

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: P636654

Luminaire Tested: **IFLD-S-SA2E-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636654
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10413.3 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

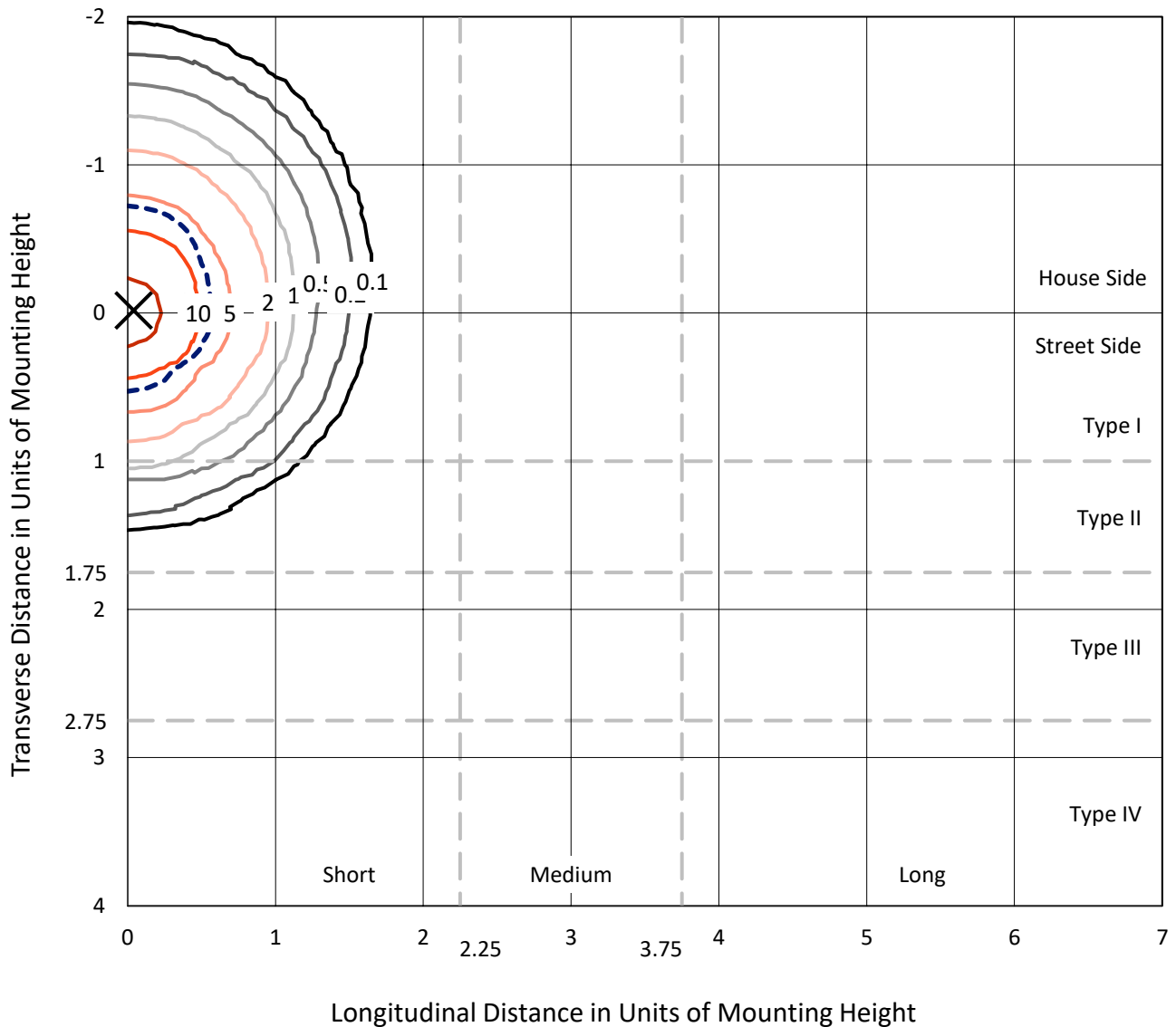
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

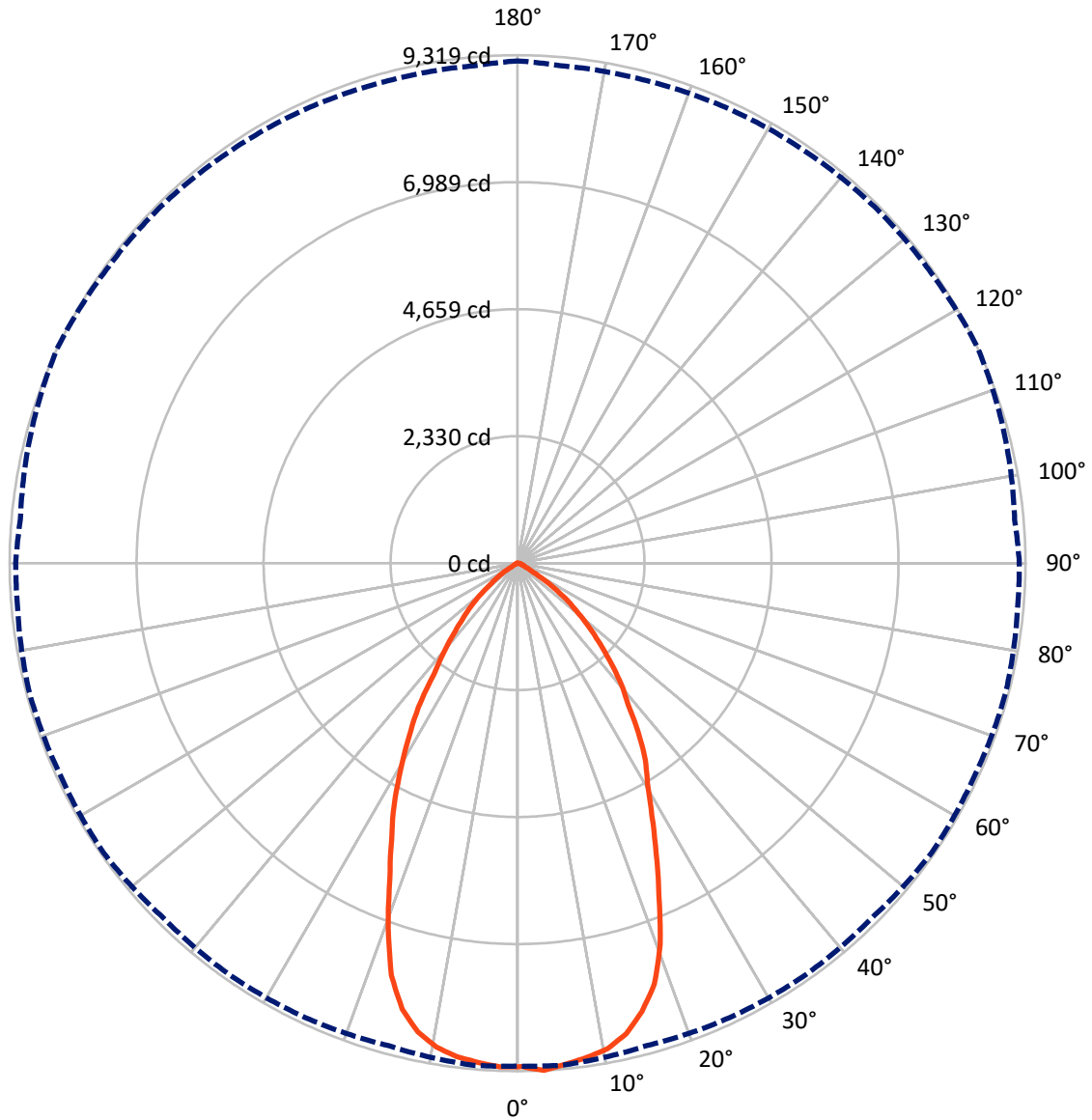
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.1 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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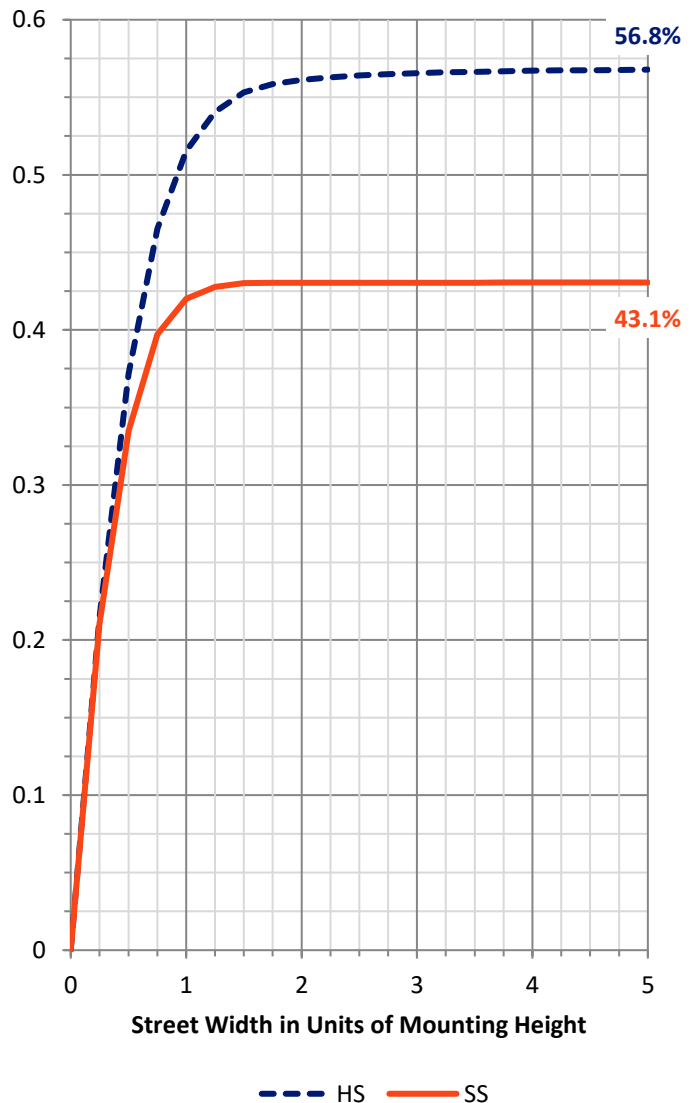
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5959.4	0.0	5959.4
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	4453.9	0.0	4453.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	10413.3	0.0	10413.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.2	8.4
10°-20°	2307.4	22.2
20°-30°	2639.2	25.3
30°-40°	2261.7	21.7
40°-50°	1495.5	14.4
50°-60°	652.6	6.3
60°-70°	128.2	1.2
70°-80°	46.3	0.4
80°-90°	12.3	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°	10413.3	100.0
