

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: P637291

Luminaire Tested: **IFLD-S-SA2D-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637291  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12614.8 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

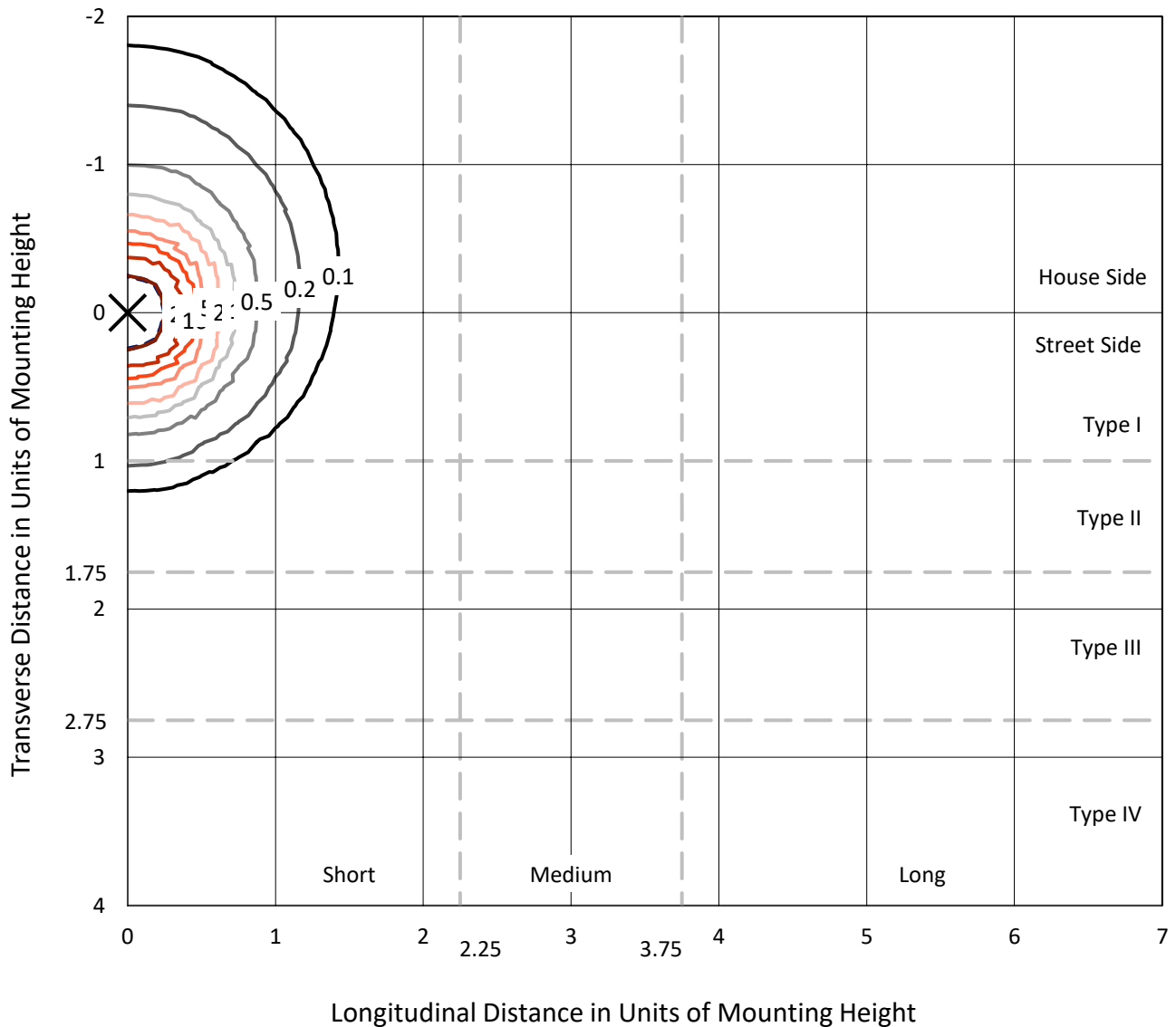
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

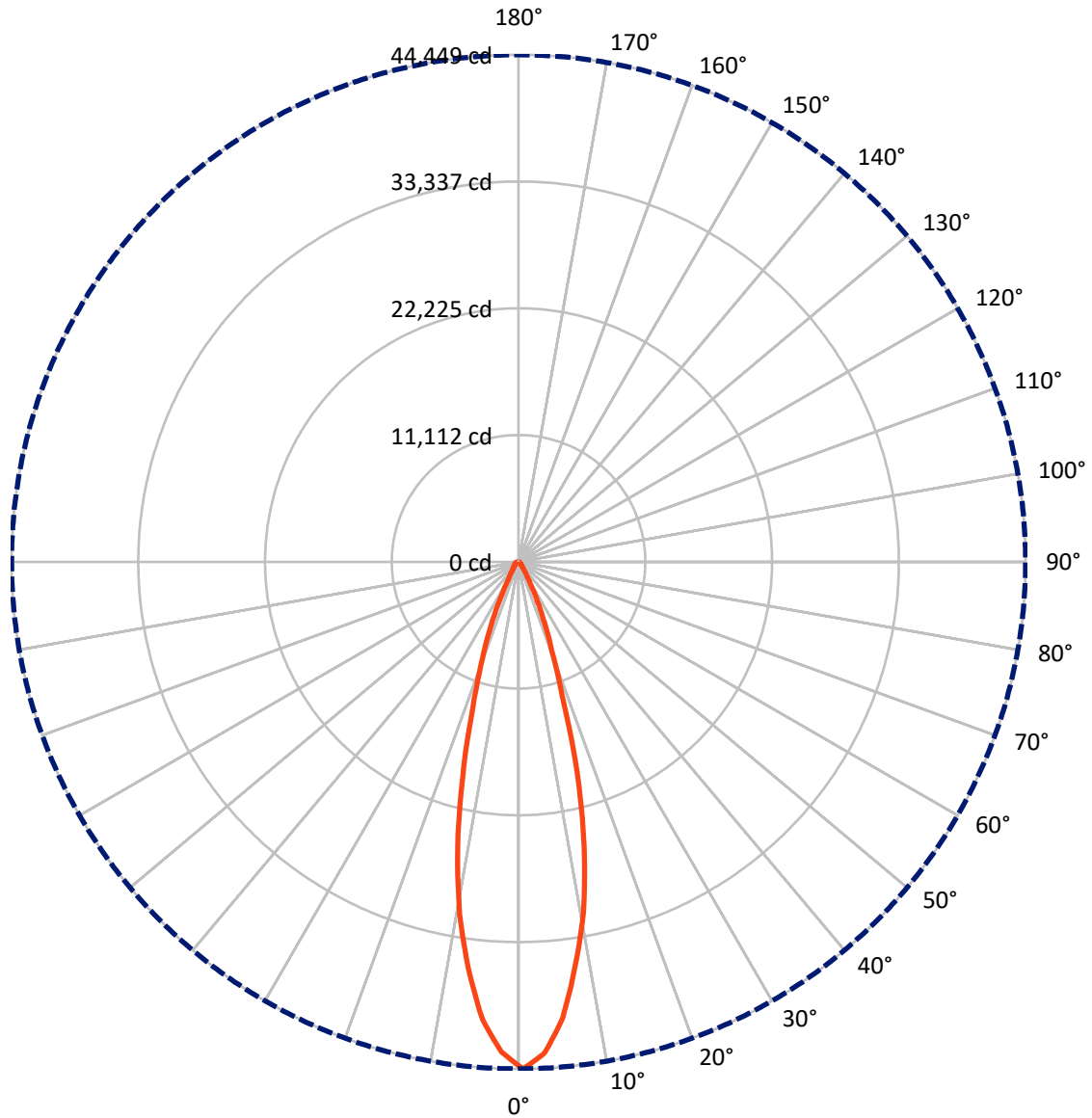
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 111.1 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	6651.4	0.0	6651.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	5963.4	0.0	5963.4
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	12614.8	0.0	12614.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3587.4	28.4
10°-20°	5433.1	43.1
20°-30°	2292.8	18.2
30°-40°	598.0	4.7
40°-50°	302.5	2.4
50°-60°	197.7	1.6
60°-70°	118.4	0.9
70°-80°	62.3	0.5
80°-90°	22.5	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°	12614.8	100.0
0°-180°	12614.8	100.0

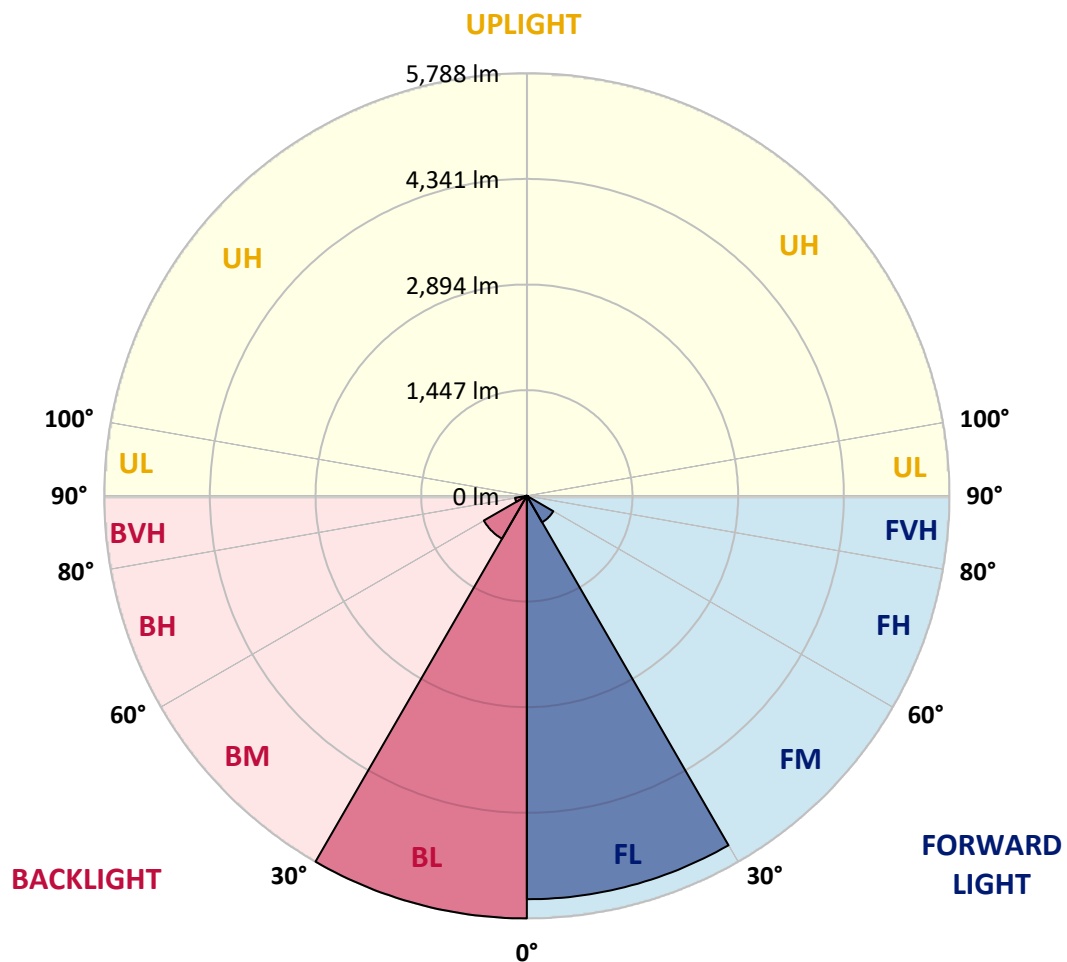


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5525.2	43.8			
FM (30°-60°)	418.4	3.3			
FH (60°-80°)	17.0	0.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	5788.2	45.9	B5		
BM (30°-60°)	679.7	5.4	B1/1000		
BH (60°-80°)	163.7	1.3	B1/500		G0/660
