

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: P637321

Luminaire Tested: **IFLD-S-SA2E-730-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637321  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-730-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15895.9 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

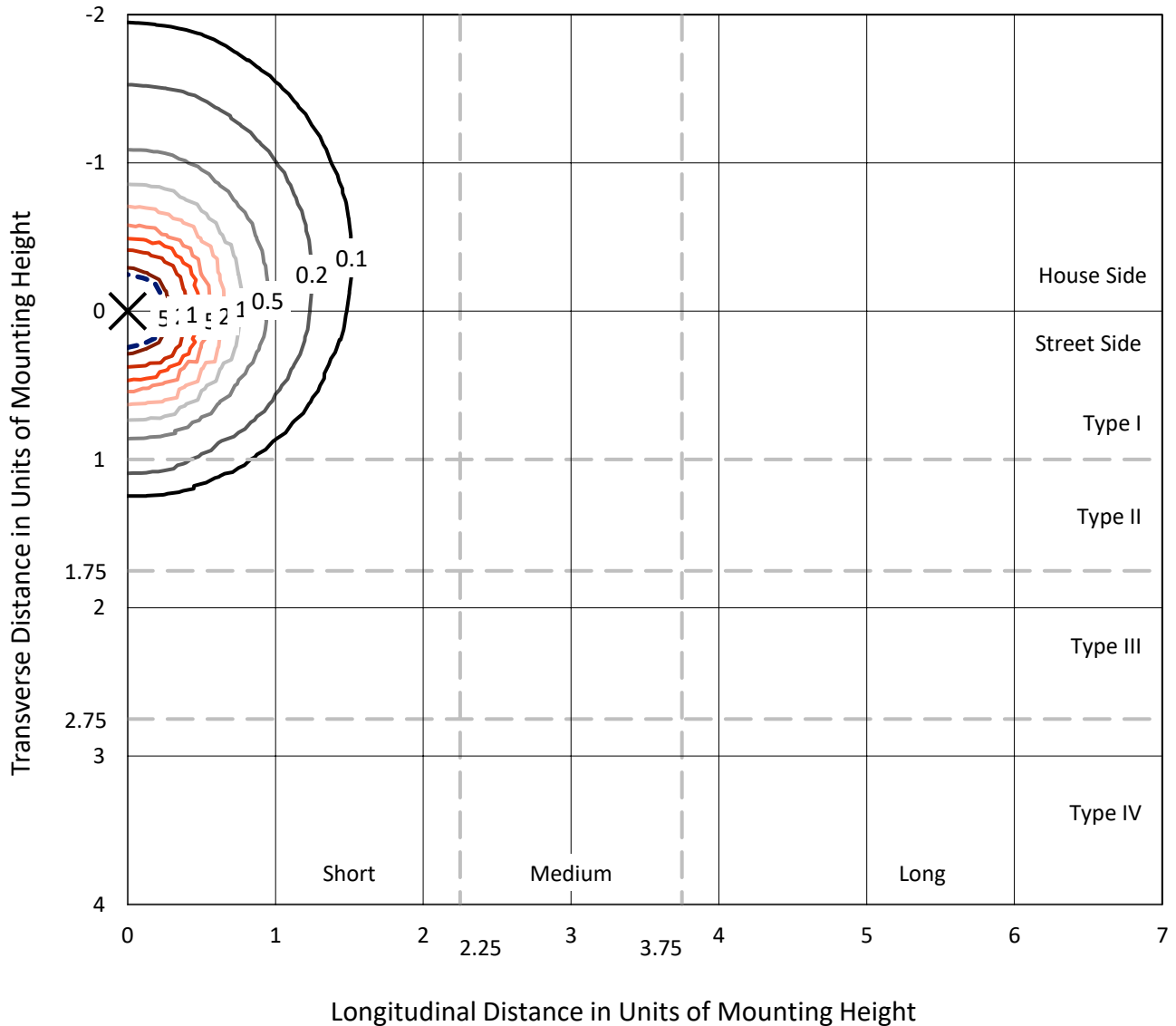
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

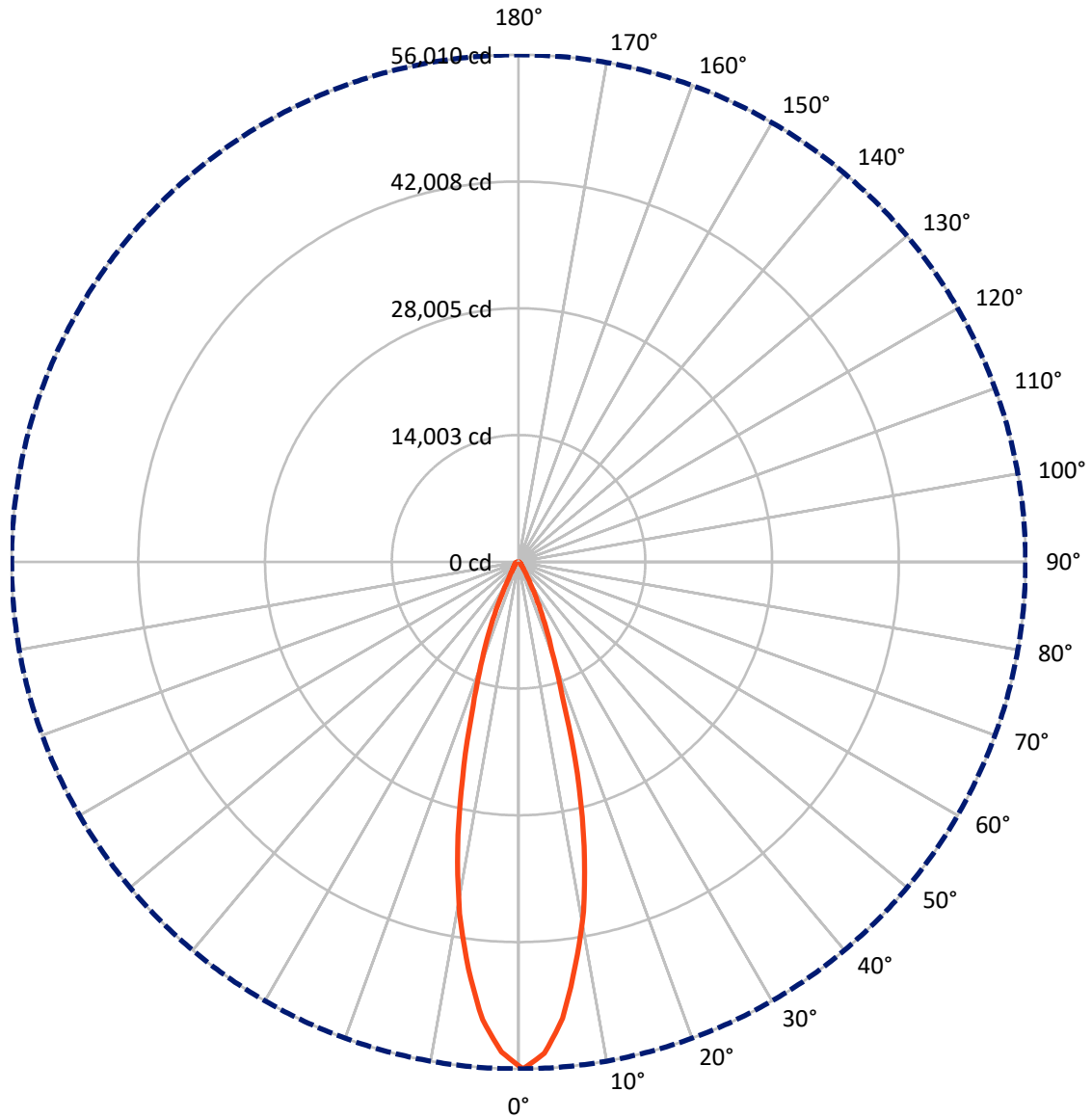
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 140 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	8381.4	0.0	8381.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	7514.5	0.0	7514.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	15895.9	0.0	15895.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4520.5	28.4
10°-20°	6846.3	43.1
20°-30°	2889.2	18.2
30°-40°	753.5	4.7
40°-50°	381.1	2.4
50°-60°	249.1	1.6
60°-70°	149.3	0.9
70°-80°	78.5	0.5
80°-90°	28.4	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°	15895.9	100.0
0°-180°	15895.9	100.0

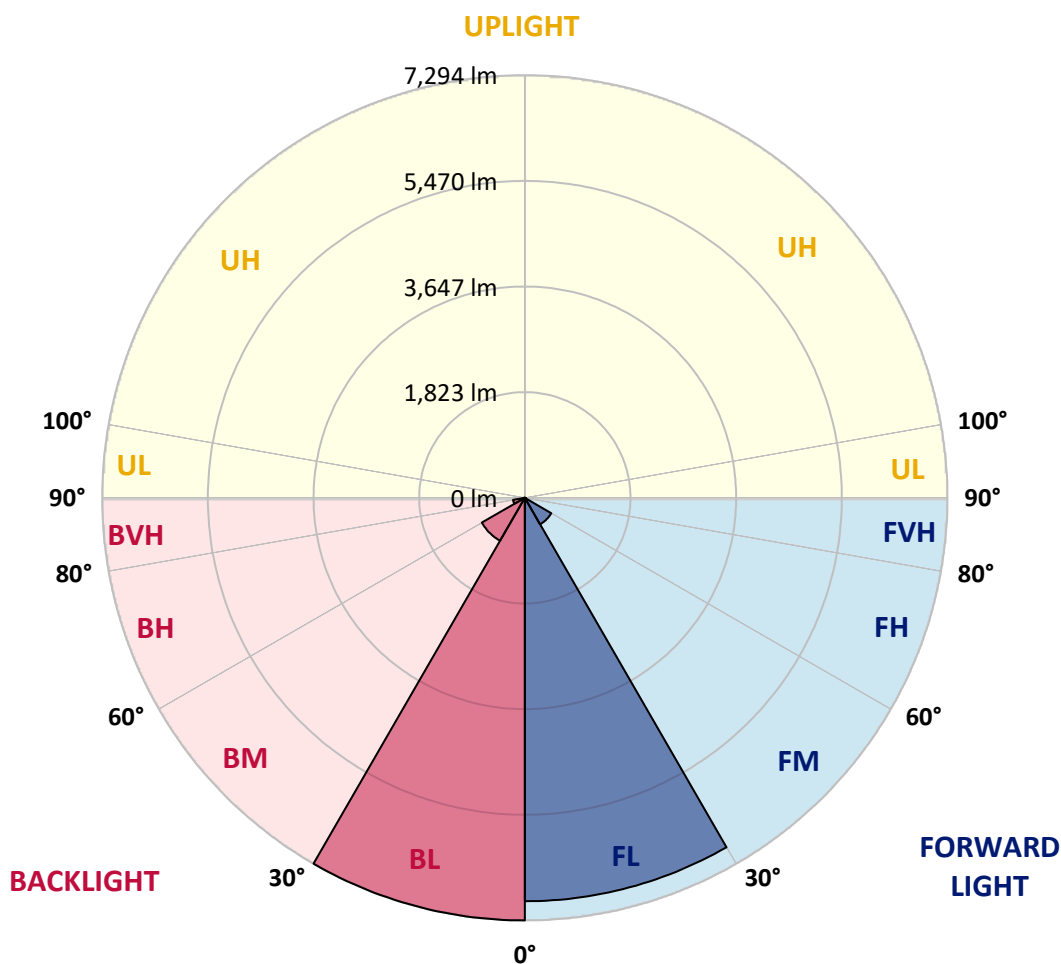


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6962.3	43.8			
FM (30°-60°)	527.3	3.3			
FH (60°-80°)	21.5	0.1			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	7293.7	45.9	B5		
BM (30°-60°)	856.5	5.4	B1/1000		
BH (60°-80°)	206.3	1.3	B1/500		G0/660
