

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: P637902

Luminaire Tested: **IFLD-S-SA3A-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11601.4 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

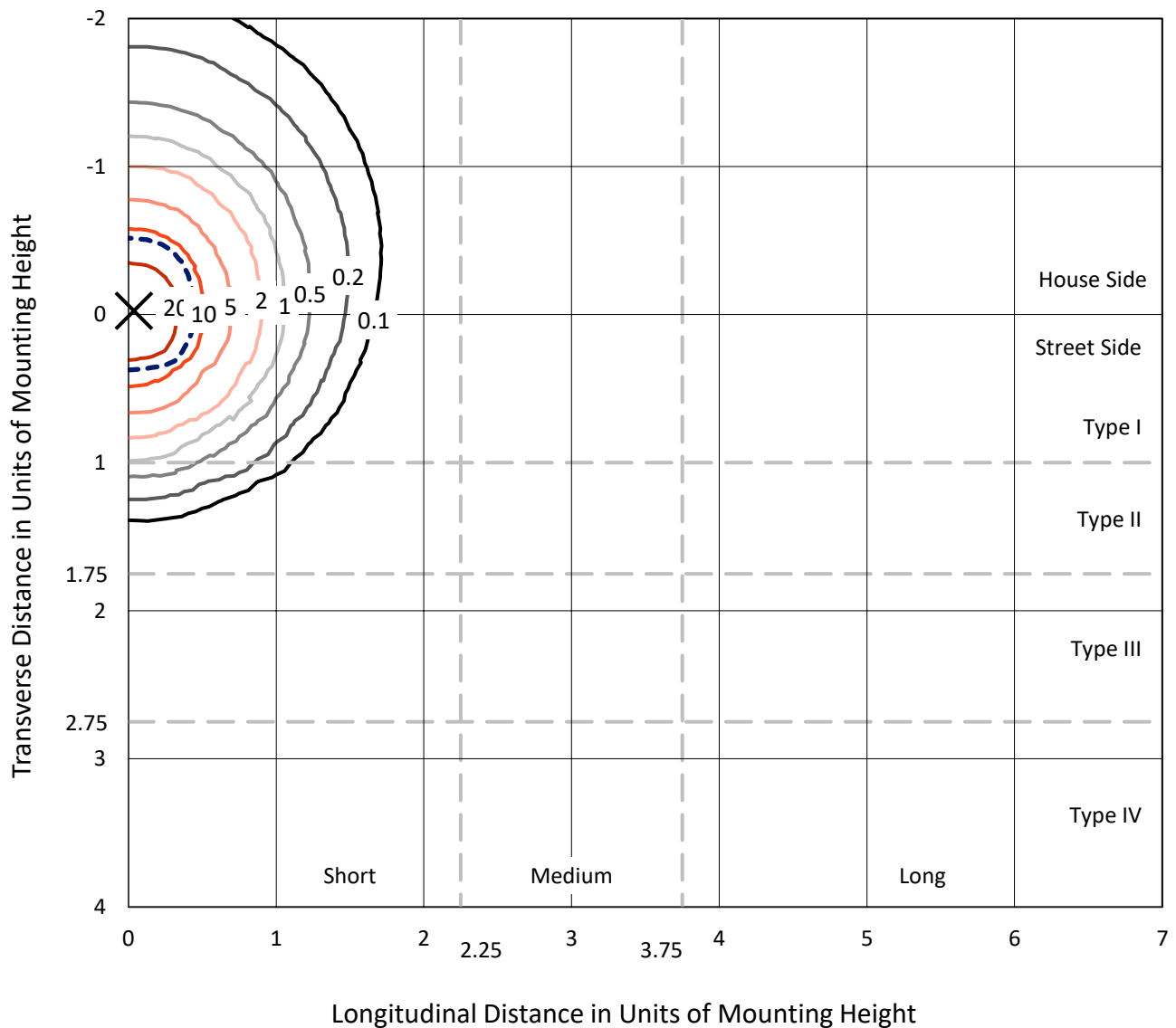
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

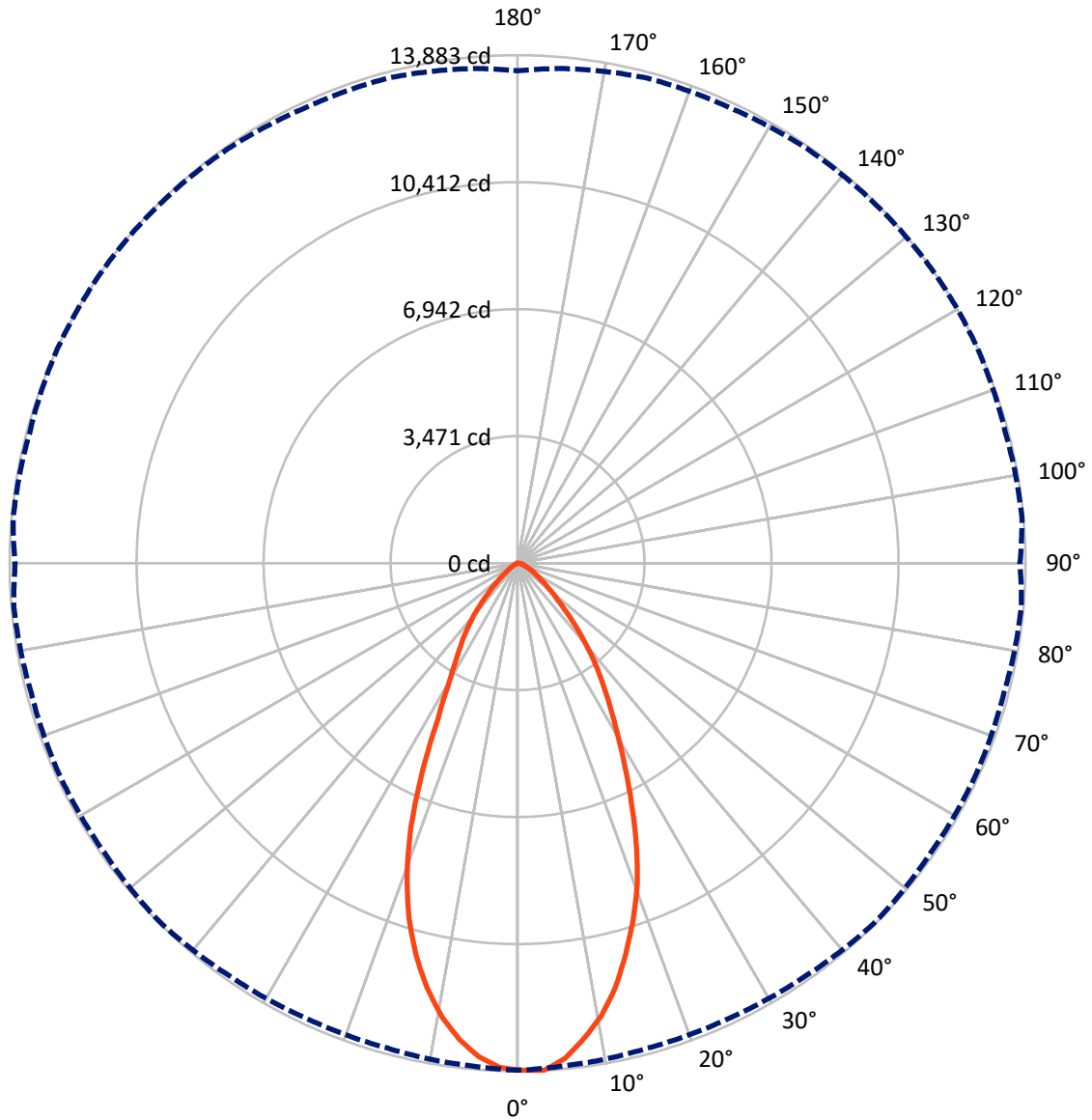
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.7 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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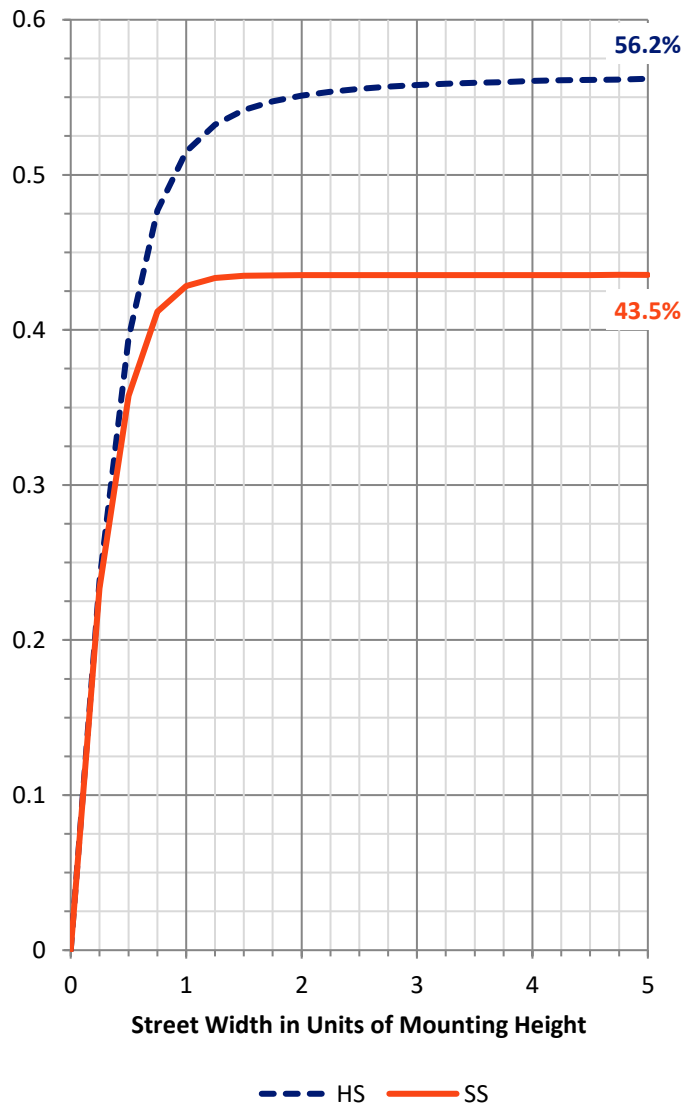
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6583.1	0.0	6583.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5018.3	0.0	5018.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	11601.4	0.0	11601.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1258.6	10.8
10°-20°	3000.3	25.9
20°-30°	3055.7	26.3
30°-40°	2278.6	19.6
40°-50°	1190.4	10.3
50°-60°	500.7	4.3
60°-70°	204.5	1.8
70°-80°	86.1	0.7
80°-90°	26.5	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°	11601.4	100.0
0°-180°	11601.4	100.0



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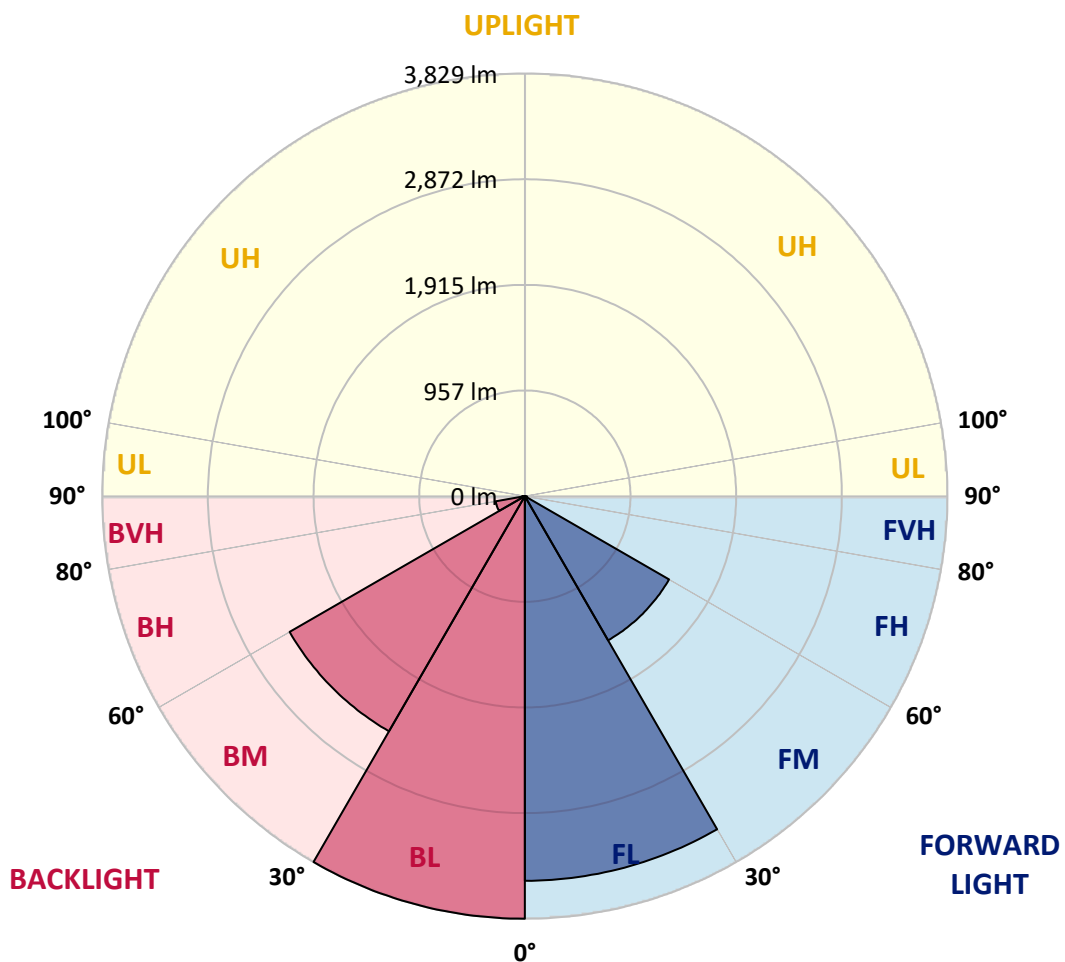
