

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: P637913

Luminaire Tested: **IFLD-M-SA4B-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637913
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19258.5 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

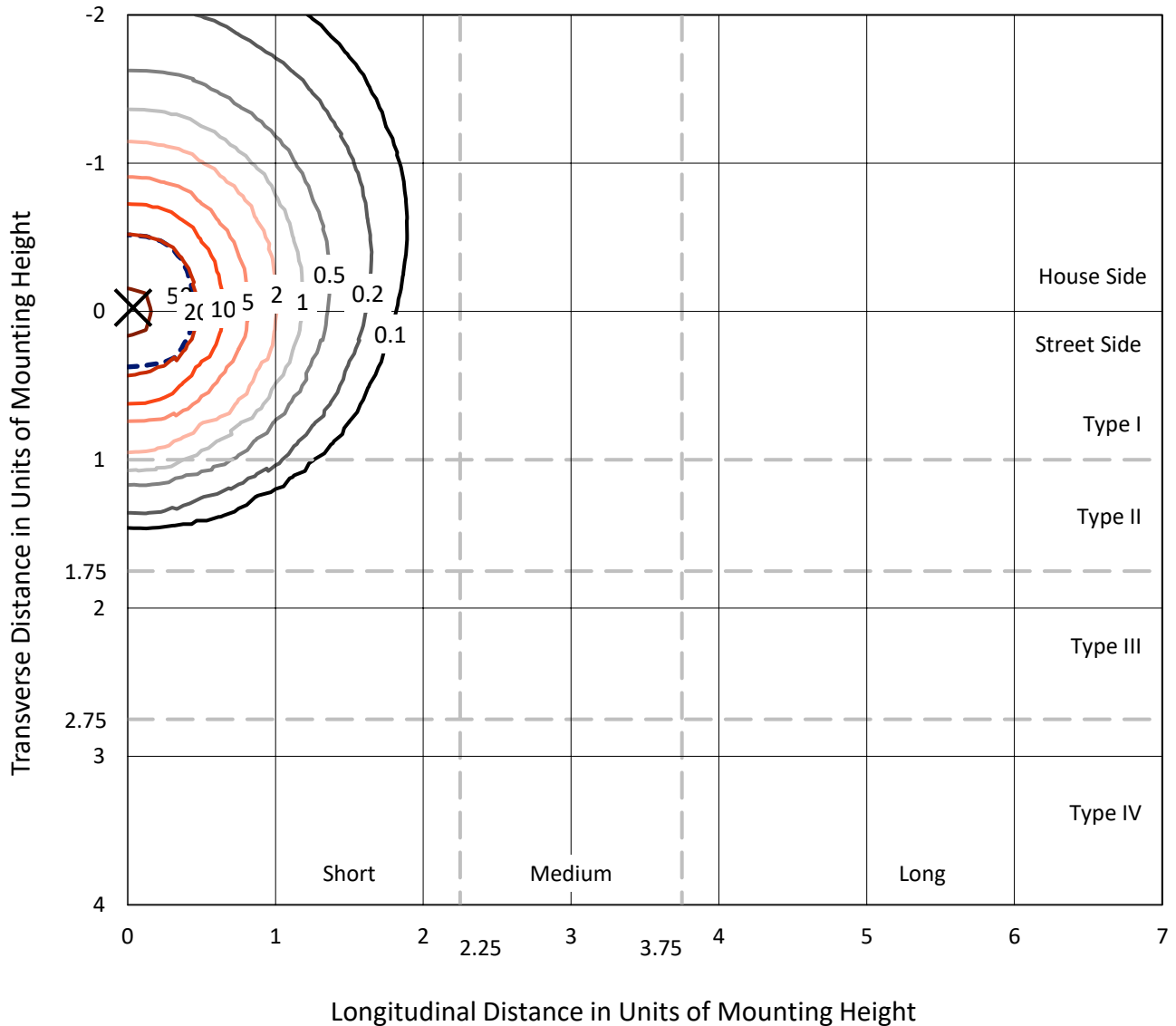
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

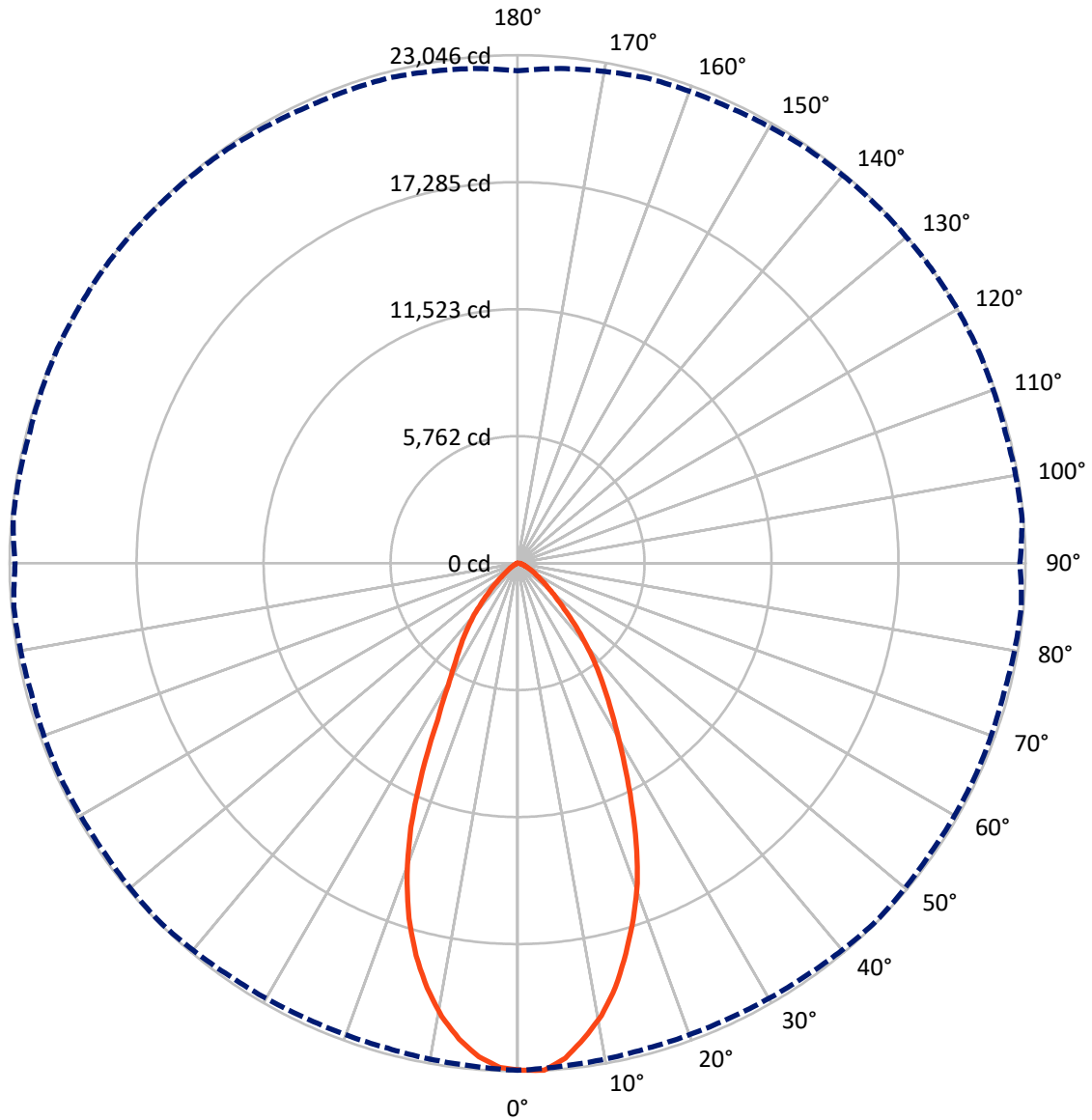
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 57.5 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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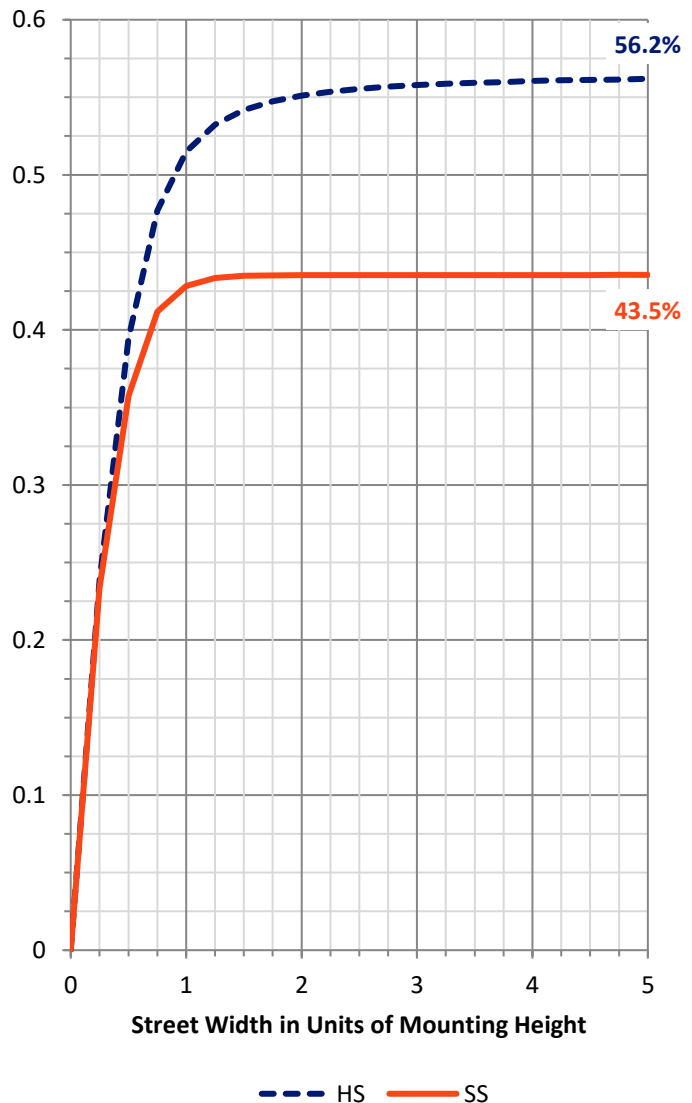
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10928.0	0.0	10928.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8330.5	0.0	8330.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	19258.5	0.0	19258.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2089.3	10.8
10°-20°	4980.5	25.9
20°-30°	5072.5	26.3
30°-40°	3782.6	19.6
40°-50°	1976.1	10.3
50°-60°	831.2	4.3
60°-70°	339.4	1.8
70°-80°	142.9	0.7
80°-90°	44.0	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°	19258.5	100.0
0°-180°	19258.5	100.0



