

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: P637379

Luminaire Tested: **IFLD-S-SA2E-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637379
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17456.5 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

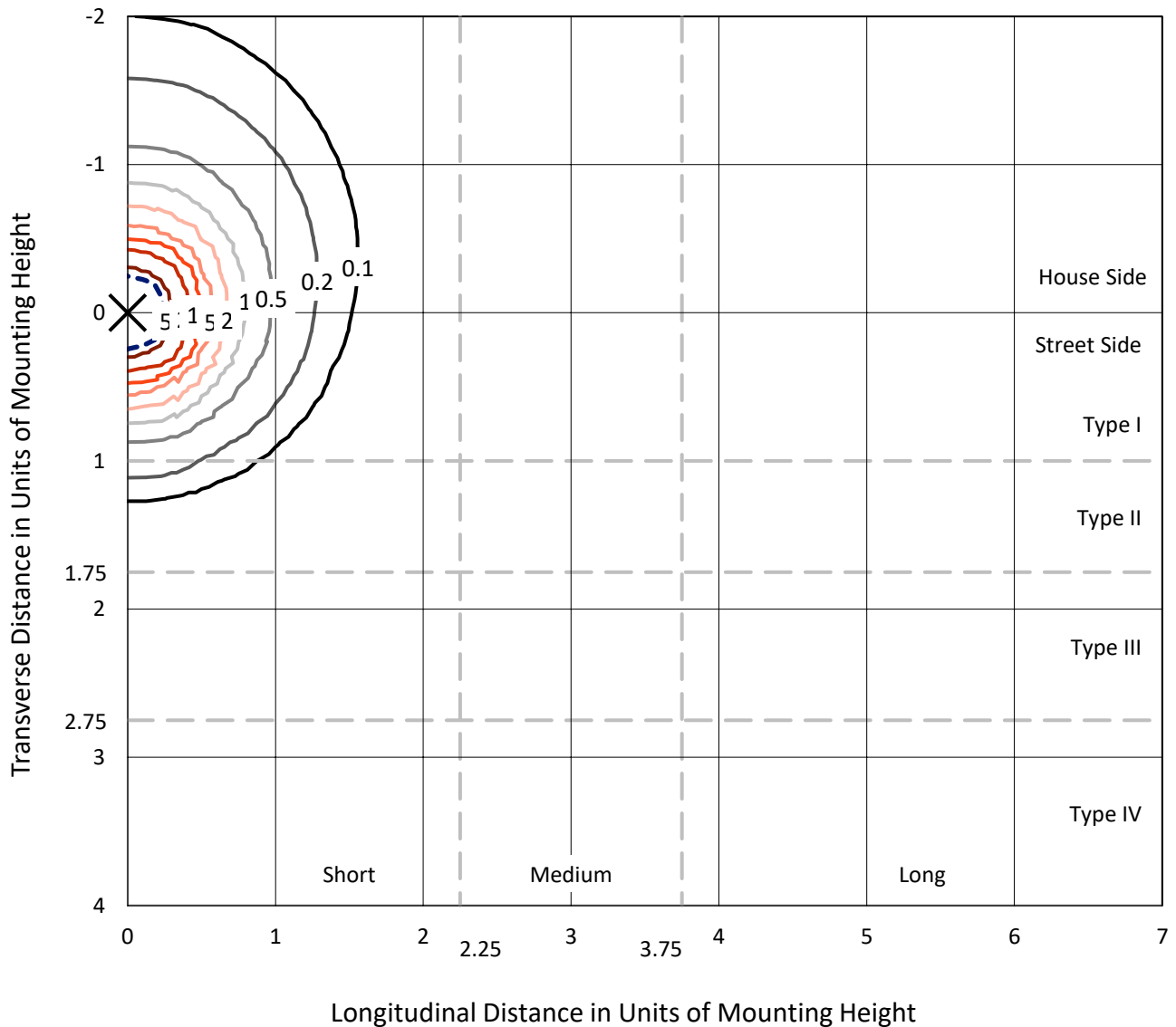
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

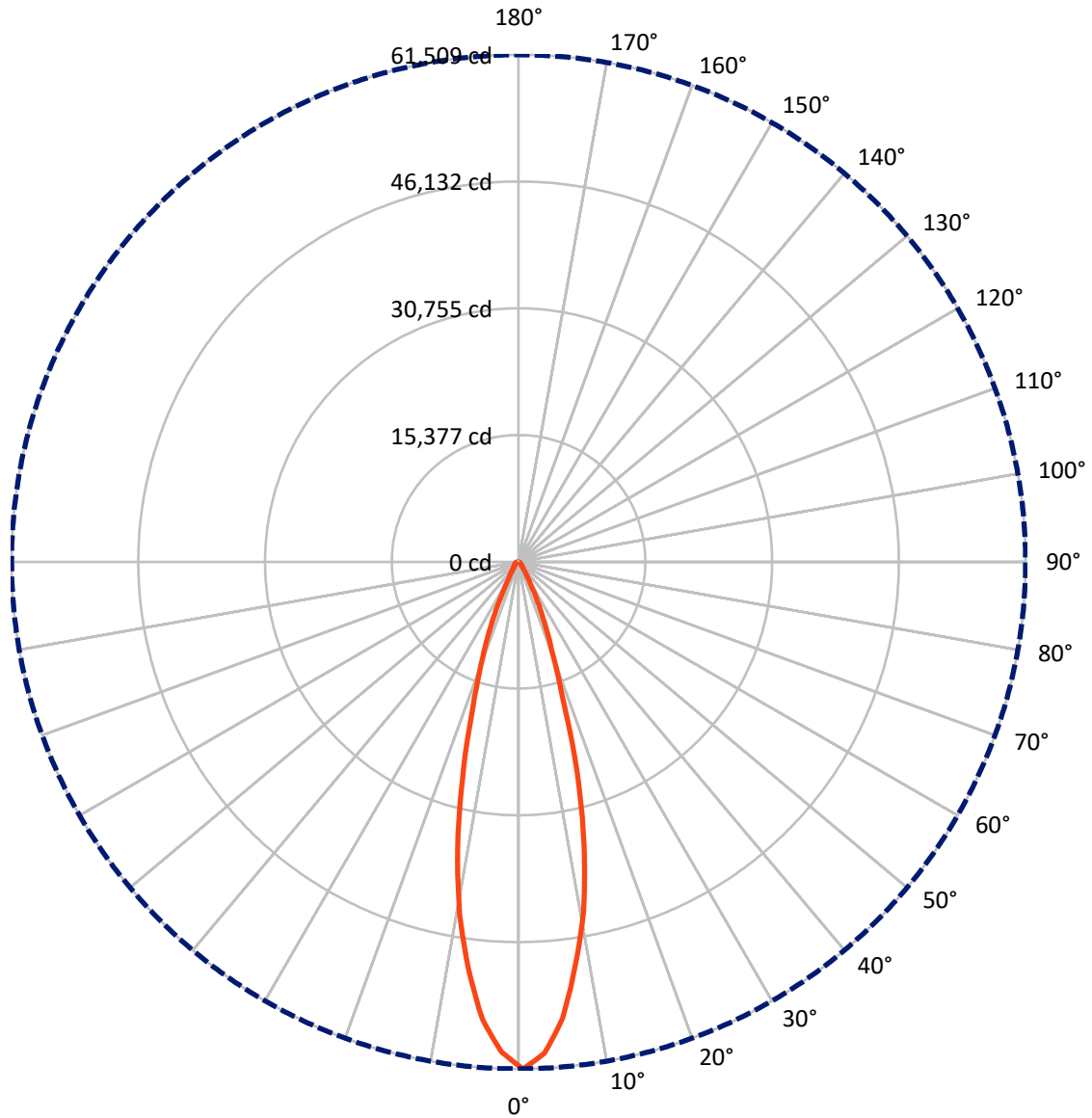
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 153.8 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	9204.3	0.0	9204.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	8252.3	0.0	8252.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	17456.5	0.0	17456.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4964.3	28.4
10°-20°	7518.5	43.1
20°-30°	3172.8	18.2
30°-40°	827.5	4.7
40°-50°	418.5	2.4
50°-60°	273.6	1.6
60°-70°	163.9	0.9
70°-80°	86.2	0.5
80°-90°	31.1	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°	17456.5	100.0
0°-180°	17456.5	100.0

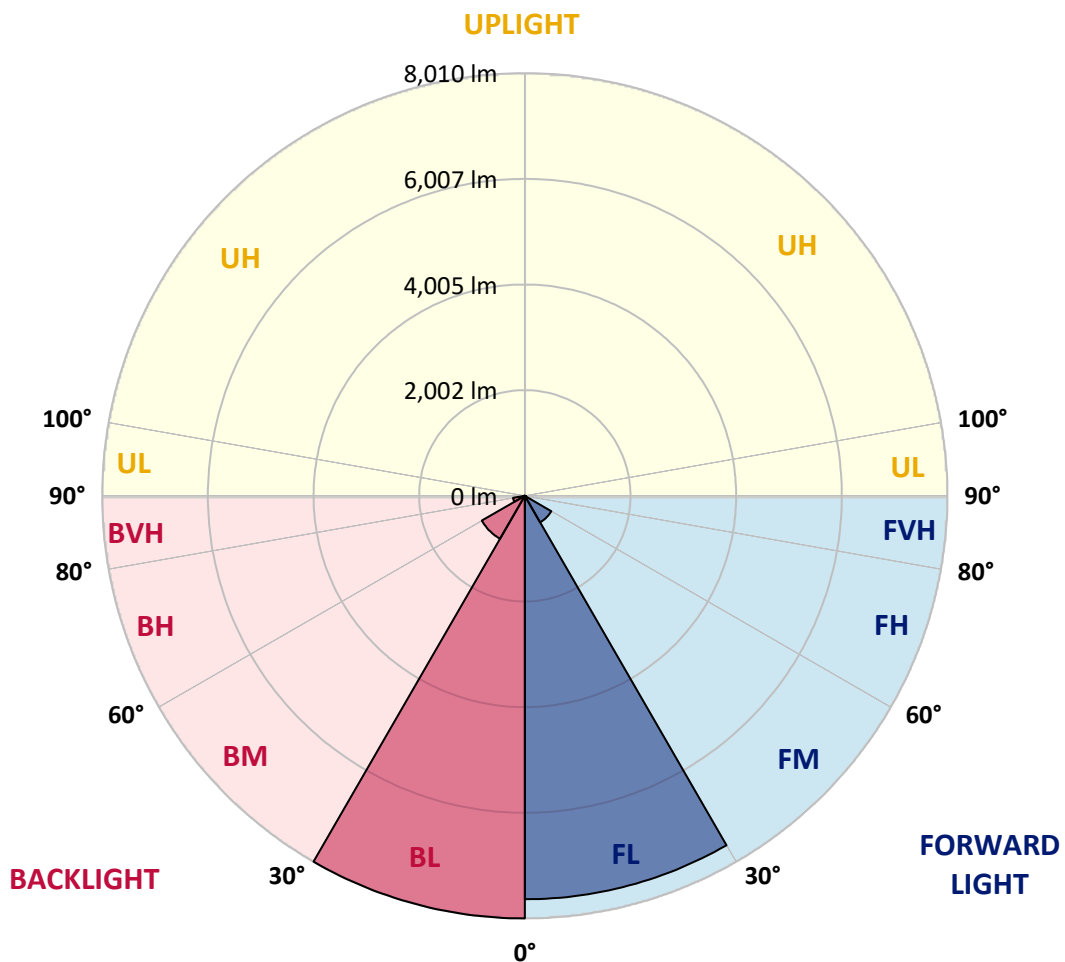


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7645.8	43.8			
FM (30°-60°)	579.0	3.3			
FH (60°-80°)	23.6	0.1			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	8009.8	45.9	B5		
BM (30°-60°)	940.6	5.4	B1/1000		
BH (60°-80°)	226.5	1.3	B1/500		G0/660
