

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: P638247

Luminaire Tested: **IFLD-S-SA2C-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638247  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8036.6 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

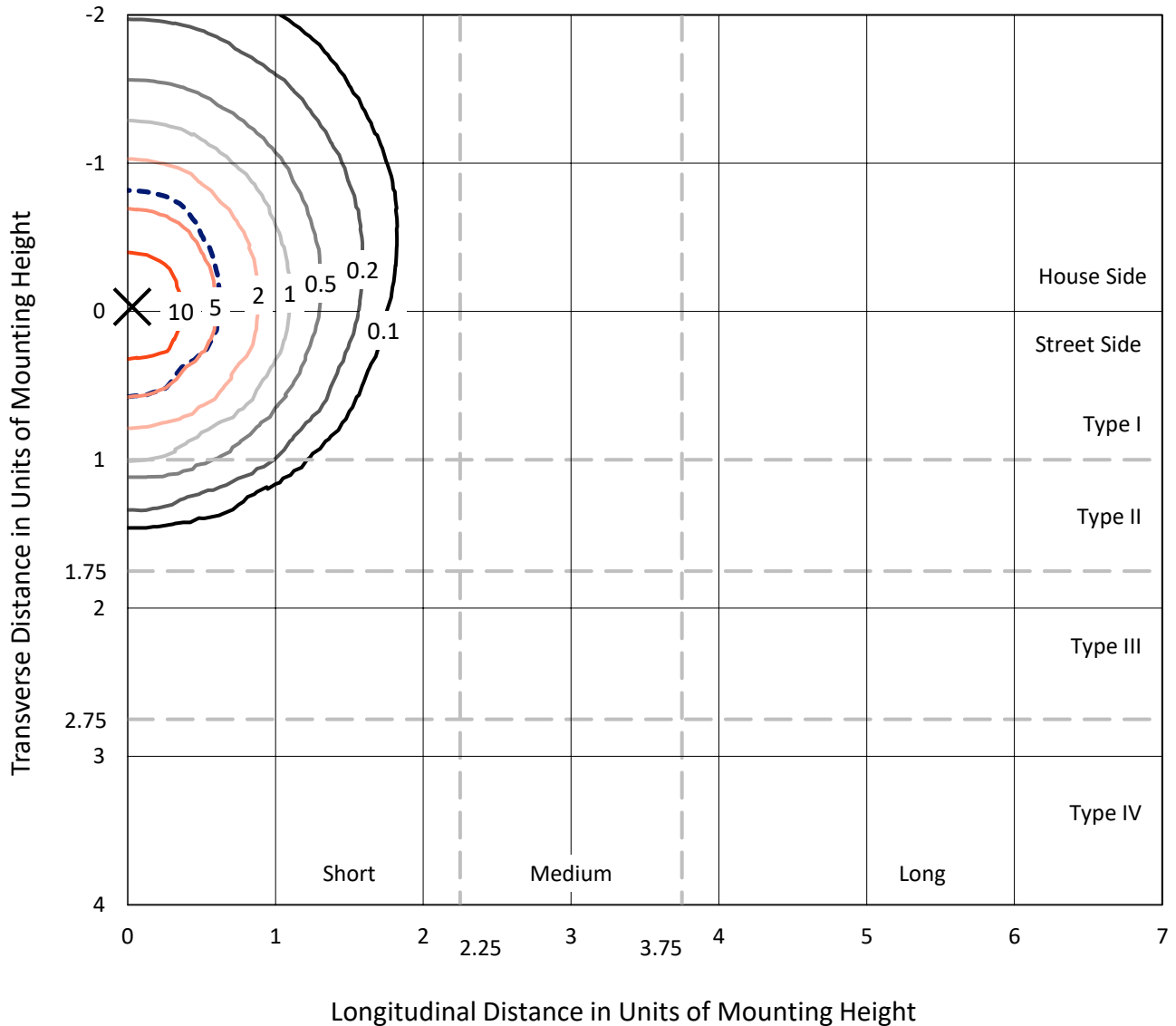
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638247  
 CATALOG NUMBER: IFLD-S-SA2C-827-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

