

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: P637912

Luminaire Tested: **IFLD-M-SA4A-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637912
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15571.9 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

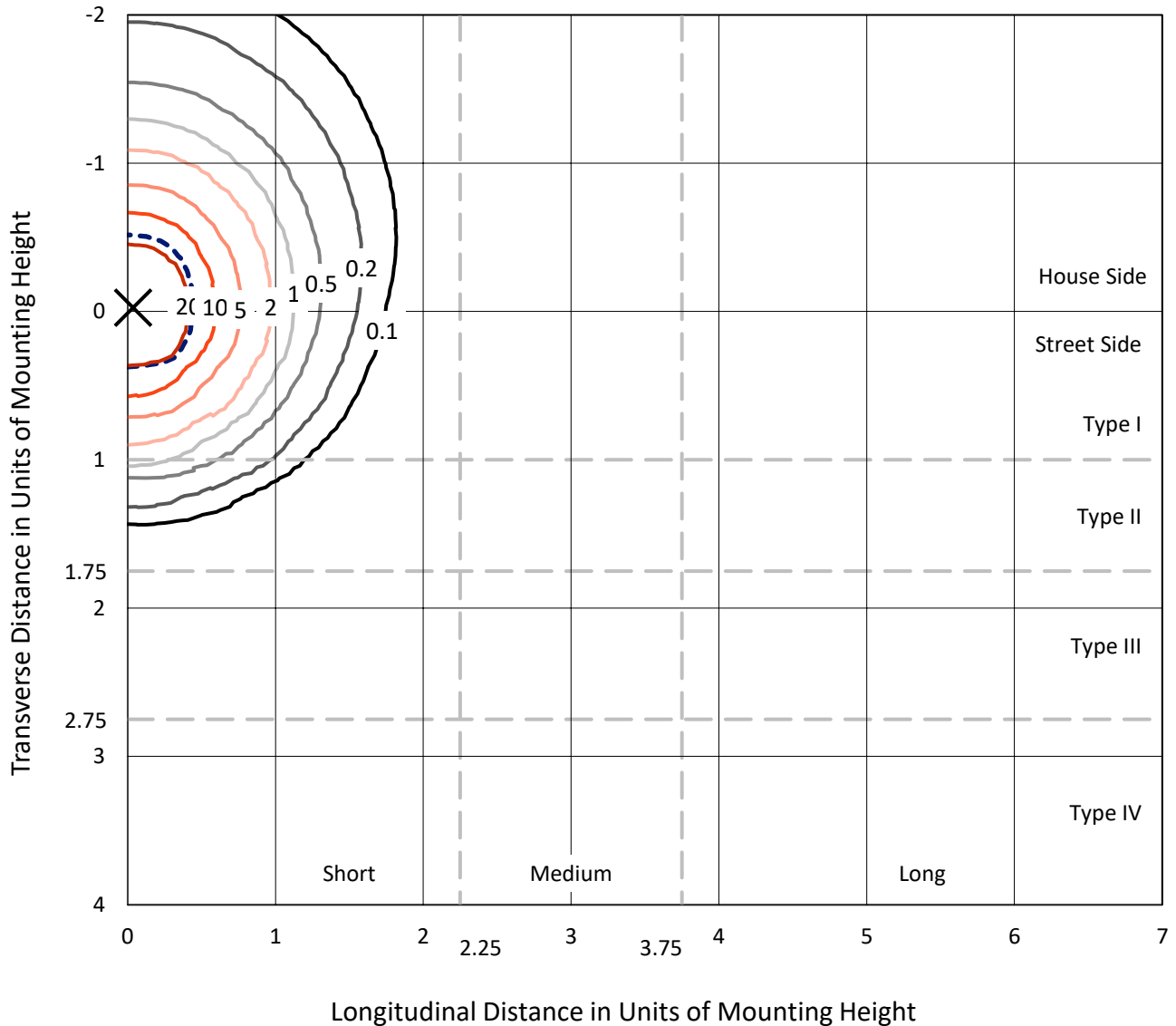
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

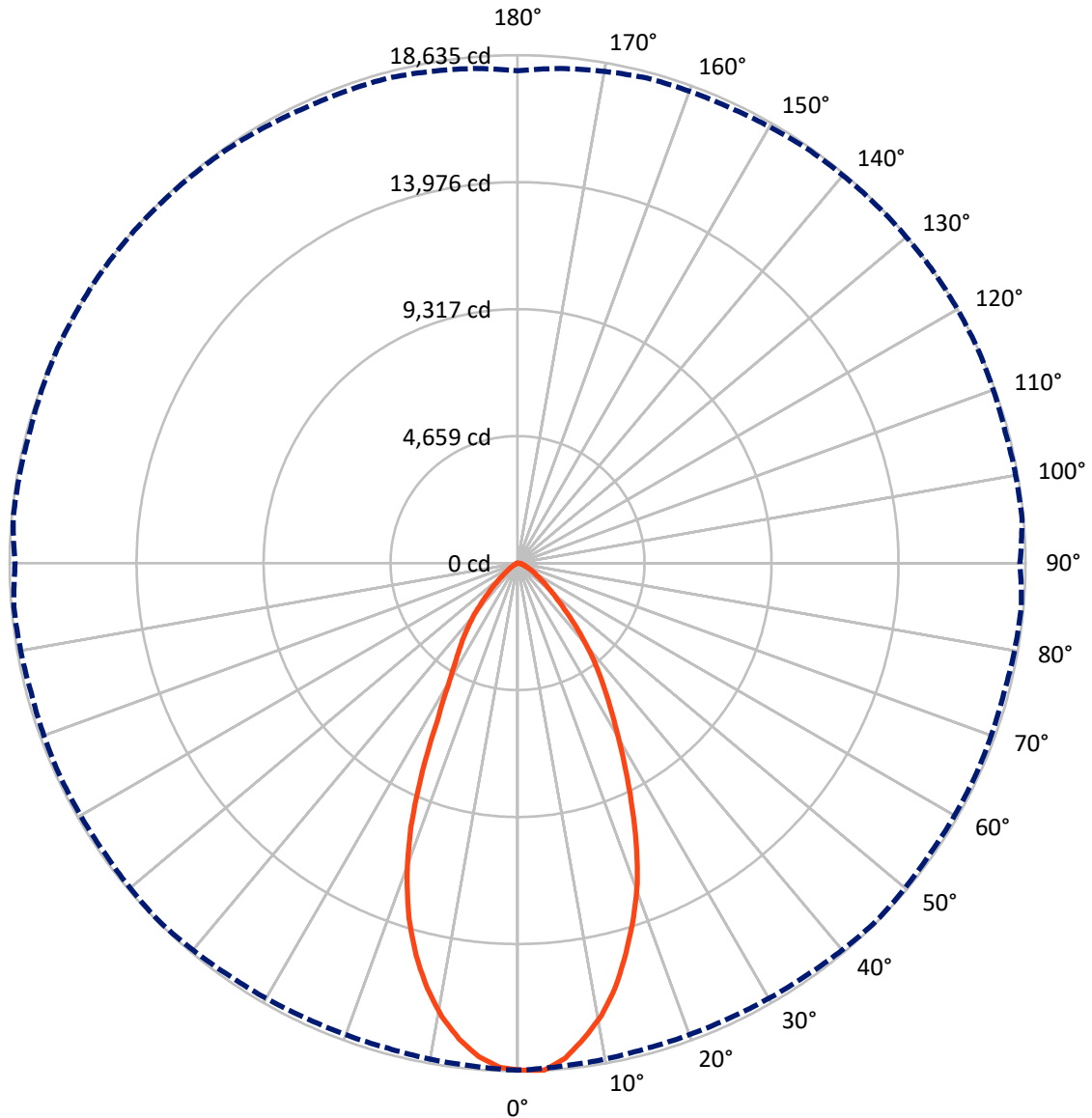
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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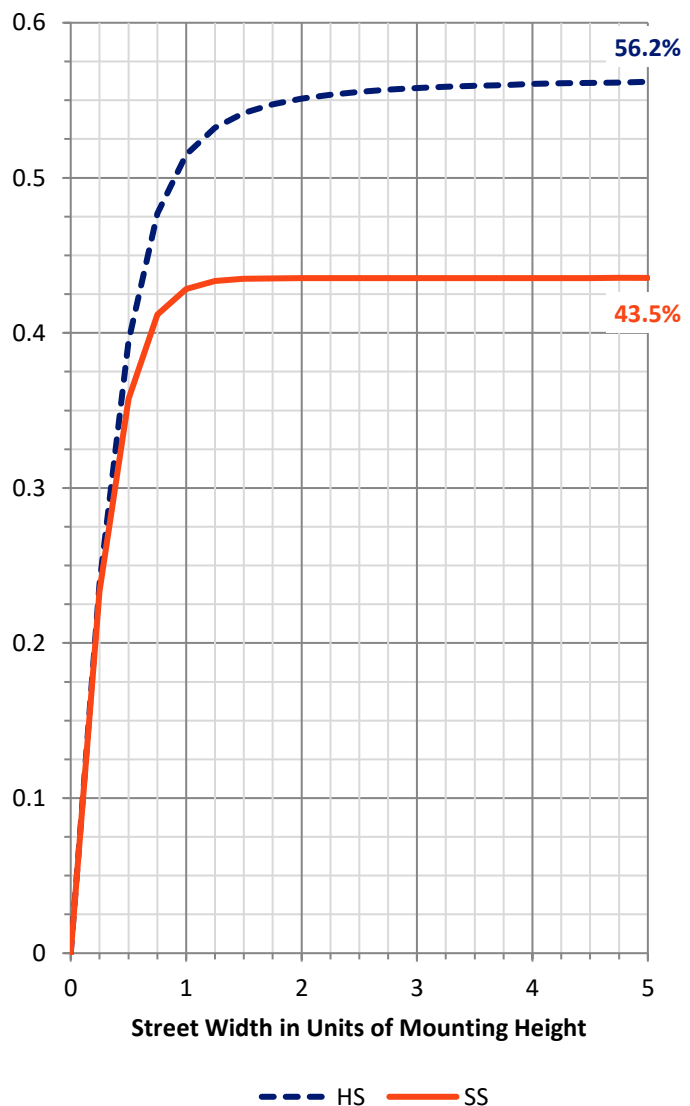
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8836.1	0.0	8836.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6735.8	0.0	6735.8
	% Fixture	43.3	0.0	43.3
Total	Lumens	15571.9	0.0	15571.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1689.4	10.8
10°-20°	4027.1	25.9
20°-30°	4101.5	26.3
30°-40°	3058.5	19.6
40°-50°	1597.8	10.3
50°-60°	672.1	4.3
60°-70°	274.5	1.8
70°-80°	115.5	0.7
80°-90°	35.6	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°	15571.9	100.0
0°-180°	15571.9	100.0



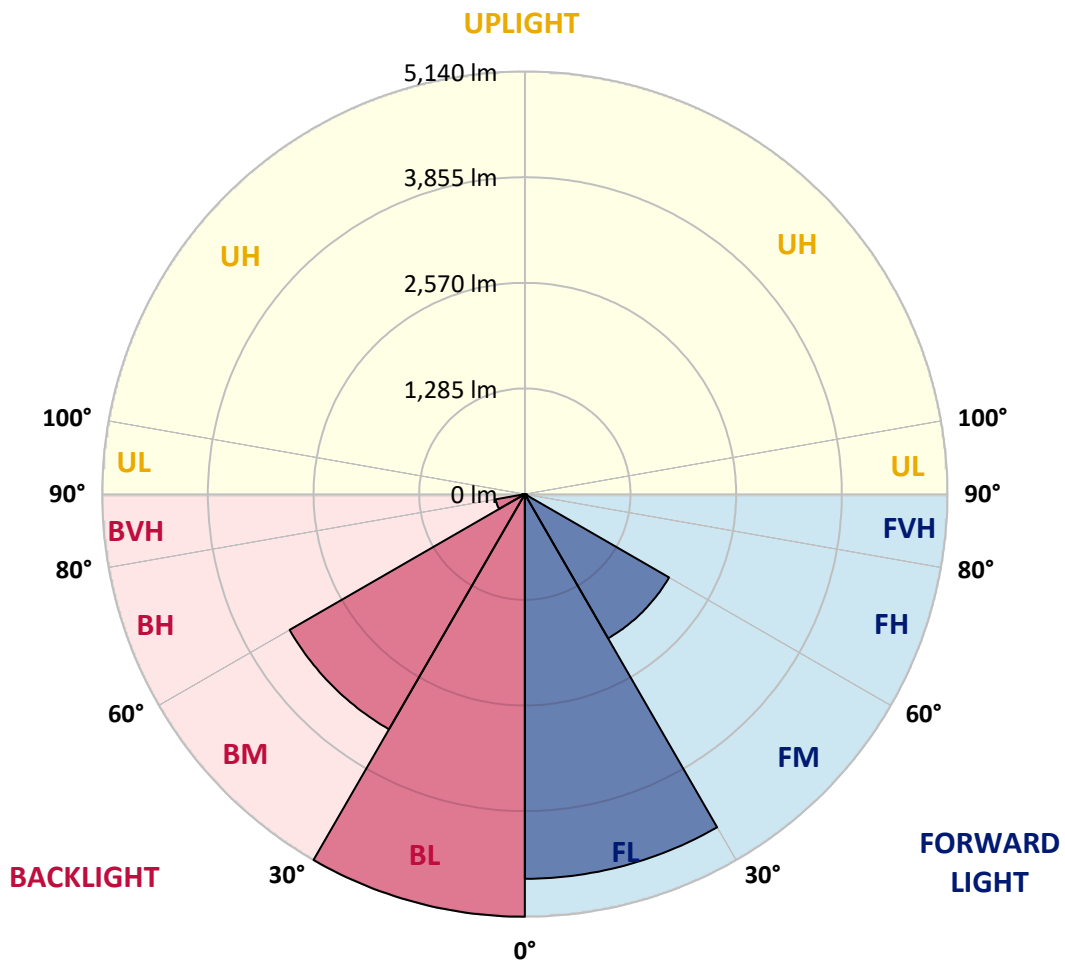
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4678.0	30.0			
