

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: P637072

Luminaire Tested: **IFLD-M-SA4B-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637072  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20682.9 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

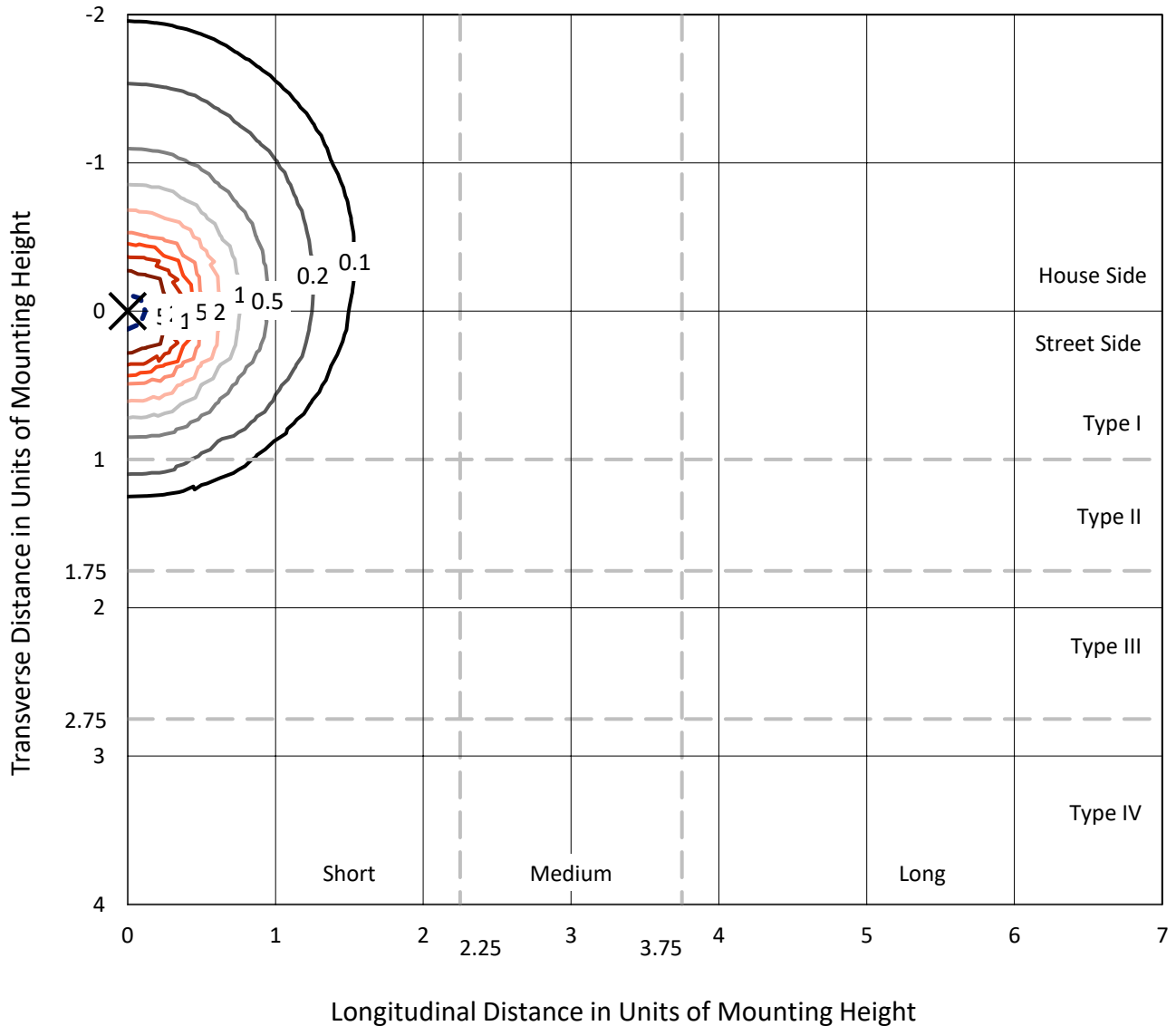
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

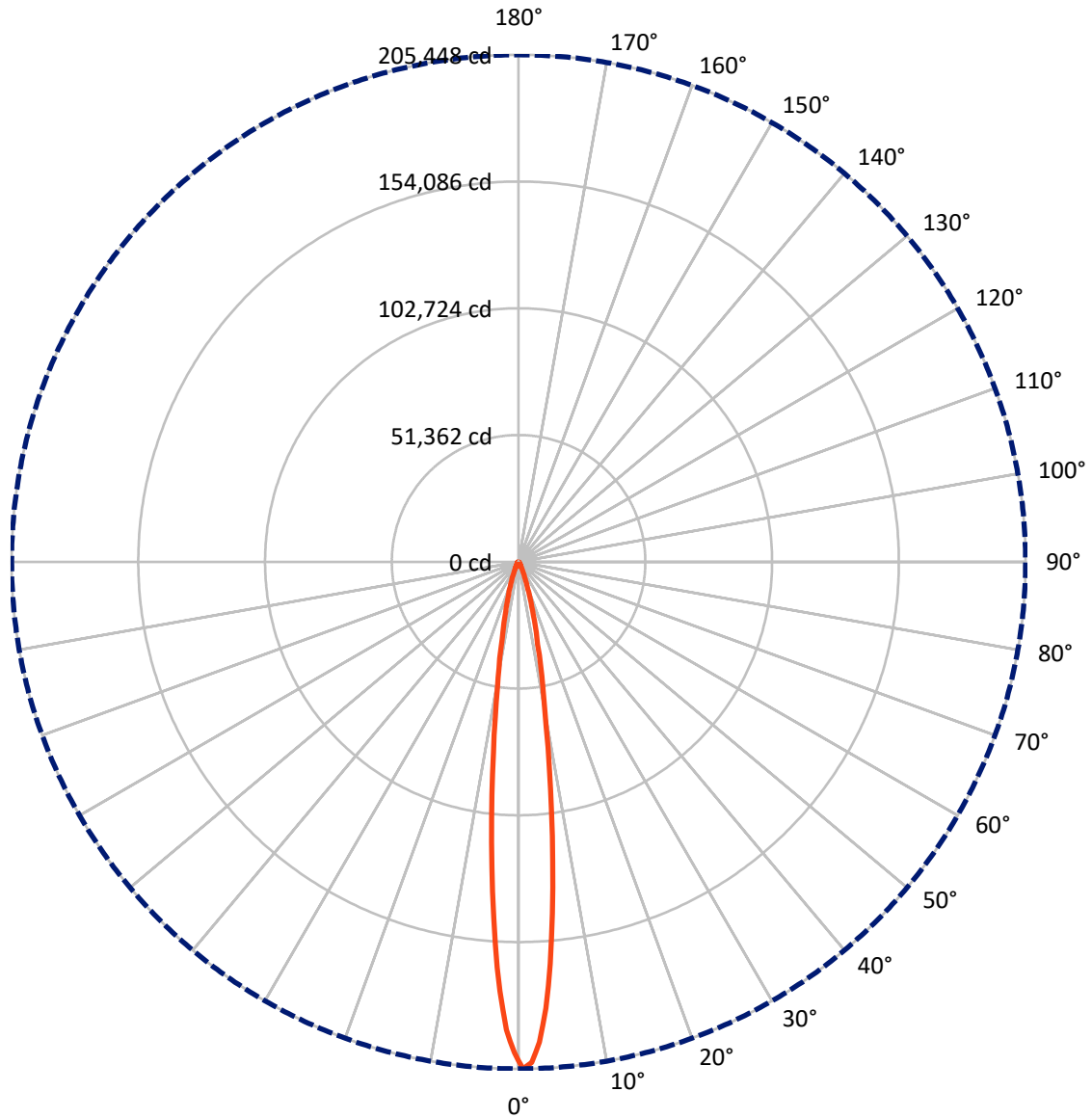
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 513.6 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	10593.4	0.0	10593.4
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	10089.5	0.0	10089.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	20682.9	0.0	20682.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10441.3	50.5
10°-20°	6684.5	32.3
20°-30°	2009.2	9.7
30°-40°	654.2	3.2
40°-50°	380.6	1.8
50°-60°	252.8	1.2
60°-70°	152.2	0.7
70°-80°	78.2	0.4
80°-90°	29.7	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°	20682.9	100.0
0°-180°	20682.9	100.0

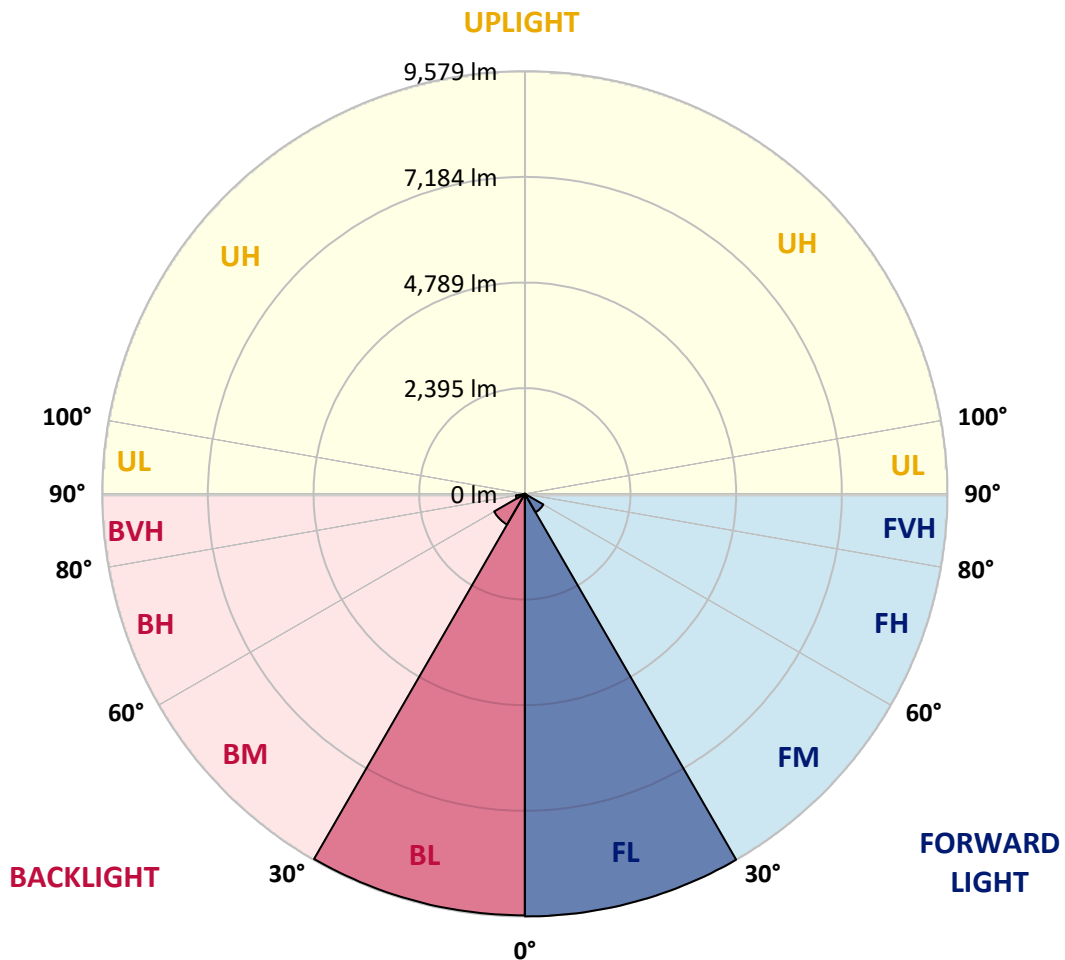


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9578.9	46.3			
FM (30°-60°)	483.4	2.3			
FH (60°-80°)	22.8	0.1			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	9556.2	46.2	B5		
BM (30°-60°)	804.3	3.9	B1/1000		
BH (60°-80°)	207.7	1.0	B1/500		G0/660
BVH (80°-90°)	25.2	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°	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6
1°	202987.6	202368.2	200768.7	201906.3	202906.5	202615.9	202595.7	202487.5	202336.6	203521.5
