

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: P637516

Luminaire Tested: **IFLD-L-SA8A-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637516
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26253.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

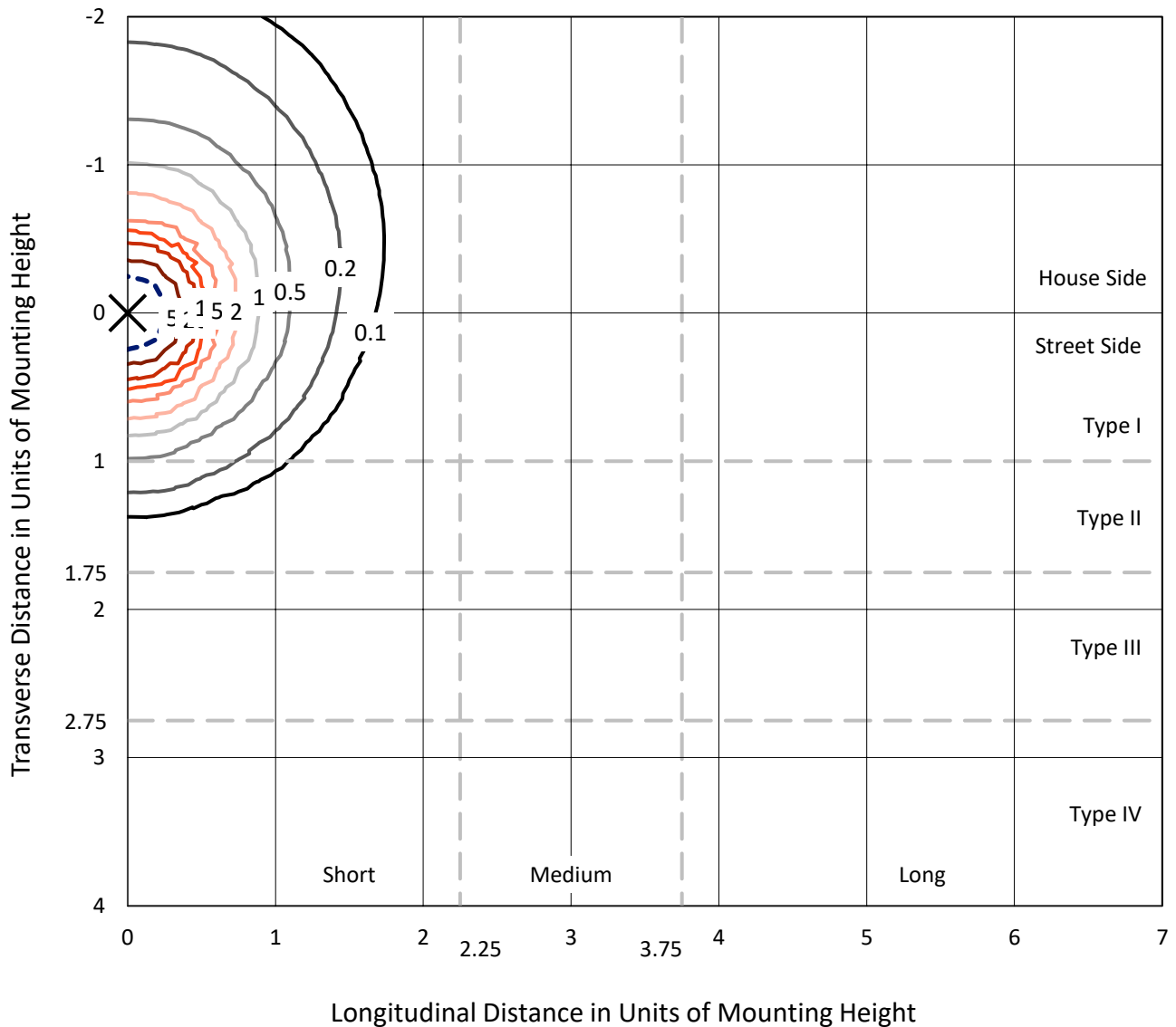
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

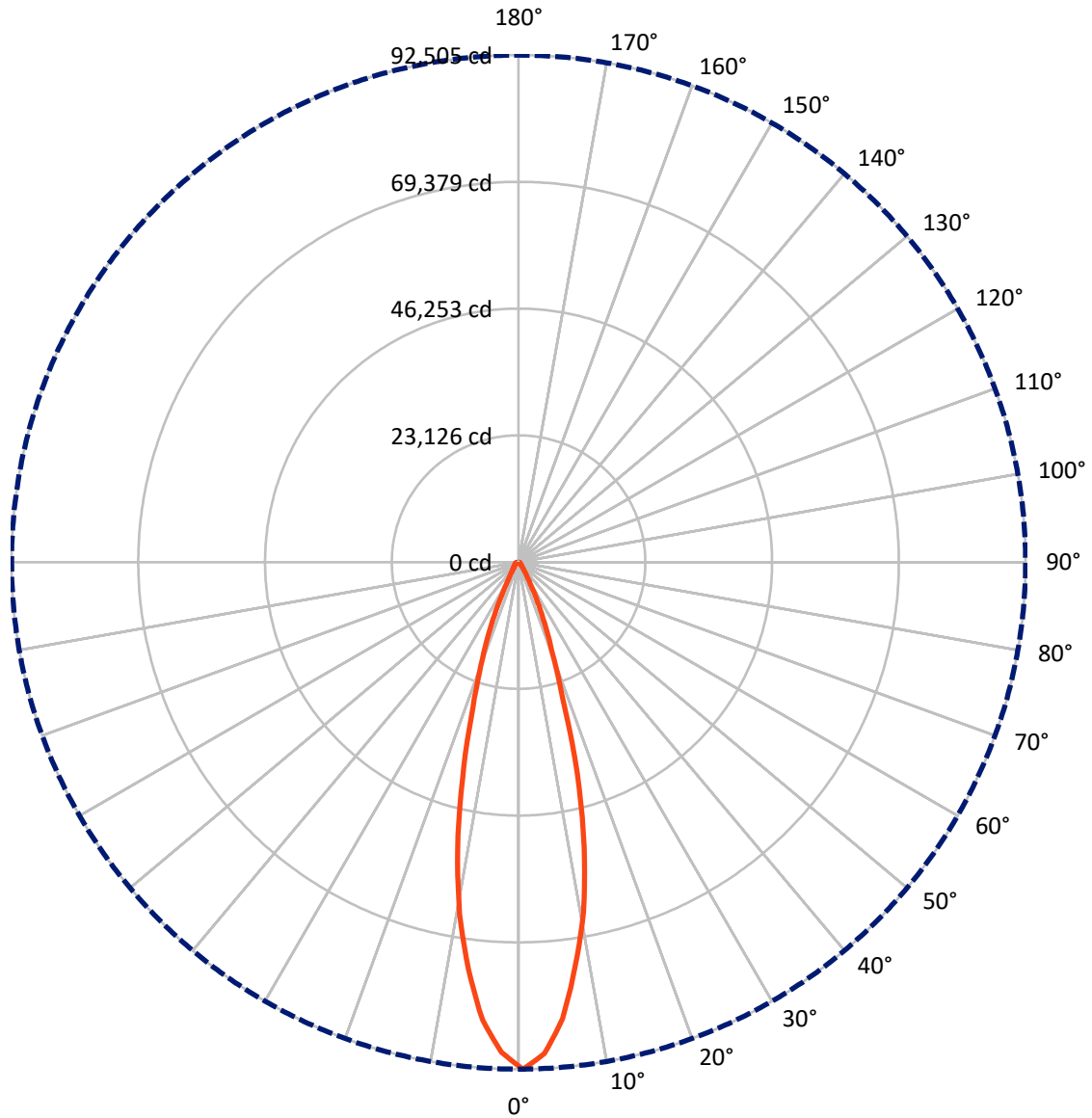
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 231.3 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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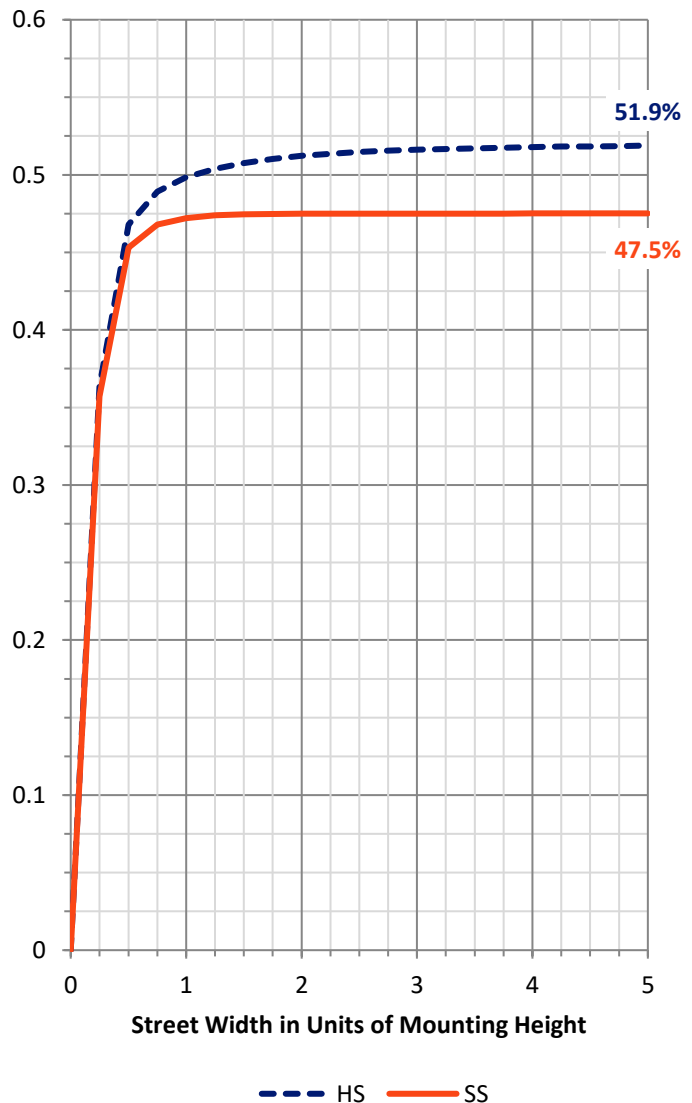
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13842.5	0.0	13842.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12410.7	0.0	12410.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	26253.2	0.0	26253.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7466.0	28.4
10°-20°	11307.2	43.1
20°-30°	4771.7	18.2
30°-40°	1244.5	4.7
40°-50°	629.5	2.4
50°-60°	411.4	1.6
60°-70°	246.5	0.9
70°-80°	129.7	0.5
80°-90°	46.8	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°	26253.2	100.0
0°-180°	26253.2	100.0

