

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: P637477

Luminaire Tested: **IFLD-M-SA4A-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637477  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13093.2 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

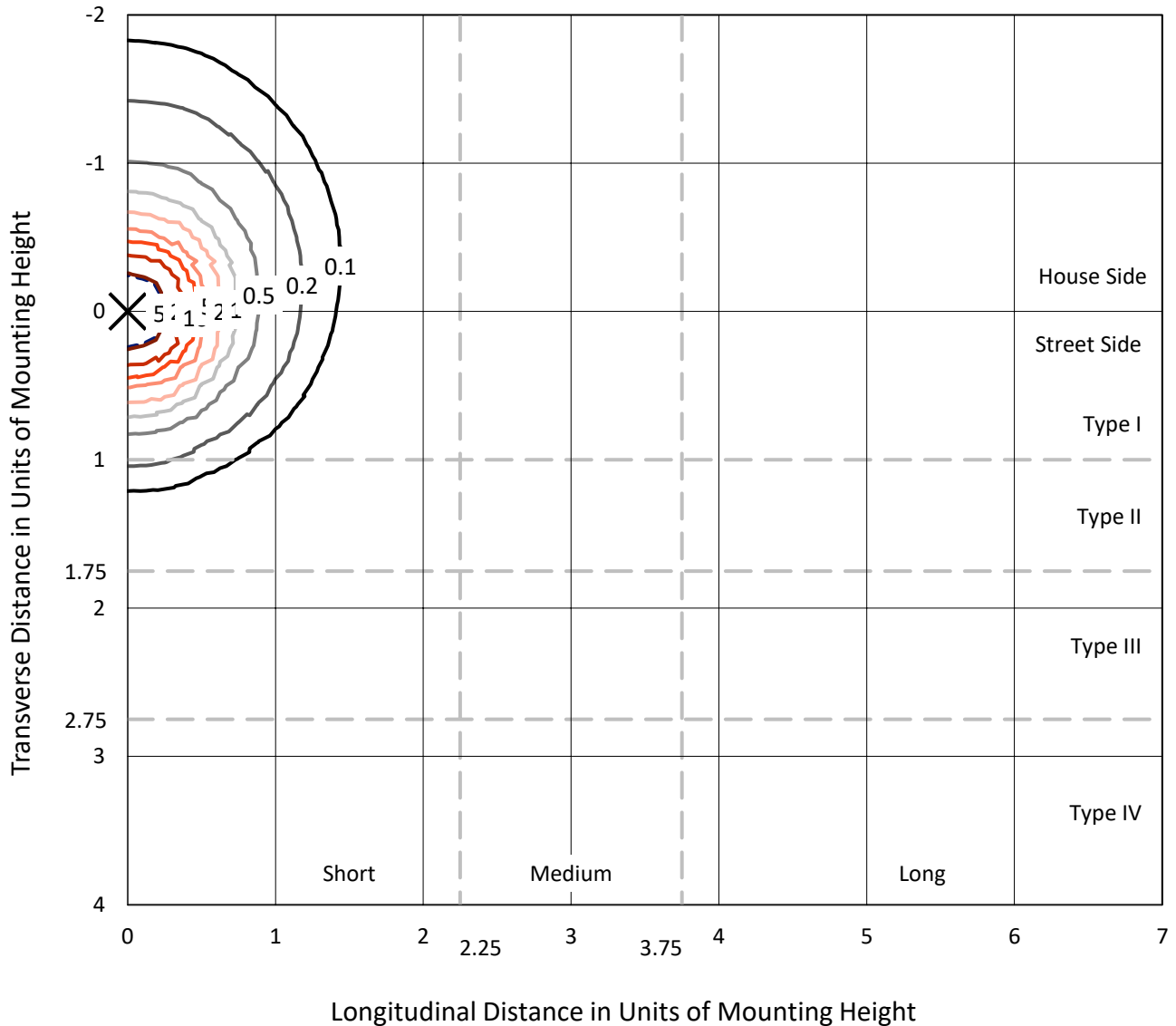
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

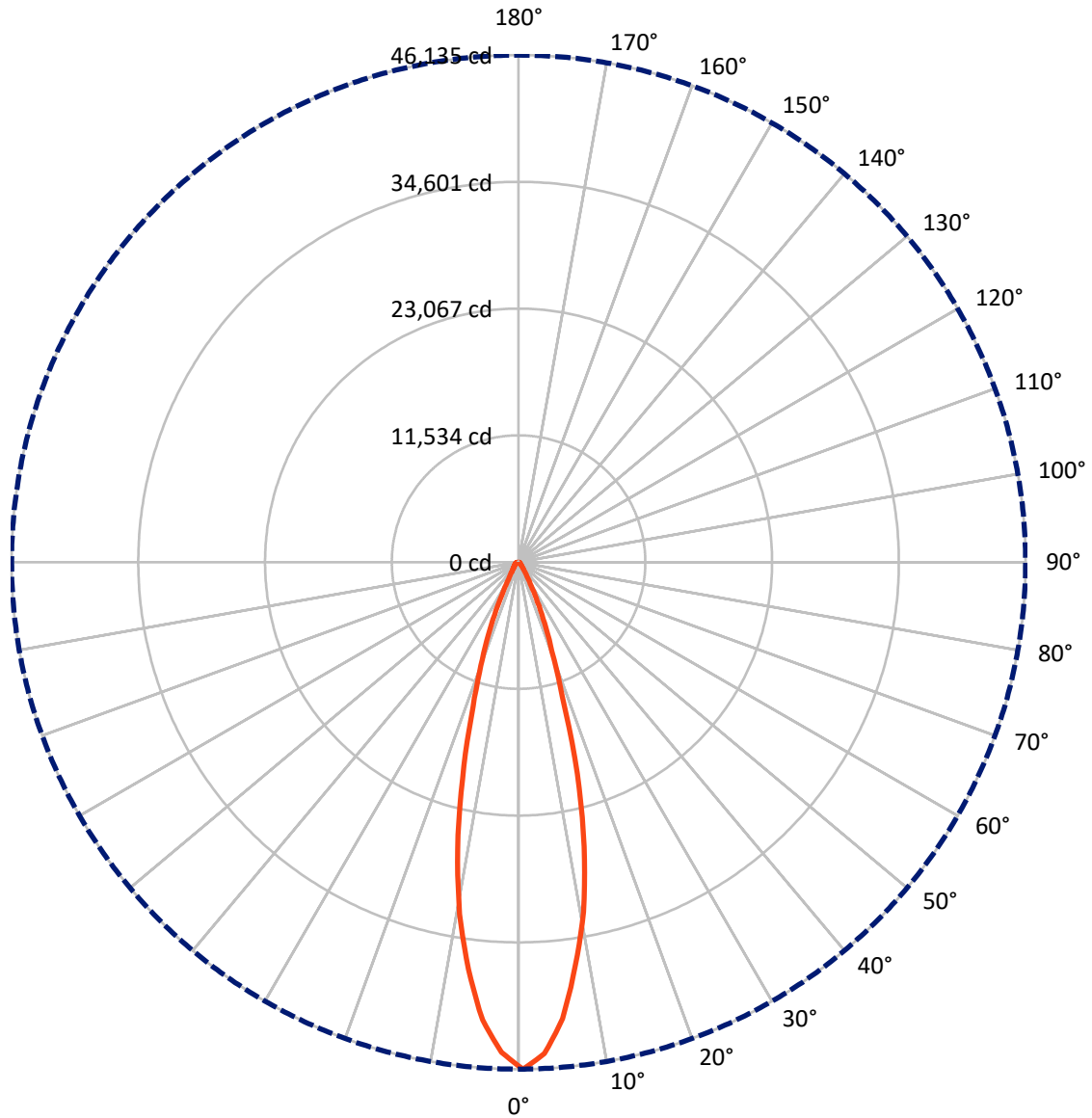
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 115.3 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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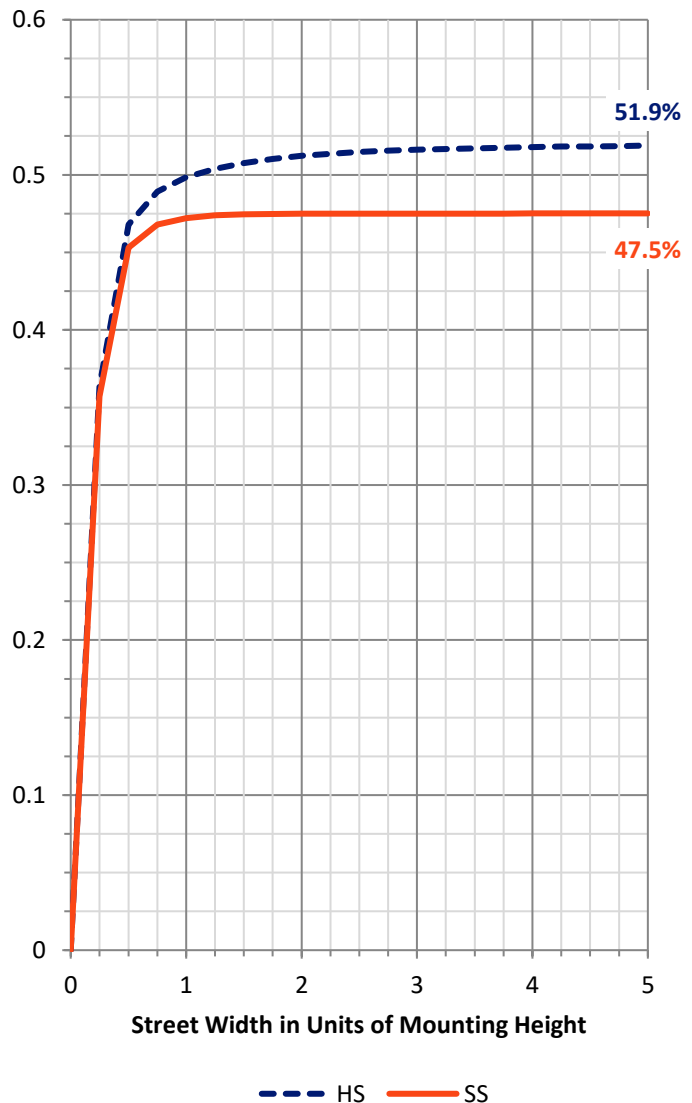
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6903.6	0.0	6903.6
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	6189.6	0.0	6189.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	13093.2	0.0	13093.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3723.5	28.4
10°-20°	5639.2	43.1
20°-30°	2379.8	18.2
30°-40°	620.7	4.7
40°-50°	313.9	2.4
50°-60°	205.2	1.6
60°-70°	122.9	0.9
70°-80°	64.7	0.5
80°-90°	23.4	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°	13093.2	100.0
0°-180°	13093.2	100.0



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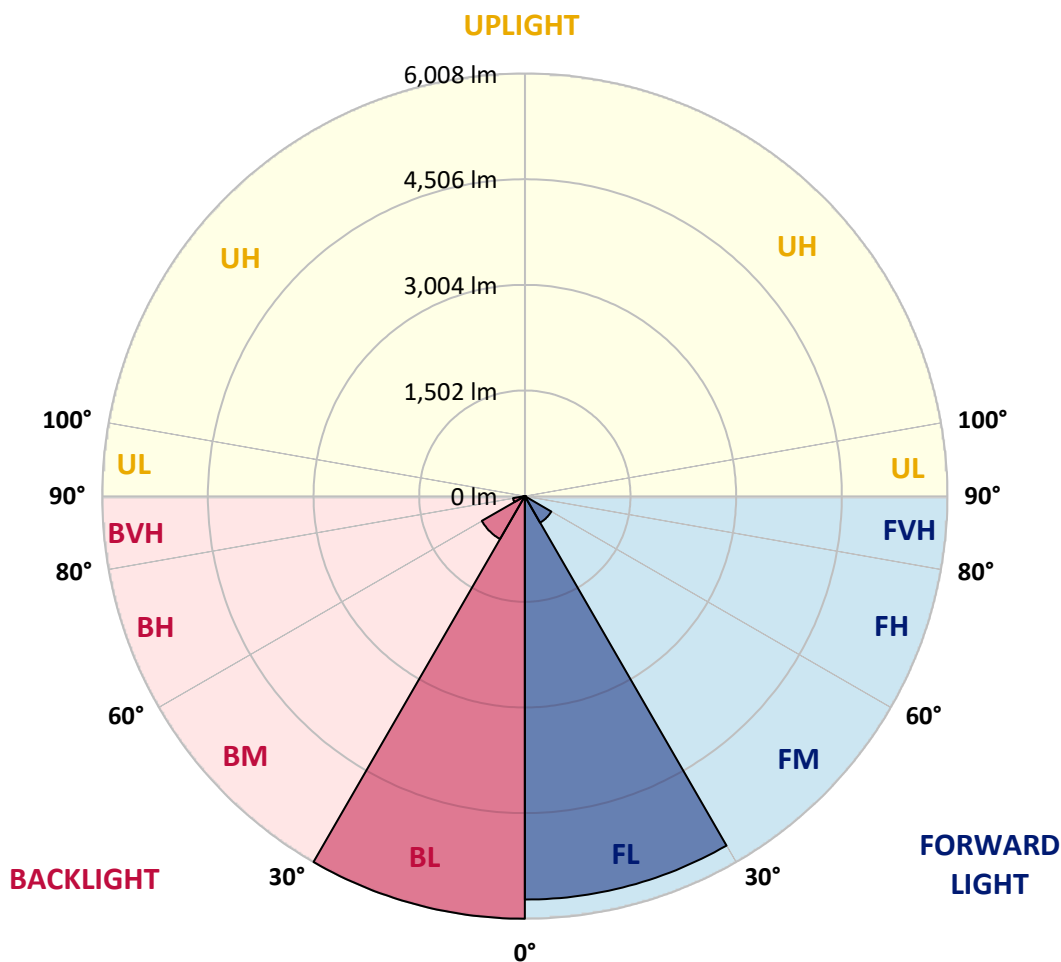
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5734.7	43.8			
FM (30°-60°)	434.3	3.3			
FH (60°-80°)	17.7	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	6007.7	45.9	B5		
