

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: P637028

Luminaire Tested: **IFLD-S-SA2B-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637028
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9496 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

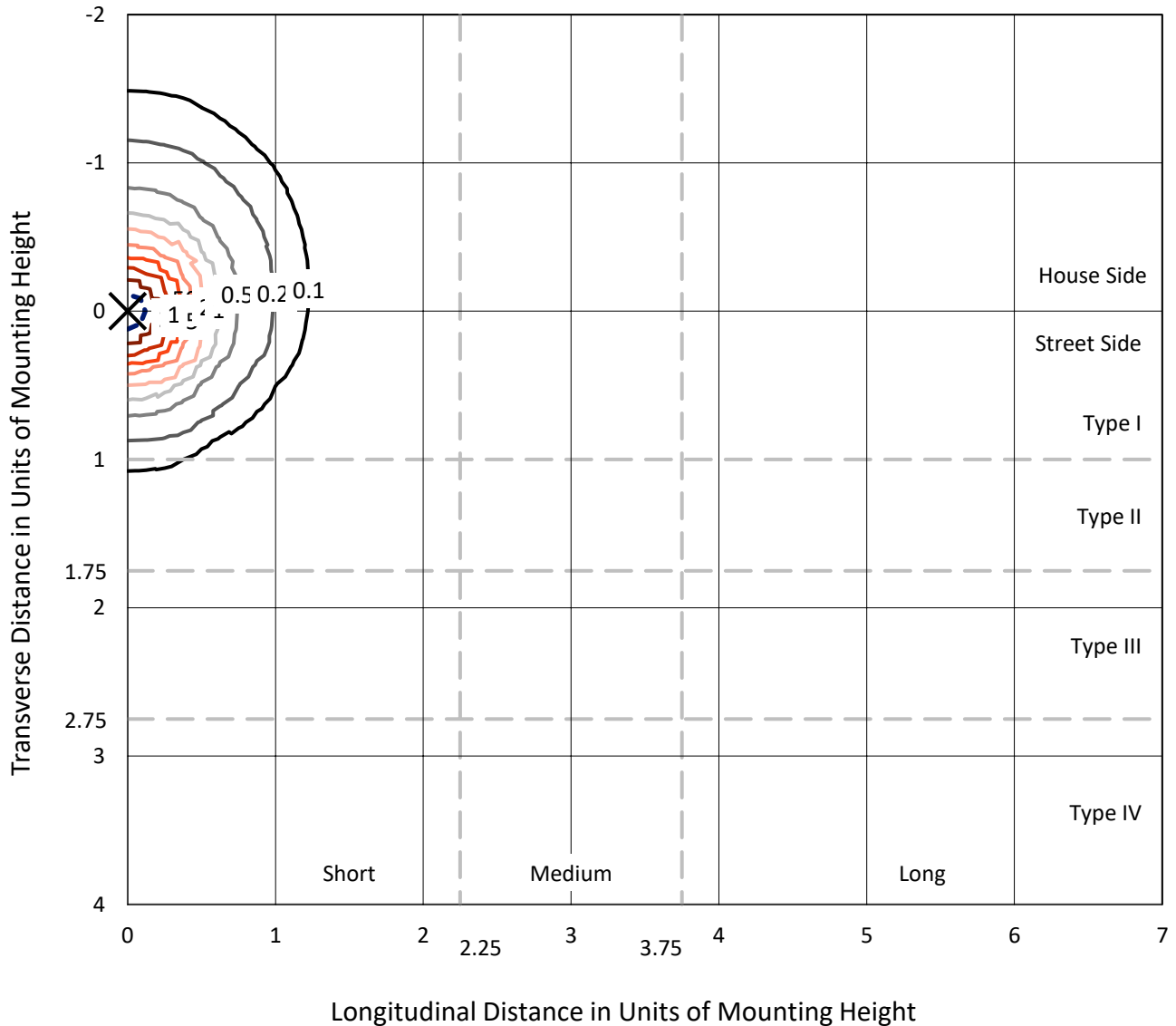
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

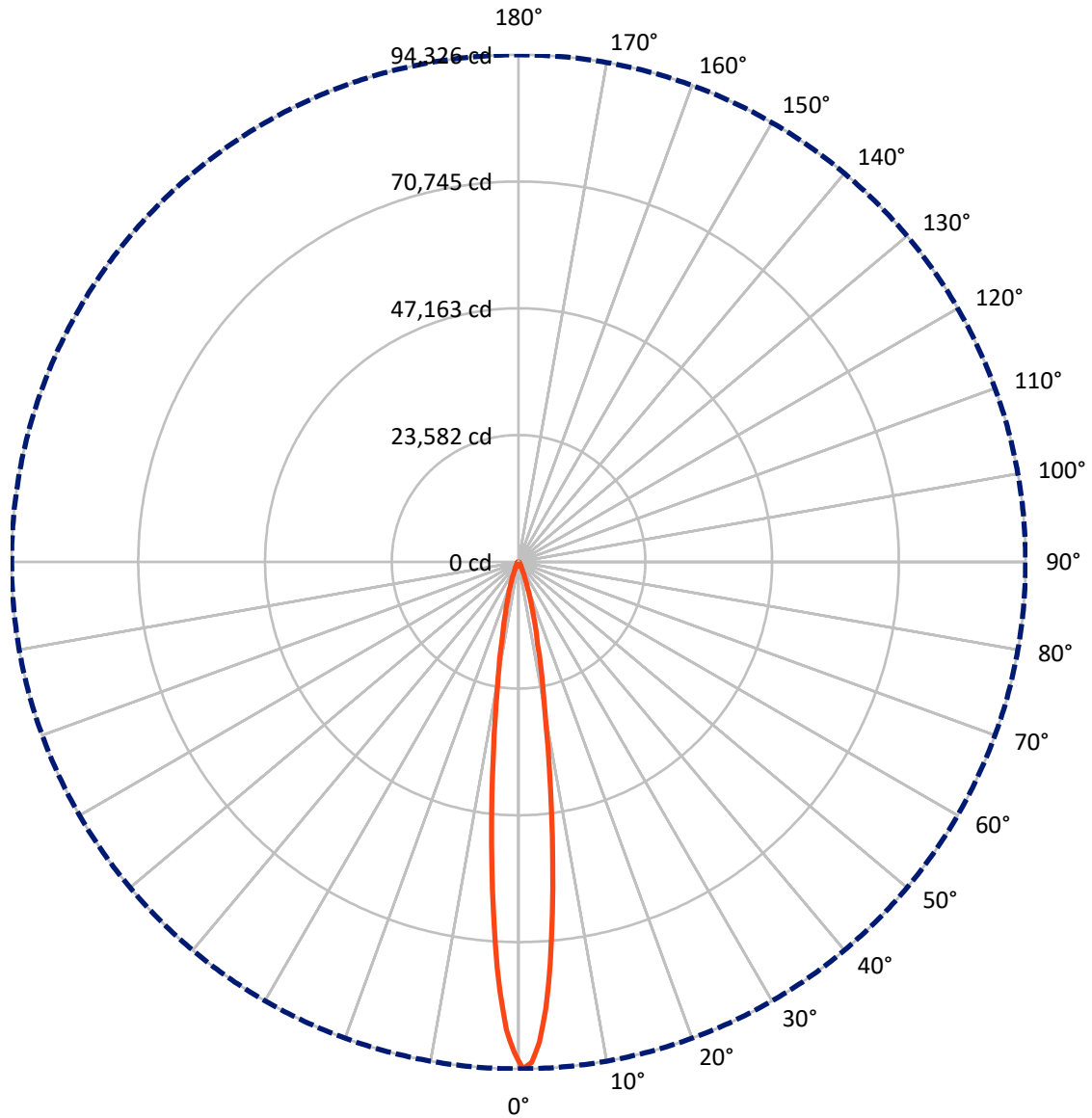
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 235.8 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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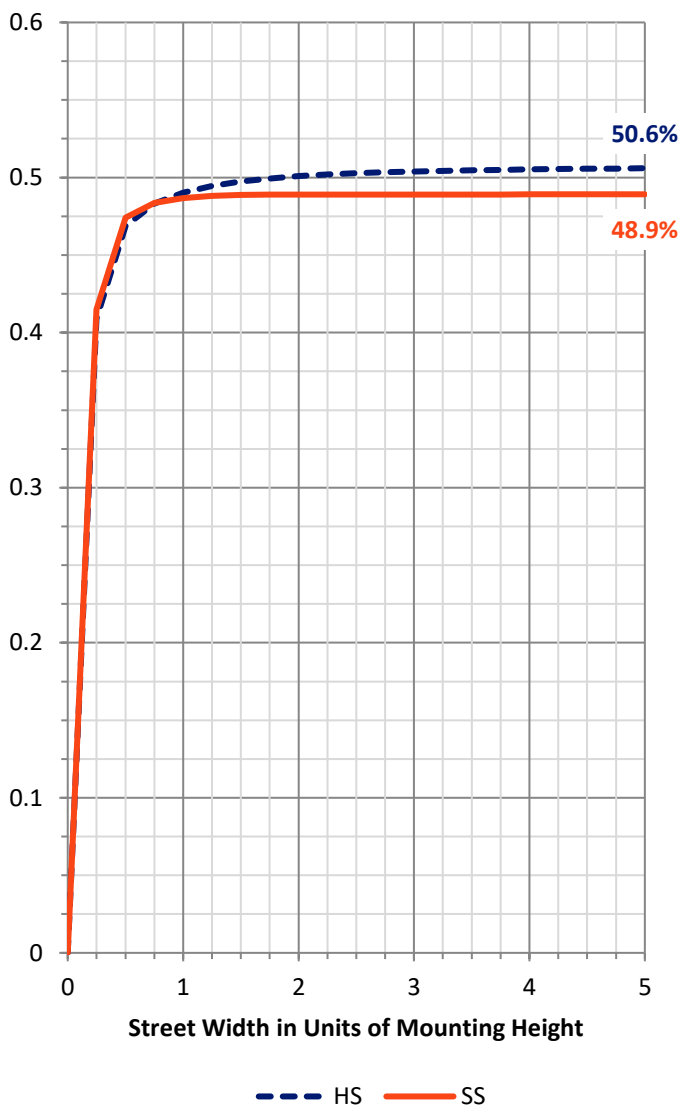
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4863.7	0.0	4863.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4632.3	0.0	4632.3
	% Fixture	48.8	0.0	48.8
Total	Lumens	9496.0	0.0	9496.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4793.9	50.5
10°-20°	3069.0	32.3
20°-30°	922.5	9.7
30°-40°	300.4	3.2
40°-50°	174.8	1.8
50°-60°	116.1	1.2
60°-70°	69.9	0.7
70°-80°	35.9	0.4
80°-90°	13.6	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°	9496.0	100.0
0°-180°	9496.0	100.0

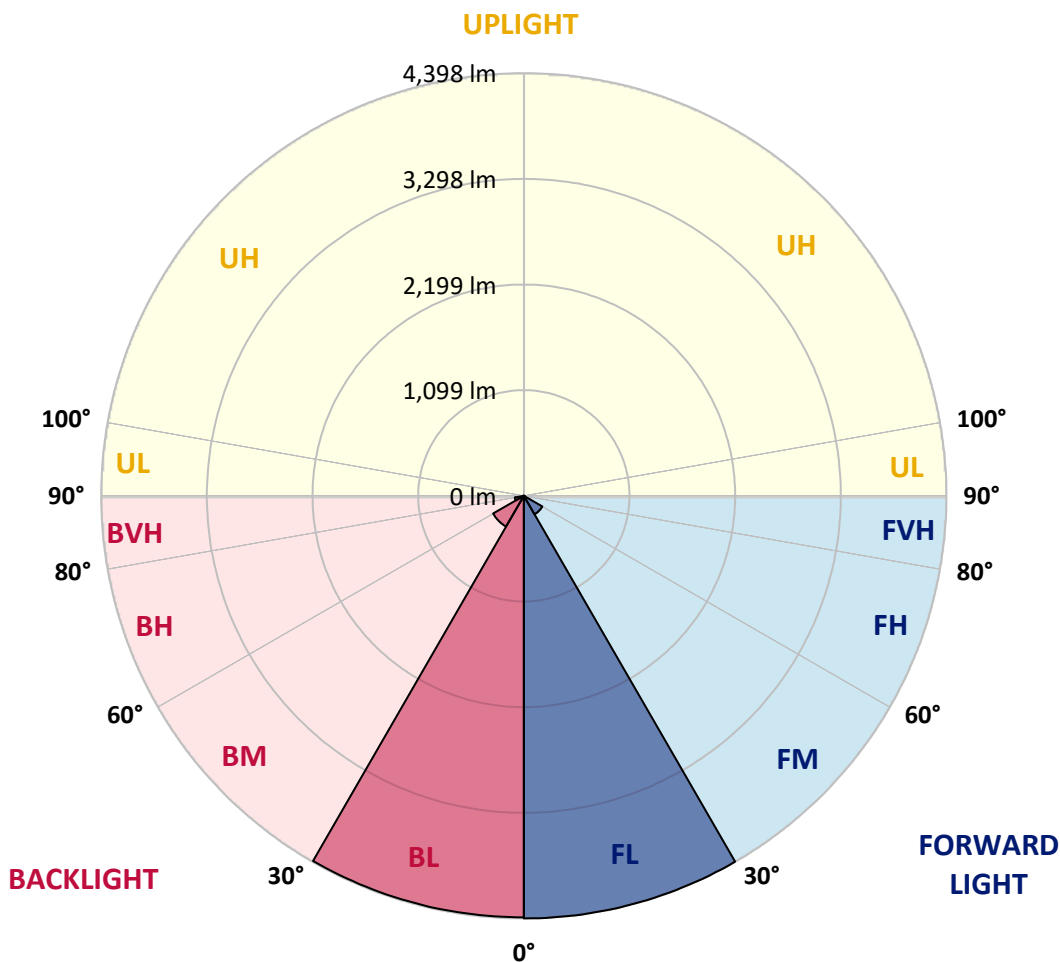


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4397.9	46.3			
FM (30°-60°)	221.9	2.3			
