

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: P637784

Luminaire Tested: **IFLD-S-SA2D-722-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637784  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9713.8 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

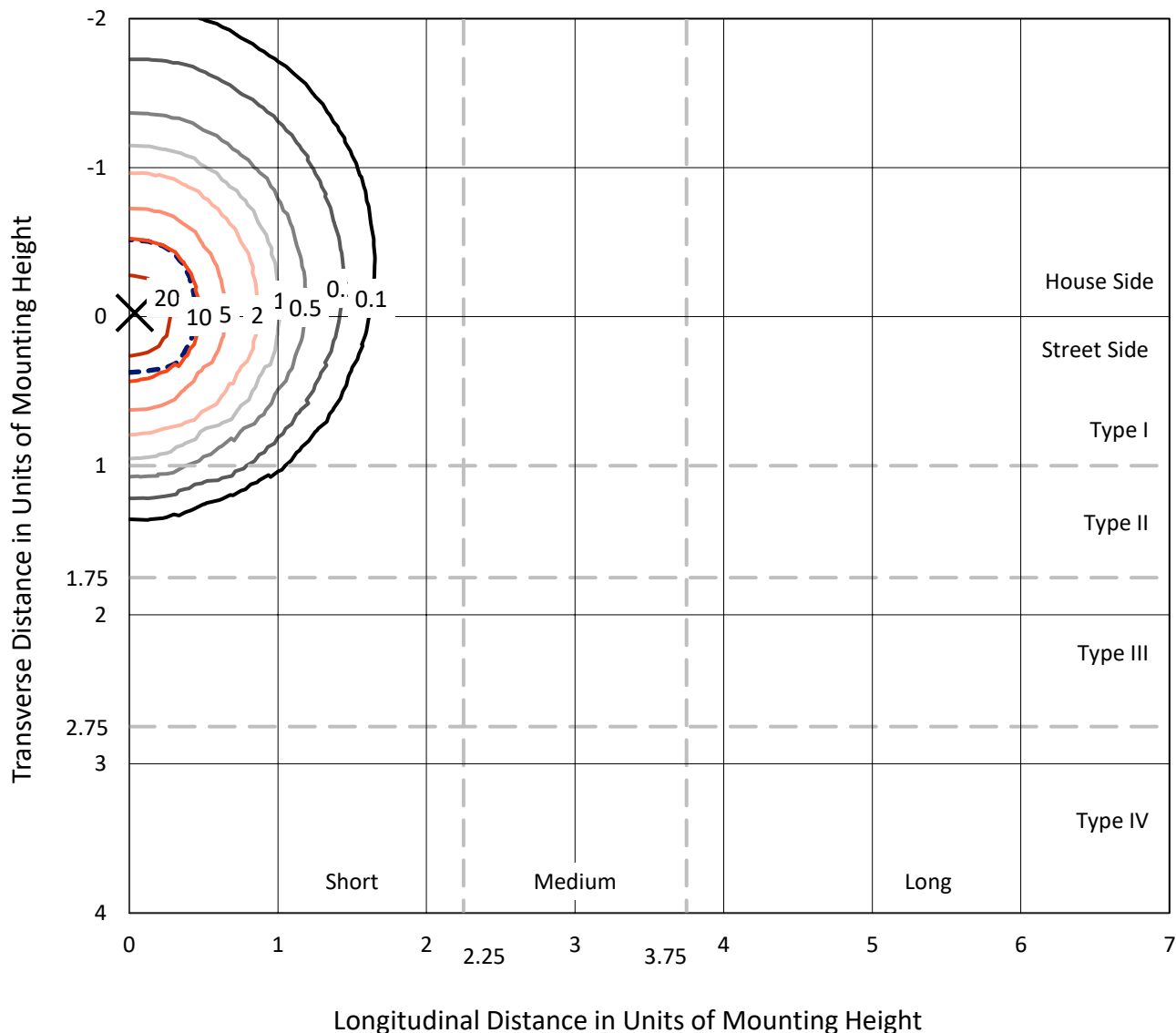
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

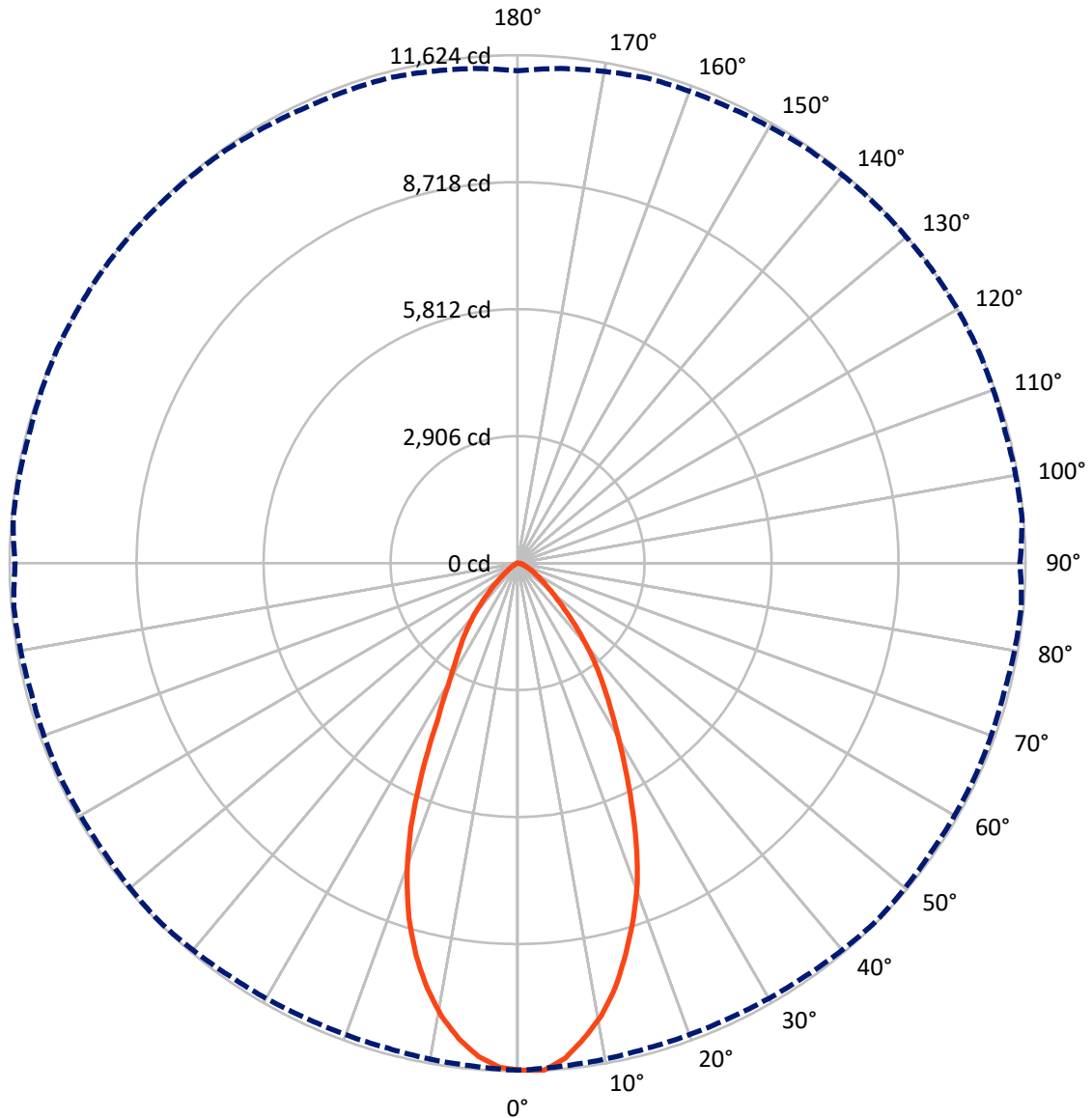
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5512.0	0.0	5512.0
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	4201.8	0.0	4201.8
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	9713.8	0.0	9713.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1053.8	10.8
10°-20°	2512.1	25.9
20°-30°	2558.6	26.3
30°-40°	1907.9	19.6
40°-50°	996.7	10.3
50°-60°	419.2	4.3
60°-70°	171.2	1.8
70°-80°	72.0	0.7
80°-90°	22.2	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°	9713.8	100.0
0°-180°	9713.8	100.0



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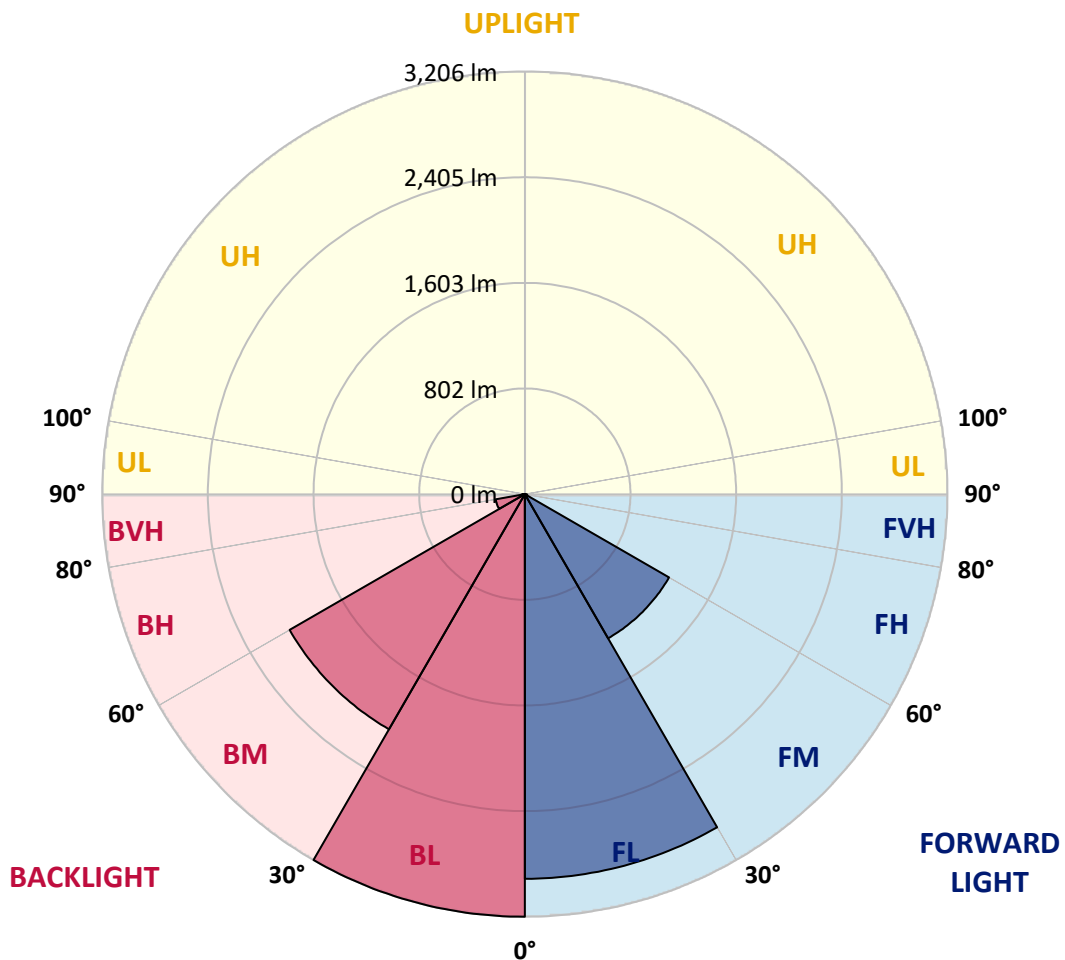
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2918.2	30.0			
FM	(30°-60°)	1263.3	13.0			
FH	(60°-80°)	18.3	0.2			G0/660
FVH	(80°-90°)	2.1	0.0			G0/10
BL	(0°-30°)	3206.4	33.0	B4/5000		
BM	(30°-60°)	2060.5	21.2	B2/2500		
BH	(60°-80°)	225.0	2.3	B1/500		G1/500
BVH	(80°-90°)	20.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7