FM	(30°-60°)	2025.2	13.0			
FH	(60°-80°)	29.3	0.2			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	5140.0	33.0	B5		
BM	(30°-60°)	3303.2	21.2	B3/5000		
BH	(60°-80°)	360.7	2.3	B1/500		G1/500
BVH	(80°-90°)	32.3	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7
2.5°	18606.7	18530.7	18422.6	18412.6	18468.6	18590.7	18512.6	18516.7	18468.6	18550.7
5°	18314.6	18242.6	18168.6	18070.6	18152.6	18204.6	18164.6	18120.6	18058.6	18138.6
7.5°	17762.5	17722.5	17612.5	17568.5	17618.5	17676.5	17590.5	17578.5	17492.5	17596.5
10°	16918.4	16902.4	16794.4	16768.4	16812.4	16900.4	16862.4	16854.4	16800.4	16790.4
12.5°	16042.3	15980.3	15846.3	15838.3	15904.3	16036.3	15934.3	15836.3	15866.3	15892.3
15°	13786.0	13720.0	14052.0	14574.1	14848.1	14838.1	14868.1	14750.1	14714.1	14726.1
17.5°	10959.6	10847.6	10967.6	11775.7	13077.9	13834.0	13626.0	13371.9	13235.9	13145.9
20°	9459.4	9465.4	9443.4	9651.4	10463.5	12187.7	12137.7	11647.7	11469.6	11395.6
22.5°	8547.2	8513.2	8465.2	8531.2	8749.3	9761.4	10439.5	9989.4	9927.4	9845.4
25°	7653.1	7653.1	7595.1	7661.1	7723.1	7737.1	8417.2	8601.2	8481.2	8481.2
