

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: P637900

Luminaire Tested: **IFLD-S-SA2D-740-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637900  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-740-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13187.5 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

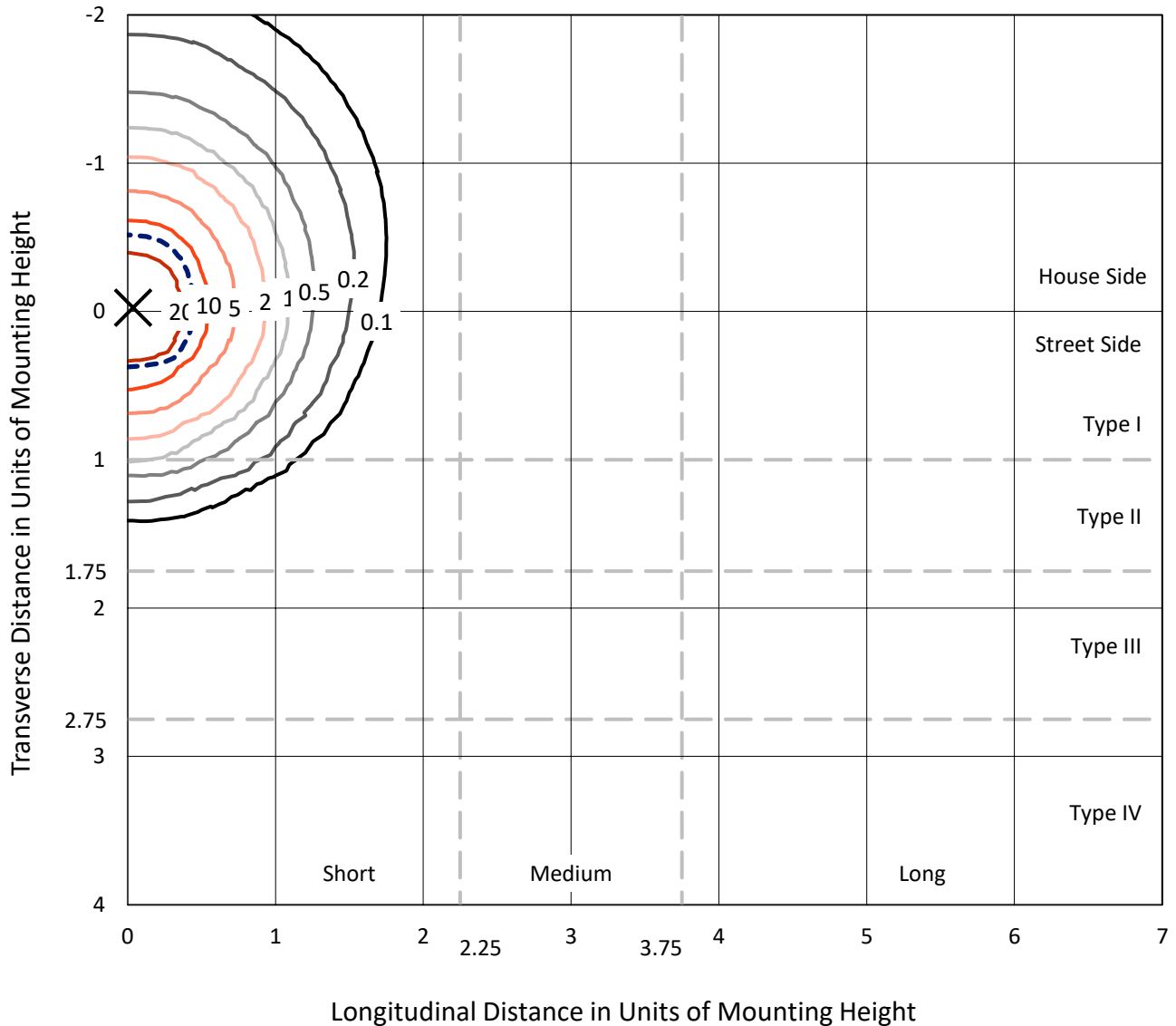
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

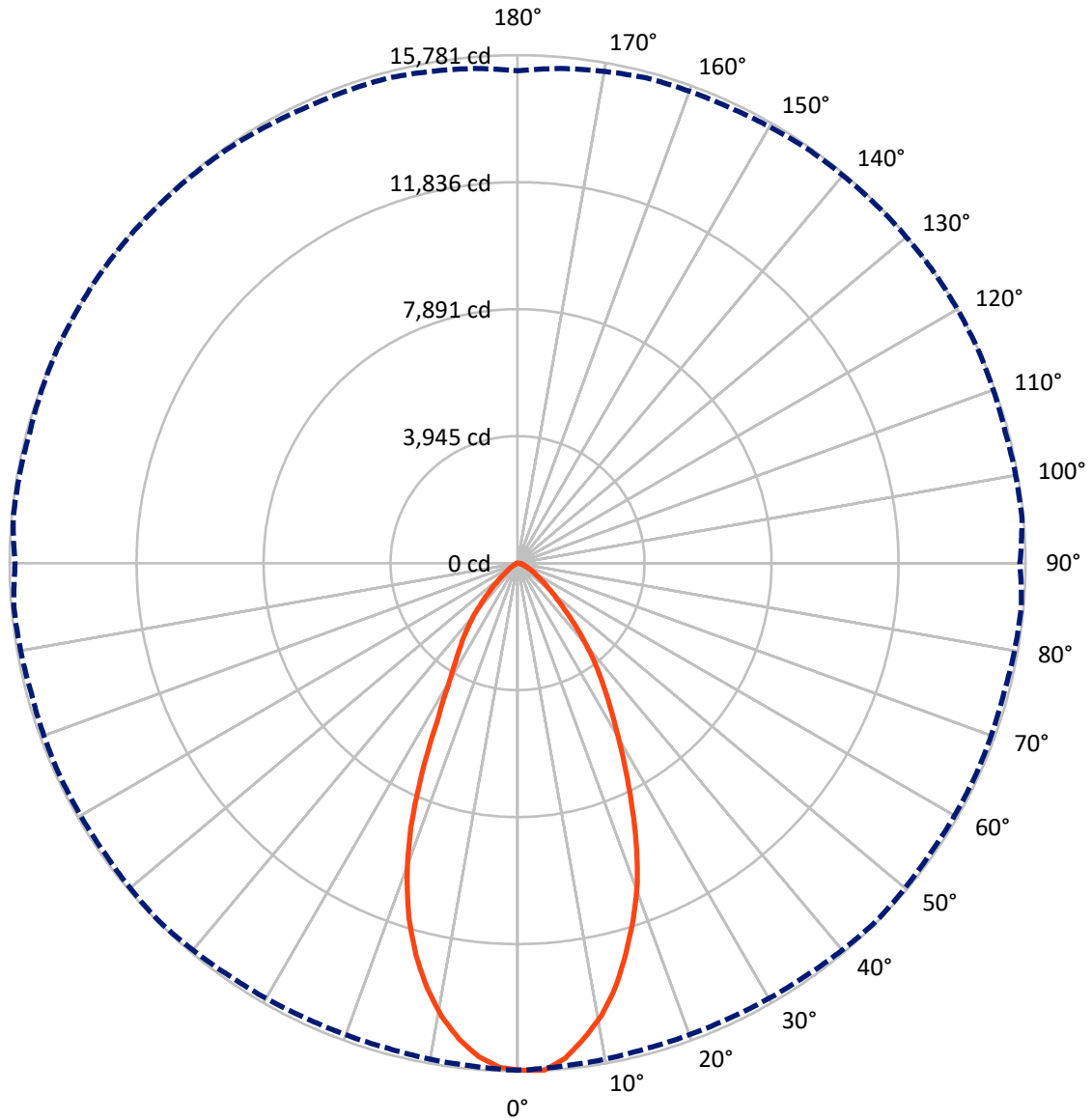
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.4 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	7483.1	0.0	7483.1
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	5704.4	0.0	5704.4
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	13187.5	0.0	13187.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1430.7	10.8
10°-20°	3410.4	25.9
20°-30°	3473.5	26.3
30°-40°	2590.1	19.6
40°-50°	1353.2	10.3
50°-60°	569.2	4.3
60°-70°	232.4	1.8
70°-80°	97.8	0.7
80°-90°	30.1	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°	13187.5	100.0
0°-180°	13187.5	100.0



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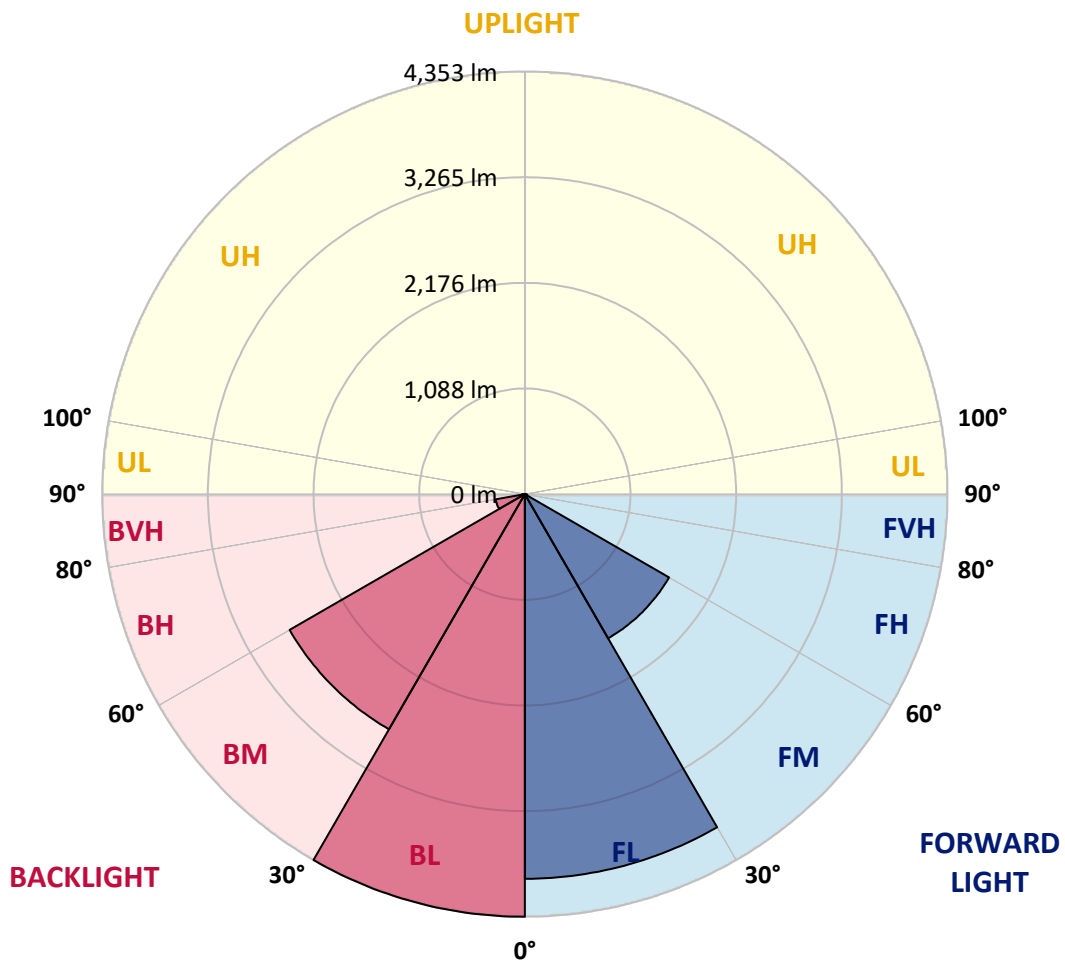
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3961.7	30.0			
FM (30°-60°)	1715.1	13.0			
FH (60°-80°)	24.8	0.2			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	4352.9	33.0	B4/5000		
BM (30°-60°)	2797.4	21.2	B3/5000		