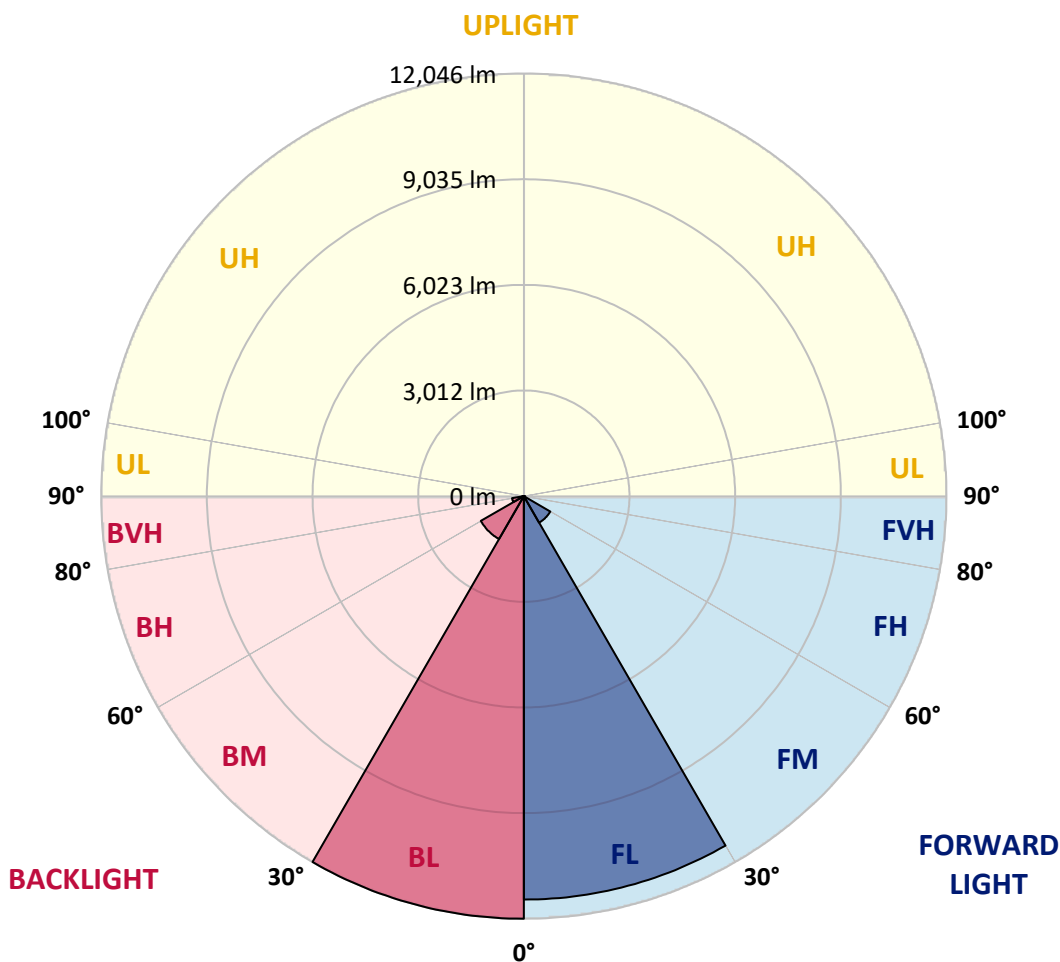


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11498.7	43.8			
FM (30°-60°)	870.8	3.3			
FH (60°-80°)	35.5	0.1			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	12046.1	45.9	B5		
BM (30°-60°)	1414.6	5.4	B2/2500		
BH (60°-80°)	340.7	1.3	B1/500		G0/660
BVH (80°-90°)	41.1	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0
2.5°	89810.3	89860.4	89674.7	90075.7	89763.1	90600.5	90184.8	90833.4	90615.2	90977.8
5°	83677.9	83595.4	83542.3	84164.4	83984.5	84883.8	84308.8	84120.2	84703.9	84597.8
7.5°	74417.4	74635.6	74511.7	74673.9	74765.3	75791.3	76115.6	75862.0	75870.9	76018.3
10°	64923.9	64602.6	64145.6	64449.3	65092.0	65540.1	65360.3	65731.8	65649.2	66000.1
12.5°	53242.9	53496.4	53239.9	52968.7	54092.0	53968.2	54280.7	54484.1	53974.1	55109.1
15°	40105.4	40238.0	40550.6	40529.9	41393.8	41567.7	41526.4	41741.7	41343.6	41532.3
17.5°	25765.0	26213.1	27053.4	28474.4	30072.4	30258.1	30211.0	30034.1	29842.4	29630.2
20°	17306.4	17259.2	17562.9	17978.6	21286.5	22162.2	22135.6	21581.4	20779.4	20626.1
22.5°	12123.3	12211.8	12170.5	12583.2	13267.2	15681.9	15384.1	14821.0	14558.6	14387.6