0°-180°	10413.3	100.0



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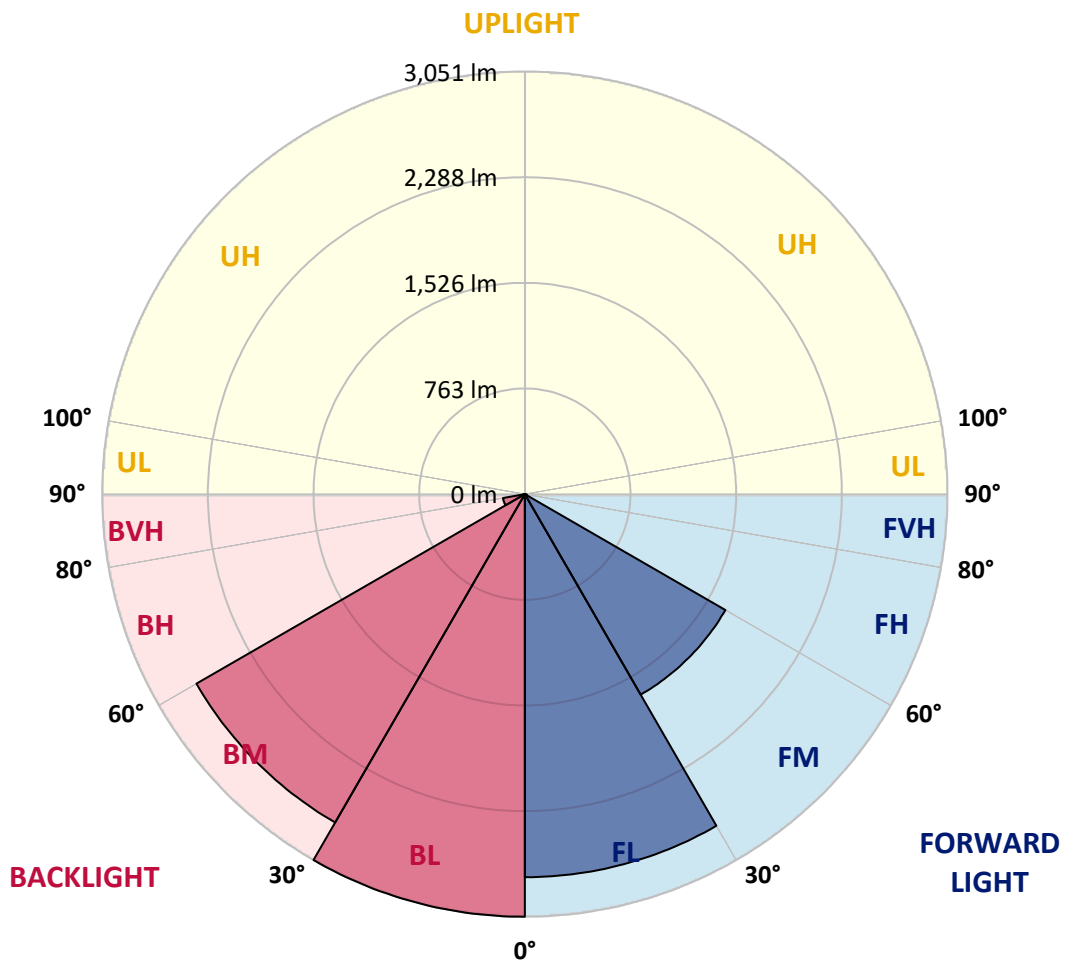
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2765.6	26.6			
FM (30°-60°)	1672.2	16.1			
FH (60°-80°)	14.2	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	3051.2	29.3	B4/5000		
BM (30°-60°)	2737.6	26.3	B3/5000		
BH (60°-80°)	160.3	1.5	B1/500		G1/500
BVH (80°-90°)	10.3	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°	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2
2.5°	9226.0	9248.1	9164.0	9201.6	9217.1	9197.2	9270.2	9248.1	9265.8	9210.5
5°	9226.0	9248.1	9150.7	9168.4	9172.8	9135.2	9214.9	9188.3	9190.5	9133.0
7.5°	9168.4	9195.0	9106.4	9119.7	9121.9	9090.9	9159.5	9121.9	9108.6	9048.9
10°	9013.5	9029.0	8949.3	8982.5	9013.5	8984.7	9044.4	9002.4	9002.4	8949.3
12.5°	8767.8	8796.5	8708.0	8747.8	8774.4	8741.2	8809.8	8794.3	8796.5	8743.4
15°	8320.6	8221.0	8327.3	8407.0	8409.2	8402.5	8466.7	8451.2	8462.3	8382.6
17.5°	6146.9	6122.6	6246.6	7187.3	7886.8	7982.0	7993.0	7908.9	7871.3	7793.8
20°	5695.4	5713.1	5686.5	5691.0	6242.1	7386.5	7317.9	7109.8	7014.6	6937.2