BVH (80°-90°)	19.8	0.2			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°	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1
2.5°	43154.3	43178.3	43089.1	43281.8	43131.6	43533.9	43334.2	43645.8	43541.0	43715.3
5°	40207.6	40167.9	40142.4	40441.4	40354.9	40787.0	40510.8	40420.1	40700.6	40649.6
7.5°	35757.9	35862.7	35803.2	35881.1	35925.0	36418.0	36573.9	36452.0	36456.3	36527.1
10°	31196.2	31041.8	30822.2	30968.2	31277.0	31492.3	31405.9	31584.4	31544.7	31713.3
12.5°	25583.4	25705.3	25582.0	25451.7	25991.4	25931.9	26082.1	26179.9	25934.8	26480.2
15°	19270.8	19334.6	19484.7	19474.8	19889.9	19973.5	19953.6	20057.1	19865.8	19956.5
17.5°	12380.2	12595.5	12999.3	13682.1	14449.9	14539.2	14516.5	14431.5	14339.4	14237.4
20°	8315.8	8293.1	8439.0	8638.8	10228.3	10649.0	10636.3	10369.9	9984.6	9910.9
22.5°	5825.3	5867.8	5848.0	6046.3	6375.0	7535.2	7392.1	7121.5	6995.5	6913.3
25°	3832.1	3816.5	3915.6	3975.1	4257.1	4398.7	4900.2	4799.6	4605.6	4626.8
27.5°	2336.1	2355.9	2392.7	2443.7	2643.5	2598.2	2884.3	2922.6	2860.2	2793.7
30°	1433.7	1447.8	1477.6	1514.4	1583.8	1534.2	1613.6	1751.0	1728.3	1681.6
32.5°	973.2	974.7	995.9	1010.1	1001.6	954.8	980.3	1110.7	1113.5	1109.2
35°	699.8	699.8	719.7	731.0	706.9	668.7	672.9	753.7	789.1	796.2
37.5°	483.1	484.5	518.5	552.5	525.6	515.7	498.7	552.5	609.2	617.7
40°	366.9	365.5	382.5	408.0	410.8	392.4	398.1	432.1	490.2	497.2
