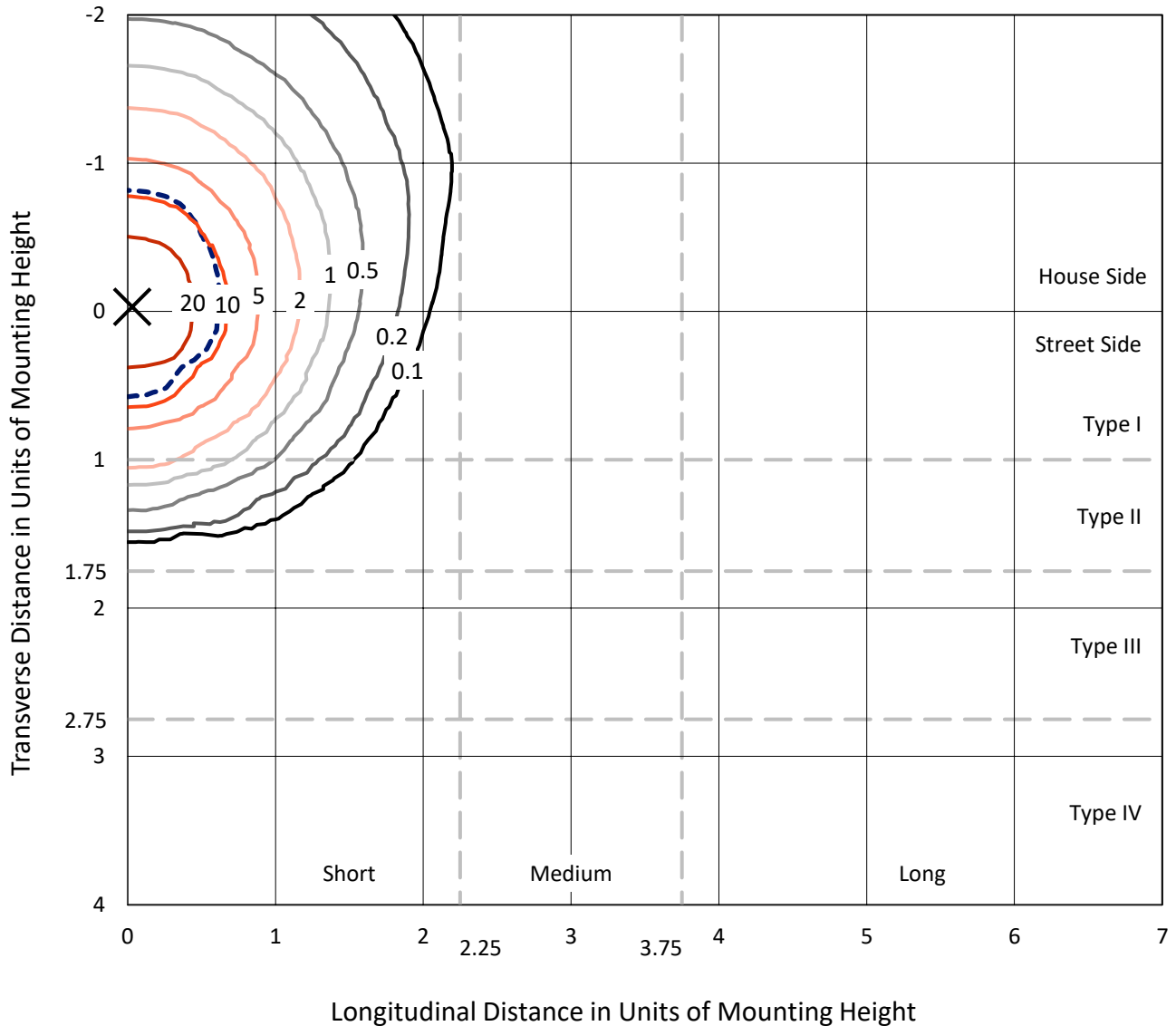
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

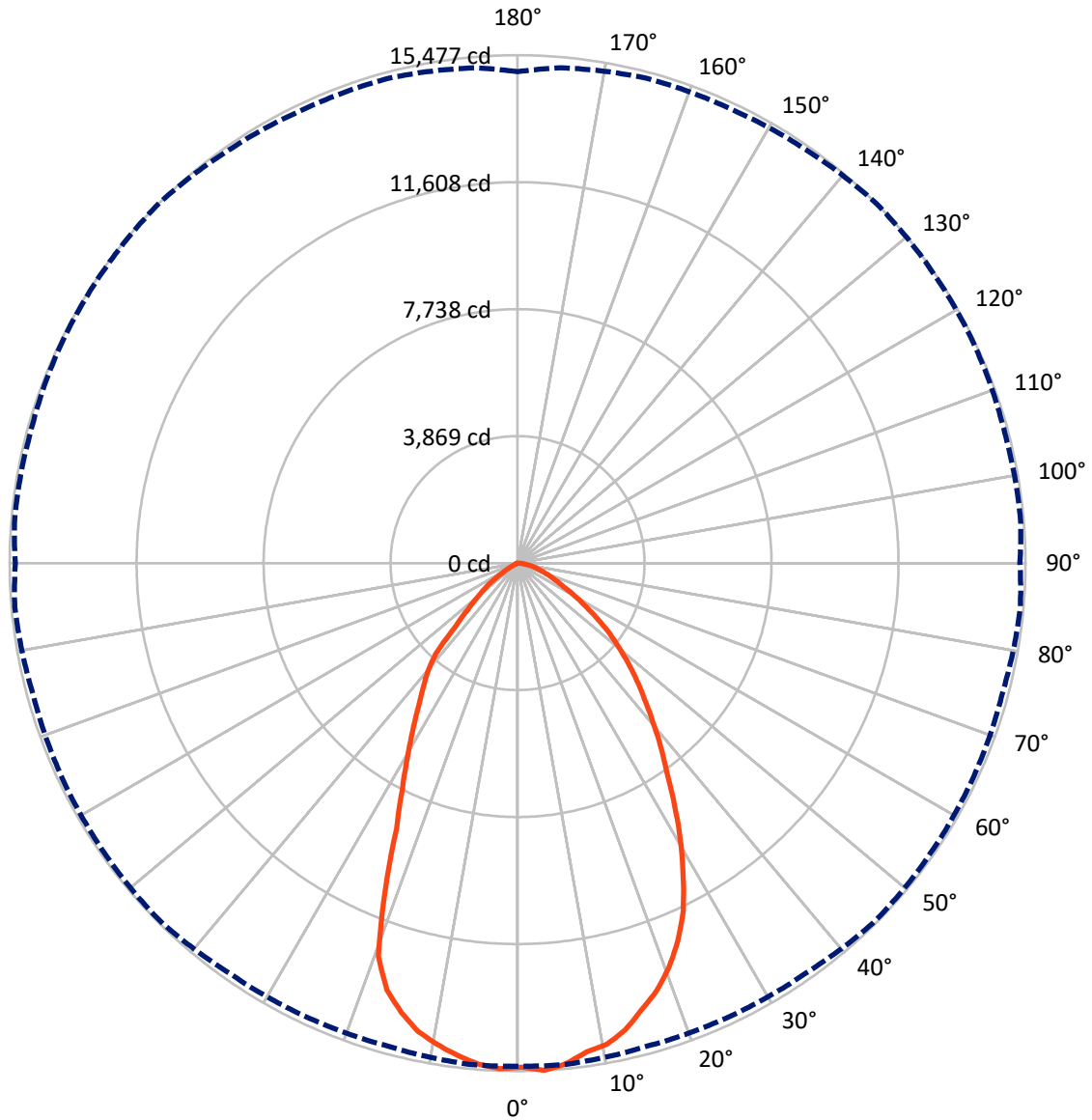
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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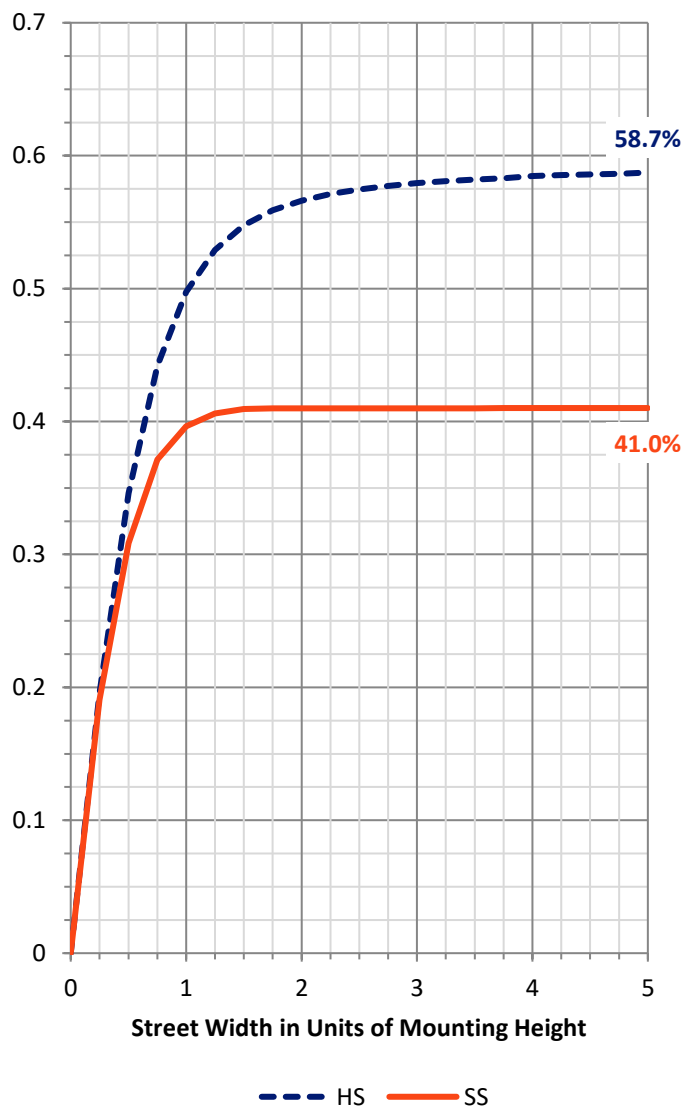
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11949.9	0.0	11949.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8227.2	0.0	8227.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	20177.1	0.0	20177.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1440.0	7.1
10°-20°	3861.5	19.1
20°-30°	4709.3	23.3
30°-40°	4299.6	21.3
40°-50°	3107.2	15.4
50°-60°	1696.6	8.4
60°-70°	701.5	3.5
70°-80°	284.1	1.4
80°-90°	77.3	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°	20177.1	100.0
0°-180°	20177.1	100.0



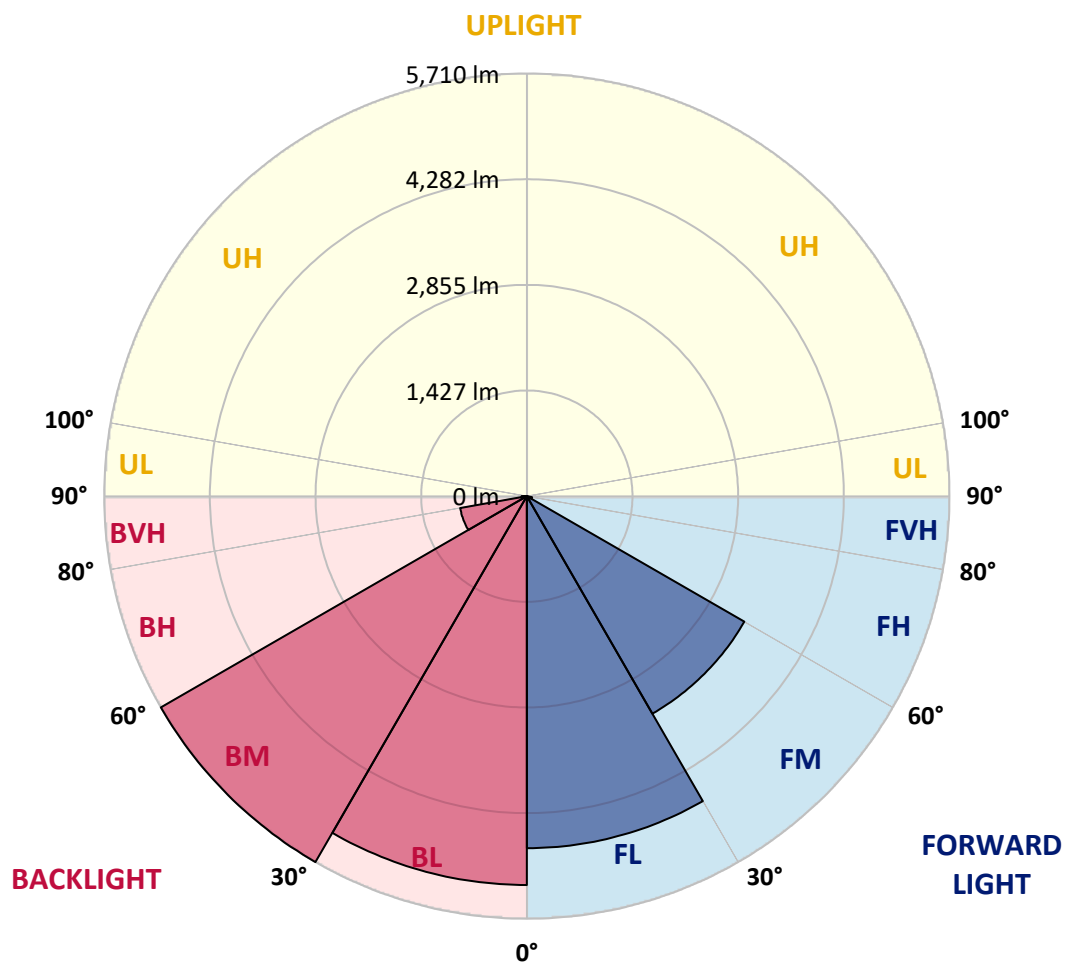
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4756.5	23.6			
FM (30°-60°)	3393.4	16.8			
FH (60°-80°)	71.1	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	5254.4	26.0	B5		
BM (30°-60°)	5710.0	28.3	B4/8500		