22.5°	5365.6	5336.8	5319.1	5308.0	5323.5	6069.5	6563.1	6248.8	6197.9	6160.2
25°	5007.0	4993.7	4971.6	4967.1	4958.3	4832.1	5542.7	5571.4	5489.5	5443.0
27.5°	4672.7	4663.9	4639.5	4637.3	4535.5	4230.0	4307.5	4991.5	4969.4	4951.6
30°	4316.4	4298.7	4285.4	4285.4	3977.7	3663.4	3537.2	4351.8	4351.8	4336.3
32.5°	3929.0	3913.5	3917.9	3864.8	3497.4	3209.6	3010.4	3756.3	3988.8	3975.5
35°	2401.7	2397.2	2846.6	3437.6	3006.0	2744.8	2731.5	3214.0	3552.7	3588.1
37.5°	2138.3	2125.0	2131.6	2169.3	2574.3	2470.3	2465.9	2547.8	3023.7	3041.4
40°	1919.1	1910.3	1903.6	1768.6	1640.2	2204.7	2189.2	2136.0	2583.2	2614.2
42.5°	1711.1	1702.2	1702.2	1511.8	1303.8	1812.9	1819.5	1757.5	2178.1	2189.2
45°	1496.3	1489.7	1452.1	1206.4	1146.6	1204.2	1507.4	1436.6	1728.8	1843.9
47.5°	706.1	701.7	1016.0	1002.7	998.3	962.9	1151.0	1190.9	1372.4	1487.5
50°	566.7	562.2	535.7	471.5	821.2	730.5	830.1	916.4	973.9	1080.2
52.5°	469.3	464.8	409.5	363.0	456.0	533.5	495.8	613.1	610.9	726.0
55°	307.7	285.5	314.3	296.6	239.1	387.4	378.5	464.8	453.8	553.4
57.5°	6.6	6.6	15.5	168.2	150.5	163.8	216.9	265.6	298.8	327.6
60°	2.2	2.2	4.4	8.9	62.0	68.6	84.1	97.4	137.2	170.4