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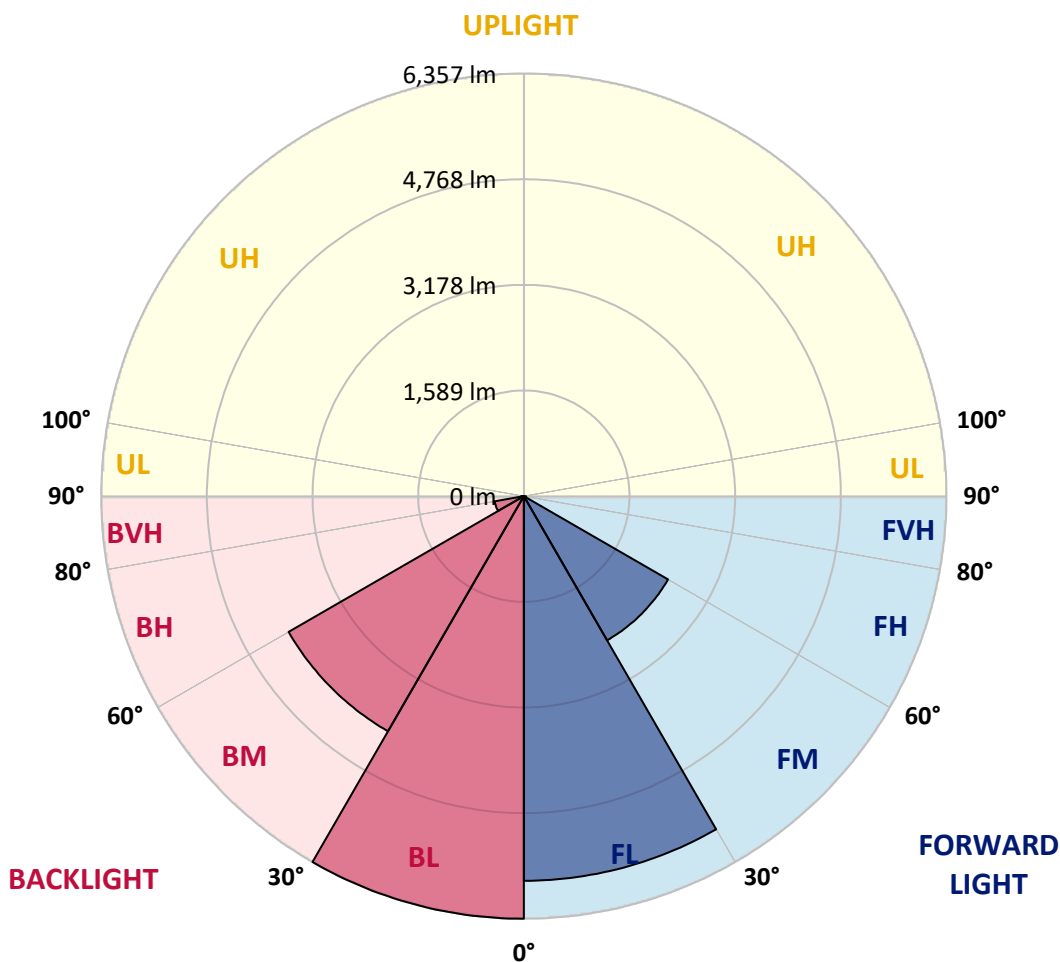
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5785.5	30.0			
FM (30°-60°)	2504.6	13.0			
FH (60°-80°)	36.2	0.2			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	6356.8	33.0	B5		
BM (30°-60°)	4085.2	21.2	B3/5000		
BH (60°-80°)	446.1	2.3	B1/500		G1/500
BVH (80°-90°)	39.9	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°	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2
2.5°	23011.7	22917.7	22784.1	22771.8	22841.0	22991.9	22895.4	22900.4	22841.0	22942.5
5°	22650.5	22561.5	22469.9	22348.7	22450.2	22514.5	22465.0	22410.6	22333.9	22432.8
7.5°	21967.8	21918.3	21782.2	21727.8	21789.6	21861.4	21755.0	21740.2	21633.8	21762.4
10°	20923.8	20904.0	20770.4	20738.3	20792.7	20901.5	20854.5	20844.6	20777.8	20765.5
12.5°	19840.2	19763.6	19597.8	19587.9	19669.6	19832.8	19706.7	19585.4	19622.5	19654.7
15°	17049.7	16968.1	17378.8	18024.4	18363.4	18351.0	18388.1	18242.1	18197.6	18212.5
17.5°	13554.2	13415.7	13564.1	14563.5	16174.0	17109.1	16851.8	16537.7	16369.4	16258.1
20°	11698.8	11706.2	11679.0	11936.3	12940.7	15073.1	15011.3	14405.2	14185.0	14093.5
