

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: P636570

Luminaire Tested: **IFLD-S-SA3C-927-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636570  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-927-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10677.4 lumens  
Efficiency: N/A  
Efficacy: 66.4 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

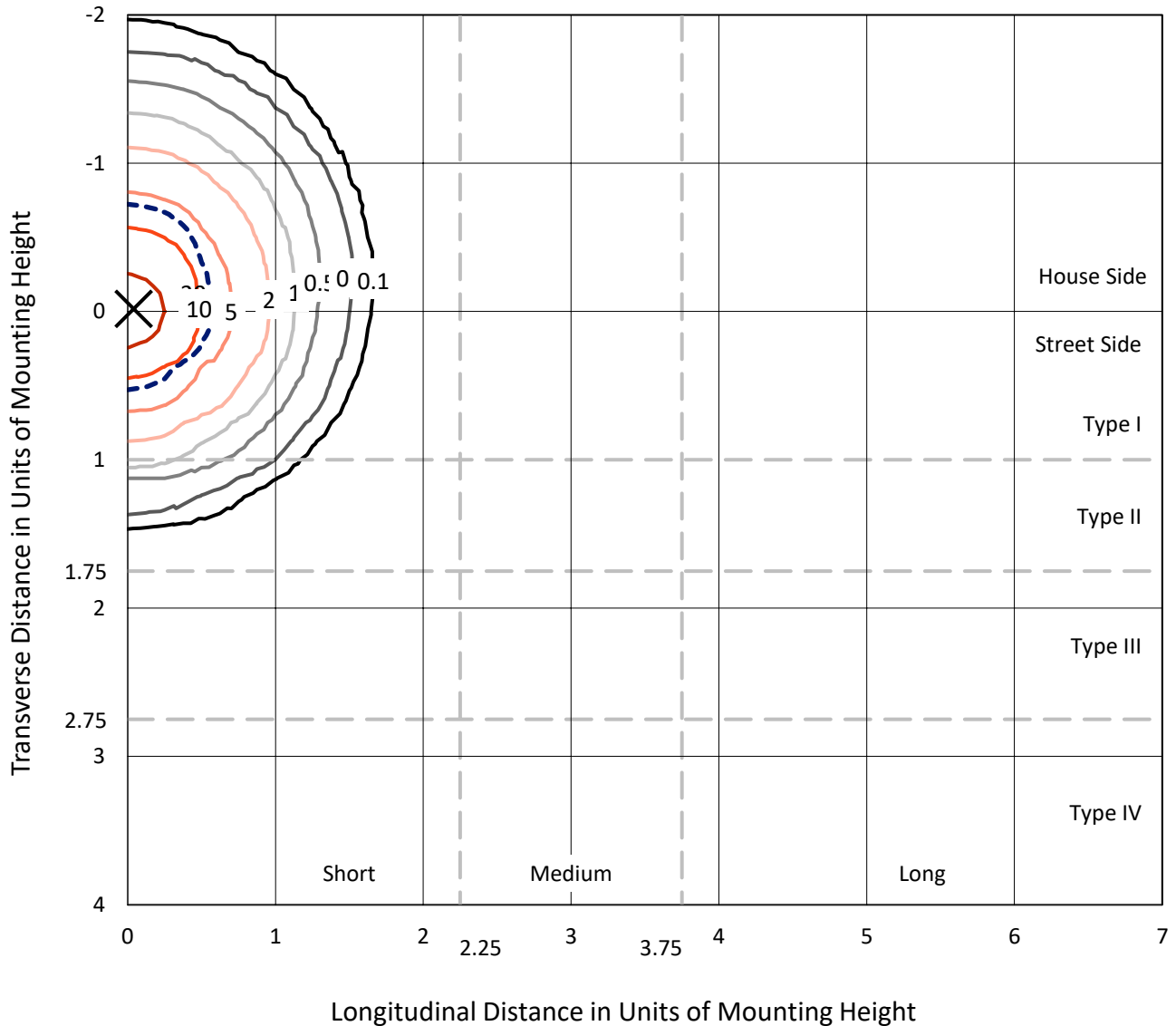
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

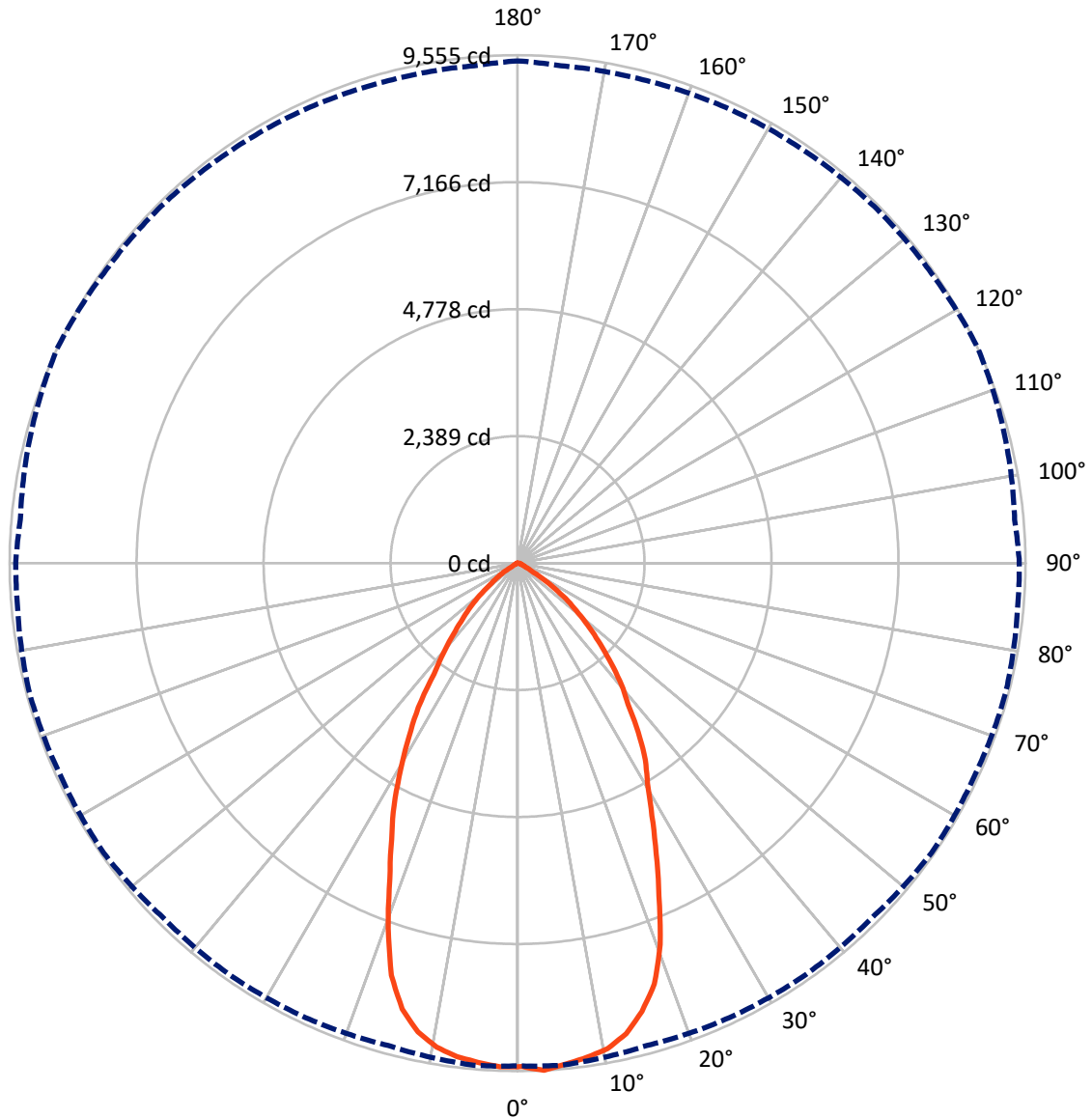
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.7 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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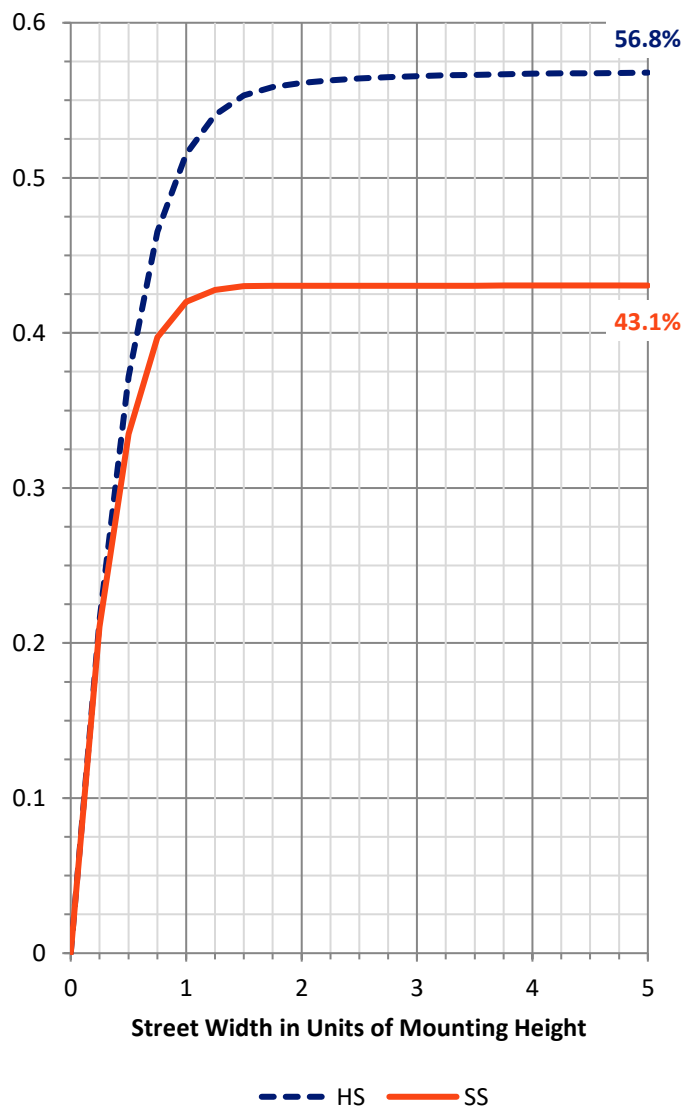
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6110.5	0.0	6110.5
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	4566.9	0.0	4566.9
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	10677.4	0.0	10677.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	892.3	8.4
10°-20°	2365.9	22.2
20°-30°	2706.1	25.3
30°-40°	2319.0	21.7
40°-50°	1533.4	14.4
50°-60°	669.1	6.3
60°-70°	131.5	1.2
70°-80°	47.4	0.4
80°-90°	12.6	0.1
