

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: P637499

Luminaire Tested: **IFLD-S-SA3D-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17862 lumens
Efficiency: N/A
Efficacy: 97.0 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

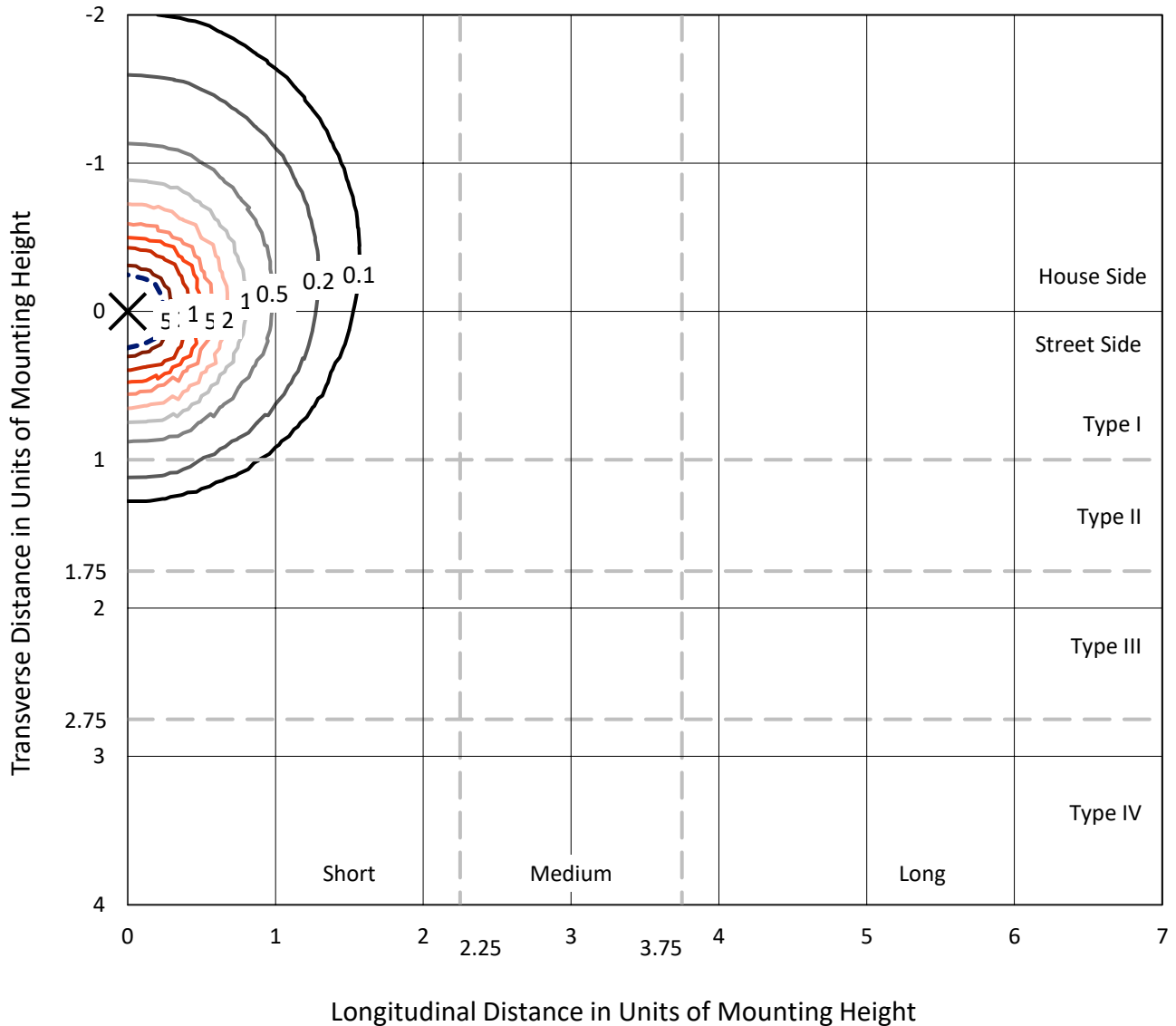
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

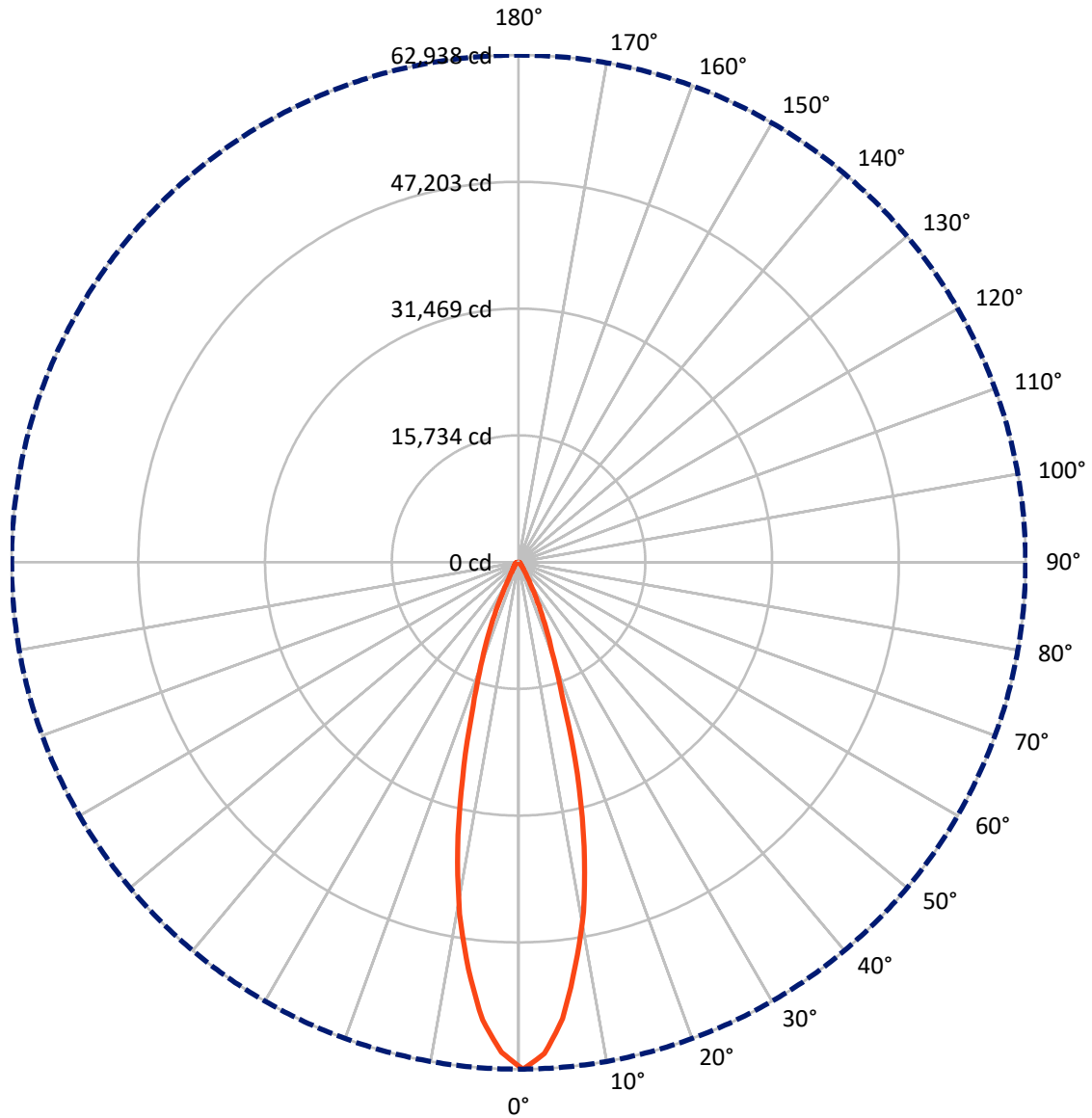
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 157.3 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
House Side	Lumens	9418.0	0.0	9418.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8443.9	0.0	8443.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	17862.0	0.0	17862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5079.7	28.4
10°-20°	7693.1	43.1
20°-30°	3246.5	18.2
30°-40°	846.7	4.7
40°-50°	428.3	2.4
50°-60°	279.9	1.6
60°-70°	167.7	0.9
70°-80°	88.2	0.5
80°-90°	31.9	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°	17862.0	100.0
0°-180°	17862.0	100.0



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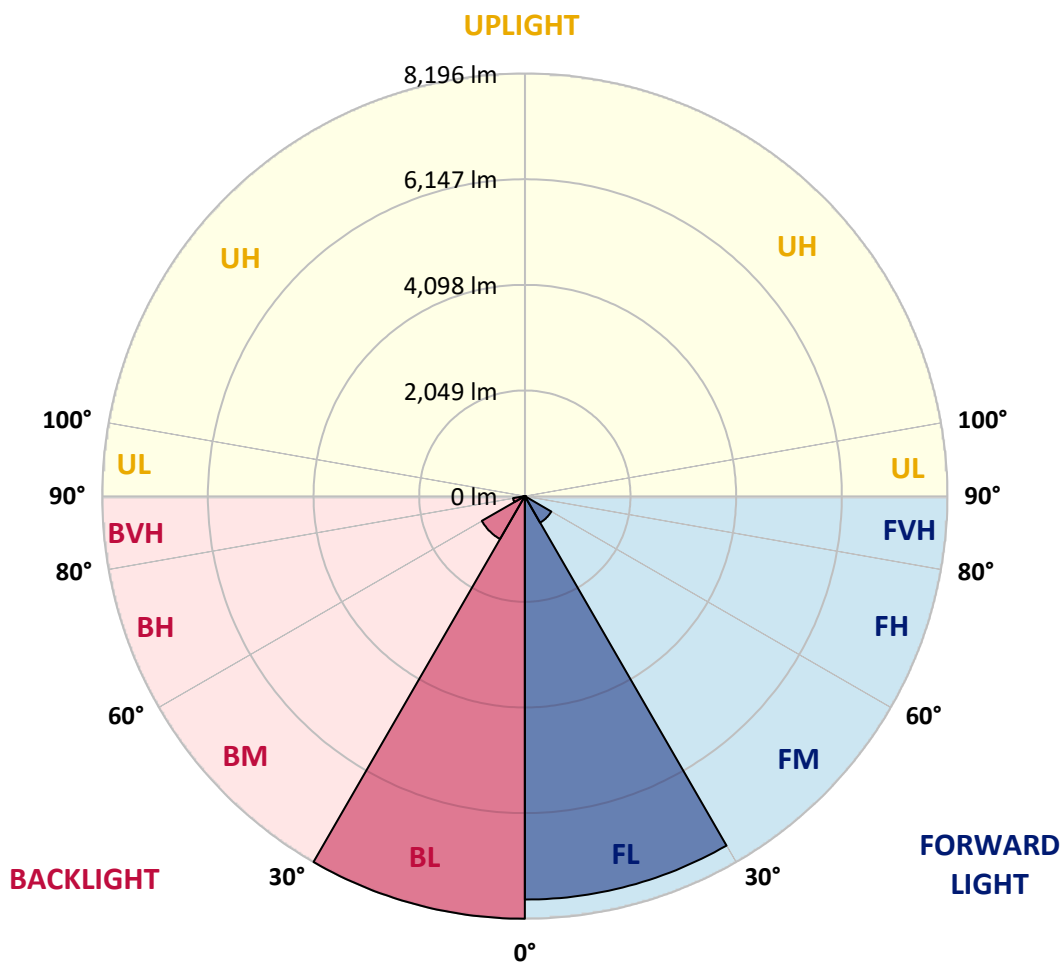
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7823.4	43.8			
FM (30°-60°)	592.5	3.3			
FH (60°-80°)	24.1	0.1			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	8195.8	45.9	B5		
BM (30°-60°)	962.4	5.4	B1/1000		
BH (60°-80°)	231.8	1.3	B1/500		G0/660