BM (30°-60°)	705.5	5.4	B1/1000		
BH (60°-80°)	169.9	1.3	B1/500		G0/660
BVH (80°-90°)	20.5	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°	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8
2.5°	44790.9	44815.9	44723.2	44923.2	44767.3	45184.9	44977.6	45301.1	45192.3	45373.1
5°	41732.5	41691.3	41664.8	41975.1	41885.4	42333.8	42047.1	41953.0	42244.2	42191.2
7.5°	37114.0	37222.8	37161.0	37241.9	37287.5	37799.2	37960.9	37834.5	37838.9	37912.4
10°	32379.3	32219.1	31991.2	32142.6	32463.2	32686.7	32597.0	32782.2	32741.1	32916.0
12.5°	26553.7	26680.1	26552.2	26416.9	26977.1	26915.4	27071.3	27172.7	26918.3	27484.4
15°	20001.6	20067.8	20223.7	20213.4	20644.2	20731.0	20710.4	20817.7	20619.2	20713.3
17.5°	12849.7	13073.2	13492.3	14201.0	14997.9	15090.6	15067.0	14978.8	14883.2	14777.4
20°	8631.2	8607.6	8759.1	8966.4	10616.2	11052.9	11039.6	10763.2	10363.3	10286.8
22.5°	6046.2	6090.3	6069.7	6275.6	6616.7	7821.0	7672.5	7391.6	7260.8	7175.5
25°	3977.4	3961.2	4064.1	4125.9	4418.5	4565.5	5086.1	4981.7	4780.2	4802.3
27.5°	2424.7	2445.2	2483.5	2536.4	2743.7	2696.7	2993.7	3033.4	2968.7	2899.6
30°	1488.0	1502.7	1533.6	1571.8	1643.9	1592.4	1674.8	1817.4	1793.9	1745.3
32.5°	1010.2	1011.6	1033.7	1048.4	1039.6	991.0	1017.5	1152.8	1155.7	1151.3
35°	726.4	726.4	747.0	758.7	733.7	694.0	698.4	782.2	819.0	826.4