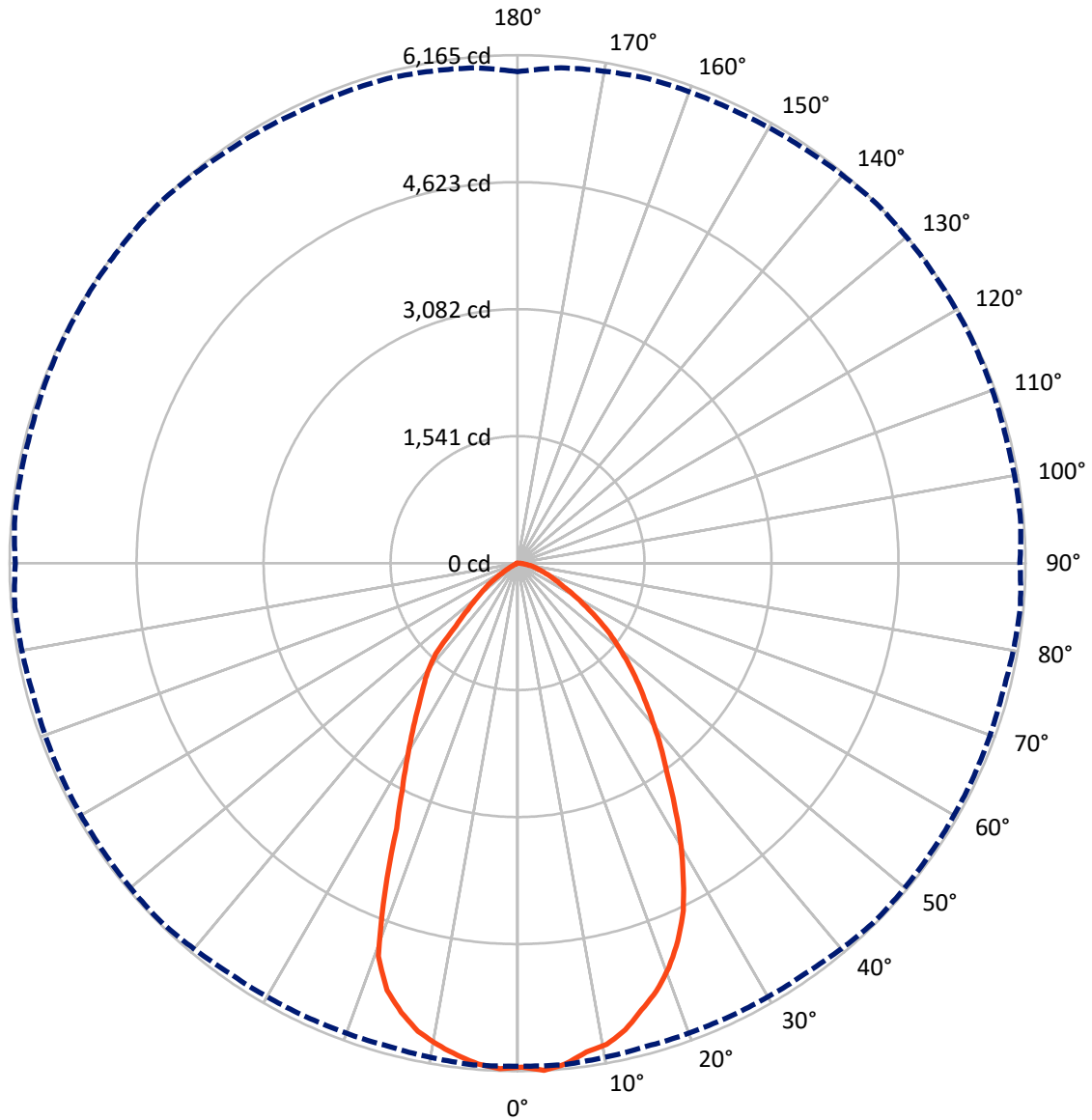
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.3 fc  
 Type I - Short - N/A

REPORT NUMBER: P638247  
CATALOG NUMBER: IFLD-S-SA2C-827-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638247