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°	10677.4	100.0
0°-180°	10677.4	100.0



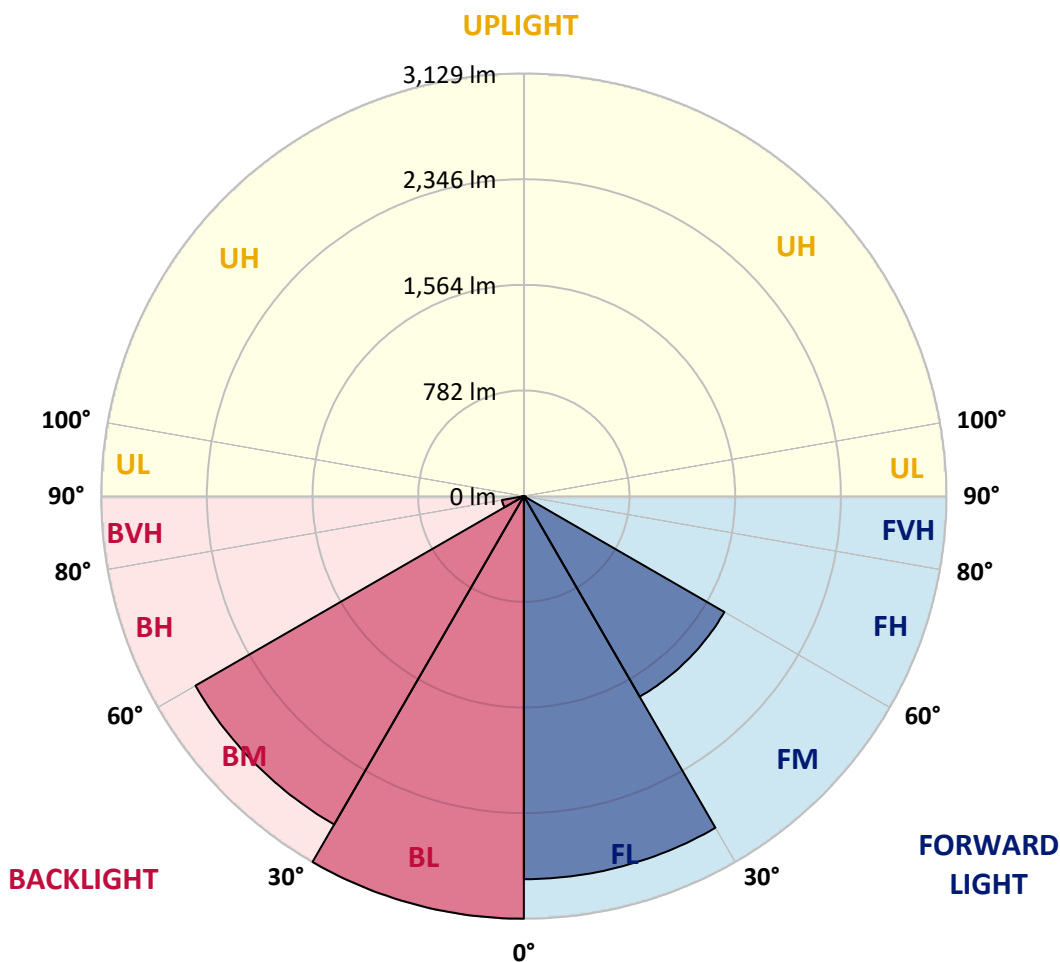
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2835.7	26.6			
FM (30°-60°)	1714.6	16.1			
FH (60°-80°)	14.5	0.1			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	3128.6	29.3	B4/5000		
BM (30°-60°)	2807.1	26.3	B3/5000		
BH (60°-80°)	164.4	1.5	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			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°	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6
2.5°	9459.9	9482.6	9396.4	9435.0	9450.9	9430.4	9505.3	9482.6	9500.8	9444.1
5°	9459.9	9482.6	9382.8	9400.9	9405.5	9366.9	9448.6	9421.4	9423.6	9364.6
7.5°	9400.9	9428.2	9337.4	9351.0	9353.3	9321.5	9391.9	9353.3	9339.7	9278.4
10°	9242.1	9257.9	9176.2	9210.3	9242.1	9212.6	9273.8	9230.7	9230.7	9176.2
12.5°	8990.1	9019.6	8928.8	8969.7	8996.9	8962.9	9033.3	9017.4	9019.6	8965.2
15°	8531.7	8429.5	8538.5	8620.2	8622.4	8615.6	8681.5	8665.6	8676.9	8595.2
17.5°	6302.8	6277.9	6405.0	7369.6	8086.8	8184.4	8195.7	8109.5	8070.9	7991.5
20°	5839.8	5858.0	5830.8	5835.3	6400.4	7573.9	7503.5	7290.2	7192.6	7113.1