2°	194873.5	194472.5	192107.1	193082.6	194504.0	193467.8	194116.5	193546.6	193557.9	194972.6
3°	181195.1	181413.6	177640.4	179413.2	181388.8	178877.1	179656.5	181120.8	179586.7	179124.9
4°	163416.9	161520.1	159458.9	161261.1	161772.4	160310.4	161747.6	163540.8	161409.7	161504.4
5°	143120.2	141719.0	139279.3	140392.1	139123.9	139585.7	141739.3	142478.1	140991.4	139119.4
6°	122251.2	121255.5	118205.4	119809.3	119358.8	119097.5	121816.5	119563.8	120374.7	119241.6
7°	101688.7	99828.0	98329.9	99866.3	99965.4	99179.2	102709.1	102299.2	100823.6	100481.2
8°	84250.6	82394.4	81126.1	82270.5	83018.4	81783.9	83444.1	84534.4	83381.1	83484.7
9°	67952.4	67625.8	65861.9	67357.7	68170.9	66848.6	68686.8	69081.0	68002.0	68526.8
10°	55794.6	55413.9	54006.0	54612.0	55959.1	54382.2	56146.0	56274.4	55413.9	55659.5
12.5°	34479.7	34326.5	34288.2	34376.0	34358.0	34637.4	35087.9	34574.3	34506.7	33657.4
15°	22285.9	22513.4	22279.1	22729.6	22795.0	23058.5	22783.7	22369.2	21578.5	21186.5
17.5°	13908.1	14198.7	14599.7	15259.7	15919.8	15996.4	15631.4	15144.8	14761.9	14342.9
20°	8001.6	8143.5	8082.7	8873.3	10580.9	11044.9	10574.1	10062.8	9601.0	9177.5
22.5°	4971.7	4919.9	5014.5	5280.3	5836.7	7271.7	6886.5	6375.1	6039.5	5690.3
25°	3047.9	3104.2	3068.2	3214.6	3464.6	4072.9	4160.7	3940.0	3768.8	3588.5
27.5°	1962.1	1962.1	1977.9	2059.0	2230.2	2209.9	2678.4	2507.2	2414.9	2327.0
30°	1362.9	1367.4	1367.4	1414.7	1453.0	1385.4	1507.0	1727.8	1685.0	1617.4
32.5°	1011.5	1025.0	1036.2	1061.0	1029.5	957.4	986.7	1243.5	1218.7	1193.9
