

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: P637348

Luminaire Tested: **IFLD-S-SA2C-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637348  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13520.8 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

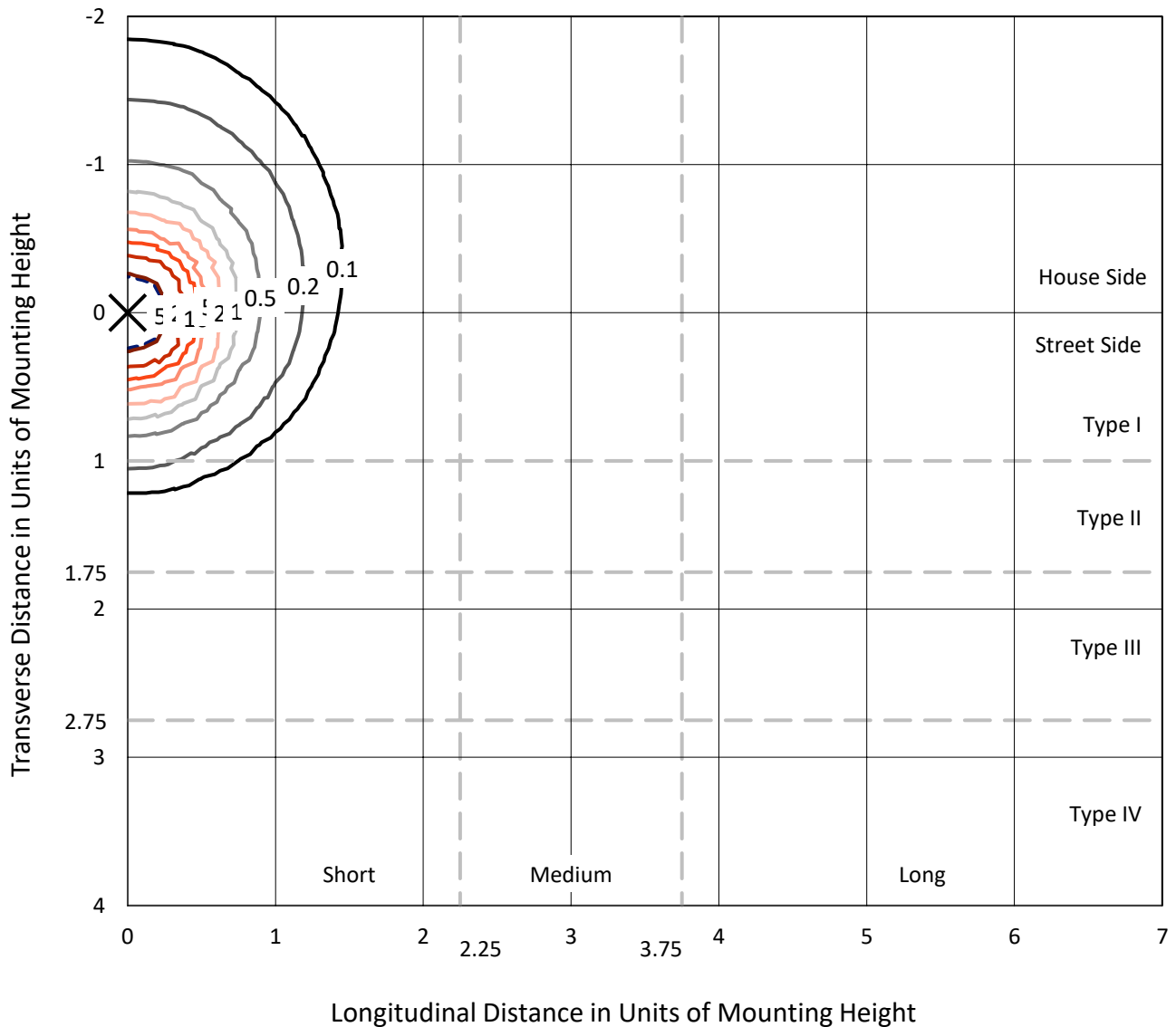
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

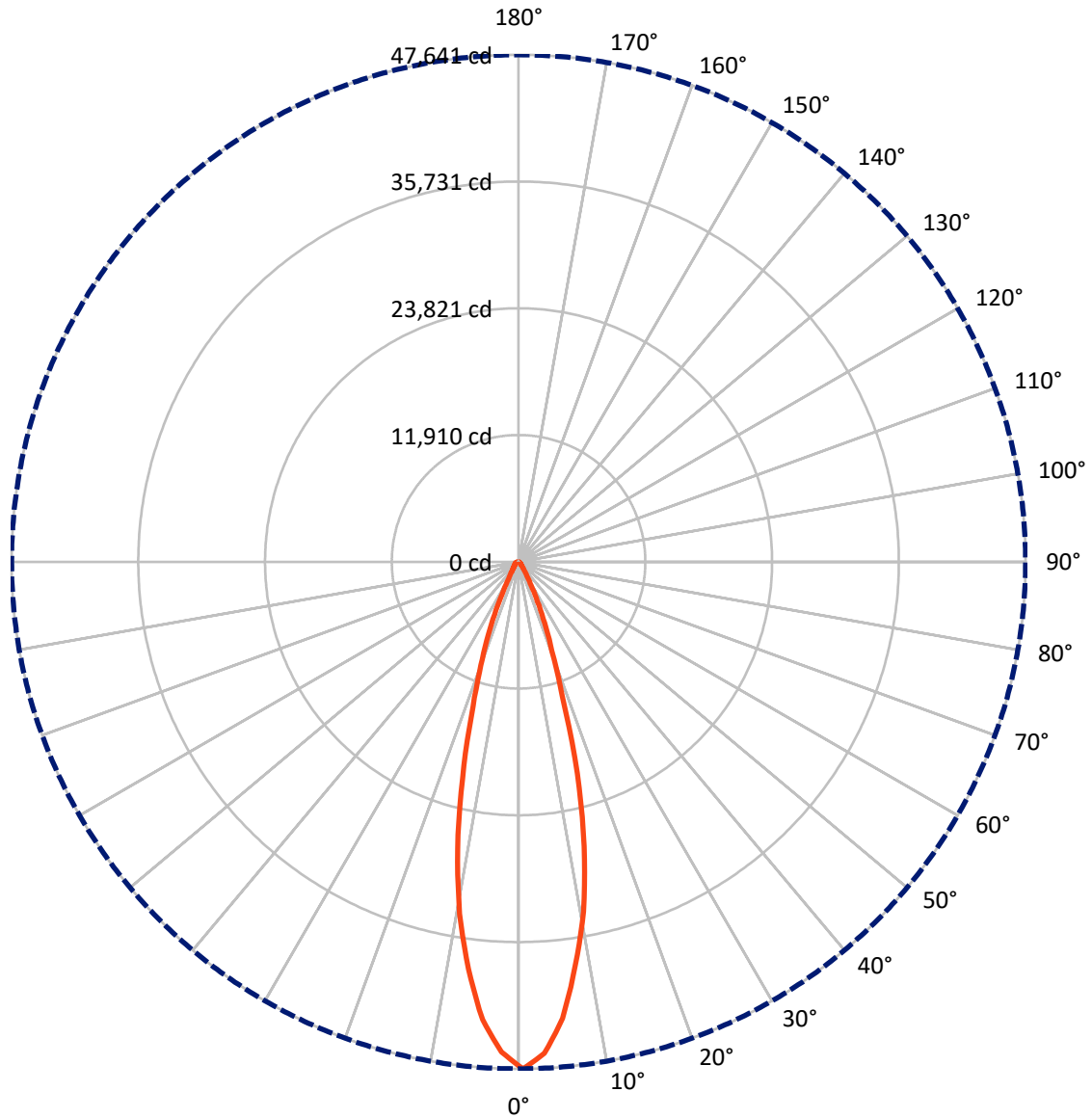
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 119.1 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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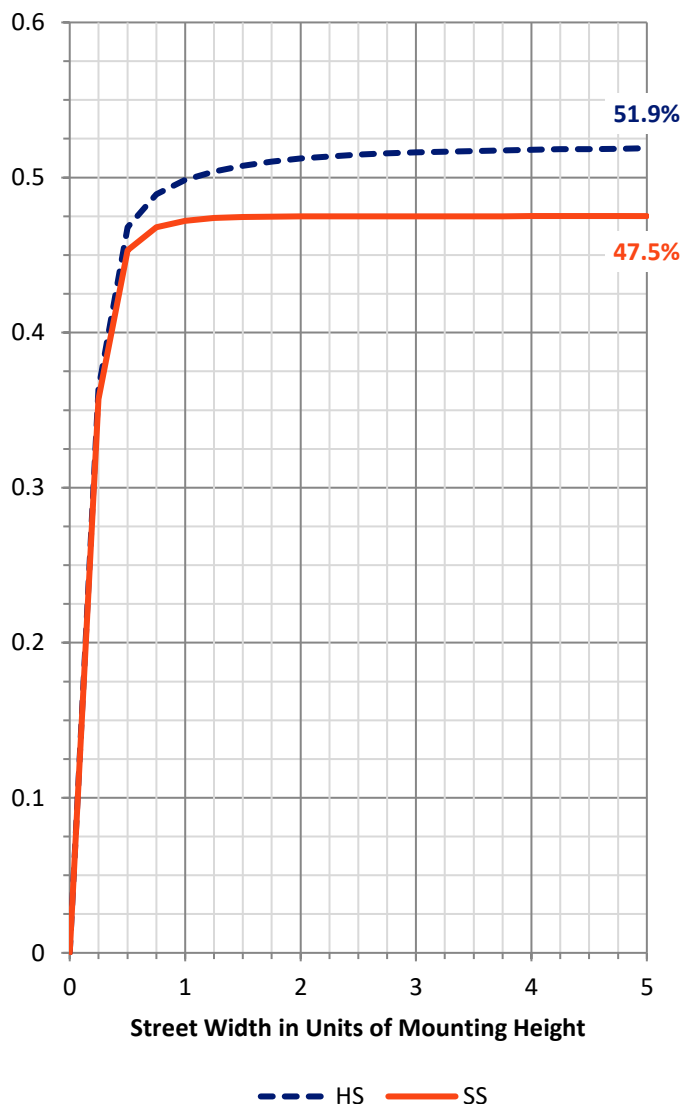
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7129.1	0.0	7129.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	6391.7	0.0	6391.7
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	13520.8	0.0	13520.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3845.1	28.4
10°-20°	5823.3	43.1
20°-30°	2457.5	18.2
30°-40°	640.9	4.7
40°-50°	324.2	2.4
50°-60°	211.9	1.6
60°-70°	126.9	0.9
70°-80°	66.8	0.5
80°-90°	24.1	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°	13520.8	100.0
0°-180°	13520.8	100.0