22.5°	5501.7	5472.2	5454.0	5442.6	5458.5	6223.4	6729.5	6407.3	6355.1	6316.5
25°	5134.0	5120.4	5097.7	5093.1	5084.0	4954.7	5683.2	5712.7	5628.8	5581.1
27.5°	4791.3	4782.2	4757.2	4754.9	4650.5	4337.3	4416.8	5118.1	5095.4	5077.2
30°	4425.8	4407.7	4394.1	4394.1	4078.6	3756.3	3626.9	4462.2	4462.2	4446.3
32.5°	4028.6	4012.8	4017.3	3962.8	3586.1	3291.0	3086.7	3851.6	4089.9	4076.3
35°	2462.6	2458.0	2918.8	3524.8	3082.2	2814.4	2800.8	3295.5	3642.8	3679.1
37.5°	2192.5	2178.9	2185.7	2224.3	2639.6	2532.9	2528.4	2612.4	3100.4	3118.5
40°	1967.8	1958.7	1951.9	1813.5	1681.8	2260.6	2244.7	2190.2	2648.7	2680.5
42.5°	1754.4	1745.4	1745.4	1550.2	1336.8	1858.9	1865.7	1802.1	2233.3	2244.7
45°	1534.3	1527.5	1488.9	1237.0	1175.7	1234.7	1545.6	1473.0	1772.6	1890.6
47.5°	724.0	719.5	1041.8	1028.2	1023.6	987.3	1180.2	1221.1	1407.2	1525.2
50°	581.0	576.5	549.3	483.4	842.0	749.0	851.1	939.6	998.7	1107.6
52.5°	481.2	476.6	419.9	372.2	467.6	547.0	508.4	628.7	626.4	744.4
55°	315.5	292.8	322.3	304.1	245.1	397.2	388.1	476.6	465.3	567.4
57.5°	6.8	6.8	15.9	172.5	154.3	168.0	222.4	272.4	306.4	335.9
60°	2.3	2.3	4.5	9.1	63.6	70.4	86.2	99.9	140.7	174.8