37.5°	501.4	502.9	538.2	573.5	545.5	535.2	517.6	573.5	632.3	641.1
40°	380.8	379.4	397.0	423.5	426.4	407.3	413.2	448.5	508.8	516.1
42.5°	308.8	310.3	319.1	316.1	317.6	342.6	351.4	367.6	423.5	436.7
45°	260.3	261.7	266.1	251.4	245.6	283.8	295.5	304.4	351.4	367.6
47.5°	214.7	217.6	222.0	205.9	202.9	227.9	248.5	257.3	298.5	316.1
50°	154.4	157.3	173.5	164.7	173.5	179.4	207.3	220.6	248.5	272.0
52.5°	111.7	114.7	119.1	120.6	142.6	145.6	166.2	186.7	200.0	226.4
55°	88.2	91.2	88.2	85.3	104.4	120.6	127.9	150.0	160.3	191.2
57.5°	50.0	52.9	57.3	66.2	69.1	92.6	100.0	119.1	127.9	157.3
60°	8.8	10.3	16.2	39.7	48.5	58.8	75.0	91.2	102.9	123.5
62.5°	1.5	1.5	2.9	8.8	27.9	41.2	54.4	64.7	75.0	94.1
65°	0.0	0.0	1.5	2.9	7.4	23.5	29.4	38.2	51.5	67.6
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	13.2	23.5	29.4	45.6
70°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	10.3	17.6	27.9
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	8.8	8.8	17.6
75°	0.0	0.0	1.5	2.9	4.4	7.4	8.8	8.8	7.4	7.4
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	5.9	5.9
80°	0.0	0.0	2.9	4.4	7.4	10.3	13.2	10.3	5.9	2.9
82.5°	0.0	0.0	2.9	5.9	7.4	11.8	16.2	13.2	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.8	16.2	11.8	5.9	1.5
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	8.8	7.4	2.9	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°
46134.8	0°	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8	46134.8