25°	7975.1	7942.6	8149.0	8272.9	8859.6	9154.4	10198.1	9988.8	9584.8	9629.1
27.5°	4861.7	4903.0	4979.6	5085.8	5501.5	5407.1	6002.7	6082.3	5952.6	5814.0
30°	2983.7	3013.1	3075.0	3151.7	3296.2	3193.0	3358.1	3644.1	3596.9	3499.6
32.5°	2025.5	2028.4	2072.6	2102.1	2084.4	1987.1	2040.2	2311.4	2317.3	2308.5
35°	1456.4	1456.4	1497.7	1521.3	1471.2	1391.6	1400.4	1568.5	1642.2	1656.9
37.5°	1005.4	1008.3	1079.1	1149.8	1093.8	1073.2	1037.8	1149.8	1267.8	1285.4
40°	763.6	760.7	796.0	849.1	855.0	816.7	828.5	899.2	1020.1	1034.8
42.5°	619.1	622.1	639.8	633.9	636.8	686.9	704.6	737.1	849.1	875.6
45°	521.8	524.8	533.6	504.2	492.4	569.0	592.6	610.3	704.6	737.1
47.5°	430.4	436.3	445.2	412.8	406.9	457.0	498.3	515.9	598.5	633.9
50°	309.6	315.5	347.9	330.2	347.9	359.7	415.7	442.2	498.3	545.4
52.5°	224.1	230.0	238.8	241.8	286.0	291.9	333.2	374.4	401.0	454.0
55°	176.9	182.8	176.9	171.0	209.3	241.8	256.5	300.7	321.4	383.3
57.5°	100.2	106.1	115.0	132.7	138.6	185.7	200.5	238.8	256.5	315.5
60°	17.7	20.6	32.4	79.6	97.3	117.9	150.4	182.8	206.4	247.7
62.5°	2.9	2.9	5.9	17.7	56.0	82.6	109.1	129.7	150.4	188.7
65°	0.0	0.0	2.9	5.9	14.7	47.2	59.0	76.7	103.2	135.6