BH (60°-80°)	914.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	71.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7
2.5°	15326.3	15346.2	15238.2	15249.6	15269.5	15414.4	15377.5	15343.4	15295.1	15377.5
5°	15306.4	15317.8	15204.1	15164.4	15181.4	15312.1	15192.8	15192.8	15181.4	15167.2
7.5°	15153.0	15158.7	15070.6	14999.6	15045.0	15104.7	15016.6	15059.2	14996.7	15045.0
10°	14922.8	14885.9	14780.8	14760.9	14812.0	14868.9	14809.2	14849.0	14792.1	14829.1
12.5°	14584.7	14527.9	14442.7	14417.1	14505.2	14581.9	14533.6	14510.9	14437.0	14527.9
15°	13280.5	13237.9	13431.1	13769.3	14073.3	14138.6	14087.5	14110.2	13956.8	13982.4
17.5°	10930.7	10851.2	11058.6	11859.9	13002.1	13604.5	13559.0	13411.2	13183.9	13235.1
20°	9933.4	9910.7	9887.9	10078.3	10876.7	12703.7	12766.3	12391.2	12067.3	11996.2
22.5°	9370.8	9362.3	9339.6	9382.2	9592.4	10765.9	11482.0	11135.3	10919.4	10899.5
25°	8856.5	8842.3	8774.1	8828.1	8828.1	8896.3	9814.1	10024.3	9834.0	9811.2
27.5°	8333.7	8308.2	8296.8	8322.4	8191.7	7731.4	7964.3	8990.1	8890.6	8896.3
30°	7768.3	7759.8	7728.5	7782.5	7379.0	6807.9	6660.2	8052.4	8072.3	8066.6
32.5°	6927.2	6964.2	7106.3	7165.9	6501.0	6029.4	5782.2	6967.0	7373.3	7364.8