BVH (80°-90°)	28.0	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°	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9
2.5°	61104.5	61138.6	61012.2	61285.0	61072.4	61642.1	61359.2	61800.5	61652.1	61898.8
5°	56932.2	56876.0	56839.9	57263.1	57140.8	57752.6	57361.4	57233.1	57630.2	57558.0
7.5°	50631.6	50780.0	50695.7	50806.1	50868.3	51566.3	51787.0	51614.5	51620.5	51720.8
10°	44172.5	43953.8	43642.9	43849.5	44286.8	44591.7	44469.4	44722.1	44665.9	44904.6
12.5°	36225.0	36397.5	36223.0	36038.5	36802.7	36718.5	36931.1	37069.5	36722.5	37494.8
15°	27286.6	27376.9	27589.5	27575.5	28163.2	28281.5	28253.5	28399.9	28129.1	28257.5
17.5°	17529.8	17834.7	18406.4	19373.2	20460.4	20586.8	20554.7	20434.4	20304.0	20159.5
20°	11774.8	11742.7	11949.3	12232.1	14482.8	15078.5	15060.5	14683.4	14137.8	14033.5
22.5°	8248.4	8308.5	8280.5	8561.3	9026.7	10669.5	10466.9	10083.8	9905.3	9788.9
25°	5426.0	5404.0	5544.4	5628.6	6027.8	6228.4	6938.5	6796.1	6521.3	6551.4
27.5°	3307.8	3335.9	3388.0	3460.2	3743.1	3678.9	4084.1	4138.2	4050.0	3955.7
30°	2030.0	2050.1	2092.2	2144.3	2242.6	2172.4	2284.7	2479.3	2447.2	2381.0
32.5°	1378.1	1380.1	1410.2	1430.2	1418.2	1352.0	1388.1	1572.6	1576.7	1570.6
35°	990.9	990.9	1019.0	1035.1	1001.0	946.8	952.8	1067.2	1117.3	1127.3
37.5°	684.0	686.0	734.2	782.3	744.2	730.2	706.1	782.3	862.5	874.6
40°	519.5	517.5	541.6	577.7	581.7	555.6	563.7	611.8	694.1	704.1