BVH (80°-90°)	24.9	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°	56010.3	56010.3	56010.3	56010.3	56010.3	56010.3	56010.3	56010.3	56010.3	56010.3
2.5°	54378.7	54409.1	54296.6	54539.4	54350.2	54857.1	54605.4	54998.2	54866.1	55085.6
5°	50665.7	50615.7	50583.5	50960.2	50851.3	51395.8	51047.7	50933.4	51286.9	51222.6
7.5°	45058.5	45190.6	45115.7	45213.9	45269.2	45890.4	46086.8	45933.3	45938.6	46027.9
10°	39310.4	39115.8	38839.1	39023.0	39412.2	39683.5	39574.6	39799.5	39749.6	39962.0
12.5°	32237.7	32391.2	32235.9	32071.7	32751.8	32676.9	32866.1	32989.3	32680.4	33367.7
15°	24283.2	24363.5	24552.7	24540.2	25063.3	25168.6	25143.6	25273.9	25032.9	25147.2
17.5°	15600.3	15871.6	16380.4	17240.8	18208.4	18320.8	18292.3	18185.2	18069.1	17940.6
20°	10478.7	10450.2	10634.0	10885.7	12888.7	13418.8	13402.8	13067.2	12581.6	12488.8
22.5°	7340.5	7394.0	7369.0	7618.9	8033.1	9495.1	9314.8	8973.9	8815.0	8711.4
25°	4828.8	4809.1	4934.1	5009.1	5364.3	5542.8	6174.8	6048.0	5803.5	5830.2
27.5°	2943.7	2968.7	3015.1	3079.4	3331.1	3273.9	3634.5	3682.7	3604.2	3520.3
30°	1806.6	1824.4	1861.9	1908.3	1995.8	1933.3	2033.3	2206.4	2177.9	2119.0
32.5°	1226.4	1228.2	1254.9	1272.8	1262.1	1203.2	1235.3	1399.5	1403.1	1397.8
35°	881.9	881.9	906.8	921.1	890.8	842.6	847.9	949.7	994.3	1003.2
37.5°	608.7	610.5	653.4	696.2	662.3	649.8	628.4	696.2	767.6	778.3
