

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: P637994

Luminaire Tested: **IFLD-S-SA6A-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637994
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16729.5 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

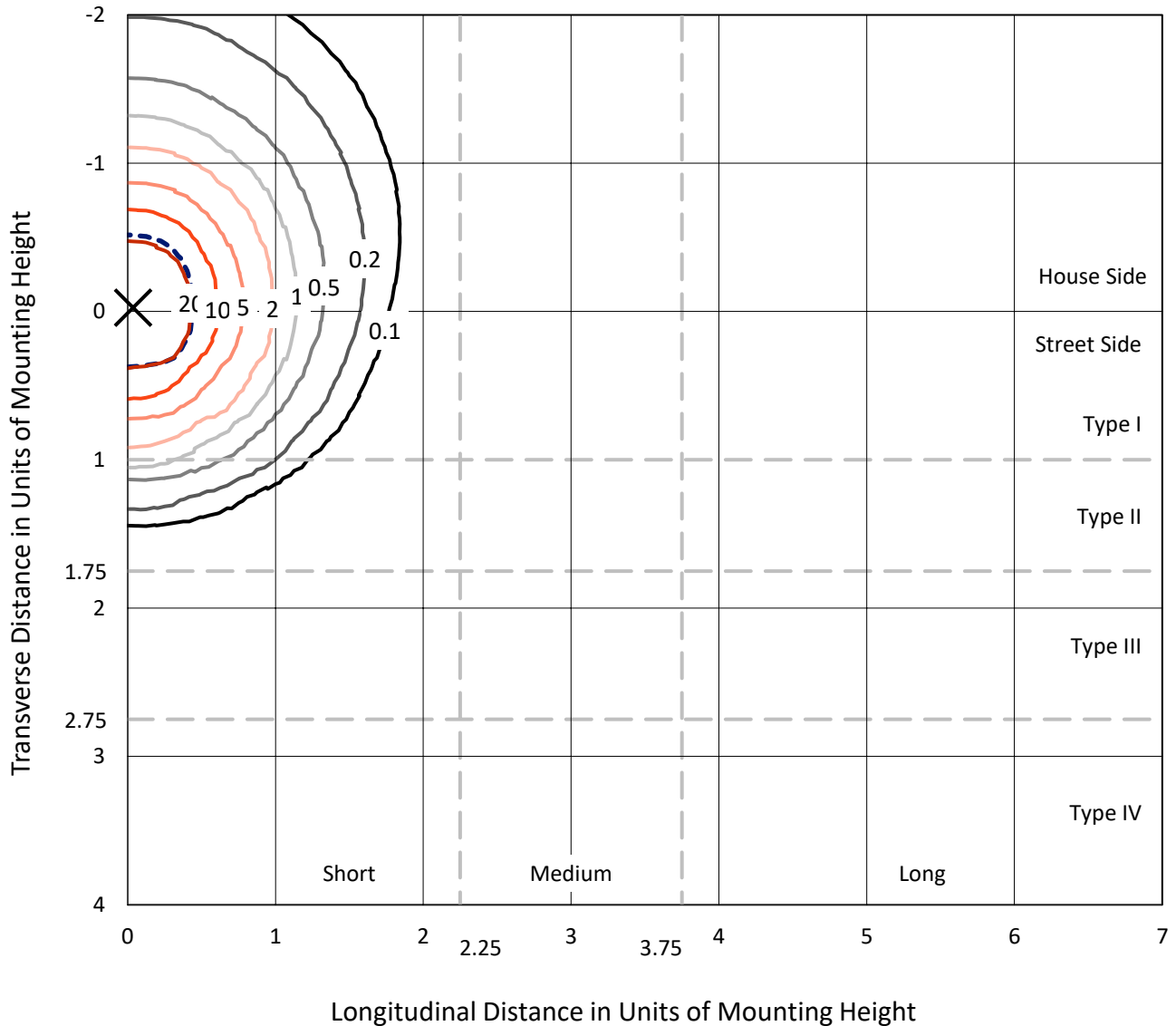
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

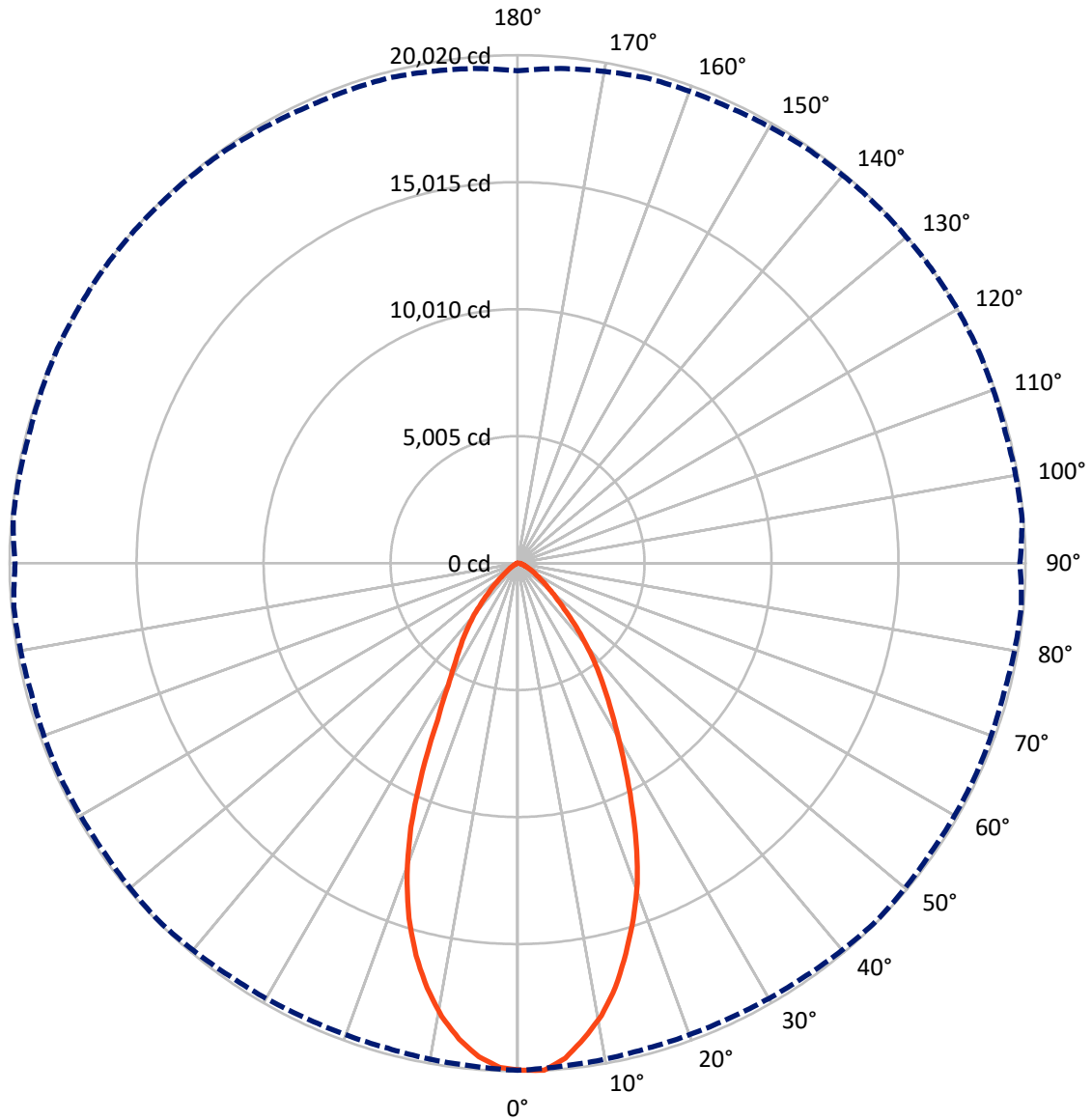
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 50 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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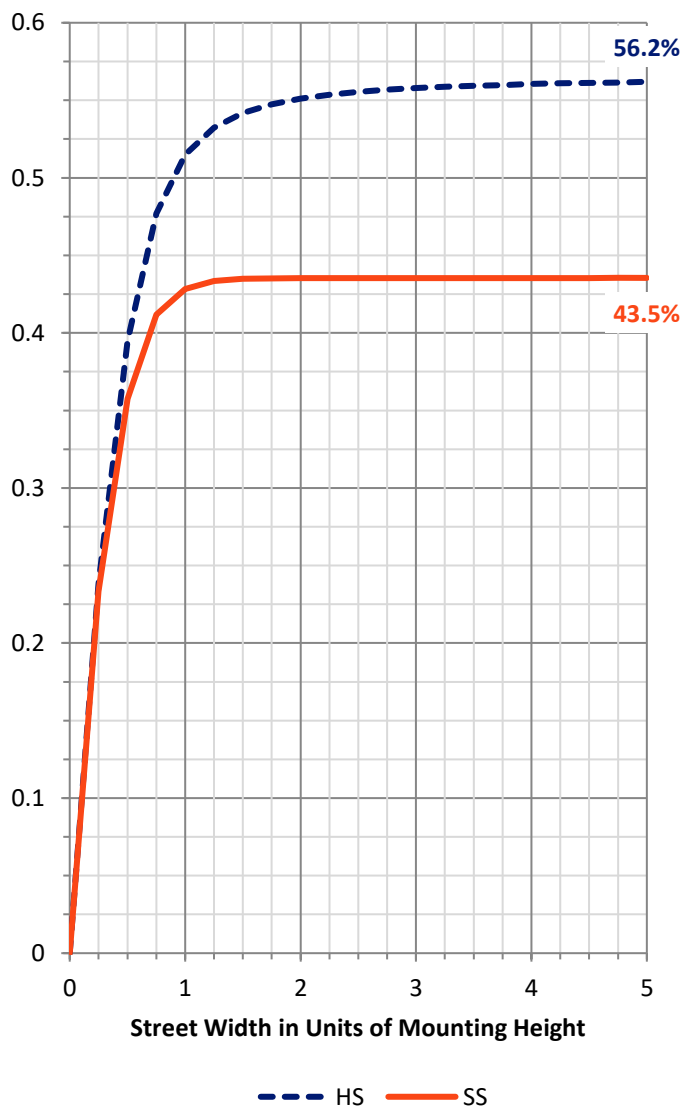
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9493.0	0.0	9493.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	7236.5	0.0	7236.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	16729.5	0.0	16729.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1815.0	10.8
10°-20°	4326.5	25.9
20°-30°	4406.4	26.3
30°-40°	3285.9	19.6
40°-50°	1716.6	10.3
50°-60°	722.0	4.3
60°-70°	294.9	1.8
70°-80°	124.1	0.7
80°-90°	38.2	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°	16729.5	100.0
0°-180°	16729.5	100.0