45030.5	2.5°	45289.3	45524.6	45573.1	45508.4	45602.5	45433.4	45304.0	44968.8	44767.3
42175.0	5°	42447.1	42411.8	42657.3	42738.2	42727.9	42598.5	42417.7	42214.7	42017.7
37769.8	7.5°	38005.0	38050.6	38274.1	38416.7	38344.7	38183.0	38058.0	37905.0	37772.7
32979.3	10°	33280.7	32967.5	33245.4	33245.4	33438.0	32980.7	33023.4	32638.1	32655.8
27474.1	12.5°	27568.2	27681.5	27727.0	27857.9	27632.9	27390.3	27093.3	27034.5	26850.7
20533.9	15°	20829.5	21153.0	20875.1	21350.0	21120.6	20867.7	20822.1	20366.3	20510.4
14893.5	17.5°	14820.0	15177.3	15289.1	15561.1	15352.3	15202.3	15012.6	14874.4	14864.1
10426.5	20°	10508.8	10867.6	10950.0	11276.4	11252.9	11205.8	11045.5	10870.6	10680.9
7097.5	22.5°	7204.9	7497.5	7771.0	8210.6	8203.3	8065.1	8048.9	7801.9	7806.3
4794.9	25°	4844.9	5058.1	5122.8	5572.8	5622.8	5608.0	5524.2	5294.9	5381.6
2929.0	27.5°	2931.9	3118.7	3337.8	3496.6	3646.6	3623.0	3539.2	3411.3	3355.4
1760.1	30°	1807.1	1890.9	1971.8	2162.9	2252.6	2299.7	2260.0	2140.9	2149.7
1158.7	32.5°	1183.7	1254.2	1313.1	1433.6	1480.7	1567.4	1551.3	1526.3	1496.9
833.7	35°	863.1	914.6	954.3	1010.2	1070.4	1144.0	1155.7	1145.4	1133.7
644.0	37.5°	658.7	711.7	757.2	780.8	827.8	885.2	917.5	916.0	907.2
524.9	40°	535.2	574.9	616.1	647.0	679.3	722.0	761.7	766.1	766.1
441.1	42.5°	447.0	480.8	522.0	554.3	577.9	617.6	658.7	661.7	658.7
373.5	45°	382.3	411.7	451.4	489.6	508.8	538.2	577.9	586.7	580.8
