

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: P637510

Luminaire Tested: **IFLD-M-SA4E-830-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637510  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-830-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27746.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

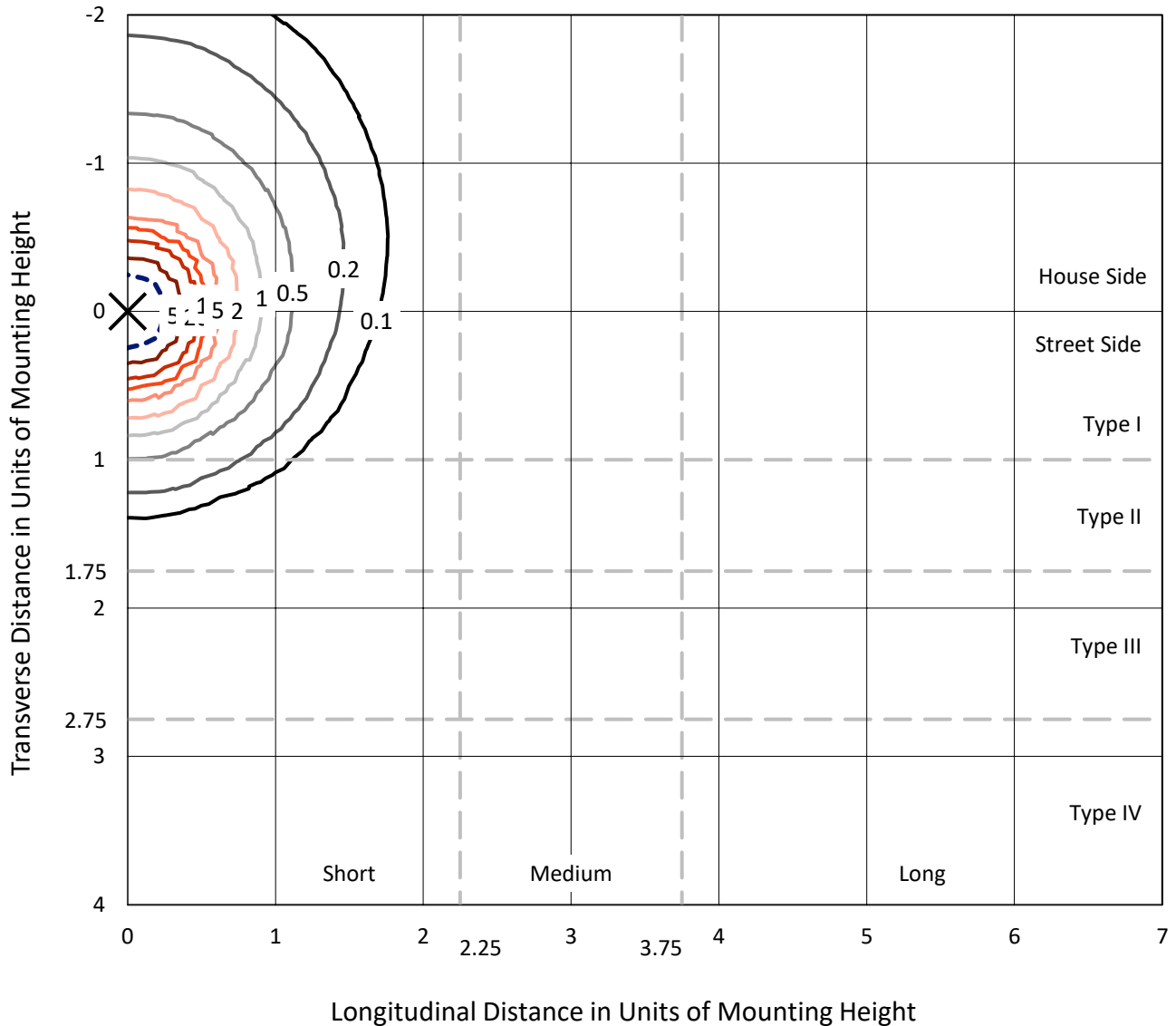
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

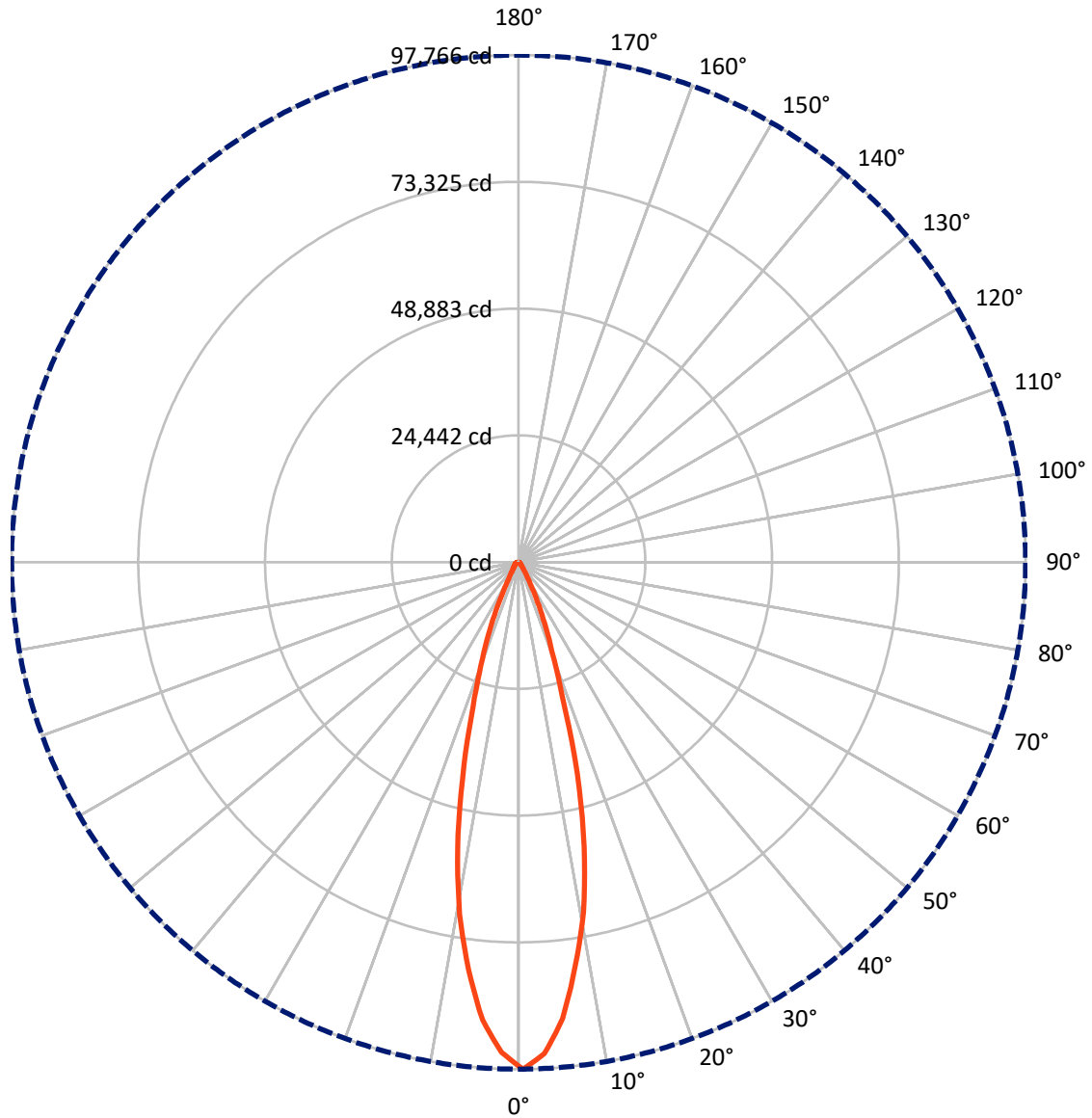
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 244.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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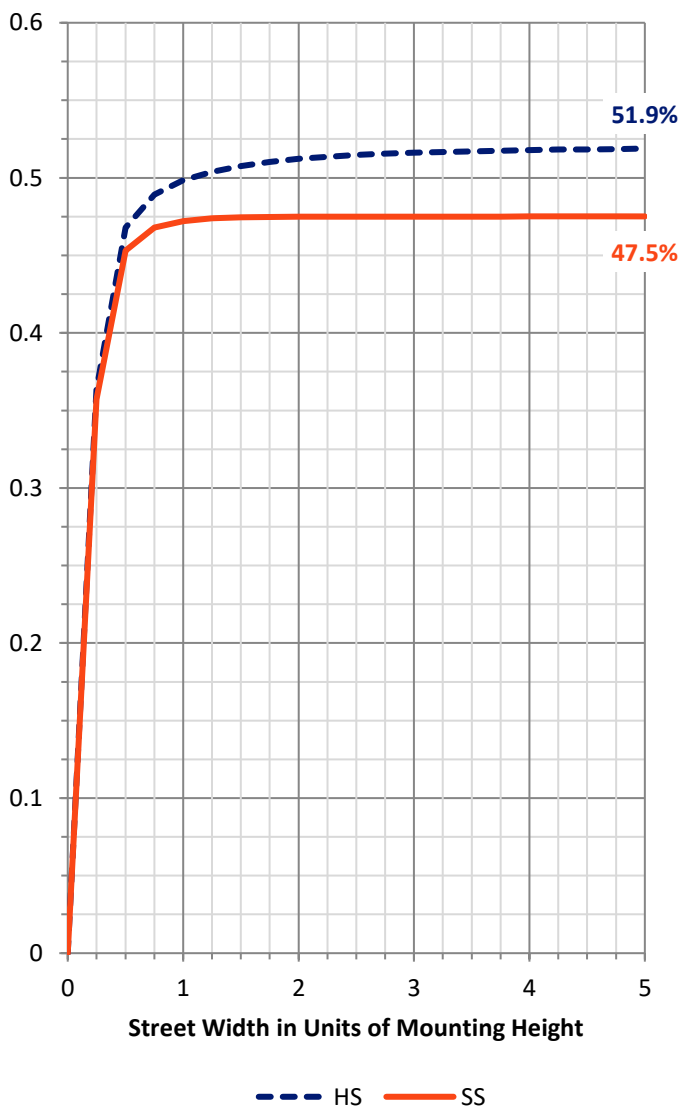
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14629.8	0.0	14629.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	13116.6	0.0	13116.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	27746.4	0.0	27746.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7890.6	28.4
10°-20°	11950.3	43.1
20°-30°	5043.1	18.2
30°-40°	1315.3	4.7
40°-50°	665.2	2.4
50°-60°	434.8	1.6
60°-70°	260.5	0.9
70°-80°	137.0	0.5
80°-90°	49.5	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°	27746.4	100.0
