

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: P637057

Luminaire Tested: **IFLD-S-SA2B-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637057
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10339.6 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

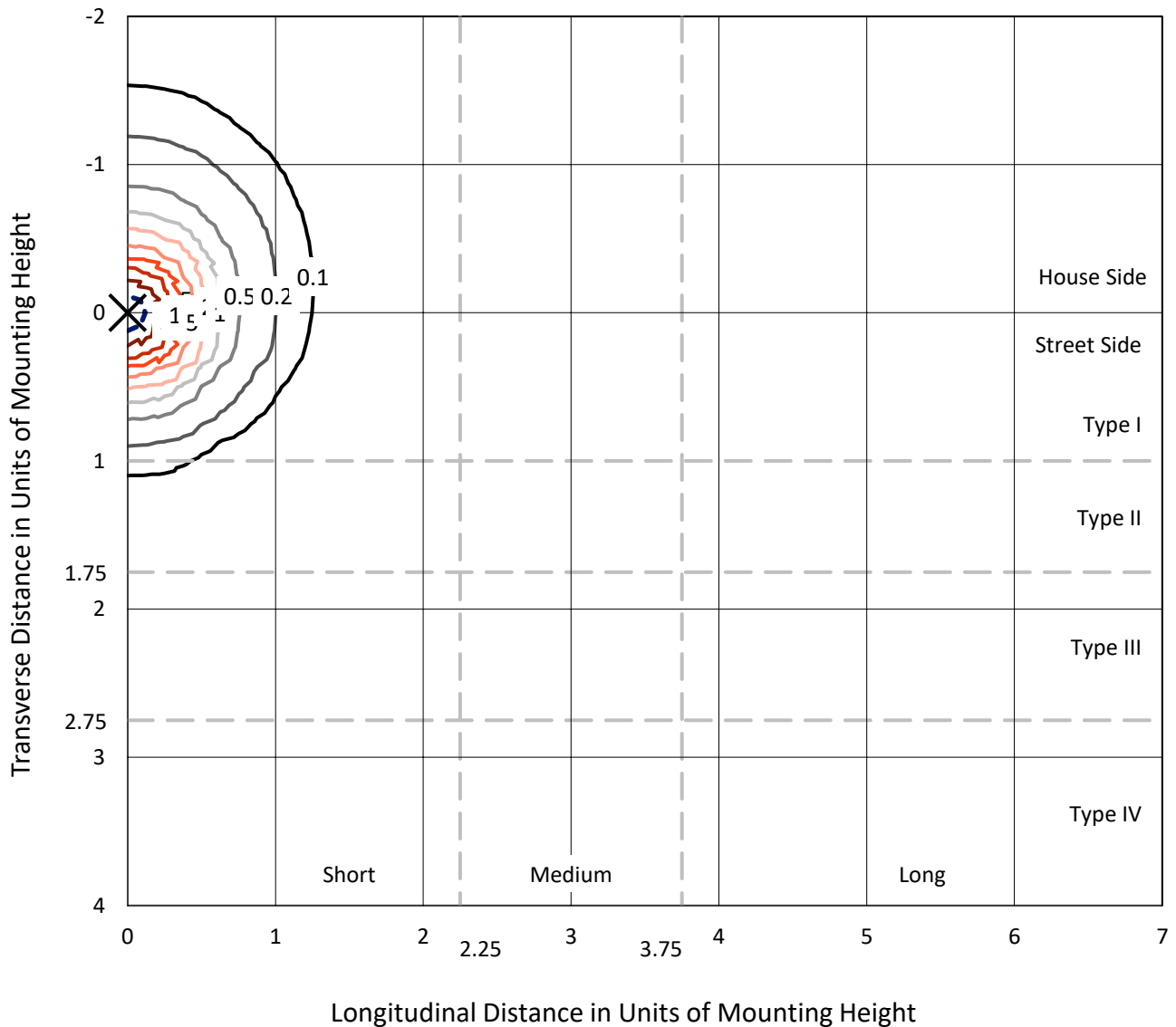
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

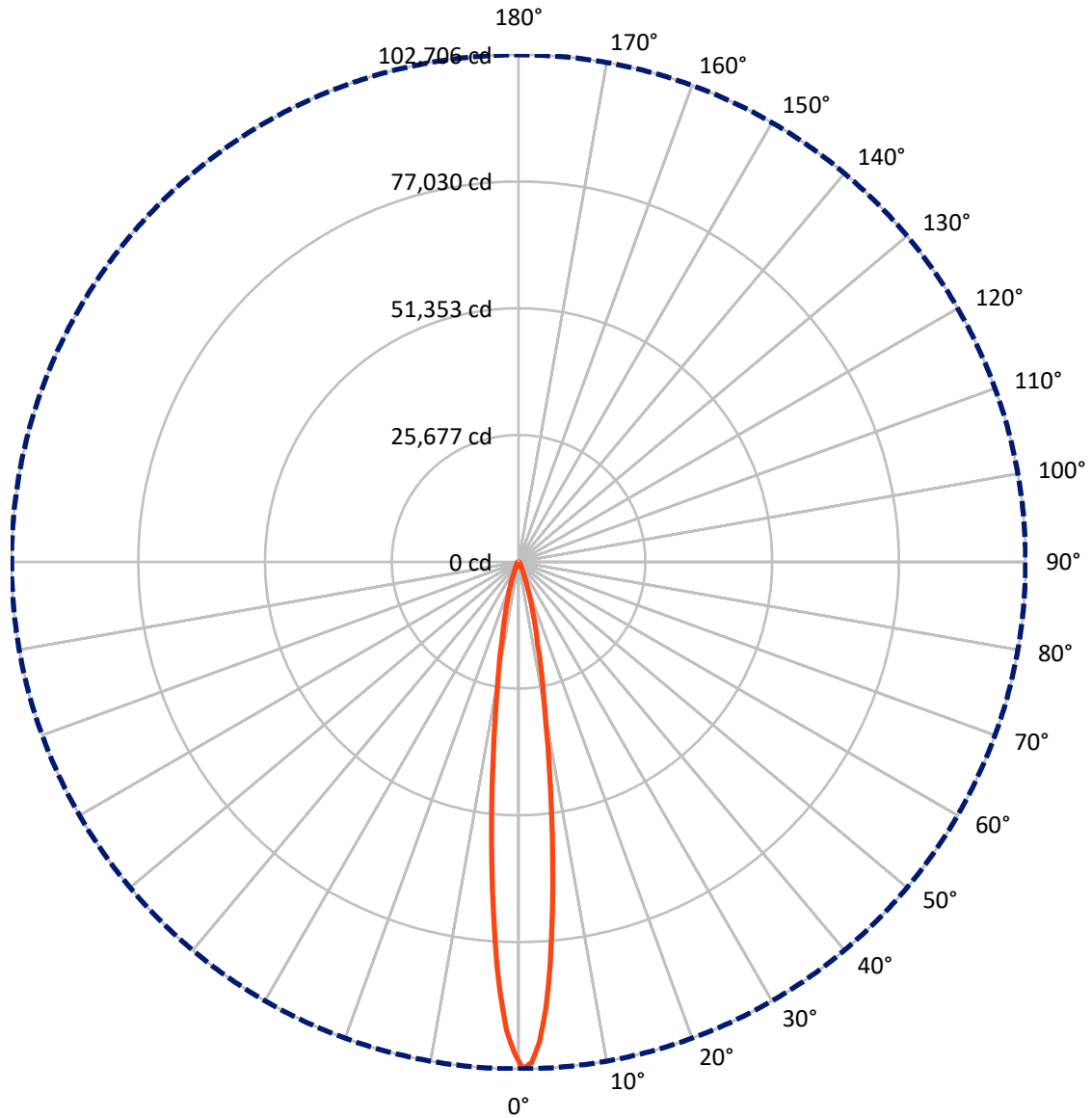
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 256.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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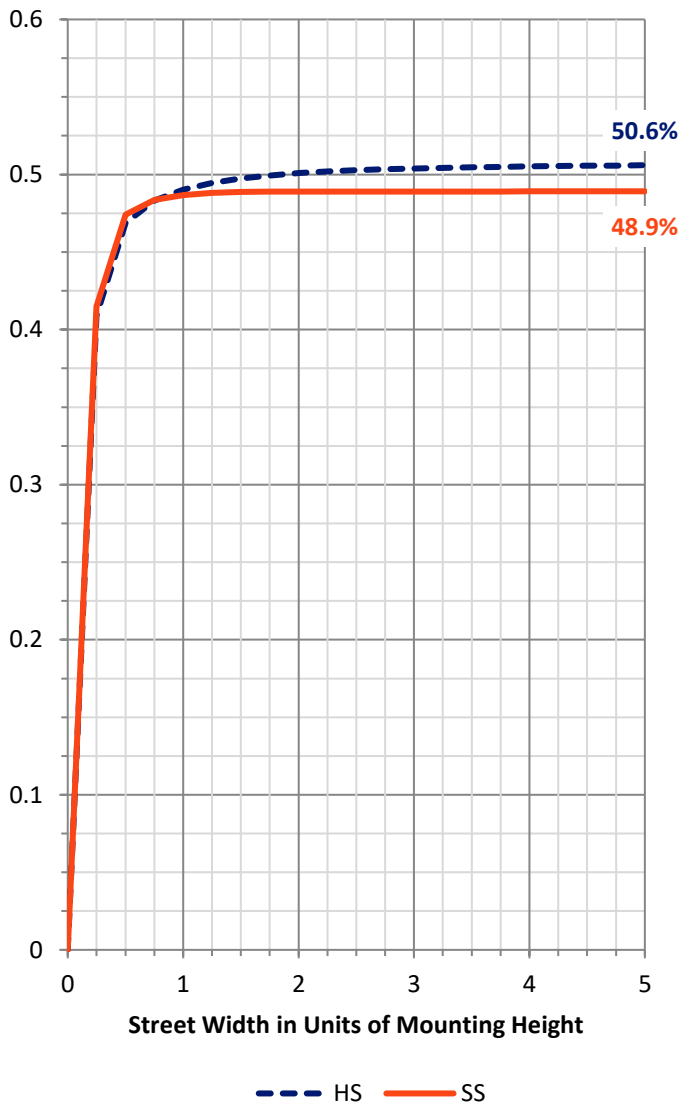
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5295.8	0.0	5295.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	5043.9	0.0	5043.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	10339.6	0.0	10339.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5219.8	50.5
10°-20°	3341.7	32.3
20°-30°	1004.4	9.7
30°-40°	327.0	3.2
40°-50°	190.3	1.8
50°-60°	126.4	1.2
60°-70°	76.1	0.7
70°-80°	39.1	0.4
80°-90°	14.9	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°	10339.6	100.0
0°-180°	10339.6	100.0

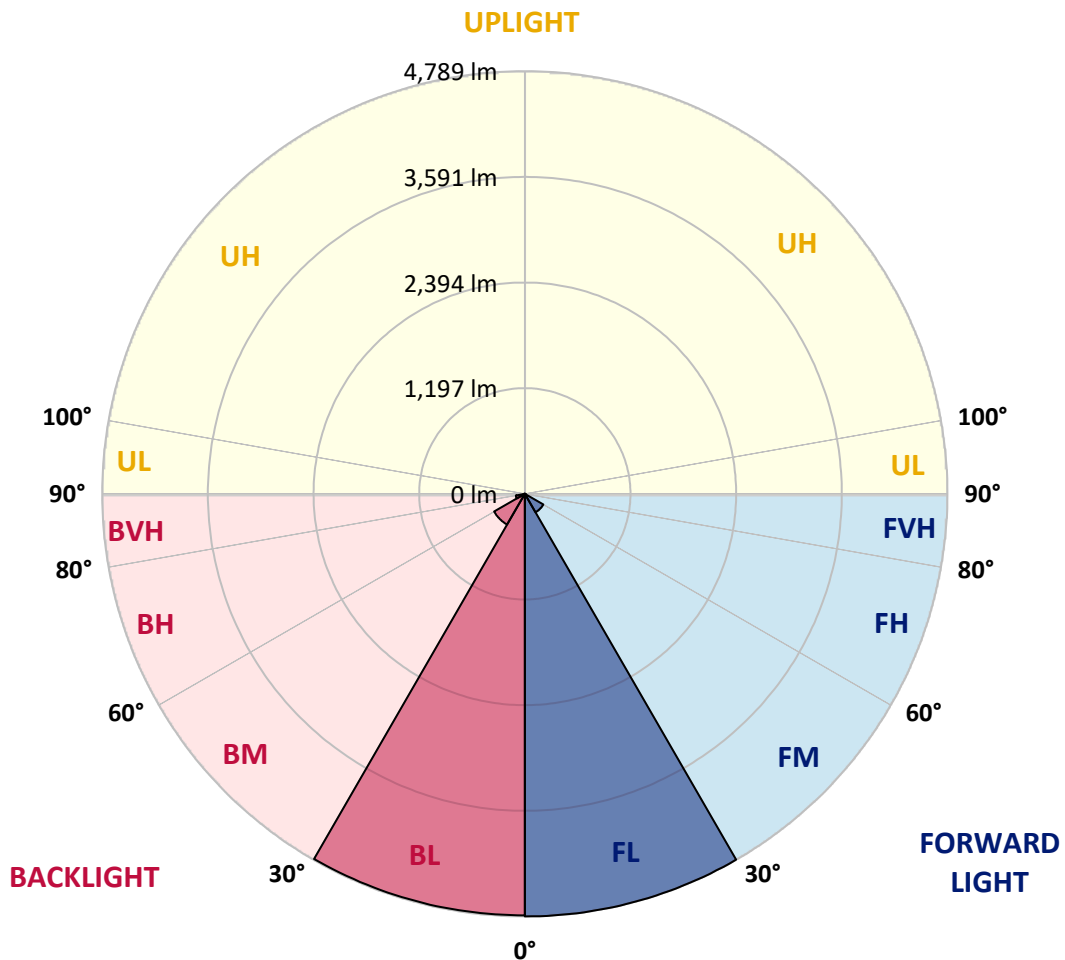


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4788.6	46.3			
FM (30°-60°)	241.6	2.3			