2.5°	11607.0	11559.6	11492.2	11485.9	11520.9	11597.0	11548.3	11550.8	11520.9	11572.0
5°	11424.8	11379.9	11333.7	11272.6	11323.7	11356.2	11331.2	11303.8	11265.1	11315.0
7.5°	11080.4	11055.4	10986.8	10959.4	10990.6	11026.7	10973.1	10965.6	10911.9	10976.8
10°	10553.8	10543.8	10476.5	10460.2	10487.7	10542.6	10518.9	10513.9	10480.2	10474.0
12.5°	10007.3	9968.6	9885.0	9880.0	9921.2	10003.6	9939.9	9878.8	9897.5	9913.7
15°	8599.8	8558.6	8765.7	9091.4	9262.4	9256.1	9274.8	9201.2	9178.8	9186.2
17.5°	6836.7	6766.8	6841.6	7345.8	8158.1	8629.7	8500.0	8341.5	8256.6	8200.5
20°	5900.8	5904.6	5890.8	6020.6	6527.2	7602.8	7571.6	7265.9	7154.8	7108.7
22.5°	5331.8	5310.6	5280.7	5321.8	5457.8	6089.2	6512.2	6231.5	6192.8	6141.6
25°	4774.1	4774.1	4737.9	4779.0	4817.7	4826.5	5250.7	5365.5	5290.6	5290.6
27.5°	4291.2	4266.2	4250.0	4268.7	4217.5	3971.7	4025.4	4613.1	4561.9	4530.7
30°	3812.0	3804.5	3777.1	3802.0	3612.4	3335.3	3223.0	3893.1	3946.8	3935.5
32.5°	3146.9	3176.9	3299.2	3337.8	3013.4	2790.1	2682.8	3231.8	3446.4	3437.7
35°	2138.7	2163.7	2303.4	2765.1	2498.1	2338.4	2307.2	2570.5	2923.6	2957.3
37.5°	1703.2	1699.5	1739.4	1821.8	2007.7	1969.0	1960.3	2028.9	2384.5	2399.5
40°	1403.8	1398.8	1397.5	1330.1	1284.0	1637.1	1613.4	1572.2	1880.4	1910.4
42.5°	1131.7	1136.7	1140.5	993.2	925.9	1262.8	1249.0	1206.6	1474.9	1509.8