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3485.2	30.0			
FM (30°-60°)	1508.8	13.0			
FH (60°-80°)	21.8	0.2			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	3829.4	33.0	B4/5000		
BM (30°-60°)	2460.9	21.2	B2/2500		
BH (60°-80°)	268.7	2.3	B1/500		G1/500
BVH (80°-90°)	24.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8
2.5°	13862.3	13805.7	13725.2	13717.7	13759.5	13850.4	13792.3	13795.2	13759.5	13820.6
5°	13644.7	13591.1	13535.9	13462.9	13524.0	13562.8	13533.0	13500.2	13454.0	13513.6
7.5°	13233.4	13203.6	13121.6	13088.9	13126.1	13169.3	13105.3	13096.3	13032.2	13109.7
10°	12604.5	12592.6	12512.1	12492.8	12525.5	12591.1	12562.8	12556.8	12516.6	12509.2
12.5°	11951.8	11905.6	11805.8	11799.8	11849.0	11947.3	11871.3	11798.3	11820.7	11840.0
15°	10270.8	10221.6	10469.0	10858.0	11062.1	11054.7	11077.0	10989.1	10962.3	10971.2
17.5°	8165.1	8081.6	8171.0	8773.1	9743.3	10306.6	10151.6	9962.3	9861.0	9793.9
20°	7047.4	7051.9	7035.5	7190.5	7795.5	9080.1	9042.8	8677.7	8545.1	8490.0
22.5°	6367.8	6342.5	6306.7	6355.9	6518.4	7272.4	7777.6	7442.3	7396.1	7335.0
