

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: P637131

Luminaire Tested: **IFLD-M-SA4C-740-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637131  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-740-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28274.8 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

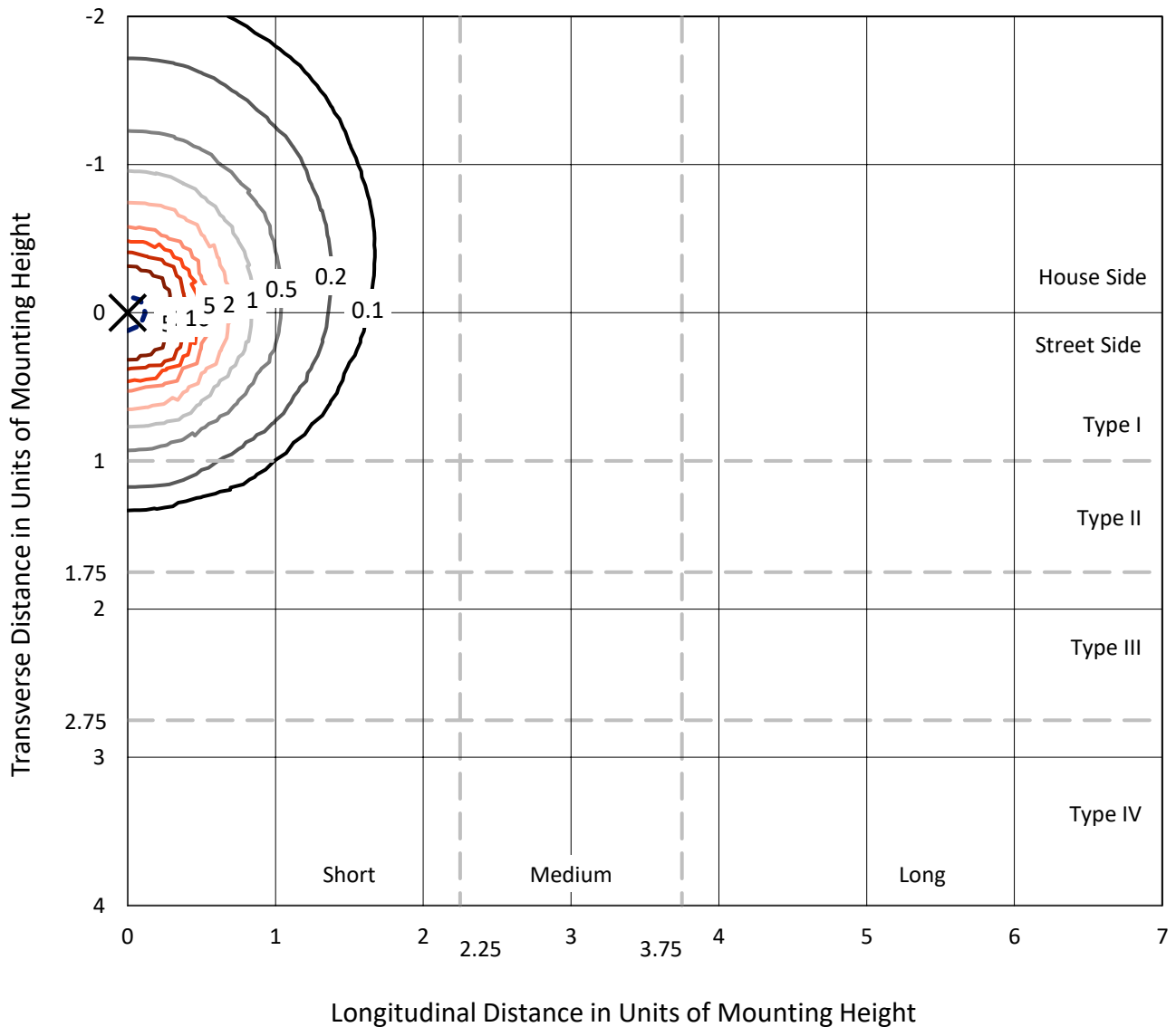
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

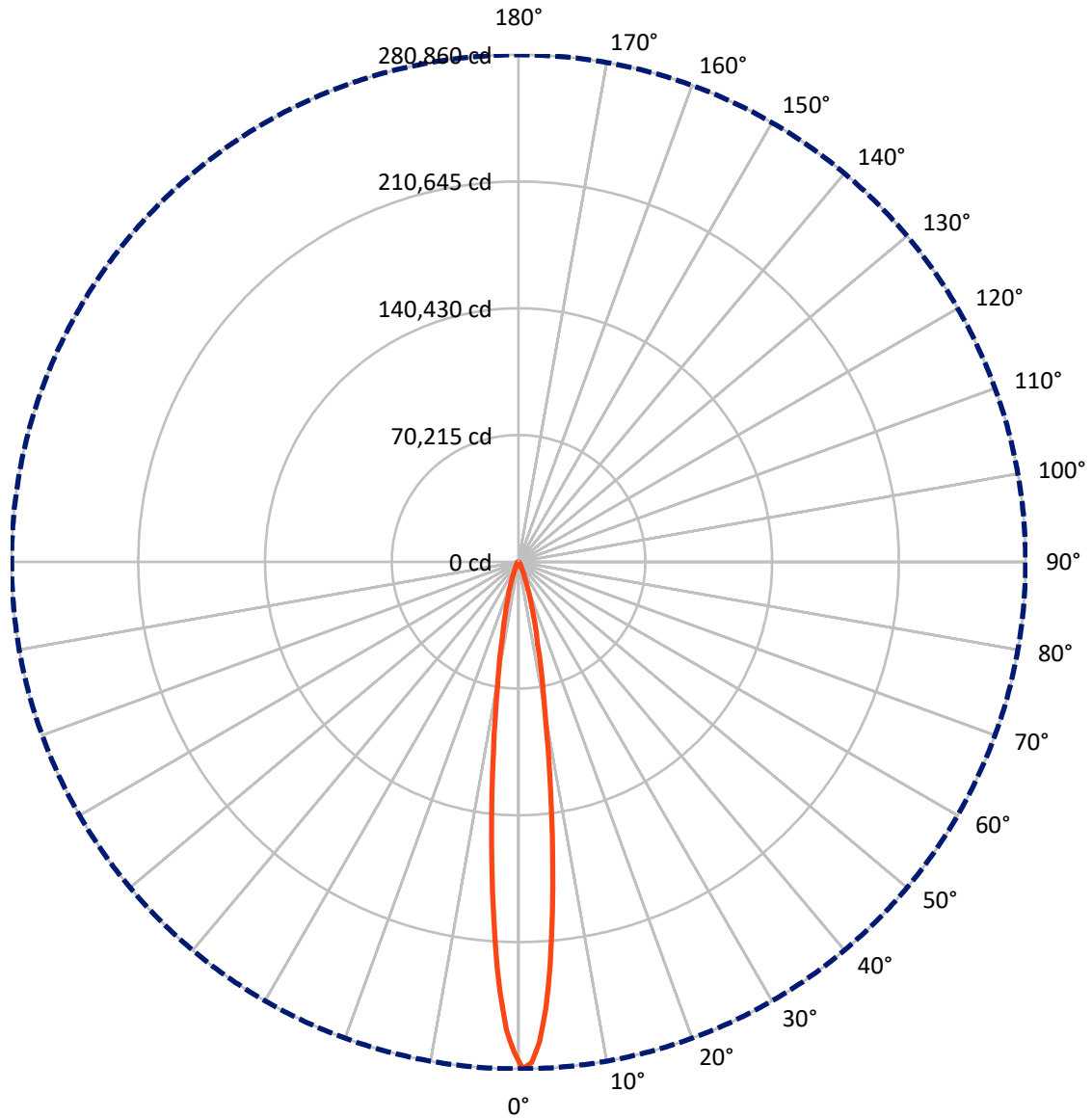
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 702.2 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	14481.8	0.0	14481.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	13793.0	0.0	13793.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	28274.8	0.0	28274.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14274.0	50.5
10°-20°	9138.1	32.3
20°-30°	2746.7	9.7
30°-40°	894.3	3.2
40°-50°	520.4	1.8
50°-60°	345.6	1.2
60°-70°	208.1	0.7
70°-80°	106.9	0.4
80°-90°	40.6	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°	28274.8	100.0
0°-180°	28274.8	100.0

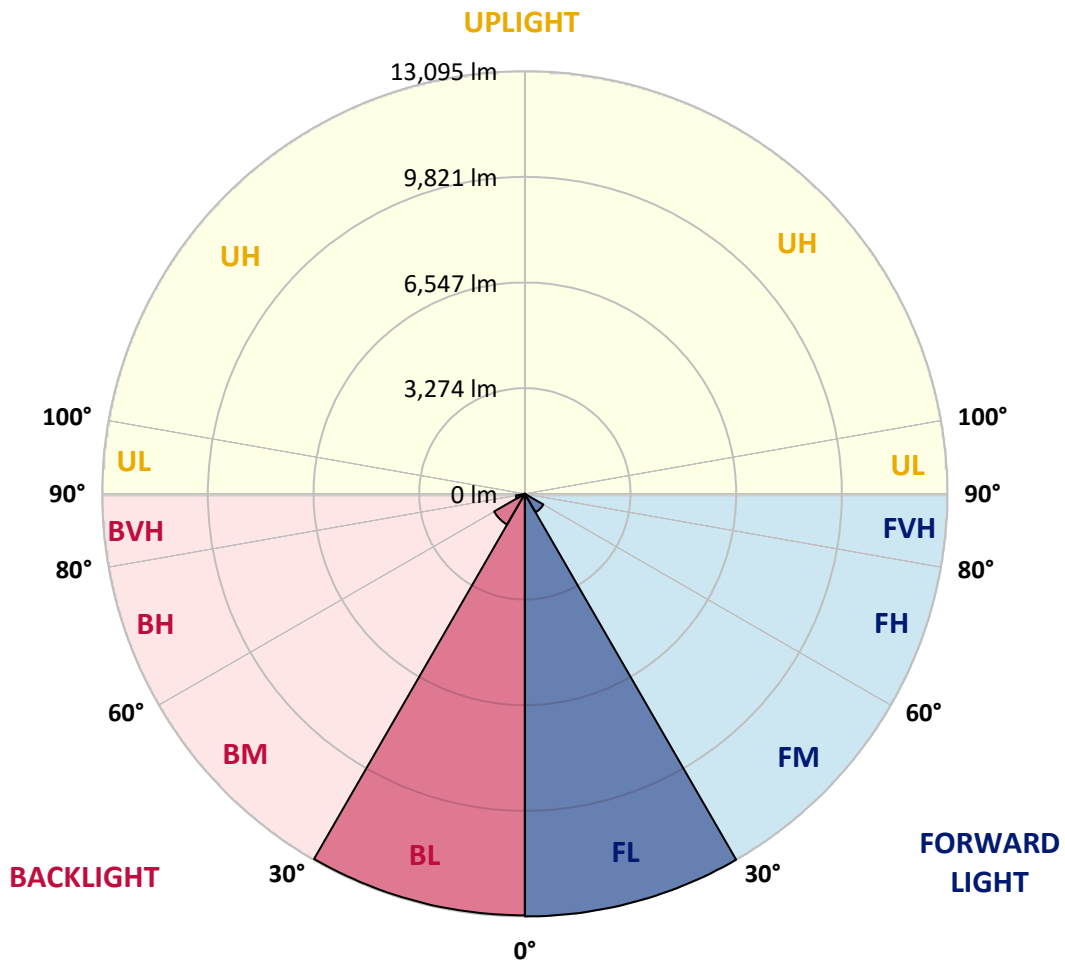


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13094.9	46.3			
FM (30°-60°)	660.8	2.3			
FH (60°-80°)	31.1	0.1			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	13063.9	46.2	B5		
BM (30°-60°)	1099.5	3.9	B2/2500		
BH (60°-80°)	283.9	1.0	B1/500		G0/660
BVH (80°-90°)	34.5	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°	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3
1°	277497.4	276650.5	274464.1	276019.2	277386.6	276989.3	276961.6	276813.8	276607.4	278227.3