BVH (80°-90°)	27.4	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°	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3
2.5°	59717.5	59750.8	59627.3	59893.9	59686.1	60242.9	59966.4	60397.7	60252.7	60493.8
5°	55639.9	55585.0	55549.7	55963.3	55843.7	56441.7	56059.4	55933.9	56322.1	56251.5
7.5°	49482.3	49627.3	49545.0	49652.8	49713.6	50395.8	50611.4	50442.9	50448.7	50546.8
10°	43169.8	42956.1	42652.3	42854.2	43281.5	43579.5	43459.9	43706.9	43652.1	43885.3
12.5°	35402.7	35571.3	35400.8	35220.4	35967.3	35885.0	36092.8	36228.0	35888.9	36643.7
15°	26667.2	26755.4	26963.2	26949.5	27523.9	27639.6	27612.1	27755.2	27490.6	27616.0
17.5°	17131.9	17429.8	17988.6	18933.5	19996.0	20119.5	20088.1	19970.5	19843.1	19701.9
20°	11507.5	11476.1	11678.1	11954.5	14154.0	14736.3	14718.6	14350.1	13816.8	13714.9
22.5°	8061.1	8119.9	8092.5	8367.0	8821.8	10427.3	10229.3	9854.9	9680.4	9566.7
25°	5302.9	5281.3	5418.5	5500.9	5891.0	6087.0	6781.0	6641.8	6373.2	6402.6
27.5°	3232.7	3260.1	3311.1	3381.7	3658.1	3595.4	3991.4	4044.3	3958.0	3865.9
30°	1983.9	2003.5	2044.7	2095.7	2191.7	2123.1	2232.9	2423.0	2391.7	2327.0
32.5°	1346.8	1348.7	1378.2	1397.8	1386.0	1321.3	1356.6	1536.9	1540.9	1535.0
35°	968.4	968.4	995.9	1011.6	978.2	925.3	931.2	1042.9	1091.9	1101.7
37.5°	668.5	670.5	717.5	764.6	727.3	713.6	690.1	764.6	843.0	854.7
40°	507.7	505.8	529.3	564.6	568.5	543.0	550.9	597.9	678.3	688.1