27.5°	6879.0	6839.0	6813.0	6843.0	6761.0	6366.9	6452.9	7395.1	7313.0	7263.0
30°	6110.9	6098.9	6054.9	6094.9	5790.8	5346.8	5166.7	6240.9	6326.9	6308.9
32.5°	5044.7	5092.7	5288.8	5350.8	4830.7	4472.6	4300.6	5180.7	5524.8	5510.8
35°	3428.5	3468.5	3692.5	4432.6	4004.6	3748.5	3698.5	4120.6	4686.7	4740.7
37.5°	2730.4	2724.4	2788.4	2920.4	3218.5	3156.5	3142.4	3252.5	3822.5	3846.6
40°	2250.3	2242.3	2240.3	2132.3	2058.3	2624.4	2586.4	2520.4	3014.4	3062.4
42.5°	1814.3	1822.3	1828.3	1592.2	1484.2	2024.3	2002.3	1934.3	2364.3	2420.3
45°	1424.2	1422.2	1434.2	1186.2	1156.2	1294.2	1496.2	1442.2	1784.3	1844.3
47.5°	738.1	764.1	926.1	918.1	932.1	918.1	1132.2	1118.2	1342.2	1438.2
50°	496.1	504.1	518.1	520.1	734.1	676.1	768.1	870.1	940.1	1088.2
52.5°	384.1	390.1	354.1	332.0	450.1	500.1	504.1	602.1	656.1	806.1
55°	214.0	240.0	258.0	260.0	248.0	370.1	368.1	446.1	488.1	588.1
57.5°	28.0	34.0	52.0	168.0	166.0	206.0	258.0	324.0	348.0	430.1
60°	2.0	4.0	6.0	26.0	110.0	120.0	176.0	202.0	242.0	302.0
62.5°	0.0	0.0	2.0	6.0	22.0	70.0	92.0	106.0	142.0	198.0
65°	0.0	0.0	2.0	4.0	8.0	26.0	36.0	58.0	84.0	122.0
67.5°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	26.0	44.0	74.0