FH (60°-80°)	11.4	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	4777.3	46.2	B4/5000		
BM (30°-60°)	402.1	3.9	B1/1000		
BH (60°-80°)	103.8	1.0	B0/110		G0/660
BVH (80°-90°)	12.6	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2
1°	101476.5	101166.8	100367.2	100935.9	101435.9	101290.7	101280.5	101226.5	101151.0	101743.4
2°	97420.1	97219.6	96037.2	96524.8	97235.4	96717.3	97041.7	96756.8	96762.4	97469.6
3°	90582.1	90691.3	88805.0	89691.3	90678.9	89423.3	89812.9	90544.9	89778.0	89547.1
4°	81694.5	80746.3	79715.8	80616.7	80872.4	80141.5	80860.0	81756.4	80691.1	80738.4
5°	71547.8	70847.4	69627.8	70184.1	69550.0	69780.9	70857.5	71226.9	70483.6	69547.8
6°	61115.2	60617.4	59092.6	59894.4	59669.2	59538.6	60897.8	59771.7	60177.1	59610.6
7°	50835.6	49905.4	49156.6	49924.6	49974.1	49581.1	51345.8	51140.8	50403.2	50232.0
8°	42118.1	41190.2	40556.1	41128.2	41502.1	40885.0	41714.9	42260.0	41683.4	41735.2
9°	33970.4	33807.1	32925.3	33673.1	34079.6	33418.6	34337.5	34534.6	33995.2	34257.6
10°	27892.5	27702.2	26998.4	27301.3	27974.8	27186.4	28068.2	28132.4	27702.2	27825.0
12.5°	17236.9	17160.3	17141.2	17185.1	17176.1	17315.7	17541.0	17284.2	17250.4	16825.8
15°	11141.0	11254.8	11137.6	11362.9	11395.5	11527.3	11389.9	11182.7	10787.4	10591.5