BH (60°-80°)	305.4	2.3	B1/500		G1/500
BVH (80°-90°)	27.3	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°	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8
2.5°	15757.5	15693.1	15601.6	15593.2	15640.6	15743.9	15677.9	15681.3	15640.6	15710.1
5°	15510.2	15449.2	15386.5	15303.5	15373.0	15417.0	15383.1	15345.9	15293.3	15361.1
7.5°	15042.6	15008.7	14915.6	14878.3	14920.7	14969.8	14896.9	14886.8	14813.9	14902.0
10°	14327.8	14314.2	14222.7	14200.7	14238.0	14312.5	14280.3	14273.6	14227.8	14219.3
12.5°	13585.8	13533.3	13419.8	13413.0	13468.9	13580.7	13494.3	13411.3	13436.7	13458.7
15°	11675.0	11619.1	11900.3	12342.4	12574.5	12566.0	12591.4	12491.5	12461.0	12471.2
17.5°	9281.4	9186.5	9288.1	9972.5	11075.3	11715.6	11539.5	11324.3	11209.1	11132.9
20°	8010.9	8016.0	7997.3	8173.5	8861.3	10321.5	10279.1	9864.1	9713.3	9650.7
22.5°	7238.4	7209.6	7169.0	7224.9	7409.5	8266.7	8840.9	8459.8	8407.3	8337.8
25°	6481.2	6481.2	6432.1	6488.0	6540.5	6552.4	7128.3	7284.2	7182.5	7182.5
27.5°	5825.6	5791.8	5769.7	5795.1	5725.7	5392.0	5464.8	6262.7	6193.2	6150.9
30°	5175.1	5165.0	5127.7	5161.6	4904.1	4528.0	4375.6	5285.2	5358.1	5342.8
32.5°	4272.2	4312.9	4478.9	4531.4	4091.0	3787.8	3642.1	4387.4	4678.8	4666.9
35°	2903.5	2937.4	3127.1	3753.9	3391.4	3174.5	3132.2	3489.6	3969.0	4014.8
37.5°	2312.3	2307.2	2361.4	2473.2	2725.6	2673.1	2661.3	2754.4	3237.2	3257.5