35°	770.4	781.7	808.7	822.2	777.2	732.1	705.1	914.6	925.9	919.1
37.5°	560.9	567.7	617.2	669.0	617.2	576.7	560.9	702.8	756.9	750.1
40°	430.3	432.5	441.5	500.1	500.1	468.6	473.1	524.9	619.5	619.5
42.5°	369.4	369.4	378.5	369.4	371.7	405.5	416.7	423.5	524.9	524.9
45°	319.9	319.9	324.4	301.9	279.3	349.2	358.2	360.4	441.5	452.8
47.5°	268.1	268.1	277.1	247.8	236.5	277.1	301.9	308.6	380.7	389.7
50°	198.2	200.5	227.5	202.7	209.5	214.0	261.3	265.8	322.1	342.4
52.5°	132.9	132.9	137.4	157.7	182.5	175.7	211.8	227.5	256.8	283.8
55°	108.1	108.1	105.9	101.4	135.2	146.4	155.4	189.2	209.5	243.3
57.5°	74.3	78.8	72.1	83.3	87.9	110.4	117.1	148.7	159.9	205.0
60°	9.0	11.3	15.8	60.8	58.6	74.3	87.9	117.1	130.7	157.7
62.5°	2.3	2.3	4.5	11.3	40.5	49.6	69.8	81.1	94.6	121.6
65°	0.0	0.0	2.3	4.5	9.0	27.0	36.0	47.3	67.6	85.6
67.5°	0.0	0.0	2.3	4.5	4.5	11.3	18.0	29.3	36.0	63.1
70°	0.0	0.0	2.3	4.5	4.5	9.0	11.3	13.5	24.8	33.8
72.5°	0.0	0.0	2.3	4.5	6.8	9.0	11.3	11.3	11.3	22.5
75°	0.0	0.0	2.3	4.5	6.8	9.0	11.3	11.3	9.0	9.0
77.5°	0.0	0.0	2.3	4.5	9.0	11.3	13.5	11.3	6.8	6.8
80°	0.0	0.0	2.3	6.8	11.3	15.8	18.0	13.5	6.8	4.5
82.5°	0.0	0.0	4.5	9.0	13.5	18.0	24.8	20.3	9.0	4.5
85°	0.0	0.0	2.3	6.8	13.5	18.0	36.0	24.8	11.3	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.5	13.5	9.0	4.5	2.3
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°
205447.6	0°	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6	205447.6
202154.1	1°	203566.6	203708.5	203244.4	203963.1	203710.8	202233.0	201744.2	200331.7