40°	462.3	460.6	482.0	514.1	517.7	494.5	501.6	544.5	617.7	626.6
42.5°	374.9	376.7	387.4	383.8	385.6	415.9	426.6	446.3	514.1	530.2
45°	316.0	317.8	323.1	305.3	298.1	344.5	358.8	369.5	426.6	446.3
47.5°	260.6	264.2	269.6	249.9	246.3	276.7	301.7	312.4	362.4	383.8
50°	187.4	191.0	210.6	199.9	210.6	217.8	251.7	267.8	301.7	330.2
52.5°	135.7	139.2	144.6	146.4	173.2	176.7	201.7	226.7	242.8	274.9
55°	107.1	110.7	107.1	103.5	126.7	146.4	155.3	182.1	194.6	232.1
57.5°	60.7	64.3	69.6	80.3	83.9	112.5	121.4	144.6	155.3	191.0
60°	10.7	12.5	19.6	48.2	58.9	71.4	91.0	110.7	125.0	150.0
62.5°	1.8	1.8	3.6	10.7	33.9	50.0	66.0	78.5	91.0	114.2
65°	0.0	0.0	1.8	3.6	8.9	28.6	35.7	46.4	62.5	82.1
67.5°	0.0	0.0	1.8	3.6	5.4	10.7	16.1	28.6	35.7	55.3
70°	0.0	0.0	1.8	3.6	5.4	7.1	8.9	12.5	21.4	33.9
72.5°	0.0	0.0	1.8	3.6	5.4	7.1	8.9	10.7	10.7	21.4
75°	0.0	0.0	1.8	3.6	5.4	8.9	10.7	10.7	8.9	8.9
77.5°	0.0	0.0	1.8	3.6	7.1	10.7	12.5	10.7	7.1	7.1
80°	0.0	0.0	3.6	5.4	8.9	12.5	16.1	12.5	7.1	3.6
82.5°	0.0	0.0	3.6	7.1	8.9	14.3	19.6	16.1	7.1	3.6
85°	0.0	0.0	1.8	5.4	10.7	14.3	19.6	14.3	7.1	1.8
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	10.7	8.9	3.6	1.8
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°
<b>56010.3</b>	0°	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>	<b>56010.3</b>
54669.7	2.5°	54983.9	55269.5	55328.4	55249.9	55364.1	55158.8	55001.7	54594.7	54350.2
