

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: P637236

Luminaire Tested: **IFLD-S-SA3B-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637236  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13446.2 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

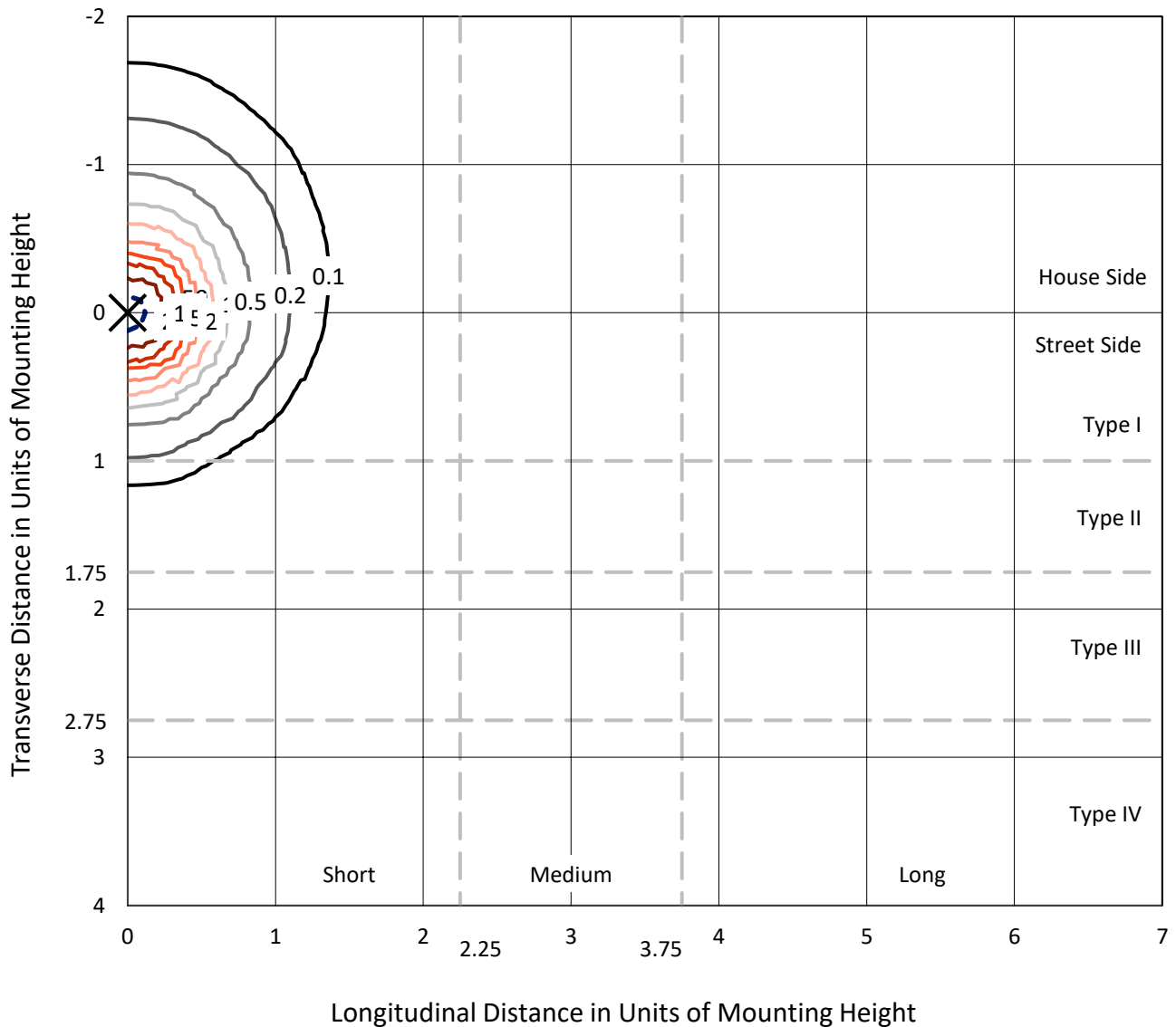
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

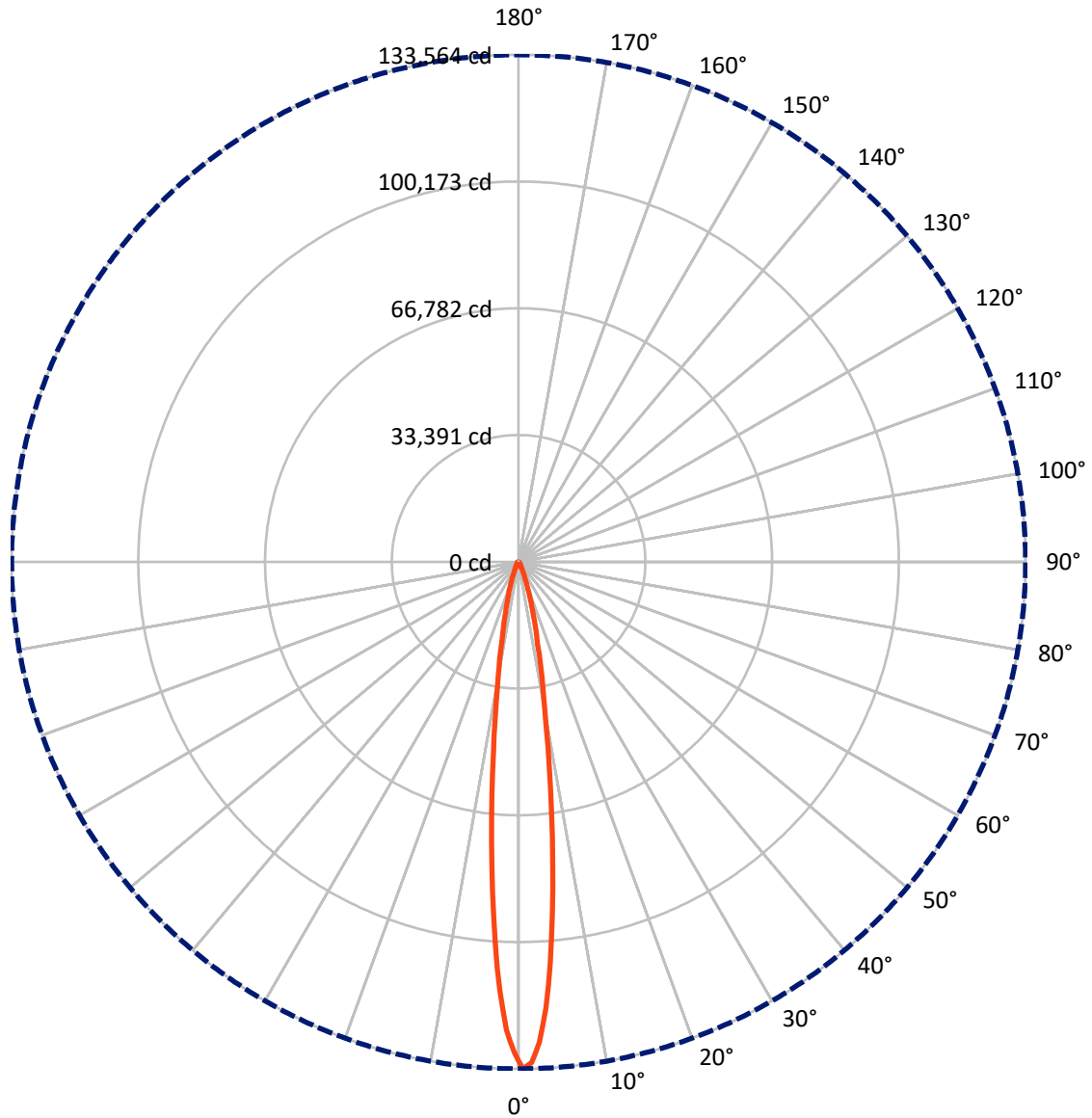
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 333.9 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
<b>House Side</b>	Lumens	6886.9	0.0	6886.9
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	6559.3	0.0	6559.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	13446.2	0.0	13446.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6788.0	50.5
10°-20°	4345.7	32.3
20°-30°	1306.2	9.7
30°-40°	425.3	3.2
40°-50°	247.5	1.8
50°-60°	164.4	1.2
60°-70°	98.9	0.7
70°-80°	50.9	0.4
80°-90°	19.3	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°	13446.2	100.0
0°-180°	13446.2	100.0

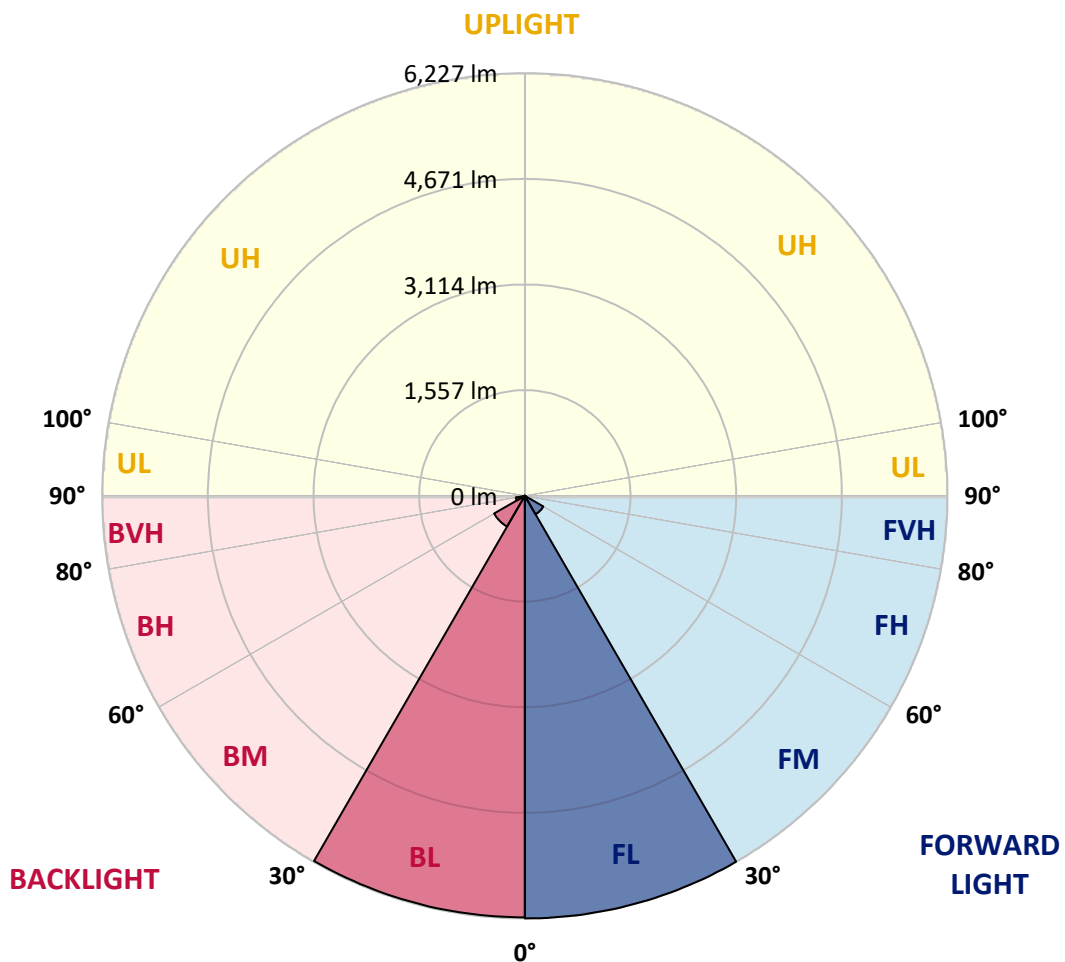


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6227.3	46.3			
FM (30°-60°)	314.2	2.3			
FH (60°-80°)	14.8	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6212.6	46.2	B5		
BM (30°-60°)	522.9	3.9	B1/1000		
BH (60°-80°)	135.0	1.0	B1/500		G0/660
BVH (80°-90°)	16.4	0.1			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°	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3
1°	131965.1	131562.3	130522.5	131262.1	131912.3	131723.4	131710.2	131639.9	131541.8	132312.2