45°	888.4	887.2	894.7	739.9	721.2	807.3	933.3	899.7	1113.0	1150.5
47.5°	460.4	476.7	577.7	572.7	581.5	572.7	706.3	697.5	837.3	897.2
50°	309.5	314.4	323.2	324.4	457.9	421.8	479.2	542.8	586.5	678.8
52.5°	239.6	243.3	220.9	207.1	280.8	311.9	314.4	375.6	409.3	502.9
55°	133.5	149.7	161.0	162.2	154.7	230.8	229.6	278.3	304.5	366.9
57.5°	17.5	21.2	32.4	104.8	103.6	128.5	161.0	202.1	217.1	268.3
60°	1.2	2.5	3.7	16.2	68.6	74.9	109.8	126.0	151.0	188.4
62.5°	0.0	0.0	1.2	3.7	13.7	43.7	57.4	66.1	88.6	123.5
65°	0.0	0.0	1.2	2.5	5.0	16.2	22.5	36.2	52.4	76.1
67.5°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	16.2	27.5	46.2
70°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	10.0	15.0	25.0
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	6.2	7.5	10.0	13.7
75°	0.0	0.0	1.2	2.5	3.7	6.2	6.2	6.2	7.5	8.7
77.5°	0.0	0.0	1.2	2.5	3.7	6.2	5.0	6.2	6.2	6.2
80°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	6.2	5.0	5.0
82.5°	0.0	0.0	1.2	3.7	3.7	8.7	8.7	8.7	3.7	3.7
85°	0.0	0.0	2.5	3.7	6.2	10.0	10.0	7.5	3.7	2.5
87.5°	0.0	0.0	1.2	2.5	2.5	5.0	7.5	6.2	2.5	1.2
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°
11605.7	0°	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7	11605.7
11497.2	2.5°	11589.5	11558.3	11616.9	11624.4	11599.5	11568.3	11495.9	11489.7	11363.6
11242.6	5°	11369.9	11318.7	11356.2	11381.1	11372.4	11338.7	11308.7	11281.3	11167.7