194141.3	2°	193546.6	194269.7	194305.8	195103.2	195092.0	193368.7	192834.8	191897.6
180062.0	3°	179516.9	180359.4	179600.2	181017.2	180591.4	178500.9	177958.0	177678.7
162252.2	4°	161767.9	161608.0	161346.7	160540.2	161533.6	160107.7	159033.2	157562.1
141601.8	5°	141318.0	140962.1	140453.0	140214.2	140953.1	140040.7	137830.8	134717.6
121291.6	6°	121440.3	119908.4	119834.1	119701.2	119775.5	117221.0	117374.2	114589.8
99303.1	7°	100352.8	100634.4	100060.0	100981.3	100278.5	98548.4	97881.6	96485.0
83939.7	8°	83354.0	82998.1	82558.8	83935.2	82716.5	81581.2	80804.0	82175.9
68612.4	9°	68484.0	67869.0	67423.0	67353.2	67542.4	65411.4	65843.9	66882.4
55794.6	10°	55814.9	54805.7	55051.2	55116.6	54909.3	53512.7	53526.2	53884.3
34220.6	12.5°	34099.0	33603.4	33727.3	33794.9	34216.1	33725.0	33031.2	32531.1
21576.3	15°	21432.1	21076.2	21803.8	22292.6	22193.5	21756.5	21429.8	20977.0
14342.9	17.5°	14210.0	14676.3	14678.5	15124.6	15169.6	14732.6	14480.3	14072.6
9328.4	20°	9294.6	9488.3	9891.6	10206.9	10389.4	10056.0	9754.1	9474.8
5816.4	22.5°	5816.4	6154.3	6406.7	6816.6	6983.3	6740.0	6526.0	6298.5
3631.3	25°	3570.5	3811.6	4021.1	4377.0	4604.5	4487.4	4291.4	4131.4
2345.1	27.5°	2381.1	2482.5	2586.1	2831.6	3068.2	3002.8	2924.0	2827.1
1653.5	30°	1678.3	1687.3	1797.6	1935.1	2092.7	2133.3	2097.3	2047.7
1214.2	32.5°	1236.7	1272.8	1324.6	1410.2	1516.1	1612.9	1594.9	1572.4
928.1	35°	955.1	1009.2	1052.0	1117.3	1173.7	1266.0	1281.8	1275.0
763.7	37.5°	779.4	826.7	869.5	907.8	955.1	1018.2	1067.8	1070.0
630.8	40°	646.5	689.3	745.6	774.9	808.7	856.0	916.8	921.4