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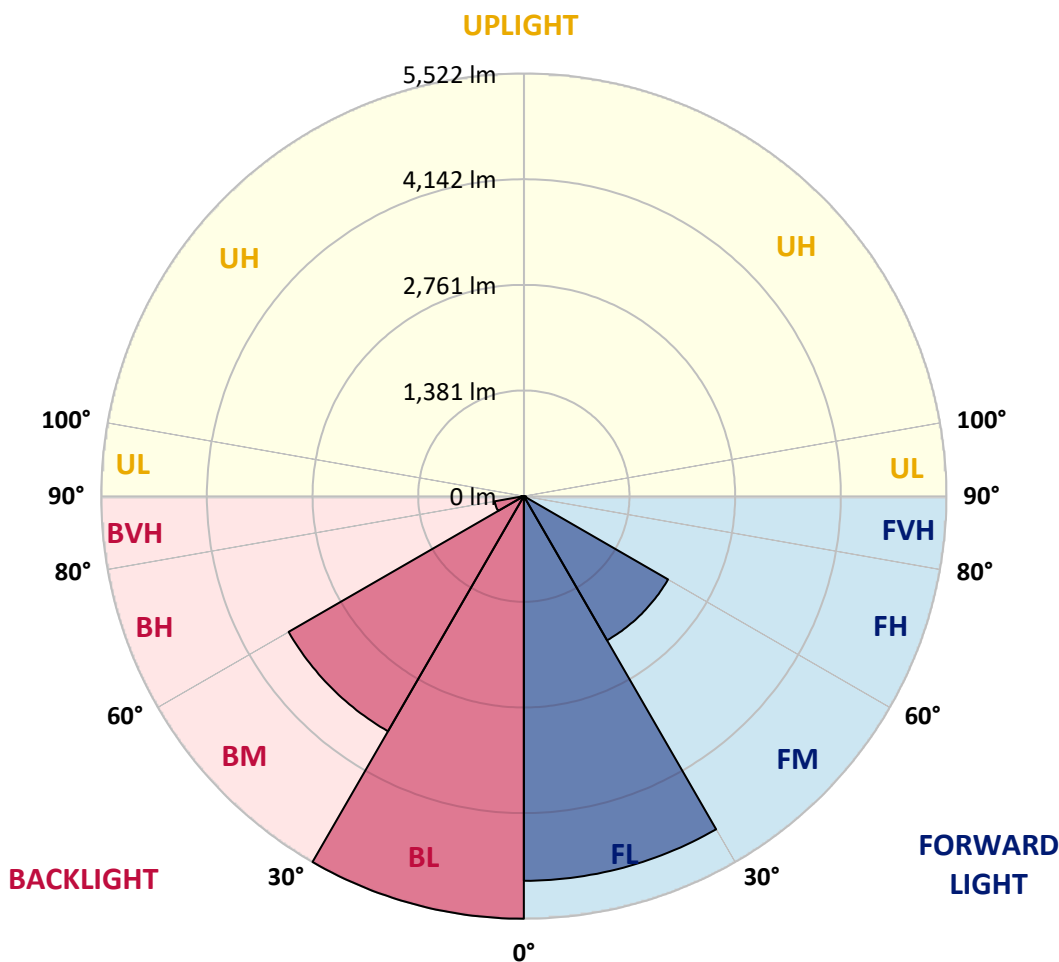
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5025.8	30.0			
FM	(30°-60°)	2175.7	13.0			
FH	(60°-80°)	31.5	0.2			G0/660
FVH	(80°-90°)	3.5	0.0			G0/10
BL	(0°-30°)	5522.1	33.0	B5		
BM	(30°-60°)	3548.8	21.2	B3/5000		
BH	(60°-80°)	387.5	2.3	B1/500		G1/500
BVH	(80°-90°)	34.7	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8
2.5°	19990.0	19908.3	19792.3	19781.5	19841.7	19972.8	19889.0	19893.3	19841.7	19929.8
5°	19676.2	19598.8	19519.3	19414.0	19502.1	19558.0	19515.0	19467.8	19401.1	19487.1
7.5°	19083.1	19040.1	18921.9	18874.6	18928.4	18990.7	18898.3	18885.4	18793.0	18904.7
10°	18176.2	18159.0	18043.0	18015.0	18062.3	18156.9	18116.0	18107.4	18049.4	18038.7
12.5°	17234.9	17168.3	17024.3	17015.7	17086.7	17228.5	17118.9	17013.6	17045.8	17073.8
15°	14810.9	14740.0	15096.7	15657.6	15952.0	15941.2	15973.5	15846.7	15808.0	15820.9
17.5°	11774.3	11654.0	11782.9	12651.1	14050.1	14862.5	14639.0	14366.0	14219.9	14123.2
20°	10162.6	10169.0	10145.4	10368.9	11241.4	13093.8	13040.1	12513.6	12322.3	12242.8
22.5°	9182.7	9146.1	9094.5	9165.5	9399.7	10487.1	11215.6	10732.1	10665.5	10577.4