22.5°	10570.7	10528.7	10469.3	10551.0	10820.6	12072.4	12911.0	12354.4	12277.7	12176.3
25°	9464.9	9464.9	9393.2	9474.8	9551.5	9568.8	10409.9	10637.5	10489.1	10489.1
27.5°	8507.6	8458.1	8425.9	8463.0	8361.6	7874.3	7980.6	9145.8	9044.4	8982.5
30°	7557.6	7542.8	7488.3	7537.8	7161.8	6612.6	6389.9	7718.4	7824.8	7802.5
32.5°	6239.0	6298.4	6540.8	6617.5	5974.3	5531.5	5318.8	6407.3	6832.8	6815.4
35°	4240.2	4289.6	4566.7	5482.0	4952.6	4636.0	4574.1	5096.1	5796.2	5863.0
37.5°	3376.8	3369.4	3448.5	3611.8	3980.4	3903.7	3886.4	4022.5	4727.5	4757.2
40°	2783.1	2773.2	2770.7	2637.1	2545.6	3245.7	3198.7	3117.0	3728.1	3787.5
42.5°	2243.8	2253.7	2261.1	1969.2	1835.6	2503.5	2476.3	2392.2	2924.1	2993.4
45°	1761.4	1758.9	1773.7	1467.0	1429.9	1600.6	1850.4	1783.6	2206.7	2280.9
47.5°	912.8	945.0	1145.4	1135.5	1152.8	1135.5	1400.2	1382.9	1660.0	1778.7
50°	613.5	623.4	640.7	643.2	907.9	836.2	950.0	1076.1	1162.7	1345.8
52.5°	475.0	482.4	437.9	410.7	556.6	618.5	623.4	744.6	811.4	997.0
55°	264.7	296.9	319.1	321.6	306.8	457.7	455.2	551.7	603.6	727.3
57.5°	34.6	42.1	64.3	207.8	205.3	254.8	319.1	400.8	430.4	531.9
60°	2.5	4.9	7.4	32.2	136.1	148.4	217.7	249.9	299.3	373.6
62.5°	0.0	0.0	2.5	7.4	27.2	86.6	113.8	131.1	175.6	244.9