0°-180°	27746.4	100.0



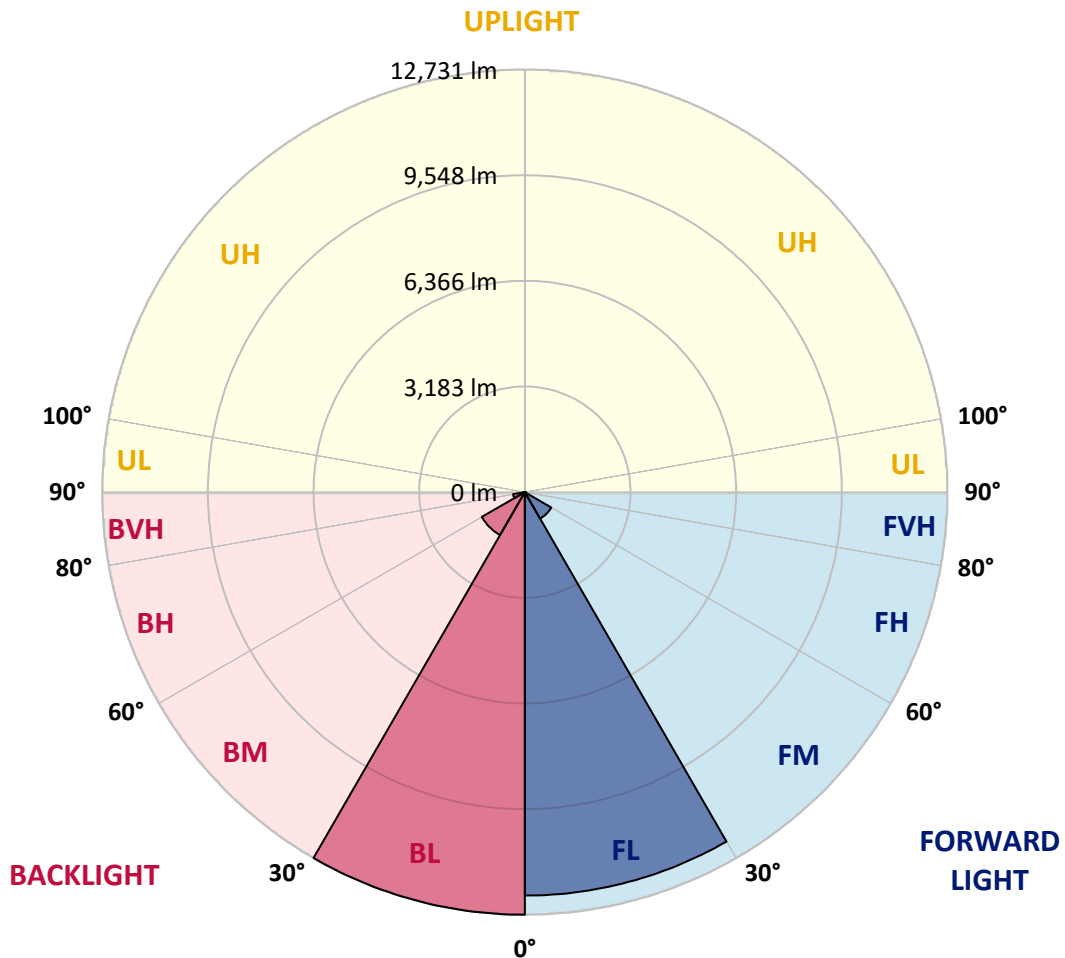
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12152.7	43.8			
FM (30°-60°)	920.4	3.3			
FH (60°-80°)	37.5	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12731.2	45.9	B5		
BM (30°-60°)	1495.0	5.4	B2/2500		
BH (60°-80°)	360.1	1.3	B1/500		G0/660
BVH (80°-90°)	43.5	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 V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3
2.5°	94918.4	94971.3	94775.0	95198.8	94868.5	95753.4	95314.1	95999.6	95769.0	96152.3
5°	88437.2	88349.9	88293.8	88951.3	88761.2	89711.6	89104.0	88904.6	89521.5	89409.3
7.5°	78649.9	78880.5	78749.6	78921.0	79017.6	80102.0	80444.7	80176.8	80186.1	80341.9
10°	68616.5	68276.9	67793.9	68114.9	68794.2	69267.8	69077.7	69470.3	69383.1	69753.9
12.5°	56271.1	56539.1	56268.0	55981.3	57168.5	57037.6	57367.9	57582.9	57043.9	58243.5
15°	42386.4	42526.6	42856.9	42835.1	43748.1	43931.9	43888.3	44115.8	43695.1	43894.5
17.5°	27230.4	27704.0	28592.0	30093.9	31782.8	31979.1	31929.2	31742.3	31539.7	31315.4
20°	18290.7	18240.8	18561.8	19001.1	22497.2	23422.7	23394.6	22808.8	21961.3	21799.3