40°	1905.7	1899.0	1897.3	1805.8	1743.1	2222.5	2190.3	2134.4	2552.8	2593.5
42.5°	1536.4	1543.2	1548.3	1348.4	1256.9	1714.3	1695.7	1638.1	2002.3	2049.7
45°	1206.1	1204.4	1214.6	1004.5	979.1	1096.0	1267.1	1221.4	1511.0	1561.9
47.5°	625.1	647.1	784.3	777.5	789.4	777.5	958.8	946.9	1136.7	1218.0
50°	420.1	426.9	438.7	440.4	621.7	572.6	650.5	736.9	796.2	921.5
52.5°	325.2	330.3	299.8	281.2	381.1	423.5	426.9	509.9	555.6	682.7
55°	181.3	203.3	218.5	220.2	210.1	313.4	311.7	377.8	413.3	498.0
57.5°	23.7	28.8	44.0	142.3	140.6	174.5	218.5	274.4	294.8	364.2
60°	1.7	3.4	5.1	22.0	93.2	101.6	149.1	171.1	205.0	255.8
62.5°	0.0	0.0	1.7	5.1	18.6	59.3	77.9	89.8	120.3	167.7
65°	0.0	0.0	1.7	3.4	6.8	22.0	30.5	49.1	71.1	103.3
67.5°	0.0	0.0	1.7	3.4	5.1	8.5	13.6	22.0	37.3	62.7
70°	0.0	0.0	1.7	3.4	5.1	6.8	10.2	13.6	20.3	33.9
72.5°	0.0	0.0	1.7	1.7	3.4	8.5	8.5	10.2	13.6	18.6
75°	0.0	0.0	1.7	3.4	5.1	8.5	8.5	8.5	10.2	11.9
77.5°	0.0	0.0	1.7	3.4	5.1	8.5	6.8	8.5	8.5	8.5
80°	0.0	0.0	1.7	3.4	5.1	8.5	10.2	8.5	6.8	6.8
82.5°	0.0	0.0	1.7	5.1	5.1	11.9	11.9	11.9	5.1	5.1
85°	0.0	0.0	3.4	5.1	8.5	13.6	13.6	10.2	5.1	3.4
87.5°	0.0	0.0	1.7	3.4	3.4	6.8	10.2	8.5	3.4	1.7
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°
15755.8	0°	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8	15755.8
15608.4	2.5°	15733.8	15691.4	15771.0	15781.2	15747.3	15705.0	15606.7	15598.3	15427.2