65°	0.0	0.0	2.5	4.9	9.9	32.2	44.5	71.7	103.9	150.9
67.5°	0.0	0.0	2.5	4.9	7.4	12.4	19.8	32.2	54.4	91.5
70°	0.0	0.0	2.5	4.9	7.4	9.9	14.8	19.8	29.7	49.5
72.5°	0.0	0.0	2.5	2.5	4.9	12.4	12.4	14.8	19.8	27.2
75°	0.0	0.0	2.5	4.9	7.4	12.4	12.4	12.4	14.8	17.3
77.5°	0.0	0.0	2.5	4.9	7.4	12.4	9.9	12.4	12.4	12.4
80°	0.0	0.0	2.5	4.9	7.4	12.4	14.8	12.4	9.9	9.9
82.5°	0.0	0.0	2.5	7.4	7.4	17.3	17.3	17.3	7.4	7.4
85°	0.0	0.0	4.9	7.4	12.4	19.8	19.8	14.8	7.4	4.9
87.5°	0.0	0.0	2.5	4.9	4.9	9.9	14.8	12.4	4.9	2.5
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°
23009.2	0°	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2	23009.2
22794.0	2.5°	22977.1	22915.2	23031.5	23046.4	22996.9	22935.0	22791.5	22779.2	22529.3
22289.4	5°	22541.7	22440.3	22514.5	22564.0	22546.6	22479.8	22420.5	22366.0	22140.9
21470.5	7.5°	21730.3	21693.2	21727.8	21764.9	21836.6	21764.9	21740.2	21683.3	21460.6
20664.0	10°	20829.8	20760.5	20891.6	20874.3	20854.5	20834.7	20730.8	20740.7	20478.5
19565.7	12.5°	19724.0	19607.7	19733.9	19748.7	19733.9	19664.6	19548.3	19597.8	19357.8
18081.3	15°	18237.2	18224.8	18316.4	18375.7	18417.8	18343.6	18304.0	18328.7	18185.2
16171.5	17.5°	16411.5	16572.3	16871.6	16973.1	16975.5	17052.2	17030.0	17000.3	16893.9