22.5°	12812.8	12906.3	12862.7	13298.9	14021.8	16573.8	16259.1	15663.9	15386.6	15205.9
25°	8428.7	8394.4	8612.5	8743.4	9363.5	9675.1	10778.1	10556.9	10130.0	10176.7
27.5°	5138.2	5181.8	5262.9	5375.0	5814.4	5714.7	6344.1	6428.2	6291.1	6144.7
30°	3153.4	3184.5	3249.9	3331.0	3483.6	3374.6	3549.1	3851.3	3801.5	3698.6
32.5°	2140.7	2143.8	2190.5	2221.7	2203.0	2100.2	2156.2	2442.9	2449.1	2439.8
35°	1539.3	1539.3	1582.9	1607.8	1554.9	1470.7	1480.1	1657.7	1735.6	1751.2
37.5°	1062.5	1065.7	1140.4	1215.2	1156.0	1134.2	1096.8	1215.2	1339.9	1358.6
40°	807.0	803.9	841.3	897.4	903.6	863.1	875.6	950.4	1078.1	1093.7
42.5°	654.4	657.5	676.2	669.9	673.0	726.0	744.7	779.0	897.4	925.4
45°	551.5	554.6	564.0	532.8	520.4	601.4	626.3	645.0	744.7	779.0
47.5°	454.9	461.2	470.5	436.2	430.0	483.0	526.6	545.3	632.5	669.9
50°	327.2	333.4	367.7	349.0	367.7	380.1	439.4	467.4	526.6	576.5
52.5°	236.8	243.0	252.4	255.5	302.2	308.5	352.1	395.7	423.8	479.9
55°	187.0	193.2	187.0	180.7	221.2	255.5	271.1	317.8	339.6	405.1
57.5°	105.9	112.2	121.5	140.2	146.5	196.3	211.9	252.4	271.1	333.4
60°	18.7	21.8	34.3	84.1	102.8	124.6	158.9	193.2	218.1	261.7
62.5°	3.1	3.1	6.2	18.7	59.2	87.2	115.3	137.1	158.9	199.4