25°	5701.7	5701.7	5658.5	5707.7	5753.9	5764.3	6271.0	6408.1	6318.7	6318.7
27.5°	5125.0	5095.2	5075.8	5098.1	5037.0	4743.5	4807.5	5509.5	5448.4	5411.1
30°	4552.7	4543.8	4511.0	4540.8	4314.3	3983.4	3849.3	4649.6	4713.7	4700.2
32.5°	3758.4	3794.2	3940.2	3986.4	3599.0	3332.2	3204.0	3859.7	4116.1	4105.6
35°	2554.3	2584.1	2751.0	3302.4	2983.5	2792.7	2755.5	3069.9	3491.7	3531.9
37.5°	2034.2	2029.7	2077.4	2175.8	2397.8	2351.6	2341.2	2423.1	2847.9	2865.8
40°	1676.5	1670.6	1669.1	1588.6	1533.5	1955.2	1926.9	1877.7	2245.8	2281.6
42.5°	1351.7	1357.6	1362.1	1186.2	1105.8	1508.1	1491.7	1441.1	1761.5	1803.2
45°	1061.1	1059.6	1068.5	883.7	861.4	964.2	1114.7	1074.5	1329.3	1374.0
47.5°	549.9	569.3	690.0	684.0	694.5	684.0	843.5	833.0	1000.0	1071.5
50°	369.6	375.5	386.0	387.5	546.9	503.7	572.3	648.3	700.4	810.7
52.5°	286.1	290.6	263.8	247.4	335.3	372.6	375.5	448.6	488.8	600.6
55°	159.5	178.8	192.2	193.7	184.8	275.7	274.2	332.3	363.6	438.1
57.5°	20.9	25.3	38.7	125.2	123.7	153.5	192.2	241.4	259.3	320.4
60°	1.5	3.0	4.5	19.4	82.0	89.4	131.1	150.5	180.3	225.0
62.5°	0.0	0.0	1.5	4.5	16.4	52.2	68.6	79.0	105.8	147.5
65°	0.0	0.0	1.5	3.0	6.0	19.4	26.8	43.2	62.6	90.9