42.5°	411.7	413.6	425.4	421.5	423.4	456.8	468.5	490.1	564.6	582.2
45°	347.0	348.9	354.8	335.2	327.4	378.4	394.0	405.8	468.5	490.1
47.5°	286.2	290.1	296.0	274.5	270.5	303.9	331.3	343.1	398.0	421.5
50°	205.8	209.8	231.3	219.6	231.3	239.2	276.4	294.1	331.3	362.7
52.5°	149.0	152.9	158.8	160.8	190.2	194.1	221.5	249.0	266.6	301.9
55°	117.6	121.5	117.6	113.7	139.2	160.8	170.6	200.0	213.7	254.9
57.5°	66.7	70.6	76.5	88.2	92.1	123.5	133.3	158.8	170.6	209.8
60°	11.8	13.7	21.6	52.9	64.7	78.4	100.0	121.5	137.2	164.7
62.5°	2.0	2.0	3.9	11.8	37.2	54.9	72.5	86.3	100.0	125.5
65°	0.0	0.0	2.0	3.9	9.8	31.4	39.2	51.0	68.6	90.2
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	17.6	31.4	39.2	60.8
70°	0.0	0.0	2.0	3.9	5.9	7.8	9.8	13.7	23.5	37.2
72.5°	0.0	0.0	2.0	3.9	5.9	7.8	9.8	11.8	11.8	23.5
75°	0.0	0.0	2.0	3.9	5.9	9.8	11.8	11.8	9.8	9.8
77.5°	0.0	0.0	2.0	3.9	7.8	11.8	13.7	11.8	7.8	7.8
80°	0.0	0.0	3.9	5.9	9.8	13.7	17.6	13.7	7.8	3.9
82.5°	0.0	0.0	3.9	7.8	9.8	15.7	21.6	17.6	7.8	3.9
85°	0.0	0.0	2.0	5.9	11.8	15.7	21.6	15.7	7.8	2.0
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	11.8	9.8	3.9	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°
61509.3	0°	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3	61509.3
60037.0	2.5°	60382.0	60695.7	60760.4	60674.1	60799.6	60574.2	60401.6	59954.7	59686.1