42.5°	421.2	423.3	435.3	431.3	433.3	467.4	479.4	501.5	577.7	595.8
45°	355.0	357.1	363.1	343.0	335.0	387.1	403.2	415.2	479.4	501.5
47.5°	292.9	296.9	302.9	280.8	276.8	310.9	339.0	351.0	407.2	431.3
50°	210.6	214.6	236.7	224.7	236.7	244.7	282.8	300.9	339.0	371.1
52.5°	152.5	156.5	162.5	164.5	194.6	198.6	226.7	254.8	272.8	308.9
55°	120.4	124.4	120.4	116.3	142.4	164.5	174.5	204.6	218.6	260.8
57.5°	68.2	72.2	78.2	90.3	94.3	126.4	136.4	162.5	174.5	214.6
60°	12.0	14.0	22.1	54.2	66.2	80.2	102.3	124.4	140.4	168.5
62.5°	2.0	2.0	4.0	12.0	38.1	56.2	74.2	88.3	102.3	128.4
65°	0.0	0.0	2.0	4.0	10.0	32.1	40.1	52.2	70.2	92.3
67.5°	0.0	0.0	2.0	4.0	6.0	12.0	18.1	32.1	40.1	62.2
70°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	14.0	24.1	38.1
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	12.0	12.0	24.1
75°	0.0	0.0	2.0	4.0	6.0	10.0	12.0	12.0	10.0	10.0
77.5°	0.0	0.0	2.0	4.0	8.0	12.0	14.0	12.0	8.0	8.0
80°	0.0	0.0	4.0	6.0	10.0	14.0	18.1	14.0	8.0	4.0
82.5°	0.0	0.0	4.0	8.0	10.0	16.0	22.1	18.1	8.0	4.0
85°	0.0	0.0	2.0	6.0	12.0	16.0	22.1	16.0	8.0	2.0
87.5°	0.0	0.0	2.0	2.0	4.0	6.0	12.0	10.0	4.0	2.0
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°
62937.9	0°	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9	62937.9
61431.5	2.5°	61784.5	62105.4	62171.6	62083.4	62211.8	61981.1	61804.6	61347.2	61072.4