67.5°	0.0	0.0	1.5	3.0	4.5	7.5	11.9	19.4	32.8	55.1
70°	0.0	0.0	1.5	3.0	4.5	6.0	8.9	11.9	17.9	29.8
72.5°	0.0	0.0	1.5	1.5	3.0	7.5	7.5	8.9	11.9	16.4
75°	0.0	0.0	1.5	3.0	4.5	7.5	7.5	7.5	8.9	10.4
77.5°	0.0	0.0	1.5	3.0	4.5	7.5	6.0	7.5	7.5	7.5
80°	0.0	0.0	1.5	3.0	4.5	7.5	8.9	7.5	6.0	6.0
82.5°	0.0	0.0	1.5	4.5	4.5	10.4	10.4	10.4	4.5	4.5
85°	0.0	0.0	3.0	4.5	7.5	11.9	11.9	8.9	4.5	3.0
87.5°	0.0	0.0	1.5	3.0	3.0	6.0	8.9	7.5	3.0	1.5
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°
13860.8	0°	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8	13860.8
13731.2	2.5°	13841.4	13804.2	13874.2	13883.2	13853.4	13816.1	13729.7	13722.2	13571.7
13427.2	5°	13579.2	13518.1	13562.8	13592.6	13582.1	13541.9	13506.1	13473.3	13337.7
12933.9	7.5°	13090.4	13068.0	13088.9	13111.2	13154.4	13111.2	13096.3	13062.0	12927.9
12448.1	10°	12547.9	12506.2	12585.2	12574.7	12562.8	12550.9	12488.3	12494.3	12336.3
11786.4	12.5°	11881.8	11811.7	11887.7	11896.7	11887.7	11846.0	11776.0	11805.8	11661.2
10892.2	15°	10986.1	10978.7	11033.8	11069.6	11094.9	11050.2	11026.4	11041.3	10954.8
9741.8	17.5°	9886.3	9983.2	10163.5	10224.6	10226.1	10272.3	10258.9	10241.0	10176.9