35°	5032.1	5032.1	5495.2	6356.1	5696.9	5341.8	5208.2	5907.2	6682.9	6711.3
37.5°	4137.0	4151.2	4242.2	4634.3	4915.6	4790.5	4750.8	4972.4	5796.4	5841.8
40°	3722.2	3722.2	3722.2	3560.2	3551.7	4316.0	4293.3	4222.3	5006.5	5105.9
42.5°	3344.3	3352.8	3358.5	2949.3	2722.0	3730.7	3679.6	3571.6	4299.0	4415.5
45°	2955.0	2969.2	2986.3	2466.3	2366.9	2685.1	3114.1	2994.8	3600.0	3750.6
47.5°	1804.3	1827.0	2213.4	2091.2	2102.6	2071.4	2540.2	2520.3	2952.2	3165.3
50°	1218.9	1227.5	1264.4	1326.9	1804.3	1628.1	1798.6	2085.6	2241.8	2565.8
52.5°	1022.9	1037.1	946.2	860.9	1184.8	1272.9	1255.9	1548.5	1611.1	2011.7
55°	718.9	764.3	721.7	713.2	673.4	988.8	951.9	1190.5	1230.3	1528.7
57.5°	73.9	85.2	147.8	531.3	440.4	559.7	679.1	872.3	912.1	1128.0
60°	5.7	5.7	14.2	73.9	321.1	335.3	468.8	537.0	613.7	787.1
62.5°	0.0	2.8	5.7	11.4	51.1	179.0	235.8	281.3	369.4	508.6
65°	0.0	0.0	2.8	8.5	11.4	68.2	90.9	147.8	201.7	315.4
67.5°	0.0	0.0	2.8	5.7	8.5	17.0	31.3	54.0	108.0	179.0
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.1	48.3	96.6
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	17.0	22.7	34.1	48.3