42.5°	297.5	298.9	307.4	304.6	306.0	330.1	338.6	354.2	408.0	420.7
45°	250.7	252.2	256.4	242.2	236.6	273.4	284.7	293.2	338.6	354.2
47.5°	206.8	209.7	213.9	198.3	195.5	219.6	239.4	247.9	287.6	304.6
50°	148.7	151.6	167.2	158.7	167.2	172.8	199.7	212.5	239.4	262.1
52.5°	107.7	110.5	114.7	116.2	137.4	140.2	160.1	179.9	192.7	218.2
55°	85.0	87.8	85.0	82.2	100.6	116.2	123.2	144.5	154.4	184.2
57.5°	48.2	51.0	55.2	63.7	66.6	89.2	96.3	114.7	123.2	151.6
60°	8.5	9.9	15.6	38.2	46.7	56.7	72.2	87.8	99.2	119.0
62.5°	1.4	1.4	2.8	8.5	26.9	39.7	52.4	62.3	72.2	90.7
65°	0.0	0.0	1.4	2.8	7.1	22.7	28.3	36.8	49.6	65.2
67.5°	0.0	0.0	1.4	2.8	4.2	8.5	12.7	22.7	28.3	43.9
70°	0.0	0.0	1.4	2.8	4.2	5.7	7.1	9.9	17.0	26.9
72.5°	0.0	0.0	1.4	2.8	4.2	5.7	7.1	8.5	8.5	17.0
75°	0.0	0.0	1.4	2.8	4.2	7.1	8.5	8.5	7.1	7.1
77.5°	0.0	0.0	1.4	2.8	5.7	8.5	9.9	8.5	5.7	5.7
80°	0.0	0.0	2.8	4.2	7.1	9.9	12.7	9.9	5.7	2.8
82.5°	0.0	0.0	2.8	5.7	7.1	11.3	15.6	12.7	5.7	2.8
85°	0.0	0.0	1.4	4.2	8.5	11.3	15.6	11.3	5.7	1.4
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	8.5	7.1	2.8	1.4
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°
44449.1	0°	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1	44449.1
43385.2	2.5°	43634.5	43861.2	43907.9	43845.6	43936.3	43773.3	43648.7	43325.7	43131.6
40634.0	5°	40896.1	40862.1	41098.7	41176.6	41166.7	41042.0	40867.8	40672.3	40482.4