67.5°	0.0	0.0	2.9	5.9	8.8	17.7	26.5	47.2	59.0	91.4
70°	0.0	0.0	2.9	5.9	8.8	11.8	14.7	20.6	35.4	56.0
72.5°	0.0	0.0	2.9	5.9	8.8	11.8	14.7	17.7	17.7	35.4
75°	0.0	0.0	2.9	5.9	8.8	14.7	17.7	17.7	14.7	14.7
77.5°	0.0	0.0	2.9	5.9	11.8	17.7	20.6	17.7	11.8	11.8
80°	0.0	0.0	5.9	8.8	14.7	20.6	26.5	20.6	11.8	5.9
82.5°	0.0	0.0	5.9	11.8	14.7	23.6	32.4	26.5	11.8	5.9
85°	0.0	0.0	2.9	8.8	17.7	23.6	32.4	23.6	11.8	2.9
87.5°	0.0	0.0	2.9	2.9	5.9	8.8	17.7	14.7	5.9	2.9
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°
92505.0	0°	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0	92505.0
90290.9	2.5°	90809.8	91281.5	91378.8	91249.1	91437.8	91098.7	90839.3	90167.1	89763.1
84565.3	5°	85110.8	85040.0	85532.4	85694.5	85673.9	85414.4	85051.8	84644.9	84249.9
75732.3	7.5°	76204.0	76295.4	76743.6	77029.6	76885.1	76560.8	76310.2	76003.6	75738.2
66126.8	10°	66731.2	66103.2	66660.5	66660.5	67046.7	66129.8	66215.3	65442.8	65478.2
55088.5	12.5°	55277.2	55504.2	55595.6	55858.0	55406.9	54920.4	54324.9	54207.0	53838.4
41172.6	15°	41765.2	42413.9	41856.6	42808.9	42349.0	41841.9	41750.5	40836.5	41125.5
29863.1	17.5°	29715.7	30432.1	30656.2	31201.6	30782.9	30482.2	30101.9	29824.7	29804.1