56229.9	5°	56592.6	56545.6	56872.9	56980.8	56967.0	56794.5	56553.4	56282.9	56020.2
50356.6	7.5°	50670.3	50731.0	51029.0	51219.2	51123.1	50907.5	50740.8	50537.0	50360.5
43969.6	10°	44371.5	43954.0	44324.5	44324.5	44581.3	43971.6	44028.4	43514.8	43538.4
36629.9	12.5°	36755.4	36906.3	36967.1	37141.6	36841.7	36518.2	36122.2	36043.8	35798.7
27376.9	15°	27770.9	28202.2	27831.7	28464.9	28159.1	27821.9	27761.1	27153.4	27345.5
19856.8	17.5°	19758.8	20235.2	20384.2	20746.8	20468.5	20268.5	20015.6	19831.3	19817.6
13901.1	20°	14010.9	14489.3	14599.0	15034.2	15002.9	14940.1	14726.5	14493.2	14240.3
9462.8	22.5°	9605.9	9996.0	10360.7	10946.8	10937.0	10752.8	10731.2	10401.8	10407.7
6392.8	25°	6459.5	6743.7	6830.0	7429.9	7496.5	7476.9	7365.2	7059.4	7175.0
3905.1	27.5°	3909.0	4158.0	4450.1	4661.8	4861.8	4830.4	4718.7	4548.1	4473.6
2346.6	30°	2409.3	2521.1	2628.9	2883.7	3003.3	3066.1	3013.1	2854.3	2866.1
1544.8	32.5°	1578.1	1672.2	1750.6	1911.4	1974.1	2089.8	2068.2	2034.9	1995.7
1111.5	35°	1150.8	1219.4	1272.3	1346.8	1427.2	1525.2	1540.9	1527.1	1511.5
858.7	37.5°	878.3	948.8	1009.6	1041.0	1103.7	1180.2	1223.3	1221.3	1209.6
699.9	40°	713.6	766.5	821.4	862.6	905.7	962.6	1015.5	1021.4	1021.4
588.1	42.5°	596.0	641.0	695.9	739.1	770.4	823.4	878.3	882.2	878.3
497.9	45°	509.7	548.9	601.8	652.8	678.3	717.5	770.4	782.2	774.4
427.4	47.5°	443.0	478.3	523.4	578.3	605.8	641.0	690.1	703.8	701.8