10829.6	7.5°	10960.6	10941.9	10959.4	10978.1	11014.3	10978.1	10965.6	10936.9	10824.6
10422.8	10°	10506.4	10471.5	10537.6	10528.9	10518.9	10508.9	10456.5	10461.5	10329.2
9868.8	12.5°	9948.7	9890.0	9953.6	9961.1	9953.6	9918.7	9860.1	9885.0	9764.0
9120.1	15°	9198.7	9192.5	9238.7	9268.6	9289.8	9252.4	9232.4	9244.9	9172.5
8156.8	17.5°	8277.9	8359.0	8509.9	8561.1	8562.4	8601.0	8589.8	8574.8	8521.2
7090.0	20°	7194.8	7350.7	7582.8	7821.2	7889.8	7857.4	7842.4	7869.8	7790.0
6088.0	22.5°	6195.3	6328.8	6598.3	6946.5	7147.4	7167.3	7163.6	7139.9	7108.7
5285.6	25°	5346.8	5465.3	5723.6	6041.8	6427.4	6484.8	6487.3	6479.8	6452.3
4558.2	27.5°	4630.6	4774.1	4916.3	5200.8	5611.3	5848.4	5818.5	5809.7	5799.7
3944.3	30°	3981.7	4162.6	4296.2	4473.3	4841.4	5162.1	5193.3	5178.3	5154.6
3436.4	32.5°	3467.6	3574.9	3744.6	3864.4	4128.9	4492.1	4611.8	4600.6	4579.4
2978.5	35°	3020.9	3063.3	3196.8	3330.4	3506.3	3858.2	4035.4	4010.4	4006.7
2427.0	37.5°	2488.1	2630.3	2704.0	2838.7	2962.3	3235.5	3480.1	3468.9	3470.1
1951.5	40°	2008.9	2091.3	2237.3	2350.8	2464.4	2664.0	2936.1	2943.5	2941.0
1511.1	42.5°	1542.3	1622.1	1775.6	1899.1	2000.2	2123.7	2383.3	2392.0	2403.2
1176.7	45°	1204.1	1255.3	1367.6	1496.1	1603.4	1678.3	1875.4	1931.6	1932.8
912.1	47.5°	934.6	993.2	1073.1	1196.6	1301.4	1355.1	1498.6	1574.7	1571.0