15262.8	5°	15435.6	15366.2	15417.0	15450.9	15439.0	15393.3	15352.6	15315.4	15161.2
14702.1	7.5°	14880.0	14854.6	14878.3	14903.7	14952.8	14903.7	14886.8	14847.8	14695.4
14149.9	10°	14263.4	14216.0	14305.7	14293.9	14280.3	14266.8	14195.6	14202.4	14022.8
13397.8	12.5°	13506.2	13426.6	13513.0	13523.1	13513.0	13465.5	13385.9	13419.8	13255.5
12381.4	15°	12488.1	12479.6	12542.3	12583.0	12611.8	12560.9	12533.8	12550.8	12452.5
11073.6	17.5°	11237.9	11348.0	11553.0	11622.5	11624.2	11676.7	11661.4	11641.1	11568.3
9625.2	20°	9767.5	9979.3	10294.4	10617.9	10711.1	10667.1	10646.7	10684.0	10575.6
8265.0	22.5°	8410.7	8591.9	8957.8	9430.4	9703.2	9730.3	9725.2	9693.0	9650.7
7175.7	25°	7258.7	7419.7	7770.3	8202.3	8725.7	8803.7	8807.1	8796.9	8759.6
6188.1	27.5°	6286.4	6481.2	6674.3	7060.5	7617.9	7939.7	7899.1	7887.2	7873.7
5354.7	30°	5405.5	5651.1	5832.4	6073.0	6572.7	7008.0	7050.4	7030.1	6997.9
4665.2	32.5°	4707.6	4853.3	5083.7	5246.3	5605.4	6098.4	6261.0	6245.7	6216.9
4043.6	35°	4101.1	4158.7	4340.0	4521.3	4760.1	5237.8	5478.4	5444.5	5439.4
3294.8	37.5°	3377.8	3570.9	3670.9	3853.8	4021.5	4392.5	4724.5	4709.3	4711.0
2649.4	40°	2727.3	2839.1	3037.3	3191.5	3345.6	3616.7	3986.0	3996.1	3992.7
2051.4	42.5°	2093.8	2202.2	2410.5	2578.3	2715.5	2883.2	3235.5	3247.4	3262.6
1597.4	45°	1634.7	1704.2	1856.6	2031.1	2176.8	2278.4	2546.1	2622.3	2624.0