36389.7	7.5°	36616.4	36660.3	36875.6	37013.0	36943.6	36787.8	36667.4	36520.0	36392.5
31774.2	10°	32064.7	31762.9	32030.7	32030.7	32216.2	31775.7	31816.7	31445.6	31462.6
26470.3	12.5°	26560.9	26670.0	26713.9	26840.0	26623.3	26389.5	26103.4	26046.7	25869.6
19783.6	15°	20068.4	20380.1	20112.3	20569.9	20348.9	20105.2	20061.3	19622.1	19761.0
14349.3	17.5°	14278.5	14622.8	14730.4	14992.5	14791.3	14646.8	14464.1	14330.9	14321.0
10045.5	20°	10124.9	10470.5	10549.9	10864.4	10841.7	10796.4	10641.9	10473.4	10290.6
6838.2	22.5°	6941.6	7223.5	7487.0	7910.6	7903.5	7770.4	7754.8	7516.8	7521.0
4619.7	25°	4667.9	4873.3	4935.6	5369.1	5417.3	5403.1	5322.4	5101.4	5185.0
2822.0	27.5°	2824.8	3004.7	3215.8	3368.8	3513.3	3490.6	3409.9	3286.6	3232.8
1695.7	30°	1741.1	1821.8	1899.7	2083.9	2170.3	2215.7	2177.4	2062.7	2071.2
1116.3	32.5°	1140.4	1208.4	1265.1	1381.2	1426.6	1510.2	1494.6	1470.5	1442.2
803.2	35°	831.6	881.2	919.4	973.2	1031.3	1102.2	1113.5	1103.6	1092.2
620.5	37.5°	634.7	685.7	729.6	752.2	797.6	852.8	884.0	882.6	874.1
505.7	40°	515.7	553.9	593.6	623.3	654.5	695.6	733.8	738.1	738.1
425.0	42.5°	430.7	463.2	502.9	534.1	556.7	595.0	634.7	637.5	634.7
359.8	45°	368.3	396.7	434.9	471.7	490.2	518.5	556.7	565.2	559.6
308.8	47.5°	320.2	345.7	378.2	417.9	437.7	463.2	498.7	508.6	507.2