CATALOG NUMBER: IFLD-S-SA2C-827-U-77-VI

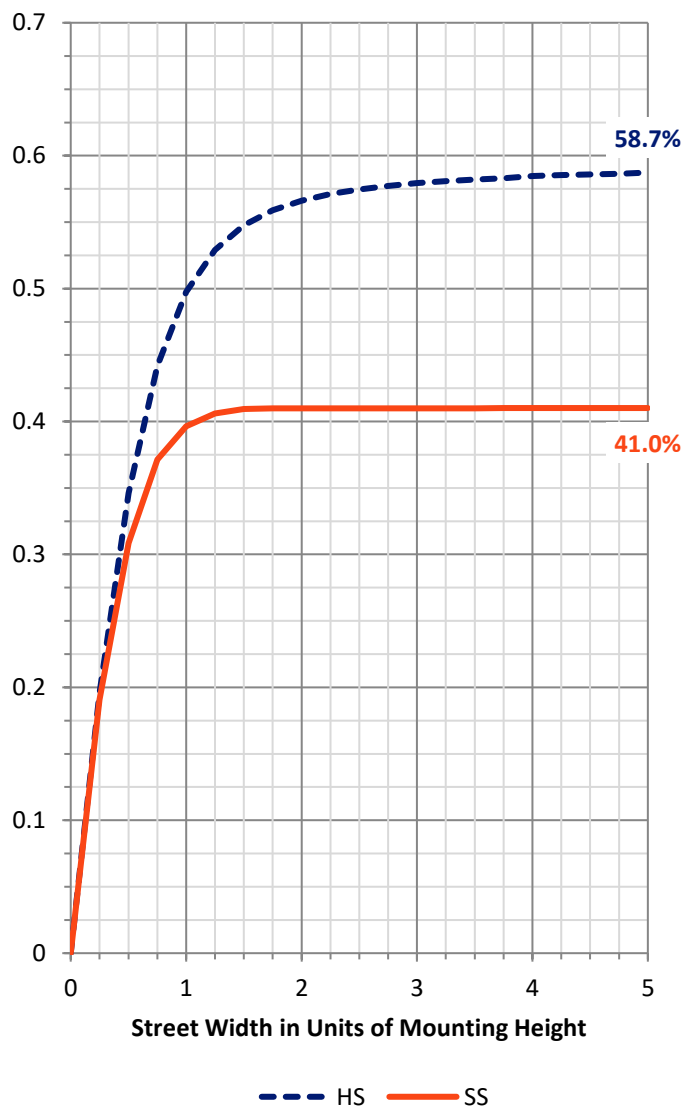
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4759.7	0.0	4759.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3276.9	0.0	3276.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	8036.6	0.0	8036.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.6	7.1
10°-20°	1538.1	19.1
20°-30°	1875.8	23.3
30°-40°	1712.5	21.3
40°-50°	1237.6	15.4
50°-60°	675.7	8.4
60°-70°	279.4	3.5
70°-80°	113.2	1.4
80°-90°	30.8	0.4
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°	8036.6	100.0
0°-180°	8036.6	100.0



