

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: P637851

Luminaire Tested: **IFLD-S-SA6C-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637851
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31904.7 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

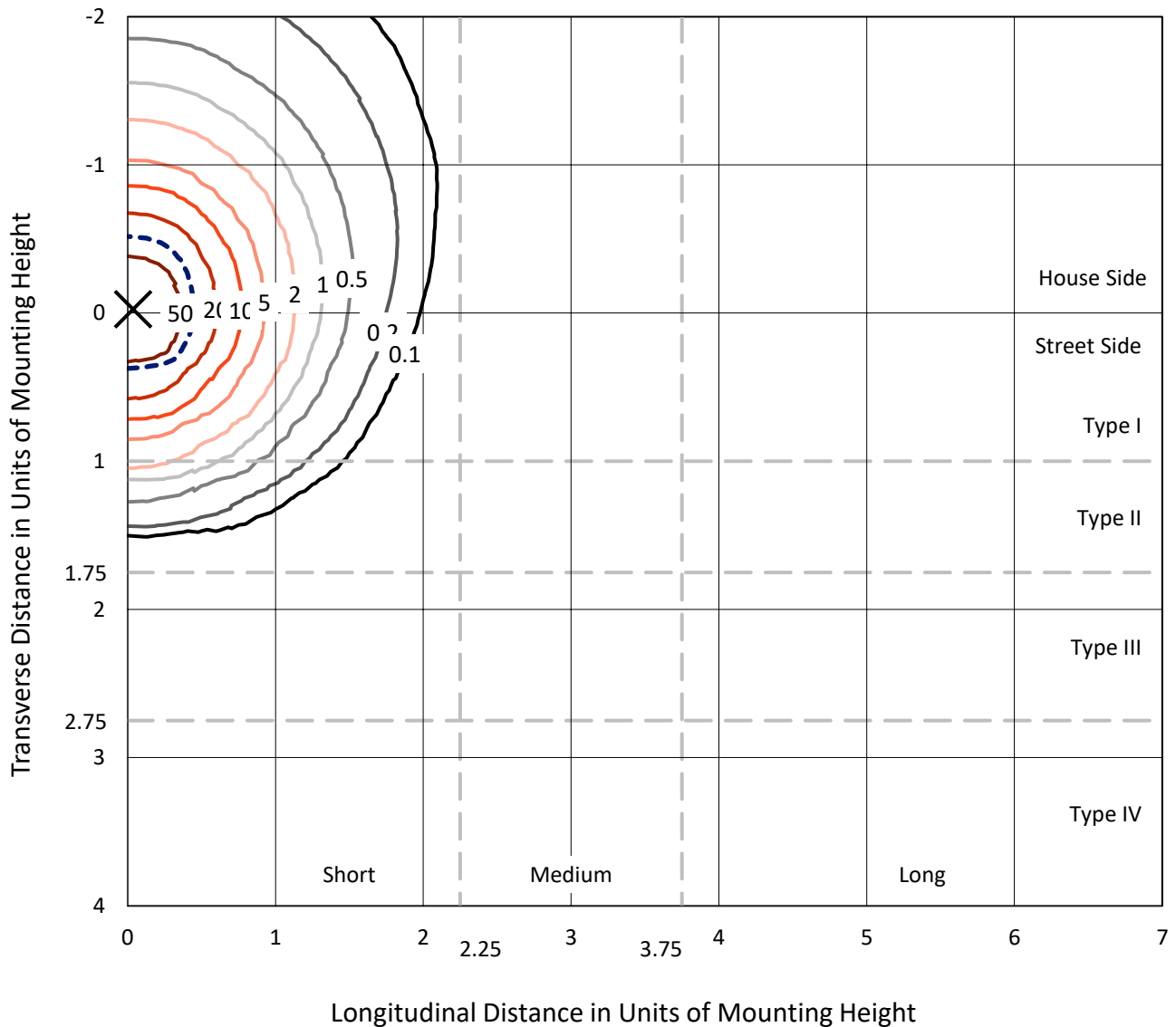
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

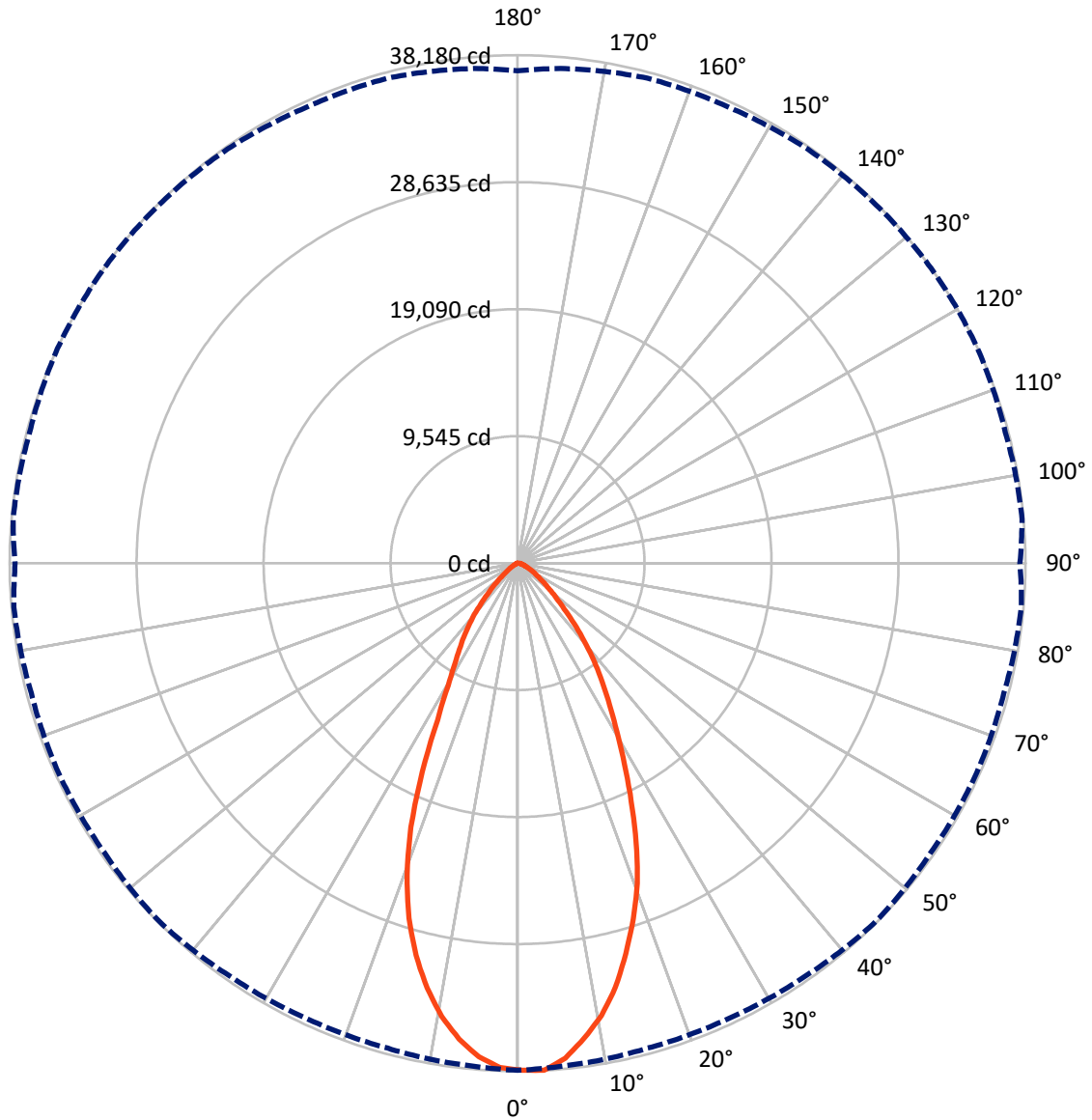
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 95.3 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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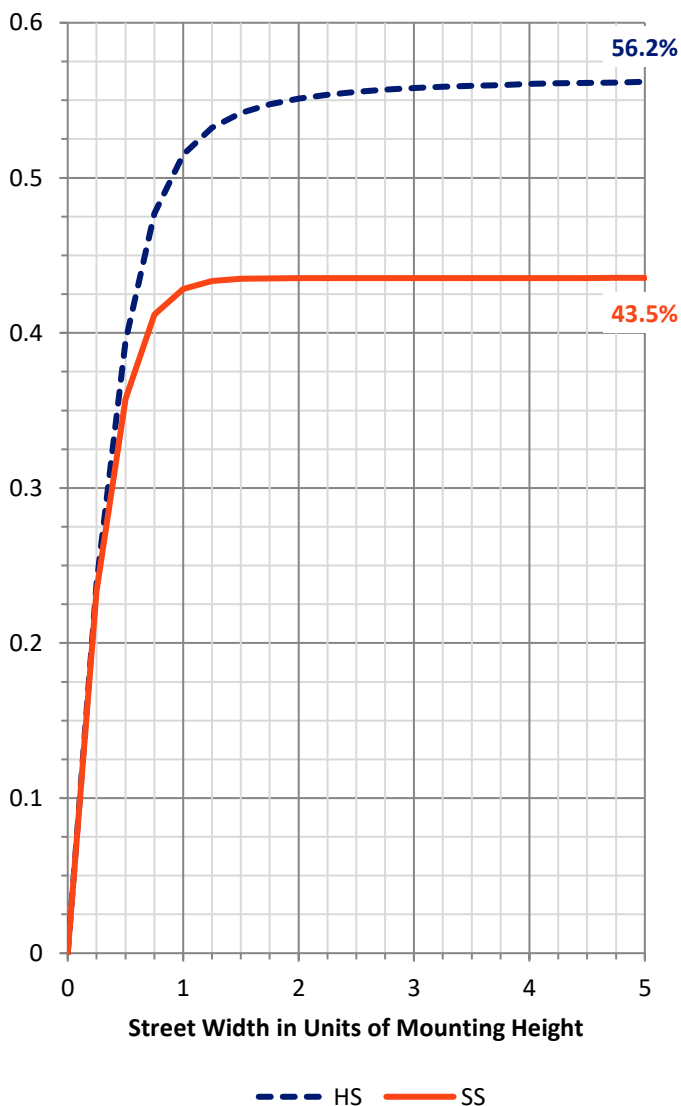
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18104.0	0.0	18104.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	13800.7	0.0	13800.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	31904.7	0.0	31904.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3461.3	10.8
10°-20°	8250.9	25.9
20°-30°	8403.4	26.3
30°-40°	6266.4	19.6
40°-50°	3273.7	10.3
50°-60°	1377.0	4.3
60°-70°	562.4	1.8
70°-80°	236.7	0.7
80°-90°	72.9	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°	31904.7	100.0
0°-180°	31904.7	100.0



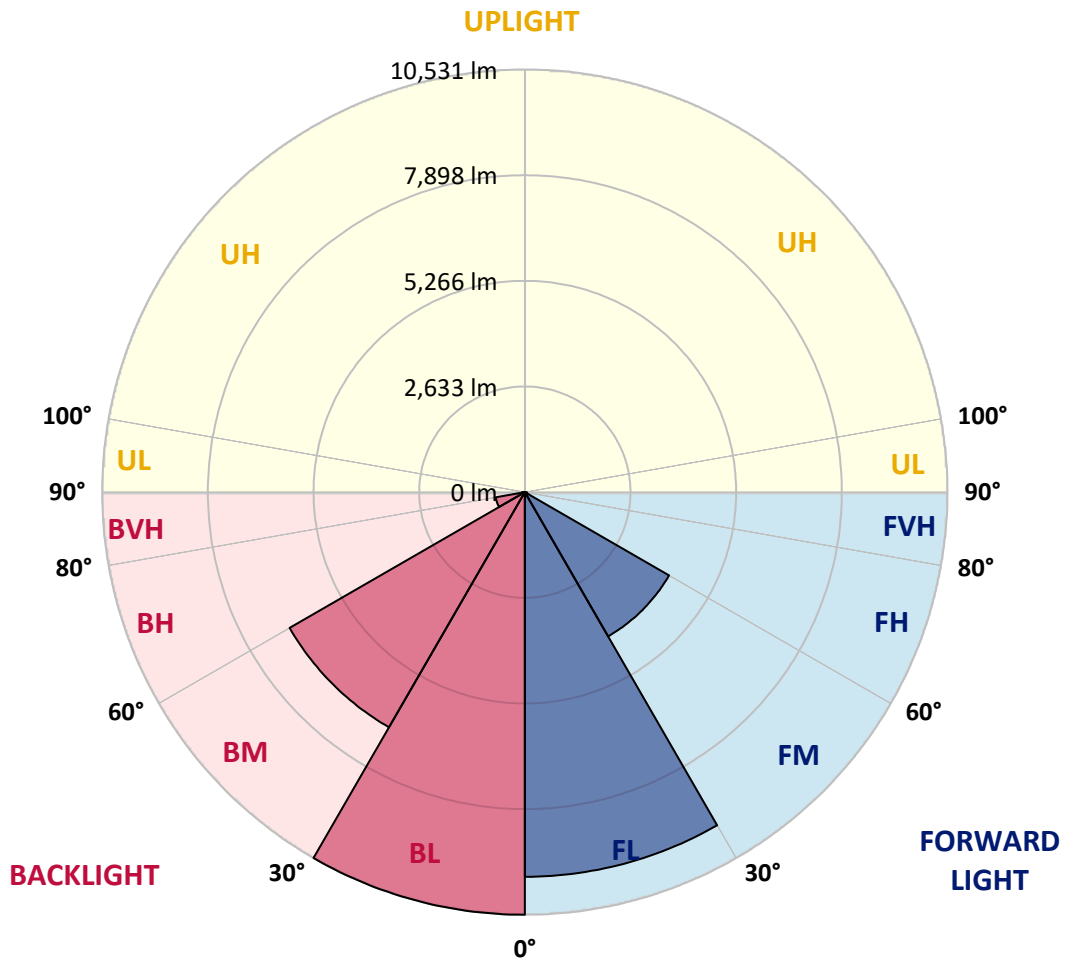