320.5	47.5°	332.3	358.8	392.6	433.8	454.3	480.8	517.6	527.9	526.4
276.4	50°	285.3	316.1	350.0	383.8	410.2	435.2	470.5	482.3	477.9
235.3	52.5°	251.4	279.4	308.8	345.5	376.4	398.5	426.4	447.0	441.1
198.5	55°	210.3	244.1	275.0	305.8	344.1	367.6	394.1	419.1	413.2
167.6	57.5°	182.3	210.3	245.6	273.5	311.7	339.7	366.1	392.6	391.1
136.7	60°	152.9	182.3	216.1	245.6	280.8	311.7	338.2	367.6	370.5
102.9	62.5°	120.6	155.9	185.3	219.1	254.4	288.2	311.7	341.1	345.5
77.9	65°	91.2	127.9	160.3	192.6	227.9	264.7	285.3	310.3	314.7
57.3	67.5°	67.6	98.5	136.7	166.2	202.9	238.2	257.3	277.9	285.3
35.3	70°	51.5	75.0	114.7	142.6	180.9	208.8	229.4	247.0	252.9
23.5	72.5°	32.3	58.8	92.6	122.0	155.9	180.9	195.6	205.9	214.7
13.2	75°	22.1	45.6	75.0	104.4	129.4	148.5	161.7	170.6	177.9
5.9	77.5°	13.2	35.3	61.8	86.8	102.9	117.6	130.9	136.7	141.2
4.4	80°	7.4	26.5	51.5	70.6	80.9	91.2	101.5	108.8	111.7
2.9	82.5°	4.4	20.6	41.2	54.4	58.8	69.1	79.4	83.8	83.8
1.5	85°	2.9	14.7	27.9	39.7	42.6	50.0	52.9	55.9	58.8
1.5	87.5°	2.9	8.8	17.6	22.1	23.5	26.5	27.9	30.9	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
46134.8
44618.8
41797.2
37324.2
32483.7
26683.1
20366.3
14590.6
10598.5
7721.0
5244.9
3306.9
2111.5
1486.6
1129.3
902.8
757.2
655.8
580.8
523.5
474.9
439.6
416.1
392.6
372.0
348.5
319.1
288.2
255.8
213.2
176.4
139.7
108.8
82.3
57.3
32.3
0.0

(END OF REPORT)