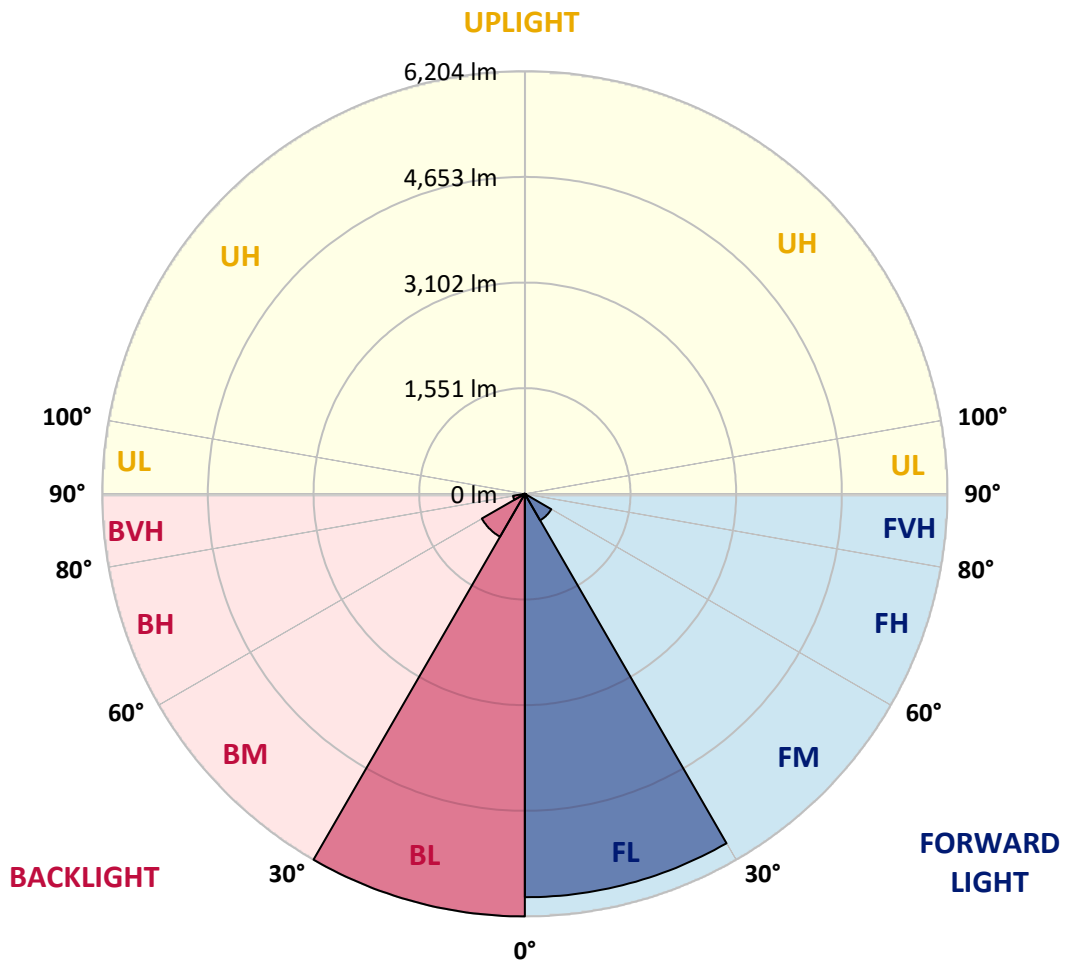


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5922.0	43.8			
FM (30°-60°)	448.5	3.3			
FH (60°-80°)	18.3	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6203.9	45.9	B5		
BM (30°-60°)	728.5	5.4	B1/1000		
BH (60°-80°)	175.5	1.3	B1/500		G0/660
BVH (80°-90°)	21.2	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°	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4
2.5°	46253.5	46279.4	46183.7	46390.2	46229.3	46660.5	46446.4	46780.4	46668.1	46854.8
5°	43095.3	43052.8	43025.4	43345.8	43253.2	43716.3	43420.2	43323.0	43623.7	43569.0
7.5°	38326.0	38438.3	38374.6	38458.1	38505.1	39033.5	39200.6	39070.0	39074.5	39150.5
10°	33436.7	33271.2	33035.9	33192.3	33523.3	33754.1	33661.4	33852.8	33810.2	33990.9
12.5°	27420.8	27551.4	27419.3	27279.6	27858.1	27794.3	27955.3	28060.1	27797.4	28382.0
15°	20654.8	20723.1	20884.1	20873.5	21318.4	21407.9	21386.7	21497.5	21292.5	21389.7
17.5°	13269.3	13500.1	13932.9	14664.7	15487.7	15583.4	15559.1	15468.0	15369.3	15259.9
20°	8913.0	8888.7	9045.1	9259.2	10962.9	11413.8	11400.2	11114.7	10701.7	10622.7