FH (60°-80°)	10.4	0.1			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	4387.5	46.2	B4/5000		
BM (30°-60°)	369.3	3.9	B1/1000		
BH (60°-80°)	95.3	1.0	B0/110		G0/660
BVH (80°-90°)	11.6	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°	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0
1°	93196.5	92912.1	92177.8	92700.1	93159.3	93025.9	93016.6	92966.9	92897.6	93441.7
2°	89471.1	89287.0	88201.0	88648.9	89301.5	88825.7	89123.6	88861.9	88867.1	89516.6
3°	83191.1	83291.4	81559.0	82373.0	83280.0	82126.8	82484.7	83156.9	82452.6	82240.6
4°	75028.7	74157.8	73211.4	74038.9	74273.6	73602.4	74262.3	75085.5	74107.1	74150.6
5°	65709.9	65066.6	63946.5	64457.4	63875.1	64087.2	65075.9	65415.2	64732.5	63873.1
6°	56128.5	55671.4	54271.0	55007.4	54800.5	54680.5	55928.9	54894.6	55267.0	54746.7
7°	46687.7	45833.4	45145.6	45851.0	45896.5	45535.6	47156.3	46968.0	46290.6	46133.4
8°	38681.5	37829.3	37247.0	37772.4	38115.8	37549.0	38311.2	38811.8	38282.3	38329.8
9°	31198.6	31048.6	30238.8	30925.5	31298.9	30691.8	31535.8	31716.8	31221.3	31462.3
10°	25616.7	25441.9	24795.5	25073.7	25692.2	24968.2	25778.0	25837.0	25441.9	25554.6
12.5°	15830.5	15760.1	15742.5	15782.9	15774.6	15902.9	16109.7	15873.9	15842.9	15452.9
15°	10232.0	10336.4	10228.9	10435.7	10465.7	10586.7	10460.6	10270.2	9907.2	9727.3