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9584.6	30.0			
FM (30°-60°)	4149.3	13.0			
FH (60°-80°)	60.0	0.2			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	10531.1	33.0	B5		
BM (30°-60°)	6767.8	21.2	B4/8500		
BH (60°-80°)	739.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	66.1	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4
2.5°	38122.5	37966.8	37745.4	37724.9	37839.7	38089.7	37929.9	37938.1	37839.7	38007.7
5°	37524.1	37376.6	37225.0	37024.1	37192.2	37298.7	37216.8	37126.6	36999.5	37163.5
7.5°	36393.0	36311.0	36085.6	35995.5	36097.9	36216.8	36040.5	36016.0	35839.7	36052.8
10°	34663.5	34630.7	34409.4	34356.1	34446.3	34626.6	34548.8	34532.4	34421.7	34401.2
12.5°	32868.5	32741.4	32466.8	32450.4	32585.7	32856.2	32647.1	32446.3	32507.8	32561.1
15°	28245.6	28110.3	28790.6	29860.3	30421.8	30401.3	30462.7	30220.9	30147.2	30171.8
17.5°	22454.6	22225.1	22471.0	24126.8	26794.8	28343.9	27917.7	27397.2	27118.5	26934.1
20°	19380.9	19393.2	19348.1	19774.3	21438.3	24971.0	24868.5	23864.5	23499.7	23348.1
22.5°	17512.1	17442.4	17344.1	17479.3	17926.0	19999.8	21389.1	20467.0	20339.9	20171.9
25°	15680.1	15680.1	15561.3	15696.5	15823.6	15852.3	17245.7	17622.7	17376.8	17376.8