22.5°	6243.7	6289.2	6268.0	6480.5	6832.8	8076.4	7923.0	7633.0	7497.9	7409.8
25°	4107.3	4090.6	4196.9	4260.6	4562.8	4714.6	5252.2	5144.3	4936.3	4959.1
27.5°	2503.8	2525.1	2564.6	2619.2	2833.3	2784.7	3091.5	3132.5	3065.7	2994.3
30°	1536.6	1551.8	1583.7	1623.2	1697.6	1644.4	1729.5	1876.7	1852.4	1802.3
32.5°	1043.1	1044.7	1067.4	1082.6	1073.5	1023.4	1050.7	1190.4	1193.5	1188.9
35°	750.1	750.1	771.3	783.5	757.7	716.7	721.2	807.8	845.7	853.3
37.5°	517.8	519.3	555.7	592.2	563.3	552.7	534.5	592.2	652.9	662.0
40°	393.3	391.7	410.0	437.3	440.3	420.6	426.7	463.1	525.4	533.0
42.5°	318.9	320.4	329.5	326.5	328.0	353.8	362.9	379.6	437.3	451.0
45°	268.8	270.3	274.8	259.6	253.6	293.1	305.2	314.3	362.9	379.6
47.5°	221.7	224.7	229.3	212.6	209.5	235.4	256.6	265.7	308.2	326.5
50°	159.4	162.5	179.2	170.1	179.2	185.2	214.1	227.8	256.6	280.9
52.5°	115.4	118.4	123.0	124.5	147.3	150.3	171.6	192.8	206.5	233.8
55°	91.1	94.1	91.1	88.1	107.8	124.5	132.1	154.9	165.5	197.4
57.5°	51.6	54.7	59.2	68.3	71.4	95.7	103.3	123.0	132.1	162.5
60°	9.1	10.6	16.7	41.0	50.1	60.7	77.4	94.1	106.3	127.5
62.5°	1.5	1.5	3.0	9.1	28.8	42.5	56.2	66.8	77.4	97.2