25°	8222.1	8222.1	8159.7	8230.7	8297.3	8312.3	9043.0	9240.7	9111.7	9111.7
27.5°	7390.4	7347.4	7319.5	7351.7	7263.6	6840.3	6932.7	7944.8	7856.7	7803.0
30°	6565.2	6552.3	6505.0	6548.0	6221.3	5744.3	5550.9	6704.9	6797.3	6777.9
32.5°	5419.8	5471.3	5681.9	5748.6	5189.8	4805.2	4620.3	5565.9	5935.5	5920.5
35°	3683.4	3726.4	3967.0	4762.2	4302.3	4027.2	3973.5	4426.9	5035.1	5093.1
37.5°	2933.4	2926.9	2995.7	3137.5	3457.7	3391.1	3376.1	3494.3	4106.7	4132.5
40°	2417.6	2409.0	2406.9	2290.8	2211.3	2819.5	2778.7	2707.7	3238.5	3290.1
42.5°	1949.1	1957.7	1964.2	1710.6	1594.6	2174.8	2151.1	2078.1	2540.1	2600.3
45°	1530.1	1527.9	1540.8	1274.4	1242.1	1390.4	1607.4	1549.4	1916.9	1981.4
47.5°	793.0	820.9	995.0	986.4	1001.4	986.4	1216.3	1201.3	1442.0	1545.1
50°	533.0	541.5	556.6	558.7	788.7	726.4	825.2	934.8	1010.0	1169.1
52.5°	412.6	419.1	380.4	356.7	483.5	537.2	541.5	646.8	704.9	866.0
55°	229.9	257.9	277.2	279.4	266.5	397.6	395.4	479.2	524.4	631.8
57.5°	30.1	36.5	55.9	180.5	178.4	221.3	277.2	348.1	373.9	462.0
60°	2.1	4.3	6.4	27.9	118.2	128.9	189.1	217.0	260.0	324.5
62.5°	0.0	0.0	2.1	6.4	23.6	75.2	98.9	113.9	152.6	212.8
65°	0.0	0.0	2.1	4.3	8.6	27.9	38.7	62.3	90.3	131.1