17.5°	6952.9	7098.1	7298.6	7628.6	7958.5	7996.8	7814.4	7571.1	7379.7	7170.2
20°	4000.1	4071.0	4040.6	4435.9	5289.5	5521.5	5286.2	5030.5	4799.7	4587.9
22.5°	2485.4	2459.5	2506.8	2639.7	2917.9	3635.2	3442.6	3187.0	3019.2	2844.7
25°	1523.7	1551.8	1533.8	1607.0	1732.0	2036.1	2080.0	1969.6	1884.1	1794.0
27.5°	980.9	980.9	988.8	1029.3	1114.9	1104.8	1339.0	1253.4	1207.2	1163.3
30°	681.3	683.6	683.6	707.2	726.4	692.6	753.4	863.8	842.4	808.6
32.5°	505.6	512.4	518.0	530.4	514.7	478.6	493.3	621.6	609.2	596.9
35°	385.1	390.8	404.3	411.0	388.5	366.0	352.5	457.2	462.8	459.5
37.5°	280.4	283.8	308.6	334.5	308.6	288.3	280.4	351.4	378.4	375.0
40°	215.1	216.2	220.7	250.0	250.0	234.2	236.5	262.4	309.7	309.7
42.5°	184.7	184.7	189.2	184.7	185.8	202.7	208.3	211.7	262.4	262.4
45°	159.9	159.9	162.2	150.9	139.6	174.6	179.1	180.2	220.7	226.4
47.5°	134.0	134.0	138.5	123.9	118.2	138.5	150.9	154.3	190.3	194.8
50°	99.1	100.2	113.7	101.4	104.7	107.0	130.6	132.9	161.0	171.2
52.5°	66.4	66.4	68.7	78.8	91.2	87.8	105.9	113.7	128.4	141.9
55°	54.1	54.1	52.9	50.7	67.6	73.2	77.7	94.6	104.7	121.6
57.5°	37.2	39.4	36.0	41.7	43.9	55.2	58.6	74.3	80.0	102.5
60°	4.5	5.6	7.9	30.4	29.3	37.2	43.9	58.6	65.3	78.8
62.5°	1.1	1.1	2.3	5.6	20.3	24.8	34.9	40.5	47.3	60.8
65°	0.0	0.0	1.1	2.3	4.5	13.5	18.0	23.6	33.8	42.8