65°	0.0	0.0	1.5	3.0	7.6	24.3	30.4	39.5	53.1	69.8
67.5°	0.0	0.0	1.5	3.0	4.6	9.1	13.7	24.3	30.4	47.1
70°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	10.6	18.2	28.8
72.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	9.1	9.1	18.2
75°	0.0	0.0	1.5	3.0	4.6	7.6	9.1	9.1	7.6	7.6
77.5°	0.0	0.0	1.5	3.0	6.1	9.1	10.6	9.1	6.1	6.1
80°	0.0	0.0	3.0	4.6	7.6	10.6	13.7	10.6	6.1	3.0
82.5°	0.0	0.0	3.0	6.1	7.6	12.1	16.7	13.7	6.1	3.0
85°	0.0	0.0	1.5	4.6	9.1	12.1	16.7	12.1	6.1	1.5
87.5°	0.0	0.0	1.5	1.5	3.0	4.6	9.1	7.6	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°
47641.4	0°	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4	47641.4
46501.0	2.5°	46768.3	47011.2	47061.3	46994.5	47091.7	46917.1	46783.5	46437.3	46229.3
43552.3	5°	43833.2	43796.8	44050.3	44133.9	44123.2	43989.6	43802.8	43593.3	43389.8
39003.2	7.5°	39246.1	39293.2	39524.0	39671.3	39596.9	39429.9	39300.8	39142.9	39006.2
34056.2	10°	34367.5	34044.1	34331.1	34331.1	34530.0	34057.7	34101.8	33704.0	33722.2
28371.3	12.5°	28468.5	28585.4	28632.5	28767.6	28535.3	28284.8	27978.1	27917.3	27727.5
21204.5	15°	21509.7	21843.7	21556.7	22047.2	21810.3	21549.2	21502.1	21031.4	21180.2