67.5°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	27.9	47.3	79.5
70°	0.0	0.0	2.1	4.3	6.4	8.6	12.9	17.2	25.8	43.0
72.5°	0.0	0.0	2.1	2.1	4.3	10.7	10.7	12.9	17.2	23.6
75°	0.0	0.0	2.1	4.3	6.4	10.7	10.7	10.7	12.9	15.0
77.5°	0.0	0.0	2.1	4.3	6.4	10.7	8.6	10.7	10.7	10.7
80°	0.0	0.0	2.1	4.3	6.4	10.7	12.9	10.7	8.6	8.6
82.5°	0.0	0.0	2.1	6.4	6.4	15.0	15.0	15.0	6.4	6.4
85°	0.0	0.0	4.3	6.4	10.7	17.2	17.2	12.9	6.4	4.3
87.5°	0.0	0.0	2.1	4.3	4.3	8.6	12.9	10.7	4.3	2.1
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°
19987.8	0°	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8	19987.8
19800.8	2.5°	19959.9	19906.1	20007.1	20020.0	19977.1	19923.3	19798.7	19788.0	19570.9
19362.5	5°	19581.6	19493.5	19558.0	19601.0	19585.9	19527.9	19476.3	19429.1	19233.5
18651.1	7.5°	18876.8	18844.5	18874.6	18906.9	18969.2	18906.9	18885.4	18835.9	18642.5
17950.6	10°	18094.5	18034.4	18148.3	18133.2	18116.0	18098.8	18008.6	18017.2	17789.4
16996.4	12.5°	17133.9	17032.9	17142.5	17155.4	17142.5	17082.4	16981.4	17024.3	16815.9
15707.0	15°	15842.4	15831.7	15911.2	15962.7	15999.3	15934.8	15900.4	15921.9	15797.3
14048.0	17.5°	14256.4	14396.1	14656.2	14744.3	14746.4	14813.0	14793.7	14767.9	14675.5