2°	266404.8	265856.6	262623.1	263956.5	265899.8	264483.1	265370.1	264590.9	264606.3	266540.3
3°	247705.6	248004.3	242846.1	245269.7	247970.5	244536.7	245602.3	247604.0	245506.8	244875.5
4°	223401.6	220808.6	217990.8	220454.5	221153.5	219154.9	221119.7	223571.0	220657.7	220787.1
5°	195654.6	193739.1	190404.0	191925.3	190191.5	190822.8	193766.9	194777.0	192744.4	190185.3
6°	167125.5	165764.3	161594.5	163787.2	163171.3	162814.1	166531.1	163451.5	164560.2	163011.1
7°	139015.1	136471.4	134423.5	136523.7	136659.2	135584.5	140410.1	139849.7	137832.5	137364.4
8°	115176.1	112638.5	110904.7	112469.2	113491.6	111804.0	114073.6	115564.1	113987.4	114129.1
9°	92895.4	92448.8	90037.5	92082.4	93194.1	91386.4	93899.3	94438.2	92963.1	93680.7
10°	76274.9	75754.5	73829.7	74658.1	76499.7	74344.0	76755.3	76930.9	75754.5	76090.1
12.5°	47136.0	46926.6	46874.2	46994.3	46969.7	47351.5	47967.5	47265.3	47172.9	46011.9
15°	30466.2	30777.3	30457.0	31072.9	31162.2	31522.5	31146.8	30580.2	29499.2	28963.4
17.5°	19013.3	19410.6	19958.7	20861.0	21763.4	21868.1	21369.2	20704.0	20180.5	19607.7
20°	10938.7	11132.7	11049.5	12130.4	14464.8	15099.2	14455.5	13756.5	13125.1	12546.2
22.5°	6796.6	6725.8	6855.1	7218.5	7979.2	9940.9	9414.3	8715.2	8256.3	7779.0
25°	4166.7	4243.7	4194.4	4394.6	4736.4	5567.9	5688.0	5386.2	5152.1	4905.8
27.5°	2682.3	2682.3	2703.9	2814.7	3048.8	3021.1	3661.6	3427.6	3301.3	3181.2
30°	1863.1	1869.3	1869.3	1934.0	1986.3	1893.9	2060.2	2362.0	2303.5	2211.1
32.5°	1382.7	1401.2	1416.6	1450.5	1407.4	1308.8	1348.9	1699.9	1666.1	1632.2