67.5°	0.0	0.0	1.1	2.3	2.3	5.6	9.0	14.6	18.0	31.5
70°	0.0	0.0	1.1	2.3	2.3	4.5	5.6	6.8	12.4	16.9
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.6	5.6	5.6	11.3
75°	0.0	0.0	1.1	2.3	3.4	4.5	5.6	5.6	4.5	4.5
77.5°	0.0	0.0	1.1	2.3	4.5	5.6	6.8	5.6	3.4	3.4
80°	0.0	0.0	1.1	3.4	5.6	7.9	9.0	6.8	3.4	2.3
82.5°	0.0	0.0	2.3	4.5	6.8	9.0	12.4	10.1	4.5	2.3
85°	0.0	0.0	1.1	3.4	6.8	9.0	18.0	12.4	5.6	1.1
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	6.8	4.5	2.3	1.1
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°
102706.2	0°	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2	102706.2
101059.8	1°	101765.9	101836.8	101604.9	101964.1	101838.0	101099.2	100854.8	100565.4	100148.7
97054.1	2°	96756.8	97118.3	97136.3	97534.9	97529.3	96667.8	96400.9	96893.0	95932.4
90015.6	3°	89743.1	90164.3	89784.8	90493.1	90280.3	89235.2	88963.8	89522.4	88824.1
81112.3	4°	80870.1	80790.2	80659.5	80256.4	80753.0	80040.2	79503.0	80260.9	78767.6
70788.8	5°	70646.9	70469.0	70214.5	70095.1	70464.5	70008.4	68903.6	70010.6	67347.3
60635.4	6°	60709.8	59944.0	59906.8	59840.4	59877.5	58600.5	58677.0	59501.4	57285.1
49643.1	7°	50167.8	50308.6	50021.4	50482.0	50130.7	49265.8	48932.4	49800.7	48234.2
41962.7	8°	41669.9	41492.0	41272.4	41960.4	41351.2	40783.6	40395.1	41080.9	39917.6