17.5°	6385.5	6519.0	6703.1	7006.1	7309.1	7344.3	7176.8	6953.4	6777.5	6585.2
20°	3673.7	3738.9	3710.9	4074.0	4857.9	5071.0	4854.8	4620.1	4408.0	4213.6
22.5°	2282.6	2258.8	2302.3	2424.3	2679.8	3338.6	3161.7	2927.0	2772.9	2612.6
25°	1399.4	1425.2	1408.7	1475.9	1590.7	1870.0	1910.3	1808.9	1730.3	1647.6
27.5°	900.8	900.8	908.1	945.3	1023.9	1014.6	1229.7	1151.1	1108.7	1068.4
30°	625.7	627.8	627.8	649.5	667.1	636.1	691.9	793.3	773.6	742.6
32.5°	464.4	470.6	475.8	487.1	472.7	439.6	453.0	570.9	559.5	548.2
35°	353.7	358.9	371.3	377.5	356.8	336.1	323.7	419.9	425.1	422.0
37.5°	257.5	260.6	283.4	307.2	283.4	264.8	257.5	322.7	347.5	344.4
40°	197.5	198.6	202.7	229.6	229.6	215.1	217.2	241.0	284.4	284.4
42.5°	169.6	169.6	173.8	169.6	170.7	186.2	191.3	194.4	241.0	241.0
45°	146.9	146.9	148.9	138.6	128.2	160.3	164.4	165.5	202.7	207.9
47.5°	123.1	123.1	127.2	113.8	108.6	127.2	138.6	141.7	174.8	178.9
50°	91.0	92.0	104.5	93.1	96.2	98.3	120.0	122.0	147.9	157.2
52.5°	61.0	61.0	63.1	72.4	83.8	80.7	97.2	104.5	117.9	130.3
55°	49.6	49.6	48.6	46.5	62.1	67.2	71.4	86.9	96.2	111.7
57.5°	34.1	36.2	33.1	38.3	40.3	50.7	53.8	68.3	73.4	94.1
60°	4.1	5.2	7.2	27.9	26.9	34.1	40.3	53.8	60.0	72.4
62.5°	1.0	1.0	2.1	5.2	18.6	22.8	32.1	37.2	43.4	55.9