2°	126689.9	126429.2	124891.5	125525.6	126449.7	125776.1	126197.8	125827.3	125834.7	126754.4
3°	117797.4	117939.5	115486.5	116639.0	117923.4	116290.5	116797.2	117749.1	116751.8	116451.6
4°	106239.6	105006.5	103666.4	104838.0	105170.5	104220.0	105154.4	106320.1	104934.7	104996.2
5°	93044.4	92133.5	90547.4	91270.9	90446.4	90746.6	92146.6	92627.0	91660.4	90443.4
6°	79477.2	78829.9	76847.0	77889.7	77596.8	77426.9	79194.6	77730.1	78257.3	77520.6
7°	66109.2	64899.5	63925.6	64924.4	64988.9	64477.8	66772.6	66506.1	65546.8	65324.2
8°	54772.5	53565.7	52741.2	53485.2	53971.4	53168.8	54248.2	54957.0	54207.2	54274.6
9°	44176.8	43964.4	42817.7	43790.2	44318.8	43459.2	44654.2	44910.5	44209.0	44550.2
10°	36272.9	36025.4	35110.0	35504.0	36379.8	35354.6	36501.3	36584.8	36025.4	36185.0
12.5°	22415.7	22316.1	22291.2	22348.3	22336.6	22518.2	22811.1	22477.2	22433.3	21881.2
15°	14488.3	14636.3	14484.0	14776.9	14819.3	14990.7	14812.0	14542.5	14028.5	13773.7
17.5°	9041.9	9230.8	9491.5	9920.6	10349.7	10399.4	10162.2	9845.9	9596.9	9324.5
20°	5201.9	5294.2	5254.6	5768.7	6878.8	7180.5	6874.4	6541.9	6241.7	5966.4
22.5°	3232.2	3198.5	3260.0	3432.8	3794.5	4727.4	4477.0	4144.5	3926.3	3699.3
25°	1981.5	2018.1	1994.7	2089.8	2252.4	2647.8	2704.9	2561.4	2450.1	2333.0
27.5°	1275.6	1275.6	1285.8	1338.6	1449.9	1436.7	1741.3	1630.0	1569.9	1512.8
30°	886.0	889.0	889.0	919.7	944.6	900.7	979.8	1123.3	1095.4	1051.5
32.5°	657.6	666.3	673.7	689.8	669.3	622.4	641.5	808.4	792.3	776.2
35°	500.9	508.2	525.8	534.5	505.3	476.0	458.4	594.6	601.9	597.5
37.5°	364.7	369.1	401.3	435.0	401.3	374.9	364.7	456.9	492.1	487.7