20906.2	20°	21071.3	21790.7	21955.8	22610.3	22563.1	22468.8	22147.4	21796.6	21416.3
14231.3	22.5°	14446.5	15033.2	15581.6	16463.2	16448.4	16171.3	16138.9	15643.5	15652.4
9614.3	25°	9714.6	10142.1	10271.8	11174.0	11274.2	11244.7	11076.7	10616.7	10790.7
5873.0	27.5°	5878.9	6253.3	6692.6	7011.0	7311.7	7264.5	7096.5	6840.0	6728.0
3529.1	30°	3623.4	3791.5	3953.6	4336.9	4516.8	4611.1	4531.5	4292.7	4310.4
2323.2	32.5°	2373.4	2514.9	2632.8	2874.6	2968.9	3142.9	3110.4	3060.3	3001.3
1671.7	35°	1730.6	1833.8	1913.4	2025.5	2146.3	2293.8	2317.3	2296.7	2273.1
1291.3	37.5°	1320.8	1427.0	1518.4	1565.5	1659.9	1774.9	1839.7	1836.8	1819.1
1052.5	40°	1073.2	1152.8	1235.3	1297.2	1362.1	1447.6	1527.2	1536.1	1536.1
884.5	42.5°	896.3	964.1	1046.6	1111.5	1158.7	1238.3	1320.8	1326.7	1320.8
748.9	45°	766.6	825.5	905.1	981.8	1020.1	1079.1	1158.7	1176.4	1164.6
642.7	47.5°	666.3	719.4	787.2	869.7	911.0	964.1	1037.8	1058.4	1055.5
554.3	50°	572.0	633.9	701.7	769.5	822.6	872.7	943.4	967.0	958.2
471.7	52.5°	504.2	560.2	619.1	692.8	754.8	799.0	855.0	896.3	884.5
398.0	55°	421.6	489.4	551.3	613.2	689.9	737.1	790.1	840.3	828.5