75°	0.0	0.0	2.8	2.8	8.5	17.0	14.2	17.0	22.7	31.3
77.5°	0.0	0.0	2.8	5.7	8.5	17.0	14.2	17.0	17.0	19.9
80°	0.0	0.0	2.8	5.7	11.4	19.9	17.0	17.0	14.2	14.2
82.5°	0.0	0.0	2.8	8.5	11.4	25.6	25.6	22.7	11.4	8.5
85°	0.0	0.0	5.7	11.4	17.0	28.4	28.4	22.7	8.5	5.7
87.5°	0.0	0.0	5.7	8.5	14.2	19.9	28.4	22.7	8.5	2.8
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°
15354.7	0°	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7	15354.7
15306.4	2.5°	15383.1	15366.1	15422.9	15445.7	15476.9	15357.6	15283.7	15286.5	15150.2
15133.1	5°	15224.0	15226.9	15300.7	15295.1	15326.3	15261.0	15232.6	15184.3	15064.9
14914.3	7.5°	15022.3	14996.7	15067.8	15121.7	15042.2	15087.6	15022.3	15045.0	14974.0
14721.1	10°	14866.0	14806.4	14871.7	14908.6	14911.5	14866.0	14803.5	14743.8	14718.3
14419.9	12.5°	14519.4	14442.7	14553.5	14604.6	14596.1	14508.0	14437.0	14451.2	14368.8
13891.4	15°	14042.0	14044.9	14124.4	14172.7	14127.3	14107.4	14113.1	14079.0	14007.9
13161.2	17.5°	13311.8	13354.4	13564.7	13681.2	13706.7	13667.0	13647.1	13607.3	13536.3
11996.2	20°	12095.7	12351.4	12726.5	13087.3	13158.4	13147.0	13076.0	13058.9	13019.1