57536.0	5°	57907.0	57858.9	58193.9	58304.2	58290.2	58113.7	57866.9	57590.1	57321.3
51526.2	7.5°	51847.1	51909.3	52214.2	52408.8	52310.5	52089.9	51919.4	51710.7	51530.2
44990.9	10°	45402.1	44974.8	45354.0	45354.0	45616.7	44992.9	45051.1	44525.5	44549.6
37480.7	12.5°	37609.1	37763.5	37825.7	38004.3	37697.4	37366.4	36961.2	36880.9	36630.2
28012.7	15°	28415.9	28857.2	28478.1	29126.0	28813.1	28468.1	28405.9	27784.1	27980.6
20318.0	17.5°	20217.7	20705.2	20857.6	21228.7	20943.9	20739.3	20480.5	20291.9	20277.9
14224.0	20°	14336.3	14825.8	14938.1	15383.4	15351.3	15287.2	15068.5	14829.8	14571.0
9682.6	22.5°	9829.0	10228.2	10601.3	11201.1	11191.1	11002.5	10980.4	10643.4	10649.5
6541.3	25°	6609.5	6900.4	6988.6	7602.5	7670.7	7650.6	7536.3	7223.3	7341.7
3995.8	27.5°	3999.8	4254.6	4553.5	4770.1	4974.7	4942.6	4828.3	4653.7	4577.5
2401.1	30°	2465.3	2579.6	2689.9	2950.7	3073.1	3137.3	3083.1	2920.6	2932.7
1580.7	32.5°	1614.8	1711.1	1791.3	1955.8	2020.0	2138.3	2116.3	2082.2	2042.0
1137.4	35°	1177.5	1247.7	1301.8	1378.1	1460.3	1560.6	1576.7	1562.6	1546.6
878.6	37.5°	898.7	970.9	1033.1	1065.1	1129.3	1207.6	1251.7	1249.7	1237.7
716.1	40°	730.2	784.3	840.5	882.6	926.7	984.9	1039.1	1045.1	1045.1
601.8	42.5°	609.8	655.9	712.1	756.2	788.3	842.5	898.7	902.7	898.7
509.5	45°	521.5	561.7	615.8	668.0	694.1	734.2	788.3	800.4	792.3