27.5°	14094.1	14012.1	13958.8	14020.3	13852.3	13044.9	13221.2	15151.5	14983.4	14881.0
30°	12520.3	12495.7	12405.6	12487.6	11864.6	10954.8	10585.9	12786.7	12963.0	12926.1
32.5°	10335.9	10434.3	10835.9	10963.0	9897.4	9163.8	8811.4	10614.6	11319.5	11290.8
35°	7024.5	7106.5	7565.5	9081.9	8204.8	7680.2	7577.8	8442.5	9602.3	9713.0
37.5°	5594.2	5581.9	5713.0	5983.5	6594.2	6467.1	6438.4	6663.9	7831.9	7881.1
40°	4610.6	4594.2	4590.1	4368.8	4217.2	5377.0	5299.1	5163.9	6176.2	6274.5
42.5°	3717.2	3733.6	3745.9	3262.3	3040.9	4147.5	4102.4	3963.1	4844.2	4959.0
45°	2918.0	2913.9	2938.5	2430.3	2368.8	2651.6	3065.5	2954.9	3655.7	3778.6
47.5°	1512.3	1565.6	1897.5	1881.1	1909.8	1881.1	2319.6	2291.0	2750.0	2946.7
50°	1016.4	1032.8	1061.5	1065.6	1504.1	1385.2	1573.8	1782.8	1926.2	2229.5
52.5°	786.9	799.2	725.4	680.3	922.1	1024.6	1032.8	1233.6	1344.2	1651.6
55°	438.5	491.8	528.7	532.8	508.2	758.2	754.1	913.9	1000.0	1204.9
57.5°	57.4	69.7	106.6	344.3	340.2	422.1	528.7	663.9	713.1	881.1
60°	4.1	8.2	12.3	53.3	225.4	245.9	360.7	413.9	495.9	618.8
62.5°	0.0	0.0	4.1	12.3	45.1	143.4	188.5	217.2	291.0	405.7
65°	0.0	0.0	4.1	8.2	16.4	53.3	73.8	118.9	172.1	250.0