10842.6	22.5°	11027.3	11217.7	11652.4	12215.0	12504.8	12533.3	12448.0	12422.4	12379.8
9811.2	25°	9922.0	10126.6	10518.7	11129.6	11729.2	11851.3	11837.1	11760.4	11714.9
8896.3	27.5°	8990.1	9194.7	9549.8	10101.1	10743.2	11135.3	11172.2	11050.1	11047.2
8080.8	30°	8149.0	8430.3	8700.3	9149.2	9771.5	10359.6	10422.1	10336.9	10345.4
7333.6	32.5°	7489.8	7722.8	7953.0	8254.2	8771.3	9456.1	9700.4	9620.9	9589.6
6711.3	35°	6816.4	6975.6	7211.4	7487.0	7839.3	8518.4	8941.8	8882.1	8850.9
5870.3	37.5°	6049.3	6322.0	6492.5	6802.2	7077.8	7617.7	8214.4	8205.9	8140.5
5154.2	40°	5262.2	5549.2	5807.7	6120.3	6333.4	6762.4	7424.5	7421.6	7430.2
4412.6	42.5°	4549.0	4813.3	5125.8	5466.8	5671.4	5983.9	6694.3	6734.0	6782.3
3801.7	45°	3904.0	4142.7	4432.5	4847.4	5094.6	5273.6	5904.4	6086.2	6083.4
3256.2	47.5°	3324.4	3548.9	3793.2	4196.7	4512.1	4674.0	5196.9	5455.4	5438.4
2670.9	50°	2790.2	2989.1	3244.8	3537.5	3960.9	4102.9	4492.2	4833.2	4807.6
2128.2	52.5°	2244.7	2520.3	2736.2	3003.3	3449.4	3588.6	3889.8	4222.3	4202.4
1596.8	55°	1750.3	2017.4	2278.8	2508.9	2884.0	3091.4	3307.3	3648.3	3642.6
1250.2	57.5°	1324.1	1616.7	1863.9	2082.7	2381.1	2636.8	2810.1	3119.8	3159.6