65°	0.0	0.0	3.1	6.2	15.6	49.9	62.3	81.0	109.1	143.3
67.5°	0.0	0.0	3.1	6.2	9.3	18.7	28.0	49.9	62.3	96.6
70°	0.0	0.0	3.1	6.2	9.3	12.5	15.6	21.8	37.4	59.2
72.5°	0.0	0.0	3.1	6.2	9.3	12.5	15.6	18.7	18.7	37.4
75°	0.0	0.0	3.1	6.2	9.3	15.6	18.7	18.7	15.6	15.6
77.5°	0.0	0.0	3.1	6.2	12.5	18.7	21.8	18.7	12.5	12.5
80°	0.0	0.0	6.2	9.3	15.6	21.8	28.0	21.8	12.5	6.2
82.5°	0.0	0.0	6.2	12.5	15.6	24.9	34.3	28.0	12.5	6.2
85°	0.0	0.0	3.1	9.3	18.7	24.9	34.3	24.9	12.5	3.1
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	18.7	15.6	6.2	3.1
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°
97766.3	0°	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3	97766.3
95426.3	2.5°	95974.7	96473.2	96576.0	96438.9	96638.4	96280.0	96005.8	95295.4	94868.5
89375.1	5°	89951.5	89876.7	90397.1	90568.5	90546.7	90272.5	89889.2	89459.2	89041.7
80039.6	7.5°	80538.2	80634.8	81108.4	81410.7	81258.0	80915.2	80650.4	80326.3	80045.9
69887.9	10°	70526.6	69862.9	70451.8	70451.8	70860.0	69891.0	69981.3	69165.0	69202.3
58221.7	12.5°	58421.1	58661.1	58757.6	59035.0	58558.2	58044.1	57414.7	57290.0	56900.5
43514.4	15°	44140.7	44826.2	44237.3	45243.7	44757.6	44221.7	44125.1	43159.2	43464.5