368.6	50°	380.3	421.5	466.6	511.7	546.9	580.3	627.3	643.0	637.1
313.7	52.5°	335.2	372.5	411.7	460.7	501.9	531.3	568.5	596.0	588.1
264.7	55°	280.3	325.4	366.6	407.8	458.7	490.1	525.4	558.7	550.9
223.5	57.5°	243.1	280.3	327.4	364.6	415.6	452.9	488.1	523.4	521.5
182.3	60°	203.9	243.1	288.2	327.4	374.4	415.6	450.9	490.1	494.0
137.2	62.5°	160.8	207.8	247.0	292.1	339.1	384.2	415.6	454.8	460.7
103.9	65°	121.5	170.6	213.7	256.8	303.9	352.9	380.3	413.6	419.5
76.5	67.5°	90.2	131.3	182.3	221.5	270.5	317.6	343.1	370.5	380.3
47.0	70°	68.6	100.0	152.9	190.2	241.1	278.4	305.8	329.3	337.2
31.4	72.5°	43.1	78.4	123.5	162.7	207.8	241.1	260.7	274.5	286.2
17.6	75°	29.4	60.8	100.0	139.2	172.5	198.0	215.6	227.4	237.2
7.8	77.5°	17.6	47.0	82.3	115.7	137.2	156.8	174.5	182.3	188.2
5.9	80°	9.8	35.3	68.6	94.1	107.8	121.5	135.3	145.1	149.0
3.9	82.5°	5.9	27.4	54.9	72.5	78.4	92.1	105.9	111.7	111.7
2.0	85°	3.9	19.6	37.2	52.9	56.9	66.7	70.6	74.5	78.4
2.0	87.5°	3.9	11.8	23.5	29.4	31.4	35.3	37.2	41.2	45.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>61509.3</u>
59488.1
55726.1
49762.6
43309.0
35575.2
27153.4
19453.0
14130.5
10294.0
6992.7
4408.9
2815.1
1982.0
1505.6
1203.7
1009.6
874.3
774.4
697.9
633.2
586.2
554.8
523.4
496.0
464.6
425.4
384.2
341.1
284.3
235.2
186.2
145.1
109.8
76.5
43.1
0.0

(END OF REPORT)