533.9	42.5°	545.2	585.7	642.0	678.1	702.8	747.9	808.7	817.7
457.3	45°	468.6	493.3	551.9	594.7	619.5	648.8	714.1	723.1
394.2	47.5°	407.7	432.5	468.6	529.4	551.9	578.9	630.8	646.5
349.2	50°	358.2	383.0	414.5	468.6	502.3	524.9	567.7	590.2
304.1	52.5°	317.6	342.4	376.2	419.0	457.3	477.6	518.1	547.4
247.8	55°	265.8	308.6	333.4	371.7	423.5	441.5	473.1	511.4
216.3	57.5°	232.0	268.1	304.1	335.7	387.5	410.0	441.5	477.6
171.2	60°	196.0	229.8	272.6	299.6	349.2	378.5	412.2	446.0
130.7	62.5°	155.4	200.5	229.8	268.1	315.4	353.7	380.7	414.5
101.4	65°	114.9	164.4	198.2	238.8	283.8	324.4	346.9	383.0
72.1	67.5°	83.3	128.4	169.0	207.2	250.0	290.6	313.1	344.7
45.1	70°	65.3	94.6	139.7	173.5	218.5	252.3	277.1	297.4
29.3	72.5°	38.3	72.1	112.6	150.9	191.5	214.0	232.0	250.0
13.5	75°	24.8	56.3	92.4	126.2	155.4	175.7	191.5	207.2
6.8	77.5°	15.8	40.5	74.3	105.9	119.4	144.2	157.7	166.7
4.5	80°	9.0	31.5	65.3	85.6	96.9	112.6	126.2	137.4
4.5	82.5°	6.8	27.0	54.1	72.1	72.1	90.1	96.9	96.9
2.3	85°	4.5	22.5	42.8	67.6	54.1	67.6	63.1	63.1
2.3	87.5°	4.5	15.8	20.3	29.3	24.8	29.3	29.3	33.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
205447.6  
198872.0  
189649.5  
174112.7  
155061.7  
134210.8  
114242.9  
94894.6  
78258.4  
63638.5  
51446.9  
32227.0  
20745.0  
13971.2  
9377.9  
6176.9  
4039.1  
2770.8  
2013.9  
1554.4  
1252.5  
1054.3  
914.6  
811.0  
720.9  
648.8  
592.5  
547.4  
513.6  
479.8  
455.0  
430.3  
389.7  
346.9  
304.1  
254.6  
207.2  
162.2  
123.9  
90.1  
60.8  
33.8  
0.0

(END OF REPORT)