8467.6	20°	8592.8	8779.1	9056.2	9340.9	9422.8	9384.1	9366.2	9399.0	9303.6
7270.9	22.5°	7399.1	7558.5	7880.4	8296.2	8536.2	8560.0	8555.5	8527.2	8490.0
6312.7	25°	6385.7	6527.3	6835.8	7215.8	7676.3	7744.8	7747.8	7738.9	7706.1
5443.9	27.5°	5530.3	5701.7	5871.6	6211.4	6701.7	6984.8	6949.0	6938.6	6926.7
4710.7	30°	4755.4	4971.5	5130.9	5342.5	5782.2	6165.2	6202.4	6184.5	6156.2
4104.1	32.5°	4141.4	4269.6	4472.2	4615.3	4931.2	5364.9	5508.0	5494.6	5469.2
3557.2	35°	3607.9	3658.6	3818.0	3977.5	4187.6	4607.9	4819.5	4789.7	4785.2
2898.5	37.5°	2971.6	3141.4	3229.4	3390.3	3537.9	3864.2	4156.3	4142.9	4144.4
2330.8	40°	2399.3	2497.7	2672.0	2807.6	2943.2	3181.7	3506.6	3515.5	3512.5
1804.7	42.5°	1841.9	1937.3	2120.6	2268.2	2388.9	2536.4	2846.4	2856.8	2870.2
1405.3	45°	1438.1	1499.2	1633.3	1786.8	1915.0	2004.4	2239.8	2306.9	2308.4
1089.4	47.5°	1116.2	1186.2	1281.6	1429.1	1554.3	1618.4	1789.8	1880.7	1876.2
836.0	50°	876.3	940.3	1017.8	1134.1	1269.7	1320.4	1447.0	1536.4	1532.0
630.4	52.5°	670.6	752.6	821.1	910.5	1043.2	1086.4	1177.3	1280.1	1265.2
462.0	55°	508.2	591.6	655.7	730.2	850.9	906.1	968.7	1050.6	1053.6