35°	1053.2	1068.6	1105.6	1124.0	1062.5	1000.9	963.9	1250.3	1265.7	1256.5
37.5°	766.8	776.1	843.8	914.6	843.8	788.4	766.8	960.8	1034.7	1025.5
40°	588.2	591.3	603.6	683.7	683.7	640.6	646.7	717.5	846.9	846.9
42.5°	505.1	505.1	517.4	505.1	508.1	554.3	569.7	579.0	717.5	717.5
45°	437.3	437.3	443.5	412.7	381.9	477.3	489.7	492.7	603.6	619.0
47.5°	366.5	366.5	378.8	338.8	323.4	378.8	412.7	421.9	520.4	532.8
50°	271.0	274.1	311.0	277.2	286.4	292.6	357.2	363.4	440.4	468.1
52.5°	181.7	181.7	187.9	215.6	249.4	240.2	289.5	311.0	351.1	388.0
55°	147.8	147.8	144.7	138.6	184.8	200.2	212.5	258.7	286.4	332.6
57.5°	101.6	107.8	98.5	113.9	120.1	150.9	160.1	203.3	218.6	280.2
60°	12.3	15.4	21.6	83.1	80.1	101.6	120.1	160.1	178.6	215.6
62.5°	3.1	3.1	6.2	15.4	55.4	67.8	95.5	110.9	129.3	166.3
65°	0.0	0.0	3.1	6.2	12.3	37.0	49.3	64.7	92.4	117.0
67.5°	0.0	0.0	3.1	6.2	6.2	15.4	24.6	40.0	49.3	86.2
70°	0.0	0.0	3.1	6.2	6.2	12.3	15.4	18.5	33.9	46.2
72.5°	0.0	0.0	3.1	6.2	9.2	12.3	15.4	15.4	15.4	30.8
75°	0.0	0.0	3.1	6.2	9.2	12.3	15.4	15.4	12.3	12.3
77.5°	0.0	0.0	3.1	6.2	12.3	15.4	18.5	15.4	9.2	9.2
80°	0.0	0.0	3.1	9.2	15.4	21.6	24.6	18.5	9.2	6.2
82.5°	0.0	0.0	6.2	12.3	18.5	24.6	33.9	27.7	12.3	6.2
85°	0.0	0.0	3.1	9.2	18.5	24.6	49.3	33.9	15.4	3.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	18.5	12.3	6.2	3.1
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°
280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3	280860.3
276358.0	278288.9	278482.9	277848.5	278830.9	278486.0	276465.8	275797.5	275006.1	273866.6
265403.9	264590.9	265579.5	265628.7	266718.9	266703.5	264347.6	263617.8	264963.6	262336.7