67.5°	0.0	0.0	4.1	8.2	12.3	20.5	32.8	53.3	90.2	151.6
70°	0.0	0.0	4.1	8.2	12.3	16.4	24.6	32.8	49.2	82.0
72.5°	0.0	0.0	4.1	4.1	8.2	20.5	20.5	24.6	32.8	45.1
75°	0.0	0.0	4.1	8.2	12.3	20.5	20.5	20.5	24.6	28.7
77.5°	0.0	0.0	4.1	8.2	12.3	20.5	16.4	20.5	20.5	20.5
80°	0.0	0.0	4.1	8.2	12.3	20.5	24.6	20.5	16.4	16.4
82.5°	0.0	0.0	4.1	12.3	12.3	28.7	28.7	28.7	12.3	12.3
85°	0.0	0.0	8.2	12.3	20.5	32.8	32.8	24.6	12.3	8.2
87.5°	0.0	0.0	4.1	8.2	8.2	16.4	24.6	20.5	8.2	4.1
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°
38118.4	0°	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4	38118.4
37761.8	2.5°	38065.1	37962.7	38155.3	38179.9	38097.9	37995.4	37757.7	37737.2	37323.3
36925.8	5°	37343.8	37175.8	37298.7	37380.7	37352.0	37241.3	37143.0	37052.8	36679.9
35569.2	7.5°	35999.6	35938.1	35995.5	36056.9	36175.8	36056.9	36016.0	35921.7	35552.8
34233.2	10°	34507.8	34393.0	34610.2	34581.5	34548.8	34516.0	34343.8	34360.2	33925.8
32413.5	12.5°	32675.8	32483.2	32692.2	32716.8	32692.2	32577.5	32384.9	32466.8	32069.3
29954.6	15°	30212.7	30192.3	30343.9	30442.3	30511.9	30389.0	30323.4	30364.4	30126.7
26790.7	17.5°	27188.2	27454.6	27950.5	28118.5	28122.6	28249.7	28212.8	28163.6	27987.4