357.7	57.5°	383.0	469.4	527.5	603.6	694.5	755.6	803.2	891.2	889.7
244.4	60°	274.2	348.7	418.8	497.7	567.8	637.8	670.6	754.1	757.0
172.9	62.5°	198.2	268.2	335.3	403.9	466.4	535.0	564.8	630.4	639.3
113.3	65°	138.6	187.8	265.3	317.4	387.5	438.1	476.9	533.5	543.9
67.1	67.5°	89.4	135.6	210.1	256.3	320.4	363.6	403.9	448.6	462.0
43.2	70°	53.6	102.8	156.5	205.7	263.8	302.5	341.3	380.0	387.5
20.9	72.5°	34.3	71.5	113.3	166.9	211.6	253.3	287.6	315.9	293.6
13.4	75°	19.4	49.2	89.4	131.1	171.4	211.6	239.9	254.8	204.2
8.9	77.5°	11.9	35.8	73.0	105.8	132.6	169.9	187.8	196.7	146.0
6.0	80°	7.5	26.8	61.1	86.4	86.4	125.2	146.0	153.5	105.8
4.5	82.5°	6.0	19.4	47.7	65.6	58.1	93.9	114.7	116.2	74.5
3.0	85°	4.5	14.9	29.8	43.2	40.2	65.6	67.1	74.5	49.2
3.0	87.5°	3.0	8.9	17.9	25.3	22.4	31.3	35.8	40.2	26.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13860.8
13454.0
13228.9
12899.6
12282.6
11619.5
10850.5
10081.5
9235.1
8418.4
7595.8
6856.6
6120.5
5402.2
4736.0
4096.7
3460.4
2825.5
2269.7
1859.8
1532.0
1266.7
1053.6
886.7
749.6
636.3
541.0
460.5
381.5
272.7
193.7
137.1
98.4
68.6
44.7
23.8
0.0

(END OF REPORT)