12210.6	20°	12391.1	12659.7	13059.4	13469.9	13588.1	13532.2	13506.4	13553.7	13416.2
10484.9	22.5°	10669.8	10899.7	11363.9	11963.5	12309.4	12343.8	12337.4	12296.6	12242.8
9103.1	25°	9208.4	9412.6	9857.4	10405.4	11069.5	11168.3	11172.6	11159.7	11112.5
7850.3	27.5°	7974.9	8222.1	8467.0	8957.0	9664.0	10072.3	10020.8	10005.7	9988.5
6793.0	30°	6857.4	7169.0	7399.0	7704.1	8338.1	8890.4	8944.1	8918.3	8877.5
5918.3	32.5°	5972.1	6156.9	6449.1	6655.4	7111.0	7736.4	7942.7	7923.3	7886.8
5129.7	35°	5202.7	5275.8	5505.7	5735.7	6038.7	6644.7	6949.9	6906.9	6900.4
4179.8	37.5°	4285.1	4530.1	4656.9	4889.0	5101.7	5572.3	5993.5	5974.2	5976.4
3361.0	40°	3459.9	3601.7	3853.1	4048.7	4244.3	4588.1	5056.6	5069.5	5065.2
2602.4	42.5°	2656.2	2793.7	3058.0	3270.8	3444.8	3657.6	4104.6	4119.6	4139.0
2026.5	45°	2073.8	2161.9	2355.3	2576.6	2761.5	2890.4	3229.9	3326.6	3328.8
1570.9	47.5°	1609.6	1710.6	1848.1	2060.9	2241.4	2333.8	2580.9	2712.0	2705.6
1205.6	50°	1263.6	1356.0	1467.8	1635.4	1830.9	1904.0	2086.7	2215.6	2209.2
909.0	52.5°	967.0	1085.2	1184.1	1313.0	1504.3	1566.6	1697.7	1846.0	1824.5
666.2	55°	732.8	853.2	945.6	1053.0	1227.1	1306.6	1396.8	1515.0	1519.3