51203.0	5°	51533.2	51490.4	51788.5	51886.7	51874.2	51717.1	51497.5	51251.2	51012.0
45854.7	7.5°	46140.3	46195.7	46467.0	46640.2	46552.7	46356.3	46204.6	46018.9	45858.3
40038.8	10°	40404.7	40024.5	40361.9	40361.9	40595.7	40040.5	40092.3	39624.6	39646.0
33355.2	12.5°	33469.5	33606.9	33662.3	33821.1	33548.0	33253.5	32892.9	32821.5	32598.3
24929.4	15°	25288.2	25680.9	25343.5	25920.1	25641.7	25334.6	25279.3	24725.9	24900.8
18081.6	17.5°	17992.4	18426.1	18561.8	18892.1	18638.6	18456.5	18226.2	18058.4	18045.9
12658.4	20°	12758.3	13193.9	13293.9	13690.2	13661.6	13604.5	13409.9	13197.5	12967.2
8616.8	22.5°	8747.2	9102.4	9434.4	9968.2	9959.3	9791.5	9771.8	9471.9	9477.3
5821.3	25°	5882.0	6140.9	6219.4	6765.7	6826.3	6808.5	6706.7	6428.3	6533.6
3556.0	27.5°	3559.6	3786.3	4052.3	4245.0	4427.1	4398.6	4296.8	4141.5	4073.7
2136.8	30°	2193.9	2295.7	2393.9	2625.9	2734.8	2791.9	2743.7	2599.2	2609.9
1406.7	32.5°	1437.0	1522.7	1594.1	1740.5	1797.6	1903.0	1883.3	1853.0	1817.3
1012.2	35°	1047.9	1110.4	1158.6	1226.4	1299.6	1388.8	1403.1	1390.6	1376.3
781.9	37.5°	799.7	864.0	919.3	947.9	1005.0	1074.7	1113.9	1112.1	1101.4
637.3	40°	649.8	698.0	748.0	785.5	824.7	876.5	924.7	930.1	930.1
535.5	42.5°	542.7	583.7	633.7	673.0	701.6	749.8	799.7	803.3	799.7
453.4	45°	464.1	499.8	548.0	594.4	617.7	653.4	701.6	712.3	705.1