40°	279.7	281.2	287.0	325.1	325.1	304.6	307.5	341.2	402.7	402.7
42.5°	240.2	240.2	246.0	240.2	241.6	263.6	270.9	275.3	341.2	341.2
45°	208.0	208.0	210.9	196.2	181.6	227.0	232.9	234.3	287.0	294.4
47.5°	174.3	174.3	180.1	161.1	153.8	180.1	196.2	200.6	247.5	253.4
50°	128.9	130.3	147.9	131.8	136.2	139.1	169.9	172.8	209.4	222.6
52.5°	86.4	86.4	89.3	102.5	118.6	114.2	137.7	147.9	167.0	184.5
55°	70.3	70.3	68.8	65.9	87.9	95.2	101.1	123.0	136.2	158.2
57.5°	48.3	51.3	46.9	54.2	57.1	71.8	76.2	96.7	104.0	133.3
60°	5.9	7.3	10.3	39.5	38.1	48.3	57.1	76.2	84.9	102.5
62.5°	1.5	1.5	2.9	7.3	26.4	32.2	45.4	52.7	61.5	79.1
65°	0.0	0.0	1.5	2.9	5.9	17.6	23.4	30.8	43.9	55.7
67.5°	0.0	0.0	1.5	2.9	2.9	7.3	11.7	19.0	23.4	41.0
70°	0.0	0.0	1.5	2.9	2.9	5.9	7.3	8.8	16.1	22.0
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	7.3	7.3	14.6
75°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	7.3	5.9	5.9
77.5°	0.0	0.0	1.5	2.9	5.9	7.3	8.8	7.3	4.4	4.4
80°	0.0	0.0	1.5	4.4	7.3	10.3	11.7	8.8	4.4	2.9
82.5°	0.0	0.0	2.9	5.9	8.8	11.7	16.1	13.2	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.7	23.4	16.1	7.3	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	8.8	5.9	2.9	1.5
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°
133564.3	0°	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3	133564.3
131423.2	1°	132341.4	132433.7	132132.0	132599.2	132435.2	131474.5	131156.7	130780.3	130238.4
126214.0	2°	125827.3	126297.4	126320.9	126839.3	126832.0	125711.6	125364.5	126004.5	124755.3
117060.8	3°	116706.4	117254.1	116760.6	117681.8	117405.0	116045.9	115693.0	116419.4	115511.4