855.3	60°	980.3	1204.7	1471.8	1716.2	1952.0	2216.3	2332.8	2636.8	2653.8
585.3	62.5°	667.7	914.9	1176.3	1398.0	1574.1	1846.9	1952.0	2202.1	2233.3
375.1	65°	463.1	622.3	920.6	1079.7	1295.7	1528.7	1633.8	1832.7	1895.2
215.9	67.5°	306.9	443.3	718.9	863.8	1076.9	1236.0	1369.5	1531.5	1599.7
136.4	70°	167.6	326.8	514.3	681.9	866.6	1020.0	1150.8	1281.5	1341.1
62.5	72.5°	113.7	218.8	358.0	539.9	699.0	849.6	966.1	1062.7	1065.5
36.9	75°	56.8	147.8	272.8	417.7	545.5	693.3	798.4	855.3	787.1
22.7	77.5°	34.1	108.0	221.6	335.3	443.3	559.7	619.4	650.7	539.9
17.0	80°	19.9	76.7	173.3	267.1	306.9	412.0	468.8	477.3	360.9
11.4	82.5°	14.2	56.8	136.4	196.1	187.5	289.8	352.3	341.0	230.2
8.5	85°	8.5	39.8	85.2	122.2	113.7	190.4	204.6	210.3	133.5
5.7	87.5°	5.7	22.7	45.5	65.4	54.0	82.4	82.4	99.4	65.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15354.7
14974.0
15036.5
14854.7
14604.6
14297.7
13936.9
13505.0
12928.2
12368.5
11666.6
11041.5
10302.8
9592.4
8808.2
8194.5
7430.2
6756.8
6089.0
5444.1
4830.3
4245.0
3656.8
3142.5
2679.4
2239.0
1881.0
1591.2
1318.4
1039.9
735.9
520.0
338.1
213.1
122.2
56.8
0.0

(END OF REPORT)