515.8	57.5°	552.3	676.9	760.7	870.3	1001.4	1089.5	1158.3	1285.1	1283.0
352.4	60°	395.4	502.9	603.9	717.8	818.8	919.8	967.0	1087.4	1091.7
249.3	62.5°	285.8	386.8	483.5	582.4	672.6	771.5	814.5	909.0	921.9
163.3	65°	199.9	270.8	382.5	457.7	558.7	631.8	687.7	769.3	784.4
96.7	67.5°	128.9	195.6	303.0	369.6	462.0	524.4	582.4	646.8	666.2
62.3	70°	77.4	148.3	225.6	296.6	380.4	436.2	492.1	548.0	558.7
30.1	72.5°	49.4	103.2	163.3	240.7	305.2	365.3	414.8	455.6	423.4
19.3	75°	27.9	70.9	128.9	189.1	247.1	305.2	346.0	367.5	294.4
12.9	77.5°	17.2	51.6	105.3	152.6	191.3	245.0	270.8	283.7	210.6
8.6	80°	10.7	38.7	88.1	124.6	124.6	180.5	210.6	221.3	152.6
6.4	82.5°	8.6	27.9	68.8	94.6	83.8	135.4	165.5	167.6	107.4
4.3	85°	6.4	21.5	43.0	62.3	58.0	94.6	96.7	107.4	70.9
4.3	87.5°	4.3	12.9	25.8	36.5	32.2	45.1	51.6	58.0	38.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
19987.8
19401.1
19076.6
18601.7
17712.0
16755.7
15646.8
14538.0
13317.3
12139.7
10953.4
9887.5
8825.9
7790.1
6829.5
5907.6
4990.0
4074.5
3272.9
2681.9
2209.2
1826.6
1519.3
1278.7
1080.9
917.6
780.1
664.0
550.1
393.3
279.4
197.7
141.8
98.9
64.5
34.4
0.0

(END OF REPORT)