62.5°	0.0	0.0	2.3	4.5	9.1	36.3	40.9	47.7	65.8	90.8
65°	0.0	0.0	0.0	2.3	4.5	9.1	13.6	29.5	40.9	52.2
67.5°	0.0	0.0	0.0	2.3	2.3	4.5	9.1	13.6	18.2	36.3
70°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	9.1	13.6	18.2
72.5°	0.0	0.0	0.0	2.3	2.3	6.8	4.5	6.8	9.1	11.3
75°	0.0	0.0	0.0	2.3	2.3	2.3	4.5	6.8	6.8	9.1
77.5°	0.0	0.0	0.0	2.3	4.5	4.5	4.5	4.5	4.5	6.8
80°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	9.1	4.5	4.5
82.5°	0.0	0.0	0.0	4.5	2.3	9.1	13.6	11.3	4.5	2.3
85°	0.0	0.0	0.0	2.3	9.1	11.3	11.3	6.8	2.3	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	6.8	6.8	2.3	2.3
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°
9473.6	0°	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6	9473.6
9439.5	2.5°	9387.3	9475.8	9555.3	9505.3	9487.2	9450.9	9423.6	9394.1	9391.9
9357.8	5°	9305.6	9389.6	9466.8	9407.7	9412.3	9394.1	9376.0	9369.2	9373.7
9273.8	7.5°	9235.3	9305.6	9389.6	9339.7	9353.3	9341.9	9332.8	9319.2	9339.7
9164.9	10°	9128.6	9192.1	9289.7	9242.1	9235.3	9223.9	9214.8	9189.9	9201.2
8967.4	12.5°	8894.8	8974.2	9085.5	9031.0	9049.1	9017.4	9003.7	8987.9	8990.1
8624.7	15°	8577.1	8638.3	8751.8	8708.7	8722.3	8701.9	8701.9	8701.9	8717.8