70°	0.0	0.0	2.0	4.0	6.0	8.0	12.0	16.0	24.0	40.0
72.5°	0.0	0.0	2.0	2.0	4.0	10.0	10.0	12.0	16.0	22.0
75°	0.0	0.0	2.0	4.0	6.0	10.0	10.0	10.0	12.0	14.0
77.5°	0.0	0.0	2.0	4.0	6.0	10.0	8.0	10.0	10.0	10.0
80°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	10.0	8.0	8.0
82.5°	0.0	0.0	2.0	6.0	6.0	14.0	14.0	14.0	6.0	6.0
85°	0.0	0.0	4.0	6.0	10.0	16.0	16.0	12.0	6.0	4.0
87.5°	0.0	0.0	2.0	4.0	4.0	8.0	12.0	10.0	4.0	2.0
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°
18604.7	0°	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7	18604.7
18430.6	2.5°	18578.7	18528.7	18622.7	18634.7	18594.7	18544.7	18428.6	18418.6	18216.6
18022.6	5°	18226.6	18144.6	18204.6	18244.6	18230.6	18176.6	18128.6	18084.6	17902.6
17360.5	7.5°	17570.5	17540.5	17568.5	17598.5	17656.5	17598.5	17578.5	17532.5	17352.5
16708.4	10°	16842.4	16786.4	16892.4	16878.4	16862.4	16846.4	16762.4	16770.4	16558.4
15820.3	12.5°	15948.3	15854.3	15956.3	15968.3	15956.3	15900.3	15806.3	15846.3	15652.2
14620.1	15°	14746.1	14736.1	14810.1	14858.1	14892.1	14832.1	14800.1	14820.1	14704.1
13075.9	17.5°	13269.9	13399.9	13642.0	13724.0	13726.0	13788.0	13770.0	13746.0	13660.0