15379.9	17.5°	15304.0	15672.9	15788.3	16069.2	15853.6	15698.8	15502.9	15360.1	15349.5
10767.0	20°	10852.0	11222.5	11307.5	11644.6	11620.3	11571.7	11406.2	11225.5	11029.7
7329.3	22.5°	7440.2	7742.3	8024.8	8478.8	8471.2	8328.4	8311.7	8056.6	8061.2
4951.5	25°	5003.1	5223.3	5290.1	5754.7	5806.4	5791.2	5704.6	5467.8	5557.3
3024.7	27.5°	3027.7	3220.5	3446.8	3610.8	3765.6	3741.3	3654.8	3522.7	3465.0
1817.5	30°	1866.1	1952.7	2036.2	2233.6	2326.2	2374.8	2333.8	2210.8	2219.9
1196.5	32.5°	1222.3	1295.2	1355.9	1480.4	1529.0	1618.6	1601.9	1576.1	1545.7
860.9	35°	891.3	944.4	985.4	1043.1	1105.4	1181.3	1193.5	1182.8	1170.7
665.1	37.5°	680.2	734.9	782.0	806.3	854.9	914.1	947.5	946.0	936.9
542.1	40°	552.7	593.7	636.2	668.1	701.5	745.5	786.5	791.1	791.1
455.5	42.5°	461.6	496.5	539.0	572.4	596.7	637.7	680.2	683.3	680.2
385.7	45°	394.8	425.2	466.1	505.6	525.4	555.7	596.7	605.8	599.8
331.0	47.5°	343.2	370.5	405.4	447.9	469.2	496.5	534.5	545.1	543.6
285.5	50°	294.6	326.5	361.4	396.3	423.6	449.4	485.9	498.0	493.5
242.9	52.5°	259.6	288.5	318.9	356.8	388.7	411.5	440.3	461.6	455.5