62.5°	0.0	0.0	2.2	4.4	8.9	35.4	39.8	46.5	64.2	88.5
65°	0.0	0.0	0.0	2.2	4.4	8.9	13.3	28.8	39.8	50.9
67.5°	0.0	0.0	0.0	2.2	2.2	4.4	8.9	13.3	17.7	35.4
70°	0.0	0.0	0.0	2.2	2.2	4.4	6.6	8.9	13.3	17.7
72.5°	0.0	0.0	0.0	2.2	2.2	6.6	4.4	6.6	8.9	11.1
75°	0.0	0.0	0.0	2.2	2.2	2.2	4.4	6.6	6.6	8.9
77.5°	0.0	0.0	0.0	2.2	4.4	4.4	4.4	4.4	4.4	6.6
80°	0.0	0.0	0.0	2.2	2.2	4.4	6.6	8.9	4.4	4.4
82.5°	0.0	0.0	0.0	4.4	2.2	8.9	13.3	11.1	4.4	2.2
85°	0.0	0.0	0.0	2.2	8.9	11.1	11.1	6.6	2.2	2.2
87.5°	0.0	0.0	0.0	2.2	2.2	4.4	6.6	6.6	2.2	2.2
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°
9239.2	0°	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2	9239.2
9206.0	2.5°	9155.1	9241.4	9318.9	9270.2	9252.5	9217.1	9190.5	9161.8	9159.5
9126.3	5°	9075.4	9157.3	9232.6	9175.0	9179.5	9161.8	9144.1	9137.4	9141.8
9044.4	7.5°	9006.8	9075.4	9157.3	9108.6	9121.9	9110.9	9102.0	9088.7	9108.6
8938.2	10°	8902.8	8964.8	9059.9	9013.5	9006.8	8995.7	8986.9	8962.5	8973.6
8745.6	12.5°	8674.8	8752.3	8860.7	8807.6	8825.3	8794.3	8781.0	8765.5	8767.8
8411.4	15°	8364.9	8424.7	8535.3	8493.3	8506.6	8486.6	8486.6	8486.6	8502.1
