

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: P637239

Luminaire Tested: **IFLD-S-SA3E-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637239  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-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: 21314.7 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

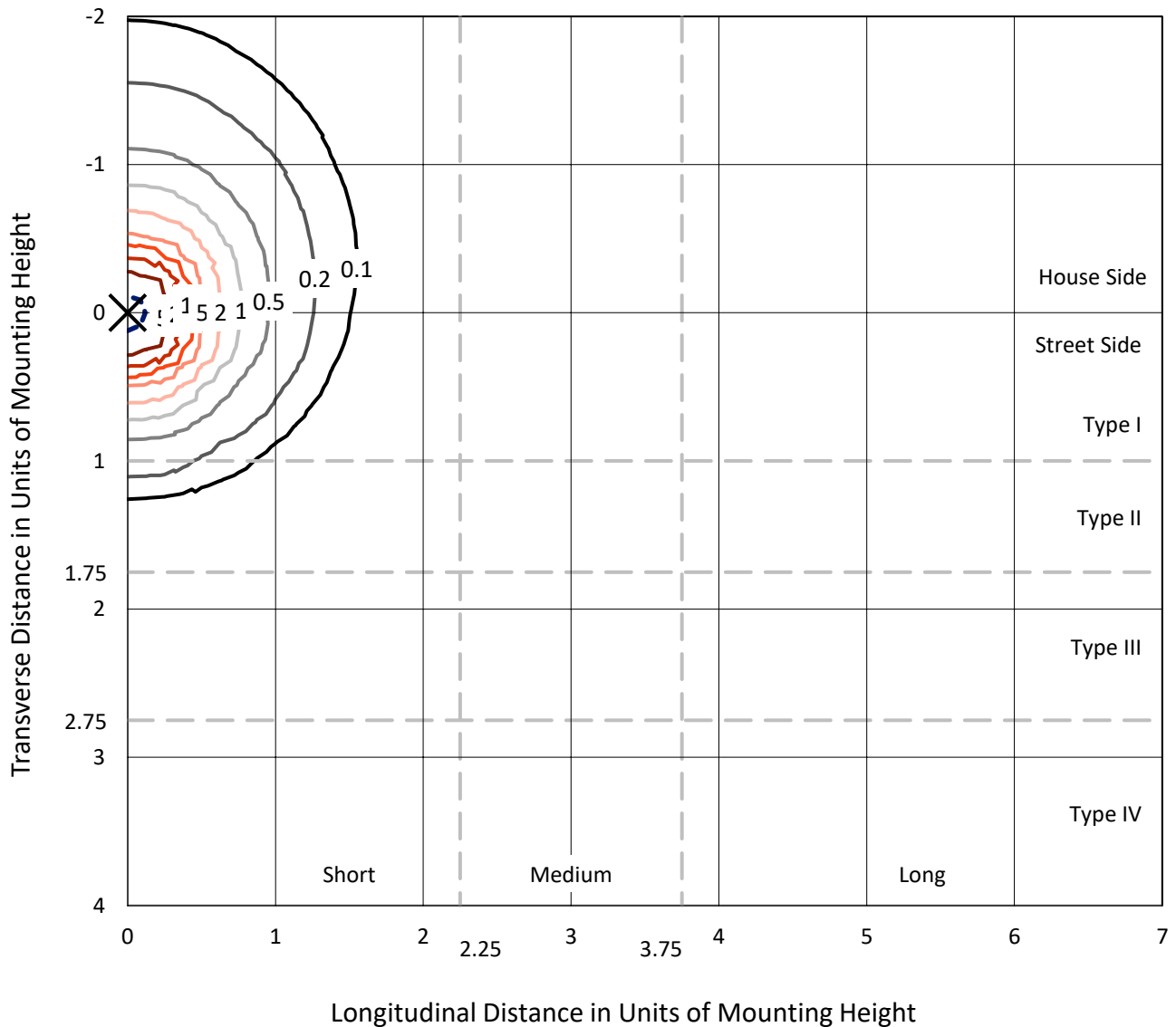
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

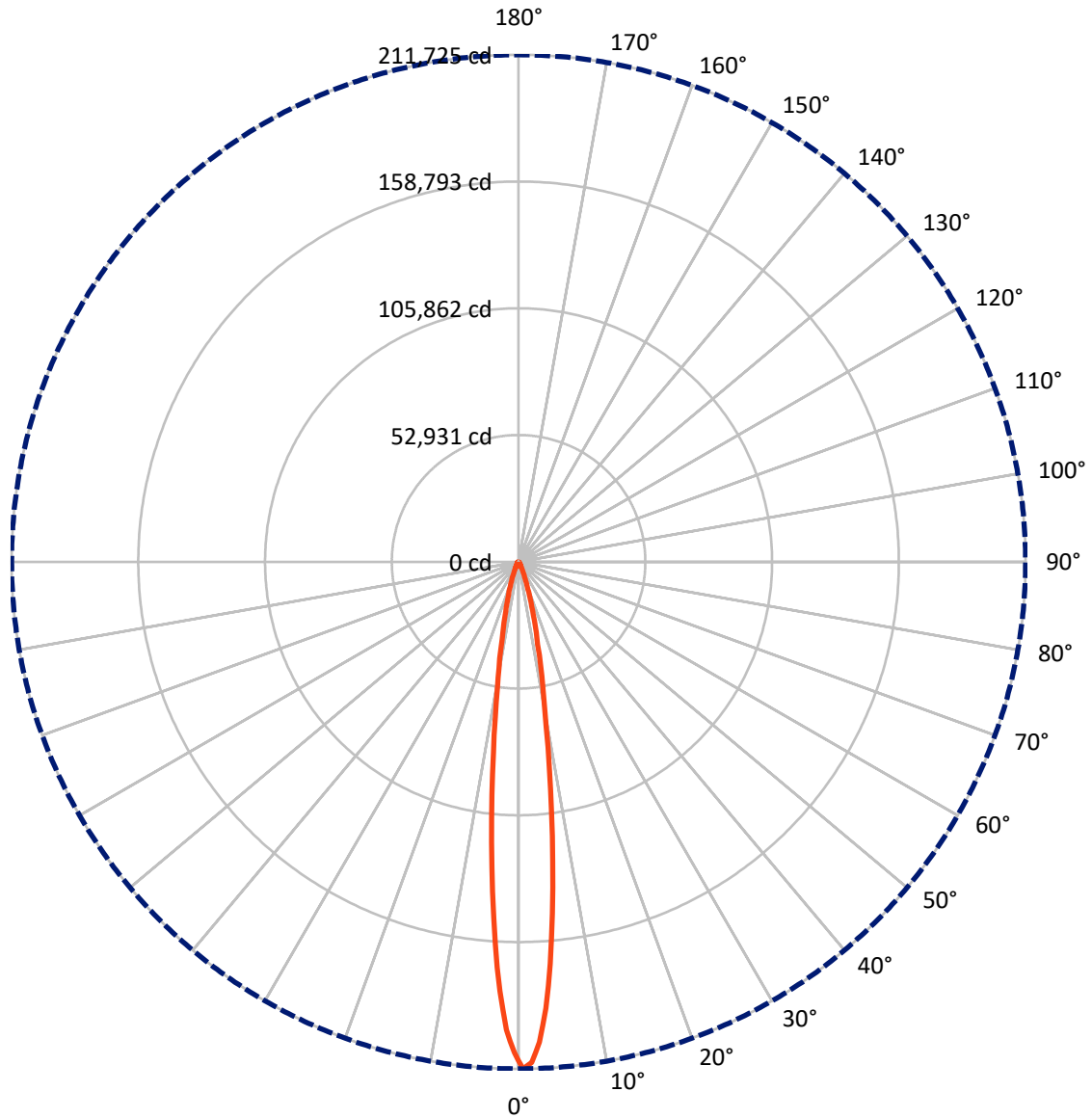
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 529.3 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
<b>House Side</b>	Lumens	10917.0	0.0	10917.0
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	10397.7	0.0	10397.7
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	21314.7	0.0	21314.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10760.3	50.5
10°-20°	6888.7	32.3
20°-30°	2070.6	9.7
30°-40°	674.2	3.2
40°-50°	392.3	1.8
50°-60°	260.6	1.2
60°-70°	156.8	0.7
70°-80°	80.6	0.4
80°-90°	30.6	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°	21314.7	100.0
0°-180°	21314.7	100.0

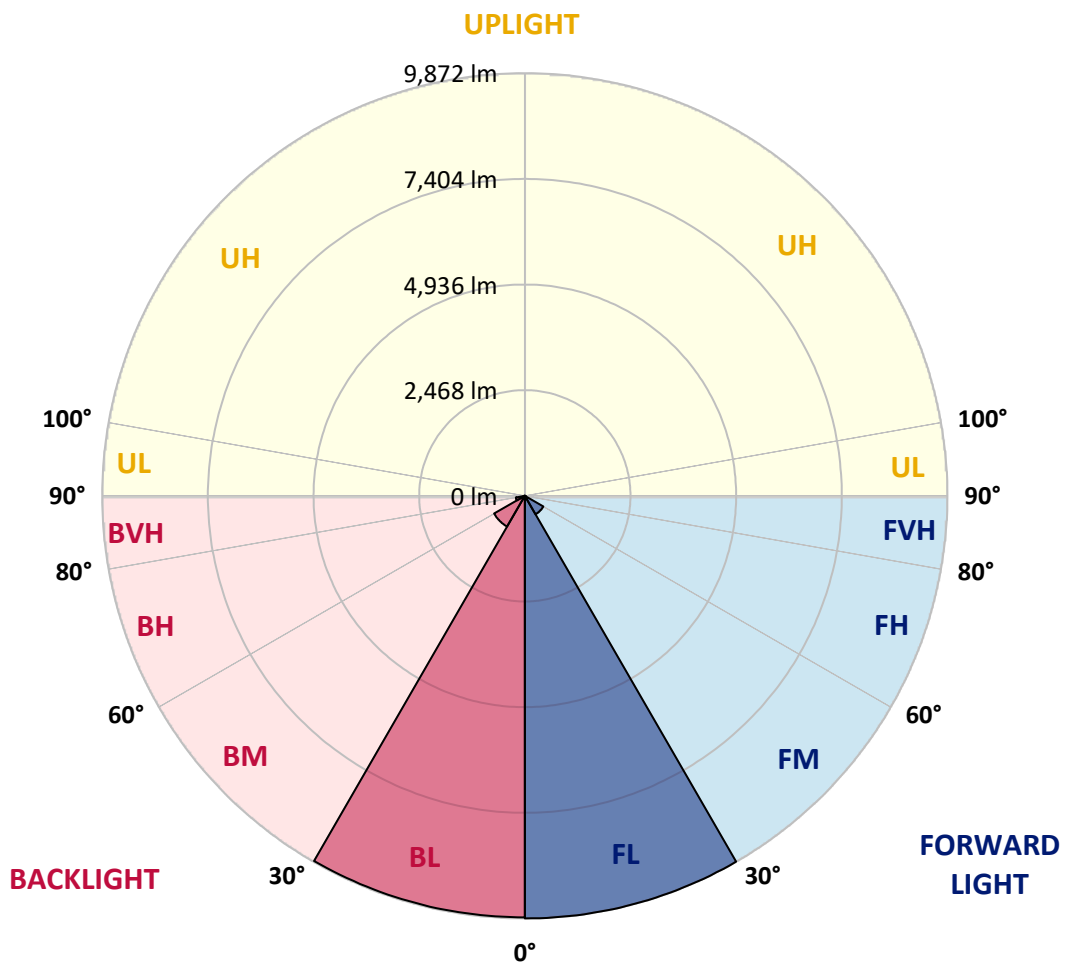


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9871.5	46.3			
FM (30°-60°)	498.1	2.3			
FH (60°-80°)	23.4	0.1			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	9848.1	46.2	B5		
BM (30°-60°)	828.9	3.9	B1/1000		
BH (60°-80°)	214.0	1.0	B1/500		G0/660
BVH (80°-90°)	26.0	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°	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6
1°	209189.5	208551.0	206902.8	208075.1	209105.9	208806.4	208785.5	208674.1	208518.5	209739.7