1238.3	47.5°	1268.8	1348.4	1456.8	1624.5	1766.8	1839.7	2034.5	2137.8	2132.7
950.3	50°	996.1	1068.9	1157.0	1289.1	1443.3	1500.9	1644.9	1746.5	1741.4
716.6	52.5°	762.3	855.5	933.4	1035.0	1185.8	1234.9	1338.3	1455.1	1438.2
525.1	55°	577.7	672.5	745.4	830.1	967.3	1029.9	1101.1	1194.3	1197.7
406.6	57.5°	435.4	533.6	599.7	686.1	789.4	858.9	913.1	1013.0	1011.3
277.8	60°	311.7	396.4	476.0	565.8	645.4	725.0	762.3	857.2	860.5
196.5	62.5°	225.3	304.9	381.1	459.1	530.2	608.1	642.0	716.6	726.7
128.7	65°	157.5	213.4	301.5	360.8	440.4	498.0	542.1	606.4	618.3
76.2	67.5°	101.6	154.2	238.9	291.4	364.2	413.3	459.1	509.9	525.1
49.1	70°	61.0	116.9	177.9	233.8	299.8	343.9	387.9	432.0	440.4
23.7	72.5°	39.0	81.3	128.7	189.7	240.5	288.0	326.9	359.1	333.7
15.2	75°	22.0	55.9	101.6	149.1	194.8	240.5	272.7	289.7	232.1
10.2	77.5°	13.6	40.7	83.0	120.3	150.8	193.1	213.4	223.6	166.0
6.8	80°	8.5	30.5	69.5	98.3	98.3	142.3	166.0	174.5	120.3
5.1	82.5°	6.8	22.0	54.2	74.5	66.1	106.7	130.4	132.1	84.7
3.4	85°	5.1	16.9	33.9	49.1	45.7	74.5	76.2	84.7	55.9
3.4	87.5°	3.4	10.2	20.3	28.8	25.4	35.6	40.7	45.7	30.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
15755.8
15293.3
15037.5
14663.2
13961.9
13208.0
12333.9
11459.8
10497.7
9569.3
8634.3
7794.0
6957.2
6140.7
5383.5
4656.8
3933.4
3211.8
2579.9
2114.1
1741.4
1439.9
1197.7
1007.9
852.1
723.3
614.9
523.4
433.7
310.0
220.2
155.8
111.8
77.9
50.8
27.1
0.0

(END OF REPORT)