336.1	57.5°	365.6	421.6	492.4	548.4	625.0	681.1	734.1	787.2	784.2
274.2	60°	306.6	365.6	433.4	492.4	563.1	625.0	678.1	737.1	743.0
206.4	62.5°	241.8	312.5	371.5	439.3	510.1	577.9	625.0	684.0	692.8
156.3	65°	182.8	256.5	321.4	386.2	457.0	530.7	572.0	622.1	630.9
115.0	67.5°	135.6	197.5	274.2	333.2	406.9	477.6	515.9	557.2	572.0
70.8	70°	103.2	150.4	230.0	286.0	362.6	418.7	459.9	495.3	507.1
47.2	72.5°	64.9	117.9	185.7	244.7	312.5	362.6	392.1	412.8	430.4
26.5	75°	44.2	91.4	150.4	209.3	259.4	297.8	324.3	342.0	356.7
11.8	77.5°	26.5	70.8	123.8	173.9	206.4	235.9	262.4	274.2	283.0
8.8	80°	14.7	53.1	103.2	141.5	162.2	182.8	203.4	218.2	224.1
5.9	82.5°	8.8	41.3	82.6	109.1	117.9	138.6	159.2	168.1	168.1
2.9	85°	5.9	29.5	56.0	79.6	85.5	100.2	106.1	112.0	117.9
2.9	87.5°	5.9	17.7	35.4	44.2	47.2	53.1	56.0	61.9	67.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
92505.0
89465.4
83807.6
74839.0
65133.3
53502.3
40836.5
29255.7
21251.2
15481.4
10516.5
6630.7
4233.7
2980.7
2264.3
1810.2
1518.4
1314.9
1164.6
1049.6
952.3
881.5
834.4
787.2
745.9
698.7
639.8
577.9
513.0
427.5
353.8
280.1
218.2
165.1
115.0
64.9
0.0

(END OF REPORT)