REPORT NUMBER: P638247

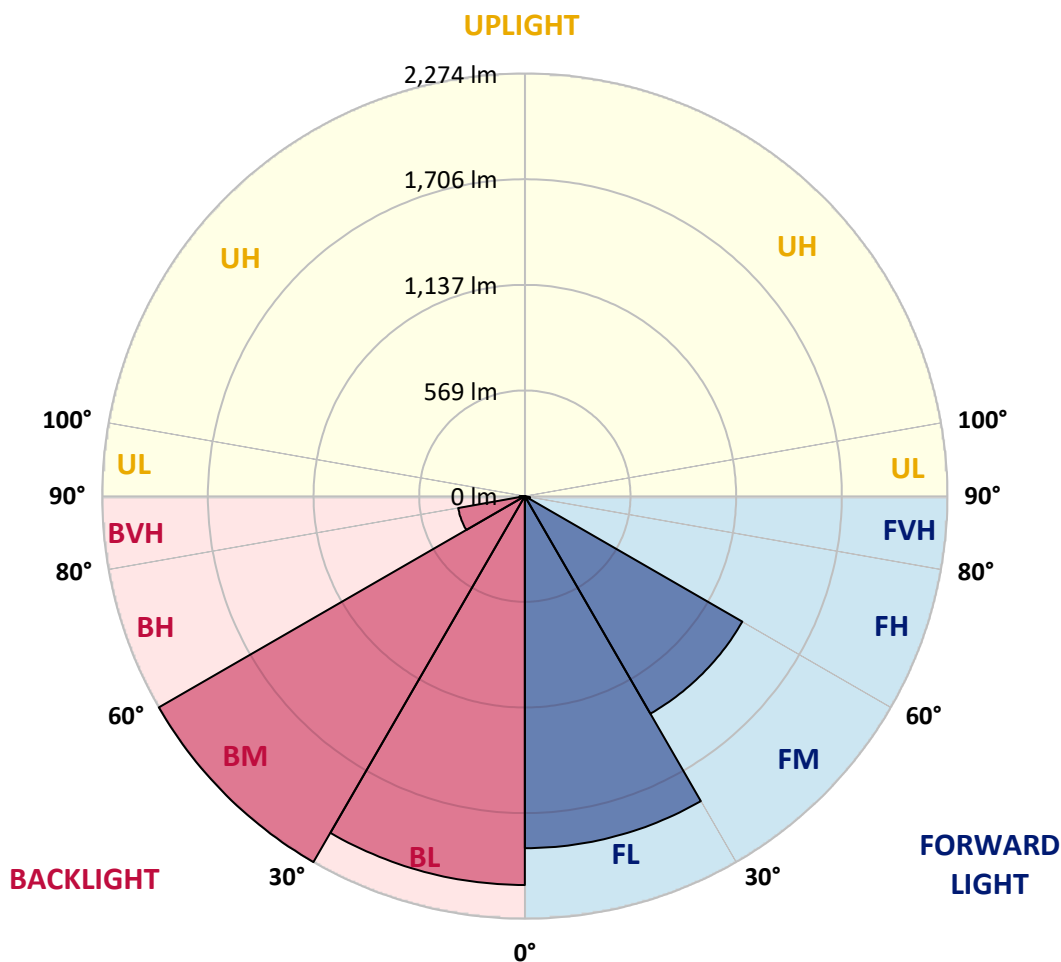
CATALOG NUMBER: IFLD-S-SA2C-827-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.5	23.6			
FM (30°-60°)	1351.6	16.8			
FH (60°-80°)	28.3	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	2092.9	26.0	B3/2500		
BM (30°-60°)	2274.3	28.3	B2/2500		
BH (60°-80°)	364.2	4.5	B1/500		G1/500
BVH (80°-90°)	28.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