105482.4	4°	105167.6	105063.6	104893.7	104369.4	105015.3	104088.2	103389.7	104375.3	102433.3
92057.3	5°	91872.8	91641.4	91310.4	91155.2	91635.5	91042.4	89605.7	91045.3	87581.8
78853.3	6°	78950.0	77954.1	77905.8	77819.4	77867.7	76207.0	76306.6	77378.6	74496.4
64558.3	7°	65240.8	65423.8	65050.4	65649.4	65192.4	64067.7	63634.2	64763.3	62726.2
54570.4	8°	54189.6	53958.2	53672.6	54567.5	53775.2	53037.0	52531.8	53423.7	51910.8
44605.9	9°	44522.4	44122.6	43832.6	43787.2	43910.2	42524.8	42806.0	43481.1	42570.2
36272.9	10°	36286.0	35629.9	35789.6	35832.0	35697.3	34789.3	34798.1	35031.0	33935.5
22247.3	12.5°	22168.2	21846.0	21926.6	21970.5	22244.4	21925.1	21474.0	21148.9	20984.9
14027.0	15°	13933.3	13701.9	14174.9	14492.7	14428.3	14144.2	13931.8	13637.5	13400.2
9324.5	17.5°	9238.1	9541.2	9542.7	9832.7	9862.0	9577.9	9413.8	9148.8	9160.5
6064.5	20°	6042.5	6168.5	6430.6	6635.7	6754.3	6537.5	6341.3	6159.7	6083.6
3781.4	22.5°	3781.4	4001.0	4165.1	4431.6	4540.0	4381.8	4242.7	4094.8	4004.0
2360.8	25°	2321.2	2477.9	2614.1	2845.5	2993.4	2917.3	2789.9	2685.9	2637.6
1524.5	27.5°	1548.0	1613.9	1681.3	1840.9	1994.7	1952.2	1900.9	1838.0	1816.0
1074.9	30°	1091.1	1096.9	1168.7	1258.0	1360.5	1386.9	1363.5	1331.2	1306.3
789.4	32.5°	804.0	827.4	861.1	916.8	985.6	1048.6	1036.9	1022.2	1010.5
603.4	35°	621.0	656.1	683.9	726.4	763.0	823.1	833.3	828.9	820.1
496.5	37.5°	506.7	537.5	565.3	590.2	621.0	662.0	694.2	695.6	686.9
410.1	40°	420.3	448.1	484.8	503.8	525.8	556.5	596.1	599.0	596.1
347.1	42.5°	354.4	380.8	417.4	440.8	456.9	486.2	525.8	531.6	525.8