65°	0.0	0.0	1.0	2.1	4.1	12.4	16.5	21.7	31.0	39.3
67.5°	0.0	0.0	1.0	2.1	2.1	5.2	8.3	13.4	16.5	29.0
70°	0.0	0.0	1.0	2.1	2.1	4.1	5.2	6.2	11.4	15.5
72.5°	0.0	0.0	1.0	2.1	3.1	4.1	5.2	5.2	5.2	10.3
75°	0.0	0.0	1.0	2.1	3.1	4.1	5.2	5.2	4.1	4.1
77.5°	0.0	0.0	1.0	2.1	4.1	5.2	6.2	5.2	3.1	3.1
80°	0.0	0.0	1.0	3.1	5.2	7.2	8.3	6.2	3.1	2.1
82.5°	0.0	0.0	2.1	4.1	6.2	8.3	11.4	9.3	4.1	2.1
85°	0.0	0.0	1.0	3.1	6.2	8.3	16.5	11.4	5.2	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.1	6.2	4.1	2.1	1.0
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°
94326.0	0°	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0	94326.0
92813.9	1°	93462.3	93527.5	93314.4	93644.4	93528.5	92850.1	92625.6	92359.8	91977.1
89135.0	2°	88861.9	89193.9	89210.5	89576.6	89571.4	88780.2	88535.1	88987.1	88104.9
82670.8	3°	82420.5	82807.4	82458.8	83109.4	82913.9	81954.1	81704.8	82217.8	81576.6
74493.9	4°	74271.6	74198.1	74078.2	73707.9	74164.0	73509.3	73016.0	73712.0	72340.6
65012.8	5°	64882.5	64719.1	64485.4	64375.7	64715.0	64296.1	63281.5	64298.2	61852.1
55687.9	6°	55756.2	55052.9	55018.7	54957.7	54991.8	53819.0	53889.3	54646.4	52611.0
45592.4	7°	46074.4	46203.7	45940.0	46363.0	46040.3	45246.0	44939.8	45737.2	44298.6
38538.8	8°	38269.9	38106.4	37904.8	38536.7	37977.2	37455.9	37099.1	37728.9	36660.5