437.3	47.5°	453.3	489.4	535.6	591.7	619.8	655.9	706.1	720.1	718.1
377.1	50°	389.1	431.3	477.4	523.5	559.7	593.8	641.9	657.9	651.9
320.9	52.5°	343.0	381.1	421.2	471.4	513.5	543.6	581.7	609.8	601.8
270.8	55°	286.8	333.0	375.1	417.2	469.4	501.5	537.6	571.7	563.7
228.7	57.5°	248.7	286.8	335.0	373.1	425.3	463.4	499.5	535.6	533.6
186.6	60°	208.6	248.7	294.9	335.0	383.1	425.3	461.4	501.5	505.5
140.4	62.5°	164.5	212.6	252.7	298.9	347.0	393.2	425.3	465.4	471.4
106.3	65°	124.4	174.5	218.6	262.8	310.9	361.1	389.1	423.3	429.3
78.2	67.5°	92.3	134.4	186.6	226.7	276.8	325.0	351.0	379.1	389.1
48.1	70°	70.2	102.3	156.5	194.6	246.7	284.8	312.9	337.0	345.0
32.1	72.5°	44.1	80.2	126.4	166.5	212.6	246.7	266.8	280.8	292.9
18.1	75°	30.1	62.2	102.3	142.4	176.5	202.6	220.7	232.7	242.7
8.0	77.5°	18.1	48.1	84.2	118.3	140.4	160.5	178.5	186.6	192.6
6.0	80°	10.0	36.1	70.2	96.3	110.3	124.4	138.4	148.4	152.5
4.0	82.5°	6.0	28.1	56.2	74.2	80.2	94.3	108.3	114.3	114.3
2.0	85°	4.0	20.1	38.1	54.2	58.2	68.2	72.2	76.2	80.2
2.0	87.5°	4.0	12.0	24.1	30.1	32.1	36.1	38.1	42.1	46.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
62937.9
60869.8
57020.4
50918.4
44314.9
36401.5
27784.1
19904.8
14458.7
10533.1
7155.1
4511.3
2880.5
2028.0
1540.6
1231.6
1033.1
894.6
792.3
714.1
647.9
599.8
567.7
535.6
507.5
475.4
435.3
393.2
349.0
290.9
240.7
190.6
148.4
112.3
78.2
44.1
0.0

(END OF REPORT)