2°	200827.4	200414.1	197976.5	198981.8	200446.6	199378.7	200047.3	199460.0	199471.6	200929.5
3°	186731.1	186956.3	183067.8	184894.8	186930.8	184342.3	185145.5	186654.5	185073.6	184597.6
4°	168409.7	166455.0	164330.8	166188.0	166715.0	165208.3	166689.5	168537.4	166341.2	166438.8
5°	147492.9	146048.9	143534.7	144681.5	143374.5	143850.4	146069.8	146831.2	145299.0	143369.9
6°	125986.3	124960.2	121816.9	123469.8	123005.5	122736.2	125538.3	123216.8	124052.5	122884.8
7°	104795.5	102878.0	101334.2	102917.4	103019.6	102209.4	105847.2	105424.7	103904.1	103551.2
8°	86824.7	84911.8	83604.7	84784.1	85554.8	84282.6	85993.6	87117.2	85928.6	86035.4
9°	70028.5	69691.9	67874.2	69415.6	70253.7	68891.0	70785.3	71191.6	70079.6	70620.5
10°	57499.3	57107.0	55656.0	56280.5	57668.8	56043.7	57861.5	57993.8	57107.0	57360.0
12.5°	35533.1	35375.3	35335.8	35426.3	35407.8	35695.6	36159.9	35630.6	35561.0	34685.8
15°	22966.8	23201.2	22959.8	23424.1	23491.4	23763.0	23479.8	23052.7	22237.8	21833.9
17.5°	14333.0	14632.5	15045.7	15725.9	16406.2	16485.1	16109.0	15607.6	15212.9	14781.1
20°	8246.0	8392.3	8329.6	9144.5	10904.2	11382.4	10897.2	10370.2	9894.3	9457.9
22.5°	5123.6	5070.2	5167.7	5441.6	6015.0	7493.9	7096.9	6569.9	6224.0	5864.1
25°	3141.0	3199.0	3161.9	3312.8	3570.5	4197.3	4287.8	4060.3	3883.9	3698.2
27.5°	2022.0	2022.0	2038.3	2121.9	2298.3	2277.4	2760.3	2583.8	2488.7	2398.1
30°	1404.5	1409.2	1409.2	1457.9	1497.4	1427.7	1553.1	1780.6	1736.5	1666.8
32.5°	1042.4	1056.3	1067.9	1093.4	1060.9	986.6	1016.8	1281.5	1255.9	1230.4