31501.6	9°	31442.7	31160.3	30955.5	30923.5	31010.4	30031.9	30230.5	30707.3	30064.0
25616.7	10°	25626.0	25162.6	25275.4	25305.4	25210.2	24569.0	24575.2	24739.6	23966.0
15711.5	12.5°	15655.7	15428.1	15485.0	15516.0	15709.4	15484.0	15165.4	14935.8	14820.0
9906.2	15°	9840.0	9676.6	10010.6	10235.1	10189.6	9988.9	9839.0	9631.1	9463.5
6585.2	17.5°	6524.1	6738.2	6739.3	6944.1	6964.7	6764.1	6648.3	6461.1	6469.3
4282.9	20°	4267.4	4356.3	4541.5	4686.3	4770.0	4617.0	4478.4	4350.1	4296.3
2670.5	22.5°	2670.5	2825.6	2941.4	3129.7	3206.2	3094.5	2996.3	2891.8	2827.7
1667.2	25°	1639.3	1750.0	1846.2	2009.6	2114.0	2060.3	1970.3	1896.8	1862.7
1076.7	27.5°	1093.2	1139.8	1187.3	1300.1	1408.7	1378.7	1342.5	1298.0	1282.5
759.2	30°	770.5	774.7	825.3	888.4	960.8	979.4	962.9	940.1	922.6
557.5	32.5°	567.8	584.4	608.1	647.4	696.1	740.5	732.3	721.9	713.6
426.1	35°	438.5	463.4	483.0	513.0	538.9	581.3	588.5	585.4	579.2
350.6	37.5°	357.9	379.6	399.2	416.8	438.5	467.5	490.2	491.3	485.1
289.6	40°	296.8	316.5	342.3	355.8	371.3	393.0	420.9	423.0	420.9
245.1	42.5°	250.3	268.9	294.8	311.3	322.7	343.4	371.3	375.4	371.3
210.0	45°	215.1	226.5	253.4	273.0	284.4	297.9	327.9	332.0	331.0
181.0	47.5°	187.2	198.6	215.1	243.1	253.4	265.8	289.6	296.8	296.8