REPORT NUMBER: P638247  
 CATALOG NUMBER: IFLD-S-SA2C-827-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9
2.5°	6104.5	6112.5	6069.5	6074.0	6081.9	6139.6	6124.9	6111.3	6092.1	6124.9
5°	6096.6	6101.2	6055.9	6040.0	6046.8	6098.9	6051.4	6051.4	6046.8	6041.2
7.5°	6035.5	6037.8	6002.7	5974.4	5992.5	6016.3	5981.2	5998.2	5973.3	5992.5
10°	5943.8	5929.1	5887.3	5879.3	5899.7	5922.3	5898.6	5914.4	5891.8	5906.5
12.5°	5809.2	5786.5	5752.6	5742.4	5777.5	5808.0	5788.8	5779.7	5750.3	5786.5
15°	5289.7	5272.7	5349.7	5484.4	5605.5	5631.5	5611.1	5620.2	5559.1	5569.2
17.5°	4353.8	4322.1	4404.7	4723.8	5178.8	5418.7	5400.6	5341.8	5251.2	5271.6
20°	3956.5	3947.5	3938.4	4014.2	4332.3	5060.0	5084.9	4935.5	4806.5	4778.2
22.5°	3732.4	3729.0	3720.0	3737.0	3820.7	4288.1	4573.3	4435.2	4349.2	4341.3
25°	3527.6	3521.9	3494.8	3516.3	3516.3	3543.4	3909.0	3992.7	3916.9	3907.9
27.5°	3319.4	3309.2	3304.6	3314.8	3262.8	3079.4	3172.2	3580.8	3541.2	3543.4
30°	3094.1	3090.8	3078.3	3099.8	2939.1	2711.6	2652.8	3207.3	3215.2	3213.0
32.5°	2759.2	2773.9	2830.5	2854.2	2589.4	2401.5	2303.1	2775.0	2936.8	2933.4
35°	2004.3	2004.3	2188.8	2531.7	2269.1	2127.7	2074.5	2352.9	2661.8	2673.1
37.5°	1647.8	1653.5	1689.7	1845.8	1957.9	1908.1	1892.3	1980.5	2308.7	2326.8
40°	1482.6	1482.6	1482.6	1418.1	1414.7	1719.1	1710.0	1681.7	1994.1	2033.7
42.5°	1332.0	1335.4	1337.7	1174.7	1084.2	1486.0	1465.6	1422.6	1712.3	1758.7
45°	1177.0	1182.7	1189.4	982.3	942.7	1069.5	1240.4	1192.8	1433.9	1493.9
47.5°	718.6	727.7	881.6	833.0	837.5	825.0	1011.8	1003.8	1175.9	1260.7
50°	485.5	488.9	503.6	528.5	718.6	648.5	716.4	830.7	892.9	1022.0
52.5°	407.4	413.1	376.9	342.9	471.9	507.0	500.2	616.8	641.7	801.3
55°	286.3	304.4	287.5	284.1	268.2	393.8	379.1	474.2	490.0	608.9
57.5°	29.4	34.0	58.8	211.6	175.4	223.0	270.5	347.4	363.3	449.3
60°	2.3	2.3	5.7	29.4	127.9	133.5	186.7	213.9	244.5	313.5
62.5°	0.0	1.1	2.3	4.5	20.4	71.3	93.9	112.0	147.1	202.6
65°	0.0	0.0	1.1	3.4	4.5	27.2	36.2	58.8	80.4	125.6
67.5°	0.0	0.0	1.1	2.3	3.4	6.8	12.4	21.5	43.0	71.3
70°	0.0	0.0	1.1	2.3	3.4	5.7	9.1	13.6	19.2	38.5
72.5°	0.0	0.0	1.1	1.1	2.3	5.7	6.8	9.1	13.6	19.2
75°	0.0	0.0	1.1	1.1	3.4	6.8	5.7	6.8	9.1	12.4
77.5°	0.0	0.0	1.1	2.3	3.4	6.8	5.7	6.8	6.8	7.9
80°	0.0	0.0	1.1	2.3	4.5	7.9	6.8	6.8	5.7	5.7
82.5°	0.0	0.0	1.1	3.4	4.5	10.2	10.2	9.1	4.5	3.4
85°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	9.1	3.4	2.3
87.5°	0.0	0.0	2.3	3.4	5.7	7.9	11.3	9.1	3.4	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638247  
 CATALOG NUMBER: IFLD-S-SA2C-827-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6115.9	0°	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9	6115.9
6096.6	2.5°	6127.2	6120.4	6143.0	6152.1	6164.5	6117.0	6087.6	6088.7	6034.4