35°	794.0	805.6	833.4	847.4	800.9	754.5	726.6	942.5	954.1	947.2
37.5°	578.1	585.0	636.1	689.5	636.1	594.3	578.1	724.3	780.0	773.1
40°	443.4	445.7	455.0	515.4	515.4	482.9	487.5	540.9	638.4	638.4
42.5°	380.7	380.7	390.0	380.7	383.1	417.9	429.5	436.4	540.9	540.9
45°	329.7	329.7	334.3	311.1	287.9	359.8	369.1	371.4	455.0	466.6
47.5°	276.3	276.3	285.5	255.4	243.8	285.5	311.1	318.0	392.3	401.6
50°	204.3	206.6	234.5	208.9	215.9	220.5	269.3	273.9	332.0	352.9
52.5°	137.0	137.0	141.6	162.5	188.0	181.1	218.2	234.5	264.7	292.5
55°	111.4	111.4	109.1	104.5	139.3	150.9	160.2	195.0	215.9	250.7
57.5°	76.6	81.3	74.3	85.9	90.5	113.8	120.7	153.2	164.8	211.3
60°	9.3	11.6	16.3	62.7	60.4	76.6	90.5	120.7	134.6	162.5
62.5°	2.3	2.3	4.6	11.6	41.8	51.1	72.0	83.6	97.5	125.4
65°	0.0	0.0	2.3	4.6	9.3	27.9	37.1	48.8	69.6	88.2
67.5°	0.0	0.0	2.3	4.6	4.6	11.6	18.6	30.2	37.1	65.0
70°	0.0	0.0	2.3	4.6	4.6	9.3	11.6	13.9	25.5	34.8
72.5°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	11.6	11.6	23.2
75°	0.0	0.0	2.3	4.6	7.0	9.3	11.6	11.6	9.3	9.3
77.5°	0.0	0.0	2.3	4.6	9.3	11.6	13.9	11.6	7.0	7.0
80°	0.0	0.0	2.3	7.0	11.6	16.3	18.6	13.9	7.0	4.6
82.5°	0.0	0.0	4.6	9.3	13.9	18.6	25.5	20.9	9.3	4.6
85°	0.0	0.0	2.3	7.0	13.9	18.6	37.1	25.5	11.6	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	13.9	9.3	4.6	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°
211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6	211724.6
208330.5	209786.1	209932.4	209454.1	210194.7	209934.7	208411.8	207908.0	207311.4	206452.4
200072.9	199460.0	200205.2	200242.3	201064.2	201052.6	199276.6	198726.4	199740.9	197760.6