246156.6	245411.3	246563.1	245525.3	247462.3	246880.3	244022.5	243280.3	244807.7	242898.4
221809.5	221147.4	220928.7	220571.5	219469.0	220827.1	218877.7	217408.8	219481.3	215397.8
193579.0	193191.0	192704.4	192008.4	191682.0	192692.1	191444.9	188423.8	191451.0	184167.8
165813.6	166016.8	163922.7	163821.1	163639.4	163741.0	160248.8	160458.2	162712.4	156651.8
135753.8	137188.9	137573.9	136788.6	138048.1	137087.3	134722.2	133810.6	136185.0	131901.3
114751.1	113950.4	113463.9	112863.3	114745.0	113078.9	111526.8	110464.4	112339.8	109158.6
93797.7	93622.2	92781.4	92171.7	92076.2	92334.9	89421.6	90012.9	91432.6	89517.1
76274.9	76302.6	74923.0	75258.7	75348.0	75064.6	73155.3	73173.8	73663.4	71359.9
46781.8	46615.5	45938.0	46107.4	46199.8	46775.7	46104.3	45155.8	44472.1	44127.2
29496.2	29299.1	28812.5	29807.2	30475.5	30340.0	29742.5	29296.0	28677.0	28178.1
19607.7	19426.0	20063.4	20066.5	20676.3	20737.9	20140.4	19795.5	19238.1	19262.7
12752.5	12706.3	12971.2	13522.4	13953.6	14203.0	13747.2	13334.6	12952.7	12792.6
7951.5	7951.5	8413.4	8758.3	9318.8	9546.7	9214.1	8921.5	8610.5	8419.6
4964.3	4881.1	5210.6	5497.0	5983.6	6294.7	6134.5	5866.6	5647.9	5546.3
3205.8	3255.1	3393.7	3535.4	3871.0	4194.4	4105.1	3997.3	3864.9	3818.7
2260.4	2294.3	2306.6	2457.5	2645.4	2860.9	2916.4	2867.1	2799.3	2747.0
1659.9	1690.7	1740.0	1810.8	1927.8	2072.6	2205.0	2180.3	2149.5	2124.9
1268.8	1305.7	1379.6	1438.2	1527.5	1604.5	1730.7	1752.3	1743.0	1724.6
1044.0	1065.5	1130.2	1188.7	1241.1	1305.7	1392.0	1459.7	1462.8	1444.3
862.3	883.8	942.3	1019.3	1059.4	1105.6	1170.2	1253.4	1259.5	1253.4