11365.6	20°	11533.7	11783.7	12155.7	12537.8	12647.8	12595.8	12571.8	12615.8	12487.8
9759.4	22.5°	9931.4	10145.5	10577.5	11135.6	11457.6	11489.6	11483.6	11445.6	11395.6
8473.2	25°	8571.2	8761.3	9175.3	9685.4	10303.5	10395.5	10399.5	10387.5	10343.5
7307.0	27.5°	7423.1	7653.1	7881.1	8337.2	8995.3	9375.3	9327.3	9313.3	9297.3
6322.9	30°	6382.9	6673.0	6887.0	7171.0	7761.1	8275.2	8325.2	8301.2	8263.2
5508.8	32.5°	5558.8	5730.8	6002.9	6194.9	6618.9	7201.0	7393.1	7375.1	7341.1
4774.7	35°	4842.7	4910.7	5124.7	5338.8	5620.8	6184.9	6468.9	6428.9	6422.9
3890.6	37.5°	3988.6	4216.6	4334.6	4550.7	4748.7	5186.7	5578.8	5560.8	5562.8
3128.4	40°	3220.5	3352.5	3586.5	3768.5	3950.6	4270.6	4706.7	4718.7	4714.7
2422.3	42.5°	2472.4	2600.4	2846.4	3044.4	3206.5	3404.5	3820.5	3834.5	3852.6
1886.3	45°	1930.3	2012.3	2192.3	2398.3	2570.4	2690.4	3006.4	3096.4	3098.4
1462.2	47.5°	1498.2	1592.2	1720.2	1918.3	2086.3	2172.3	2402.3	2524.4	2518.4
1122.2	50°	1176.2	1262.2	1366.2	1522.2	1704.2	1772.3	1942.3	2062.3	2056.3
846.1	52.5°	900.1	1010.1	1102.2	1222.2	1400.2	1458.2	1580.2	1718.2	1698.2
620.1	55°	682.1	794.1	880.1	980.1	1142.2	1216.2	1300.2	1410.2	1414.2