23286.6	20°	23630.9	24143.1	24905.4	25688.2	25913.6	25807.1	25757.9	25848.0	25585.8
19995.7	22.5°	20348.1	20786.6	21671.9	22815.3	23475.1	23540.7	23528.4	23450.5	23348.1
17360.4	25°	17561.3	17950.6	18799.0	19844.0	21110.4	21298.9	21307.1	21282.5	21192.4
14971.1	27.5°	15208.8	15680.1	16147.3	17081.8	18430.1	19208.8	19110.4	19081.7	19048.9
12954.8	30°	13077.7	13672.0	14110.5	14692.4	15901.4	16954.7	17057.2	17008.0	16930.1
11286.7	32.5°	11389.2	11741.7	12299.0	12692.5	13561.3	14753.9	15147.4	15110.5	15040.8
9782.7	35°	9922.0	10061.4	10499.9	10938.4	11516.3	12672.0	13253.9	13172.0	13159.7
7971.2	37.5°	8172.0	8639.2	8881.0	9323.7	9729.4	10626.9	11430.2	11393.3	11397.4
6409.8	40°	6598.3	6868.8	7348.3	7721.2	8094.2	8749.9	9643.3	9667.9	9659.7
4963.1	42.5°	5065.5	5327.8	5831.9	6237.6	6569.6	6975.3	7827.8	7856.5	7893.3
3864.7	45°	3954.9	4122.9	4491.7	4913.9	5266.3	5512.2	6159.8	6344.2	6348.3
2995.9	47.5°	3069.6	3262.3	3524.5	3930.3	4274.5	4450.8	4922.1	5172.1	5159.8
2299.2	50°	2409.8	2586.0	2799.1	3118.8	3491.8	3631.1	3979.5	4225.4	4213.1
1733.6	52.5°	1844.2	2069.6	2258.2	2504.1	2868.8	2987.7	3237.7	3520.4	3479.5
1270.5	55°	1397.5	1627.0	1803.3	2008.2	2340.1	2491.8	2663.9	2889.3	2897.5