160.3	50°	164.4	175.8	190.3	215.1	230.6	241.0	260.6	271.0	271.0
139.6	52.5°	145.8	157.2	172.7	192.4	210.0	219.3	237.9	251.3	251.3
113.8	55°	122.0	141.7	153.1	170.7	194.4	202.7	217.2	234.8	234.8
99.3	57.5°	106.5	123.1	139.6	154.1	177.9	188.2	202.7	219.3	221.3
78.6	60°	90.0	105.5	125.1	137.6	160.3	173.8	189.3	204.8	208.9
60.0	62.5°	71.4	92.0	105.5	123.1	144.8	162.4	174.8	190.3	196.5
46.5	65°	52.7	75.5	91.0	109.6	130.3	148.9	159.3	175.8	180.0
33.1	67.5°	38.3	59.0	77.6	95.2	114.8	133.4	143.8	158.2	161.3
20.7	70°	30.0	43.4	64.1	79.6	100.3	115.8	127.2	136.5	139.6
13.4	72.5°	17.6	33.1	51.7	69.3	87.9	98.3	106.5	114.8	116.9
6.2	75°	11.4	25.9	42.4	57.9	71.4	80.7	87.9	95.2	96.2
3.1	77.5°	7.2	18.6	34.1	48.6	54.8	66.2	72.4	76.5	74.5
2.1	80°	4.1	14.5	30.0	39.3	44.5	51.7	57.9	63.1	57.9
2.1	82.5°	3.1	12.4	24.8	33.1	33.1	41.4	44.5	44.5	42.4
1.0	85°	2.1	10.3	19.7	31.0	24.8	31.0	29.0	29.0	29.0
1.0	87.5°	2.1	7.2	9.3	13.4	11.4	13.4	13.4	15.5	15.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
94326.0
91306.9
87072.7
79939.3
71192.6
61619.4
52451.7
43568.4
35930.3
29218.0
23620.5
14796.2
9524.5
6414.5
4305.6
2836.0
1854.4
1272.1
924.6
713.6
575.1
484.0
419.9
372.3
331.0
297.9
272.0
251.3
235.8
220.3
208.9
197.5
178.9
159.3
139.6
116.9
95.2
74.5
56.9
41.4
27.9
15.5
0.0

(END OF REPORT)