266.3	50°	274.8	304.6	337.2	369.7	395.2	419.3	453.3	464.7	460.4
226.7	52.5°	242.2	269.2	297.5	332.9	362.7	383.9	410.8	430.7	425.0
191.2	55°	202.6	235.2	264.9	294.7	331.5	354.2	379.7	403.7	398.1
161.5	57.5°	175.7	202.6	236.6	263.5	300.3	327.2	352.7	378.2	376.8
131.7	60°	147.3	175.7	208.2	236.6	270.6	300.3	325.8	354.2	357.0
99.2	62.5°	116.2	150.2	178.5	211.1	245.1	277.7	300.3	328.7	332.9
75.1	65°	87.8	123.2	154.4	185.6	219.6	255.0	274.8	298.9	303.2
55.2	67.5°	65.2	94.9	131.7	160.1	195.5	229.5	247.9	267.7	274.8
34.0	70°	49.6	72.2	110.5	137.4	174.2	201.2	221.0	238.0	243.7
22.7	72.5°	31.2	56.7	89.2	117.6	150.2	174.2	188.4	198.3	206.8
12.7	75°	21.2	43.9	72.2	100.6	124.7	143.1	155.8	164.3	171.4
5.7	77.5°	12.7	34.0	59.5	83.6	99.2	113.3	126.1	131.7	136.0
4.2	80°	7.1	25.5	49.6	68.0	77.9	87.8	97.7	104.8	107.7
2.8	82.5°	4.2	19.8	39.7	52.4	56.7	66.6	76.5	80.7	80.7
1.4	85°	2.8	14.2	26.9	38.2	41.1	48.2	51.0	53.8	56.7
1.4	87.5°	2.8	8.5	17.0	21.2	22.7	25.5	26.9	29.7	32.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
44449.1  
42988.5  
40269.9  
35960.5  
31296.8  
25708.1  
19622.1  
14057.5  
10211.3  
7438.9  
5053.2  
3186.1  
2034.3  
1432.2  
1088.0  
869.8  
729.6  
631.8  
559.6  
504.3  
457.6  
423.6  
400.9  
378.2  
358.4  
335.7  
307.4  
277.7  
246.5  
205.4  
170.0  
134.6  
104.8  
79.3  
55.2  
31.2  
0.0

(END OF REPORT)