983.6	57.5°	1053.3	1291.0	1450.8	1659.8	1909.8	2077.8	2209.0	2450.8	2446.7
672.1	60°	754.1	959.0	1151.6	1368.8	1561.5	1754.1	1844.2	2073.7	2081.9
475.4	62.5°	545.1	737.7	922.1	1110.6	1282.8	1471.3	1553.3	1733.6	1758.2
311.5	65°	381.1	516.4	729.5	872.9	1065.6	1204.9	1311.5	1467.2	1495.9
184.4	67.5°	245.9	372.9	577.9	704.9	881.1	1000.0	1110.6	1233.6	1270.5
118.9	70°	147.5	282.8	430.3	565.6	725.4	832.0	938.5	1045.1	1065.6
57.4	72.5°	94.3	196.7	311.5	459.0	582.0	696.7	791.0	868.8	807.4
36.9	75°	53.3	135.2	245.9	360.7	471.3	582.0	659.8	700.8	561.5
24.6	77.5°	32.8	98.4	200.8	291.0	364.7	467.2	516.4	541.0	401.6
16.4	80°	20.5	73.8	168.0	237.7	237.7	344.3	401.6	422.1	291.0
12.3	82.5°	16.4	53.3	131.1	180.3	159.8	258.2	315.6	319.7	204.9
8.2	85°	12.3	41.0	82.0	118.9	110.7	180.3	184.4	204.9	135.2
8.2	87.5°	8.2	24.6	49.2	69.7	61.5	86.1	98.4	110.7	73.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



<u>180°</u>
38118.4
36999.5
36380.7
35475.0
33778.3
31954.5
29839.8
27725.1
25397.2
23151.4
20889.1
18856.3
16831.8
14856.4
13024.4
11266.3
9516.3
7770.4
6241.7
5114.7
4213.1
3483.6
2897.5
2438.5
2061.5
1750.0
1487.7
1266.4
1049.2
750.0
532.8
377.0
270.5
188.5
122.9
65.6
0.0

(END OF REPORT)