389.2	47.5°	403.4	435.6	476.6	526.6	551.6	583.7	628.4	640.9	639.1
335.6	50°	346.3	383.8	424.9	465.9	498.1	528.4	571.2	585.5	580.2
285.6	52.5°	305.3	339.2	374.9	419.5	457.0	483.8	517.7	542.7	535.5
241.0	55°	255.3	296.3	333.8	371.3	417.7	446.3	478.4	508.8	501.6
203.5	57.5°	221.4	255.3	298.1	332.0	378.4	412.4	444.5	476.6	474.8
166.0	60°	185.7	221.4	262.4	298.1	341.0	378.4	410.6	446.3	449.9
125.0	62.5°	146.4	189.2	224.9	266.0	308.8	349.9	378.4	414.2	419.5
94.6	65°	110.7	155.3	194.6	233.9	276.7	321.3	346.3	376.7	382.0
69.6	67.5°	82.1	119.6	166.0	201.7	246.3	289.2	312.4	337.4	346.3
42.8	70°	62.5	91.0	139.2	173.2	219.6	253.5	278.5	299.9	307.0
28.6	72.5°	39.3	71.4	112.5	148.2	189.2	219.6	237.4	249.9	260.6
16.1	75°	26.8	55.3	91.0	126.7	157.1	180.3	196.4	207.1	216.0
7.1	77.5°	16.1	42.8	75.0	105.3	125.0	142.8	158.9	166.0	171.4
5.4	80°	8.9	32.1	62.5	85.7	98.2	110.7	123.2	132.1	135.7
3.6	82.5°	5.4	25.0	50.0	66.0	71.4	83.9	96.4	101.8	101.8
1.8	85°	3.6	17.9	33.9	48.2	51.8	60.7	64.3	67.8	71.4
1.8	87.5°	3.6	10.7	21.4	26.8	28.6	32.1	33.9	37.5	41.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>56010.3</u>
54169.9
50744.2
45313.8
39437.2
32394.8
24725.9
17713.9
12867.2
9373.7
6367.6
4014.8
2563.5
1804.8
1371.0
1096.1
919.3
796.2
705.1
635.5
576.6
533.8
505.2
476.6
451.6
423.1
387.4
349.9
310.6
258.8
214.2
169.6
132.1
100.0
69.6
39.3
0.0

(END OF REPORT)