14056.4	20°	14264.2	14573.4	15033.6	15506.1	15642.1	15577.8	15548.1	15602.5	15444.2
12069.9	22.5°	12282.6	12547.3	13081.7	13771.9	14170.2	14209.8	14202.4	14155.3	14093.5
10479.2	25°	10600.4	10835.4	11347.5	11978.4	12742.8	12856.6	12861.5	12846.7	12792.3
9037.0	27.5°	9180.4	9464.9	9747.0	10311.0	11124.9	11594.9	11535.5	11518.2	11498.4
7819.8	30°	7894.0	8252.8	8517.5	8868.7	9598.5	10234.3	10296.1	10266.5	10219.5
6813.0	32.5°	6874.8	7087.6	7424.0	7661.5	8186.0	8905.8	9143.3	9121.1	9079.0
5905.1	35°	5989.2	6073.3	6338.0	6602.7	6951.5	7649.1	8000.4	7950.9	7943.5
4811.6	37.5°	4932.8	5214.9	5360.8	5628.0	5872.9	6414.7	6899.6	6877.3	6879.8
3869.1	40°	3982.9	4146.2	4435.6	4660.7	4885.8	5281.7	5821.0	5835.8	5830.9
2995.8	42.5°	3057.7	3216.0	3520.3	3765.2	3965.6	4210.5	4725.0	4742.4	4764.6
2332.8	45°	2387.3	2488.7	2711.3	2966.1	3178.9	3327.3	3718.2	3829.5	3832.0
1808.4	47.5°	1852.9	1969.2	2127.5	2372.4	2580.2	2686.6	2971.1	3122.0	3114.6
1387.8	50°	1454.6	1561.0	1689.6	1882.6	2107.7	2191.8	2402.1	2550.5	2543.1
1046.4	52.5°	1113.2	1249.3	1363.1	1511.5	1731.7	1803.4	1954.3	2125.0	2100.3
766.9	55°	843.6	982.1	1088.5	1212.2	1412.6	1504.1	1608.0	1744.1	1749.0