31561.6	17.5°	31405.8	32162.9	32399.7	32976.2	32533.7	32215.9	31813.9	31521.0	31499.2
22095.3	20°	22269.8	23030.1	23204.5	23896.3	23846.4	23746.7	23407.1	23036.3	22634.3
15040.7	22.5°	15268.2	15888.3	16467.8	17399.5	17383.9	17091.0	17056.8	16533.3	16542.6
10161.1	25°	10267.1	10718.9	10856.0	11809.5	11915.4	11884.3	11706.7	11220.6	11404.4
6207.0	27.5°	6213.2	6608.9	7073.2	7409.8	7727.6	7677.7	7500.1	7229.0	7110.6
3729.8	30°	3829.5	4007.1	4178.5	4583.6	4773.6	4873.4	4789.2	4536.8	4555.5
2455.4	32.5°	2508.3	2657.9	2782.6	3038.1	3137.8	3321.6	3287.3	3234.4	3172.0
1766.7	35°	1829.1	1938.1	2022.3	2140.7	2268.4	2424.2	2449.1	2427.3	2402.4
1364.8	37.5°	1395.9	1508.1	1604.7	1654.6	1754.3	1875.8	1944.4	1941.2	1922.5
1112.4	40°	1134.2	1218.3	1305.6	1371.0	1439.6	1529.9	1614.1	1623.4	1623.4
934.8	42.5°	947.3	1018.9	1106.2	1174.7	1224.6	1308.7	1395.9	1402.2	1395.9
791.5	45°	810.1	872.5	956.6	1037.6	1078.1	1140.4	1224.6	1243.3	1230.8
679.3	47.5°	704.2	760.3	832.0	919.2	962.8	1018.9	1096.8	1118.6	1115.5
585.8	50°	604.5	669.9	741.6	813.3	869.4	922.3	997.1	1022.0	1012.7
498.6	52.5°	532.8	592.0	654.4	732.3	797.7	844.4	903.6	947.3	934.8