7804.9	17.5°	7824.8	7946.5	8121.4	8068.3	8088.2	8092.6	8088.2	8103.7	8123.6
6941.6	20°	6946.0	7154.1	7472.8	7576.9	7618.9	7621.2	7590.2	7627.8	7667.6
6133.7	22.5°	6138.1	6357.2	6638.3	6923.9	7101.0	7092.1	7096.5	7120.9	7163.0
5414.3	25°	5438.6	5648.9	5903.5	6158.0	6545.4	6625.1	6627.3	6649.4	6682.6
4922.9	27.5°	4933.9	5015.8	5248.3	5505.0	5921.2	6175.7	6162.4	6182.4	6217.8
4307.5	30°	4325.2	4639.5	4692.7	4849.8	5208.4	5675.5	5677.7	5699.8	5735.2
3944.5	32.5°	3933.4	4141.5	4305.3	4309.7	4615.2	5095.5	5190.7	5212.8	5237.2
3568.2	35°	3566.0	3590.3	3811.7	3873.7	4050.7	4526.6	4694.9	4708.2	4748.0
3034.7	37.5°	3085.6	3229.5	3291.5	3512.9	3521.7	3906.9	4241.1	4227.8	4258.8
2612.0	40°	2645.2	2782.4	2939.6	3101.1	3123.3	3411.0	3780.7	3794.0	3807.3
2167.0	42.5°	2184.7	2359.6	2521.2	2629.7	2780.2	2946.2	3298.1	3360.1	3391.1
1857.1	45°	1890.3	1939.0	2131.6	2291.0	2443.7	2521.2	2851.0	2963.9	2983.8
1469.8	47.5°	1489.7	1653.5	1784.1	1919.1	2109.5	2178.1	2417.2	2574.3	2589.8
1091.3	50°	1151.0	1268.3	1447.6	1569.4	1790.7	1828.4	1992.2	2195.8	2215.7
730.5	52.5°	823.4	982.8	1157.7	1275.0	1487.5	1536.2	1657.9	1852.7	1866.0