297.3	45°	304.6	320.7	358.8	386.6	402.7	421.8	464.2	470.1	468.6
256.3	47.5°	265.1	281.2	304.6	344.2	358.8	376.4	410.1	420.3	420.3
227.0	50°	232.9	249.0	269.5	304.6	326.6	341.2	369.1	383.7	383.7
197.7	52.5°	206.5	222.6	244.6	272.4	297.3	310.5	336.8	355.9	355.9
161.1	55°	172.8	200.6	216.7	241.6	275.3	287.0	307.5	332.4	332.4
140.6	57.5°	150.8	174.3	197.7	218.2	251.9	266.5	287.0	310.5	313.4
111.3	60°	127.4	149.4	177.2	194.8	227.0	246.0	268.0	290.0	295.8
84.9	62.5°	101.1	130.3	149.4	174.3	205.0	229.9	247.5	269.5	278.3
65.9	65°	74.7	106.9	128.9	155.2	184.5	210.9	225.5	249.0	254.8
46.9	67.5°	54.2	83.5	109.8	134.7	162.6	188.9	203.6	224.1	228.5
29.3	70°	42.5	61.5	90.8	112.8	142.1	164.0	180.1	193.3	197.7
19.0	72.5°	24.9	46.9	73.2	98.1	124.5	139.1	150.8	162.6	165.5
8.8	75°	16.1	36.6	60.0	82.0	101.1	114.2	124.5	134.7	136.2
4.4	77.5°	10.3	26.4	48.3	68.8	77.6	93.7	102.5	108.4	105.4
2.9	80°	5.9	20.5	42.5	55.7	63.0	73.2	82.0	89.3	82.0
2.9	82.5°	4.4	17.6	35.1	46.9	46.9	58.6	63.0	63.0	60.0
1.5	85°	2.9	14.6	27.8	43.9	35.1	43.9	41.0	41.0	41.0
1.5	87.5°	2.9	10.3	13.2	19.0	16.1	19.0	19.0	22.0	22.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
133564.3  
129289.4  
123293.7  
113193.0  
100807.7  
87252.3  
74270.9  
61692.3  
50876.9  
41372.3  
33446.4  
20951.2  
13486.6  
9082.9  
6096.7  
4015.7  
2625.9  
1801.3  
1309.3  
1010.5  
814.3  
685.4  
594.6  
527.2  
468.6  
421.8  
385.2  
355.9  
333.9  
311.9  
295.8  
279.7  
253.4  
225.5  
197.7  
165.5  
134.7  
105.4  
80.5  
58.6  
39.5  
22.0  
0.0

(END OF REPORT)