34300.4	9°	34236.2	33928.7	33705.7	33670.8	33765.4	32700.1	32916.3	33435.5	32735.0
27892.5	10°	27902.7	27398.2	27520.9	27553.6	27450.0	26751.8	26758.5	26937.6	26095.2
17107.4	12.5°	17046.6	16798.8	16860.8	16894.5	17105.1	16859.6	16512.8	16262.8	16136.6
10786.3	15°	10714.2	10536.3	10900.0	11144.4	11094.9	10876.4	10713.1	10486.7	10304.3
7170.2	17.5°	7103.8	7336.9	7338.0	7561.0	7583.5	7365.0	7238.9	7035.1	7044.1
4663.4	20°	4646.5	4743.4	4944.9	5102.6	5193.8	5027.1	4876.2	4736.6	4678.0
2907.7	22.5°	2907.7	3076.6	3202.8	3407.7	3491.1	3369.4	3262.5	3148.7	3078.9
1815.4	25°	1785.0	1905.4	2010.2	2188.1	2301.9	2243.3	2145.3	2065.4	2028.2
1172.3	27.5°	1190.3	1241.0	1292.8	1415.6	1533.8	1501.2	1461.7	1413.3	1396.4
826.6	30°	839.0	843.5	898.7	967.4	1046.2	1066.5	1048.4	1023.7	1004.5
607.0	32.5°	618.3	636.3	662.2	705.0	757.9	806.3	797.3	786.1	777.0
464.0	35°	477.5	504.5	525.9	558.6	586.7	632.9	640.8	637.4	630.6
381.8	37.5°	389.6	413.3	434.7	453.8	477.5	509.0	533.8	534.9	528.2
315.3	40°	323.2	344.6	372.8	387.4	404.3	427.9	458.3	460.6	458.3
266.9	42.5°	272.5	292.8	321.0	339.0	351.4	373.9	404.3	408.8	404.3
228.6	45°	234.2	246.6	275.9	297.3	309.7	324.3	357.0	361.5	360.4
197.1	47.5°	203.8	216.2	234.2	264.6	275.9	289.4	315.3	323.2	323.2