729.9	745.3	800.7	877.7	927.0	960.8	1022.4	1105.6	1117.9	1105.6
625.2	640.6	674.4	754.5	813.0	846.9	886.9	976.2	988.5	985.5
538.9	557.4	591.3	640.6	723.7	754.5	791.5	862.3	883.8	883.8
477.3	489.7	523.5	566.6	640.6	686.7	717.5	776.1	806.8	806.8
415.7	434.2	468.1	514.3	572.8	625.2	652.9	708.3	748.3	748.3
338.8	363.4	421.9	455.8	508.1	579.0	603.6	646.7	699.1	699.1
295.6	317.2	366.5	415.7	458.9	529.7	560.5	603.6	652.9	659.0
234.0	267.9	314.1	372.6	409.6	477.3	517.4	563.6	609.8	622.1
178.6	212.5	274.1	314.1	366.5	431.1	483.5	520.4	566.6	585.1
138.6	157.1	224.8	271.0	326.4	388.0	443.5	474.3	523.5	535.8
98.5	113.9	175.5	231.0	283.3	341.8	397.3	428.1	471.2	480.4
61.6	89.3	129.3	190.9	237.1	298.7	344.9	378.8	406.5	415.7
40.0	52.4	98.5	154.0	206.3	261.8	292.6	317.2	341.8	348.0
18.5	33.9	77.0	126.3	172.5	212.5	240.2	261.8	283.3	286.4
9.2	21.6	55.4	101.6	144.7	163.2	197.1	215.6	227.9	221.7
6.2	12.3	43.1	89.3	117.0	132.4	154.0	172.5	187.9	172.5
6.2	9.2	37.0	73.9	98.5	98.5	123.2	132.4	132.4	126.3
3.1	6.2	30.8	58.5	92.4	73.9	92.4	86.2	86.2	86.2
3.1	6.2	21.6	27.7	40.0	33.9	40.0	40.0	46.2	46.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
280860.3  
271871.0  
259263.3  
238023.4  
211979.5  
183474.9  
156177.6  
129727.1  
106984.4  
86998.0  
70331.3  
44056.4  
28359.8  
19099.5  
12820.3  
8444.2  
5521.7  
3787.9  
2753.1  
2124.9  
1712.2  
1441.2  
1250.3  
1108.6  
985.5  
886.9  
809.9  
748.3  
702.1  
655.9  
622.1  
588.2  
532.8  
474.3  
415.7  
348.0  
283.3  
221.7  
169.4  
123.2  
83.1  
46.2  
0.0

(END OF REPORT)