593.7	57.5°	635.8	779.3	875.7	1001.9	1152.8	1254.2	1333.4	1479.4	1476.9
405.7	60°	455.2	578.9	695.2	826.3	942.5	1058.8	1113.2	1251.8	1256.7
287.0	62.5°	329.0	445.3	556.6	670.4	774.3	888.1	937.6	1046.4	1061.3
188.0	65°	230.1	311.7	440.3	526.9	643.2	727.3	791.6	885.6	903.0
111.3	67.5°	148.4	225.1	348.8	425.5	531.9	603.6	670.4	744.6	766.9
71.7	70°	89.1	170.7	259.8	341.4	437.9	502.2	566.5	630.8	643.2
34.6	72.5°	56.9	118.7	188.0	277.1	351.3	420.6	477.5	524.5	487.3
22.3	75°	32.2	81.6	148.4	217.7	284.5	351.3	398.3	423.0	338.9
14.8	77.5°	19.8	59.4	121.2	175.6	220.2	282.0	311.7	326.5	242.4
9.9	80°	12.4	44.5	101.4	143.5	143.5	207.8	242.4	254.8	175.6
7.4	82.5°	9.9	32.2	79.2	108.8	96.5	155.9	190.5	193.0	123.7
4.9	85°	7.4	24.7	49.5	71.7	66.8	108.8	111.3	123.7	81.6
4.9	87.5°	4.9	14.8	29.7	42.1	37.1	52.0	59.4	66.8	44.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23009.2
22333.9
21960.3
21413.6
20389.4
19288.6
18012.1
16735.6
15330.4
13974.8
12609.2
11382.2
10160.1
8967.7
7861.9
6800.6
5744.3
4690.4
3767.7
3087.4
2543.1
2102.8
1749.0
1471.9
1244.3
1056.3
898.0
764.4
633.3
452.7
321.6
227.6
163.3
113.8
74.2
39.6
0.0

(END OF REPORT)