185563.4	185001.6	185869.8	185087.5	186547.7	186109.0	183954.6	183395.1	184546.6	183107.2
167209.5	166710.4	166545.5	166276.2	165445.1	166468.9	164999.4	163892.0	165454.4	162376.1
145928.2	145635.6	145268.8	144744.2	144498.1	145259.6	144319.3	142041.9	144324.0	138833.6
124997.4	125150.6	123572.0	123495.4	123358.4	123435.0	120802.4	120960.3	122659.6	118090.9
102337.1	103418.9	103709.1	103117.1	104066.6	103342.3	101559.4	100872.2	102662.1	99432.8
86504.3	85900.7	85533.9	85081.2	86499.7	85243.7	84073.7	83272.8	84686.6	82288.4
70708.7	70576.4	69942.6	69483.0	69411.0	69606.0	67409.9	67855.6	68925.8	67481.8
57499.3	57520.2	56480.2	56733.2	56800.5	56586.9	55147.6	55161.5	55530.7	53794.2
35266.1	35140.8	34630.1	34757.7	34827.4	35261.5	34755.4	34040.4	33525.0	33265.0
22235.5	22086.9	21720.1	22470.0	22973.7	22871.6	22421.2	22084.6	21618.0	21241.9
14781.1	14644.1	15124.7	15127.0	15586.7	15633.1	15182.7	14922.7	14502.5	14521.1
9613.4	9578.6	9778.2	10193.8	10518.8	10706.8	10363.2	10052.2	9764.3	9643.6
5994.2	5994.2	6342.4	6602.4	7024.9	7196.7	6946.0	6725.4	6491.0	6347.0
3742.3	3679.6	3928.0	4143.9	4510.7	4745.2	4624.5	4422.5	4257.7	4181.0
2416.7	2453.8	2558.3	2665.1	2918.1	3161.9	3094.6	3013.3	2913.5	2878.7
1704.0	1729.5	1738.8	1852.6	1994.2	2156.7	2198.5	2161.3	2110.3	2070.8
1251.3	1274.5	1311.7	1365.1	1453.3	1562.4	1662.2	1643.6	1620.4	1601.8
956.5	984.3	1040.0	1084.1	1151.5	1209.5	1304.7	1320.9	1314.0	1300.0
787.0	803.2	852.0	896.1	935.6	984.3	1049.3	1100.4	1102.7	1088.8
650.0	666.3	710.4	768.4	798.6	833.4	882.2	944.9	949.5	944.9