480.1	57.5°	514.1	630.1	708.1	810.1	932.1	1014.1	1078.2	1196.2	1194.2
328.0	60°	368.1	468.1	562.1	668.1	762.1	856.1	900.1	1012.1	1016.1
232.0	62.5°	266.0	360.1	450.1	542.1	626.1	718.1	758.1	846.1	858.1
152.0	65°	186.0	252.0	356.1	426.1	520.1	588.1	640.1	716.1	730.1
90.0	67.5°	120.0	182.0	282.0	344.0	430.1	488.1	542.1	602.1	620.1
58.0	70°	72.0	138.0	210.0	276.0	354.1	406.1	458.1	510.1	520.1
28.0	72.5°	46.0	96.0	152.0	224.0	284.0	340.0	386.1	424.1	394.1
18.0	75°	26.0	66.0	120.0	176.0	230.0	284.0	322.0	342.0	274.0
12.0	77.5°	16.0	48.0	98.0	142.0	178.0	228.0	252.0	264.0	196.0
8.0	80°	10.0	36.0	82.0	116.0	116.0	168.0	196.0	206.0	142.0
6.0	82.5°	8.0	26.0	64.0	88.0	78.0	126.0	154.0	156.0	100.0
4.0	85°	6.0	20.0	40.0	58.0	54.0	88.0	90.0	100.0	66.0
4.0	87.5°	4.0	12.0	24.0	34.0	30.0	42.0	48.0	54.0	36.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

18604.7
18058.6
17756.5
17314.5
16486.4
15596.2
14564.1
13531.9
12395.8
11299.6
10195.5
9203.3
8215.2
7251.0
6356.9
5498.8
4644.7
3792.5
3046.4
2496.4
2056.3
1700.2
1414.2
1190.2
1006.1
854.1
726.1
618.1
512.1
366.1
260.0
184.0
132.0
92.0
60.0
32.0
0.0

(END OF REPORT)