560.0	55°	591.0	695.0	838.9	1007.2	1162.1	1270.6	1354.7	1540.6	1558.3
367.4	57.5°	402.9	500.3	560.0	728.2	821.2	938.5	1007.2	1148.8	1162.1
174.9	60°	192.6	239.1	285.5	369.7	429.4	529.0	573.3	630.9	646.3
106.2	62.5°	124.0	146.1	185.9	221.4	278.9	340.9	358.6	407.3	425.0
66.4	65°	81.9	104.0	146.1	154.9	212.5	261.2	283.3	318.7	338.7
39.8	67.5°	46.5	73.0	108.5	128.4	168.2	214.7	239.1	270.0	287.8
26.6	70°	31.0	59.8	86.3	106.2	132.8	172.7	203.6	230.2	241.3
13.3	72.5°	17.7	37.6	59.8	84.1	106.2	143.9	172.7	194.8	128.4
8.9	75°	11.1	28.8	50.9	70.8	88.5	115.1	139.5	137.2	57.6
6.6	77.5°	8.9	22.1	44.3	59.8	73.0	79.7	99.6	112.9	44.3
4.4	80°	6.6	17.7	39.8	50.9	28.8	57.6	77.5	84.1	31.0
4.4	82.5°	4.4	11.1	33.2	35.4	19.9	42.1	62.0	55.3	22.1
2.2	85°	2.2	6.6	11.1	19.9	17.7	19.9	15.5	22.1	15.5
2.2	87.5°	2.2	4.4	8.9	8.9	8.9	6.6	8.9	8.9	8.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9239.2
9212.7
9197.2
9164.0
9026.7
8831.9
8508.8
8190.0
7694.2
7169.6
6740.2
6251.0
5797.2
5292.5
4790.1
4296.4
3849.3
3435.4
3032.5
2627.4
2244.5
1890.3
1573.8
1188.7
664.1
429.4
338.7
285.5
239.1
104.0
57.6
44.3
33.2
22.1
15.5
8.9
0.0

(END OF REPORT)