205.0	55°	217.1	252.1	283.9	315.8	355.3	379.6	406.9	432.7	426.7
173.1	57.5°	188.3	217.1	253.6	282.4	321.9	350.8	378.1	405.4	403.9
141.2	60°	157.9	188.3	223.2	253.6	290.0	321.9	349.2	379.6	382.6
106.3	62.5°	124.5	161.0	191.3	226.2	262.7	297.6	321.9	352.3	356.8
80.5	65°	94.1	132.1	165.5	198.9	235.4	273.3	294.6	320.4	324.9
59.2	67.5°	69.8	101.7	141.2	171.6	209.5	246.0	265.7	287.0	294.6
36.4	70°	53.1	77.4	118.4	147.3	186.8	215.6	236.9	255.1	261.2
24.3	72.5°	33.4	60.7	95.7	126.0	161.0	186.8	201.9	212.6	221.7
13.7	75°	22.8	47.1	77.4	107.8	133.6	153.4	167.0	176.1	183.7
6.1	77.5°	13.7	36.4	63.8	89.6	106.3	121.5	135.1	141.2	145.8
4.6	80°	7.6	27.3	53.1	72.9	83.5	94.1	104.8	112.4	115.4
3.0	82.5°	4.6	21.3	42.5	56.2	60.7	71.4	82.0	86.5	86.5
1.5	85°	3.0	15.2	28.8	41.0	44.0	51.6	54.7	57.7	60.7
1.5	87.5°	3.0	9.1	18.2	22.8	24.3	27.3	28.8	31.9	34.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
47641.4
46075.9
43162.1
38543.1
33544.5
27554.4
21031.4
15067.1
10944.6
7973.1
5416.1
3414.9
2180.4
1535.1
1166.1
932.3
782.0
677.2
599.8
540.6
490.4
454.0
429.7
405.4
384.2
359.9
329.5
297.6
264.2
220.2
182.2
144.2
112.4
85.0
59.2
33.4
0.0

(END OF REPORT)