420.7	55°	445.6	517.2	582.7	648.1	729.1	779.0	835.1	888.0	875.6
355.2	57.5°	386.4	445.6	520.4	579.6	660.6	719.8	775.9	832.0	828.8
289.8	60°	324.1	386.4	458.0	520.4	595.1	660.6	716.7	779.0	785.2
218.1	62.5°	255.5	330.3	392.6	464.3	539.1	610.7	660.6	722.9	732.3
165.1	65°	193.2	271.1	339.6	408.2	483.0	560.9	604.5	657.5	666.8
121.5	67.5°	143.3	208.8	289.8	352.1	430.0	504.8	545.3	588.9	604.5
74.8	70°	109.1	158.9	243.0	302.2	383.3	442.5	486.1	523.5	535.9
49.9	72.5°	68.6	124.6	196.3	258.6	330.3	383.3	414.4	436.2	454.9
28.0	75°	46.7	96.6	158.9	221.2	274.2	314.7	342.8	361.5	377.0
12.5	77.5°	28.0	74.8	130.9	183.8	218.1	249.3	277.3	289.8	299.1
9.3	80°	15.6	56.1	109.1	149.6	171.4	193.2	215.0	230.6	236.8
6.2	82.5°	9.3	43.6	87.2	115.3	124.6	146.5	168.3	177.6	177.6
3.1	85°	6.2	31.2	59.2	84.1	90.4	105.9	112.2	118.4	124.6
3.1	87.5°	6.2	18.7	37.4	46.7	49.9	56.1	59.2	65.4	71.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
97766.3
94553.8
88574.3
79095.5
68837.8
56545.3
43159.2
30919.7
22459.8
16361.9
11114.6
7007.8
4474.5
3150.2
2393.1
1913.2
1604.7
1389.7
1230.8
1109.3
1006.5
931.7
881.8
832.0
788.3
738.5
676.2
610.7
542.2
451.8
373.9
296.0
230.6
174.5
121.5
68.6
0.0

(END OF REPORT)