550.2	561.8	603.6	661.6	698.8	724.3	770.7	833.4	842.7	833.4
471.3	482.9	508.4	568.8	612.9	638.4	668.6	735.9	745.2	742.9
406.3	420.2	445.7	482.9	545.6	568.8	596.6	650.0	666.3	666.3
359.8	369.1	394.7	427.2	482.9	517.7	540.9	585.0	608.2	608.2
313.4	327.3	352.9	387.7	431.8	471.3	492.2	533.9	564.1	564.1
255.4	273.9	318.0	343.6	383.1	436.4	455.0	487.5	527.0	527.0
222.9	239.1	276.3	313.4	345.9	399.3	422.5	455.0	492.2	496.8
176.4	202.0	236.8	280.9	308.8	359.8	390.0	424.8	459.7	468.9
134.6	160.2	206.6	236.8	276.3	325.0	364.5	392.3	427.2	441.1
104.5	118.4	169.5	204.3	246.1	292.5	334.3	357.5	394.7	403.9
74.3	85.9	132.3	174.1	213.6	257.7	299.5	322.7	355.2	362.2
46.4	67.3	97.5	143.9	178.8	225.2	260.0	285.5	306.4	313.4
30.2	39.5	74.3	116.1	155.5	197.3	220.5	239.1	257.7	262.3
13.9	25.5	58.0	95.2	130.0	160.2	181.1	197.3	213.6	215.9
7.0	16.3	41.8	76.6	109.1	123.0	148.6	162.5	171.8	167.1
4.6	9.3	32.5	67.3	88.2	99.8	116.1	130.0	141.6	130.0
4.6	7.0	27.9	55.7	74.3	74.3	92.9	99.8	99.8	95.2
2.3	4.6	23.2	44.1	69.6	55.7	69.6	65.0	65.0	65.0
2.3	4.6	16.3	20.9	30.2	25.5	30.2	30.2	34.8	34.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
211724.6  
204948.1  
195443.8  
179432.3  
159799.2  
138311.3  
117733.4  
97793.9  
80649.5  
65582.8  
53018.8  
33211.6  
21378.8  
14398.0  
9664.5  
6365.6  
4162.5  
2855.5  
2075.4  
1601.8  
1290.8  
1086.5  
942.5  
835.7  
742.9  
668.6  
610.6  
564.1  
529.3  
494.5  
468.9  
443.4  
401.6  
357.5  
313.4  
262.3  
213.6  
167.1  
127.7  
92.9  
62.7  
34.8  
0.0

(END OF REPORT)