8002.8	17.5°	8023.3	8148.1	8327.4	8272.9	8293.3	8297.9	8293.3	8309.2	8329.7
7117.7	20°	7122.2	7335.5	7662.4	7769.1	7812.2	7814.4	7782.7	7821.3	7862.1
6289.2	22.5°	6293.8	6518.5	6806.7	7099.5	7281.1	7272.0	7276.5	7301.5	7344.6
5551.6	25°	5576.6	5792.2	6053.2	6314.2	6711.4	6793.1	6795.4	6818.1	6852.1
5047.7	27.5°	5059.1	5143.1	5381.4	5644.6	6071.3	6332.4	6318.7	6339.2	6375.5
4416.8	30°	4434.9	4757.2	4811.7	4972.8	5340.5	5819.4	5821.7	5844.4	5880.7
4044.5	32.5°	4033.2	4246.5	4414.5	4419.0	4732.2	5224.8	5322.4	5345.1	5370.0
3658.7	35°	3656.4	3681.4	3908.4	3971.9	4153.5	4641.5	4814.0	4827.6	4868.4
3111.7	37.5°	3163.9	3311.4	3375.0	3602.0	3611.0	4006.0	4348.7	4335.1	4366.8
2678.2	40°	2712.2	2853.0	3014.1	3179.8	3202.5	3497.5	3876.6	3890.2	3903.8
2222.0	42.5°	2240.2	2419.5	2585.1	2696.4	2850.7	3020.9	3381.8	3445.3	3477.1
1904.2	45°	1938.3	1988.2	2185.7	2349.1	2505.7	2585.1	2923.3	3039.1	3059.5
1507.1	47.5°	1527.5	1695.4	1829.3	1967.8	2163.0	2233.3	2478.5	2639.6	2655.5
1118.9	50°	1180.2	1300.5	1484.4	1609.2	1836.2	1874.7	2042.7	2251.5	2271.9
749.0	52.5°	844.3	1007.7	1187.0	1307.3	1525.2	1575.1	1700.0	1899.7	1913.3