6027.6	5°	6063.8	6064.9	6094.4	6092.1	6104.5	6078.5	6067.2	6048.0	6000.4
5940.4	7.5°	5983.5	5973.3	6001.6	6023.1	5991.4	6009.5	5983.5	5992.5	5964.2
5863.5	10°	5921.2	5897.4	5923.5	5938.2	5939.3	5921.2	5896.3	5872.5	5862.4
5743.5	12.5°	5783.1	5752.6	5796.7	5817.1	5813.7	5778.6	5750.3	5756.0	5723.2
5533.0	15°	5593.0	5594.1	5625.8	5645.1	5627.0	5619.0	5621.3	5607.7	5579.4
5242.2	17.5°	5302.1	5319.1	5402.9	5449.3	5459.5	5443.6	5435.7	5419.8	5391.6
4778.2	20°	4817.8	4919.6	5069.0	5212.7	5241.0	5236.5	5208.2	5201.4	5185.6
4318.7	22.5°	4392.2	4468.1	4641.2	4865.3	4980.7	4992.1	4958.1	4947.9	4930.9
3907.9	25°	3952.0	4033.5	4189.7	4433.0	4671.8	4720.4	4714.8	4684.2	4666.1
3543.4	27.5°	3580.8	3662.3	3803.7	4023.3	4279.1	4435.2	4450.0	4401.3	4400.2
3218.6	30°	3245.8	3357.8	3465.4	3644.2	3892.0	4126.3	4151.2	4117.2	4120.6
2921.0	32.5°	2983.2	3076.0	3167.7	3287.7	3493.6	3766.4	3863.7	3832.0	3819.6
2673.1	35°	2715.0	2778.4	2872.3	2982.1	3122.4	3392.9	3561.6	3537.8	3525.3
2338.2	37.5°	2409.5	2518.1	2586.0	2709.4	2819.1	3034.2	3271.8	3268.4	3242.4
2053.0	40°	2096.0	2210.3	2313.3	2437.7	2522.6	2693.5	2957.2	2956.1	2959.5
1757.6	42.5°	1811.9	1917.1	2041.6	2177.4	2258.9	2383.4	2666.4	2682.2	2701.4
1514.3	45°	1555.0	1650.1	1765.5	1930.7	2029.2	2100.5	2351.7	2424.2	2423.0
1297.0	47.5°	1324.1	1413.5	1510.9	1671.6	1797.2	1861.7	2069.9	2172.9	2166.1
1063.8	50°	1111.4	1190.6	1292.4	1409.0	1577.6	1634.2	1789.3	1925.1	1914.9
847.7	52.5°	894.1	1003.8	1089.9	1196.2	1373.9	1429.4	1549.3	1681.7	1673.8
636.0	55°	697.1	803.5	907.6	999.3	1148.7	1231.3	1317.3	1453.1	1450.9
498.0	57.5°	527.4	644.0	742.4	829.6	948.4	1050.2	1119.3	1242.6	1258.5
340.7	60°	390.4	479.9	586.2	683.6	777.5	882.7	929.1	1050.2	1057.0
233.1	62.5°	266.0	364.4	468.5	556.8	627.0	735.6	777.5	877.1	889.5
149.4	65°	184.5	247.8	366.7	430.1	516.1	608.9	650.7	730.0	754.9
86.0	67.5°	122.2	176.5	286.3	344.0	428.9	492.3	545.5	610.0	637.2
54.3	70°	66.8	130.1	204.8	271.6	345.2	406.3	458.4	510.4	534.2
24.9	72.5°	45.3	87.1	142.6	215.0	278.4	338.4	384.8	423.3	424.4
14.7	75°	22.6	58.8	108.6	166.4	217.3	276.1	318.0	340.7	313.5
9.1	77.5°	13.6	43.0	88.3	133.5	176.5	223.0	246.7	259.2	215.0
6.8	80°	7.9	30.6	69.0	106.4	122.2	164.1	186.7	190.1	143.7
4.5	82.5°	5.7	22.6	54.3	78.1	74.7	115.4	140.3	135.8	91.7
3.4	85°	3.4	15.8	34.0	48.7	45.3	75.8	81.5	83.7	53.2
2.3	87.5°	2.3	9.1	18.1	26.0	21.5	32.8	32.8	39.6	26.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6115.9
5964.2
5989.1
5916.7
5817.1
5694.9
5551.1
5379.1
5149.4
4926.4
4646.9
4397.9
4103.6
3820.7
3508.4
3263.9
2959.5
2691.3
2425.3
2168.4
1923.9
1690.8
1456.5
1251.7
1067.2
891.8
749.2
633.8
525.1
414.2
293.1
207.1
134.7
84.9
48.7
22.6
0.0

(END OF REPORT)