700.0	50°	733.7	787.4	852.2	949.6	1063.1	1105.5	1211.6	1286.5	1282.7
527.8	52.5°	561.5	630.1	687.5	762.4	873.5	909.6	985.8	1071.9	1059.4
386.8	55°	425.5	495.4	549.0	611.4	712.5	758.7	811.1	879.7	882.2
299.5	57.5°	320.7	393.1	441.7	505.4	581.5	632.6	672.6	746.2	744.9
204.6	60°	229.6	292.0	350.6	416.8	475.4	534.1	561.5	631.4	633.9
144.7	62.5°	166.0	224.6	280.8	338.2	390.6	448.0	472.9	527.8	535.3
94.8	65°	116.0	157.2	222.1	265.8	324.4	366.9	399.3	446.7	455.4
56.2	67.5°	74.9	113.5	175.9	214.6	268.3	304.5	338.2	375.6	386.8
36.2	70°	44.9	86.1	131.0	172.2	220.9	253.3	285.7	318.2	324.4
17.5	72.5°	28.7	59.9	94.8	139.8	177.2	212.1	240.8	264.5	245.8
11.2	75°	16.2	41.2	74.9	109.8	143.5	177.2	200.9	213.4	170.9
7.5	77.5°	10.0	29.9	61.1	88.6	111.1	142.2	157.2	164.7	122.3
5.0	80°	6.2	22.5	51.2	72.4	72.4	104.8	122.3	128.5	88.6
3.7	82.5°	5.0	16.2	39.9	54.9	48.7	78.6	96.1	97.3	62.4
2.5	85°	3.7	12.5	25.0	36.2	33.7	54.9	56.2	62.4	41.2
2.5	87.5°	2.5	7.5	15.0	21.2	18.7	26.2	29.9	33.7	22.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
11605.7  
*11265.1*  
11076.7  
10800.9  
10284.3  
9729.0  
9085.2  
8441.3  
7732.6  
7048.8  
6360.0  
5741.1  
5124.7  
4523.2  
3965.5  
3430.2  
2897.4  
2365.8  
1900.4  
1557.2  
1282.7  
1060.6  
882.2  
742.4  
627.6  
532.8  
452.9  
385.6  
319.4  
228.3  
162.2  
114.8  
82.4  
57.4  
37.4  
20.0  
0.0

(END OF REPORT)