574.2	55°	606.0	712.7	860.2	1032.7	1191.6	1302.8	1389.0	1579.7	1597.8
376.8	57.5°	413.1	512.9	574.2	746.7	842.0	962.3	1032.7	1178.0	1191.6
179.3	60°	197.5	245.1	292.8	379.0	440.3	542.4	587.8	646.9	662.7
108.9	62.5°	127.1	149.8	190.7	227.0	286.0	349.5	367.7	417.6	435.8
68.1	65°	84.0	106.7	149.8	158.9	217.9	267.8	290.5	326.8	347.3
40.9	67.5°	47.7	74.9	111.2	131.6	172.5	220.2	245.1	276.9	295.1
27.2	70°	31.8	61.3	88.5	108.9	136.2	177.0	208.8	236.0	247.4
13.6	72.5°	18.2	38.6	61.3	86.2	108.9	147.5	177.0	199.7	131.6
9.1	75°	11.3	29.5	52.2	72.6	90.8	118.0	143.0	140.7	59.0
6.8	77.5°	9.1	22.7	45.4	61.3	74.9	81.7	102.1	115.8	45.4
4.5	80°	6.8	18.2	40.9	52.2	29.5	59.0	79.4	86.2	31.8
4.5	82.5°	4.5	11.3	34.0	36.3	20.4	43.1	63.6	56.7	22.7
2.3	85°	2.3	6.8	11.3	20.4	18.2	20.4	15.9	22.7	15.9
2.3	87.5°	2.3	4.5	9.1	9.1	9.1	6.8	9.1	9.1	9.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9473.6
9446.3
9430.4
9396.4
9255.7
9055.9
8724.6
8397.7
7889.3
7351.4
6911.1
6409.5
5944.2
5426.8
4911.5
4405.4
3946.9
3522.5
3109.4
2694.1
2301.4
1938.3
1613.7
1218.8
680.9
440.3
347.3
292.8
245.1
106.7
59.0
45.4
34.0
22.7
15.9
9.1
0.0

(END OF REPORT)