174.6	50°	179.1	191.4	207.2	234.2	251.1	262.4	283.8	295.1	295.1
152.0	52.5°	158.8	171.2	188.1	209.5	228.6	238.7	259.0	273.7	273.7
123.9	55°	132.9	154.3	166.7	185.8	211.7	220.7	236.5	255.6	255.6
108.1	57.5°	116.0	134.0	152.0	167.8	193.7	205.0	220.7	238.7	241.0
85.6	60°	98.0	114.9	136.3	149.8	174.6	189.2	206.1	223.0	227.5
65.3	62.5°	77.7	100.2	114.9	134.0	157.7	176.8	190.3	207.2	214.0
50.7	65°	57.4	82.2	99.1	119.4	141.9	162.2	173.4	191.4	196.0
36.0	67.5°	41.7	64.2	84.5	103.6	125.0	145.3	156.5	172.3	175.7
22.5	70°	32.7	47.3	69.8	86.7	109.2	126.1	138.5	148.7	152.0
14.6	72.5°	19.1	36.0	56.3	75.5	95.7	107.0	116.0	125.0	127.3
6.8	75°	12.4	28.2	46.2	63.1	77.7	87.8	95.7	103.6	104.7
3.4	77.5°	7.9	20.3	37.2	52.9	59.7	72.1	78.8	83.3	81.1
2.3	80°	4.5	15.8	32.7	42.8	48.4	56.3	63.1	68.7	63.1
2.3	82.5°	3.4	13.5	27.0	36.0	36.0	45.0	48.4	48.4	46.2
1.1	85°	2.3	11.3	21.4	33.8	27.0	33.8	31.5	31.5	31.5
1.1	87.5°	2.3	7.9	10.1	14.6	12.4	14.6	14.6	16.9	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
102706.2
99419.0
94808.5
87041.4
77517.6
67093.9
57111.7
47439.2
39122.5
31813.8
25719.1
16110.7
10370.7
6984.4
4688.2
3087.9
2019.2
1385.2
1006.8
777.0
626.1
527.0
457.2
405.4
360.4
324.3
296.2
273.7
256.8
239.9
227.5
215.1
194.8
173.4
152.0
127.3
103.6
81.1
61.9
45.0
30.4
16.9
0.0

(END OF REPORT)