

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: P636860

Luminaire Tested: **IFLD-S-SA3C-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636860
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9883.9 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

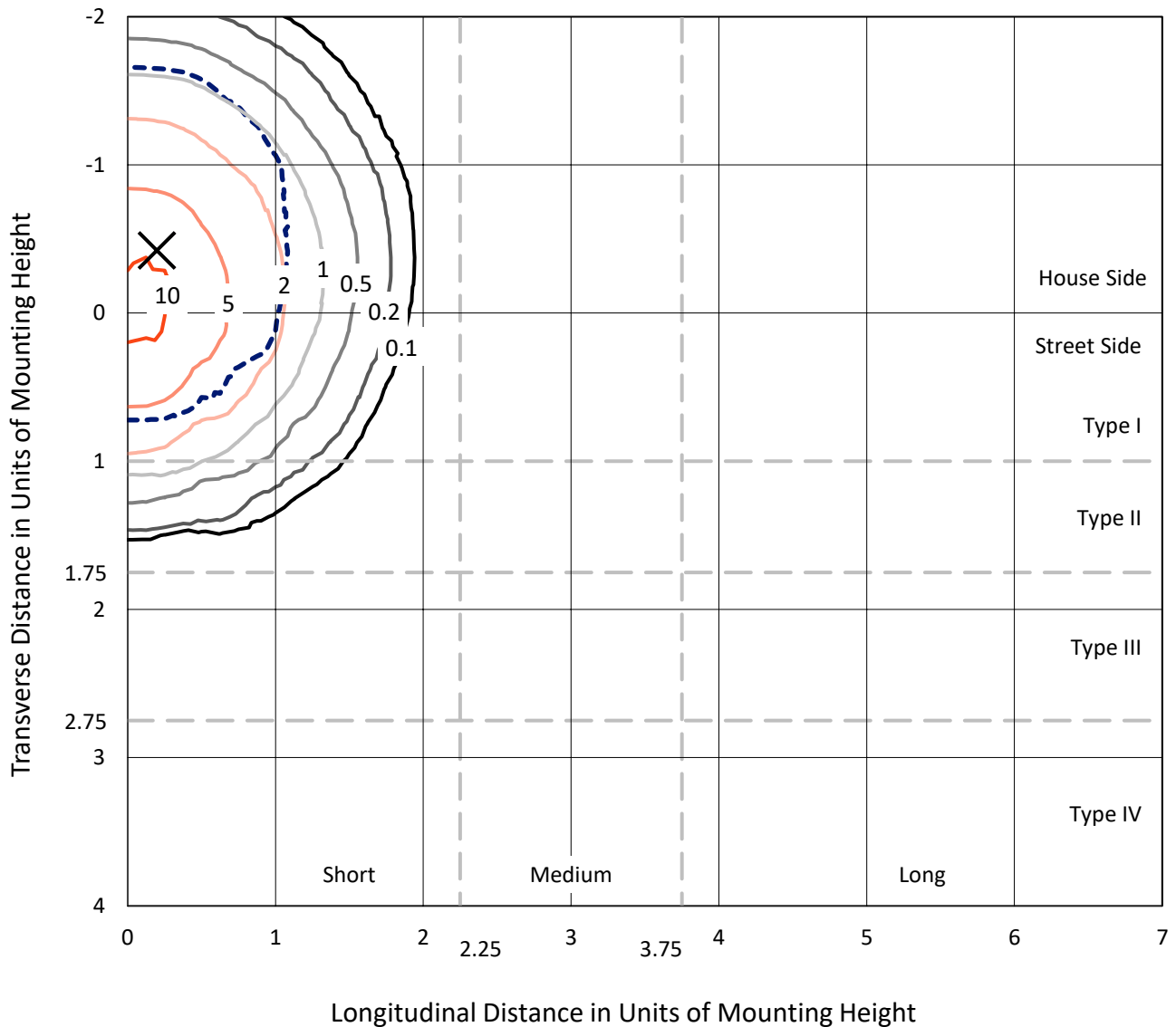
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

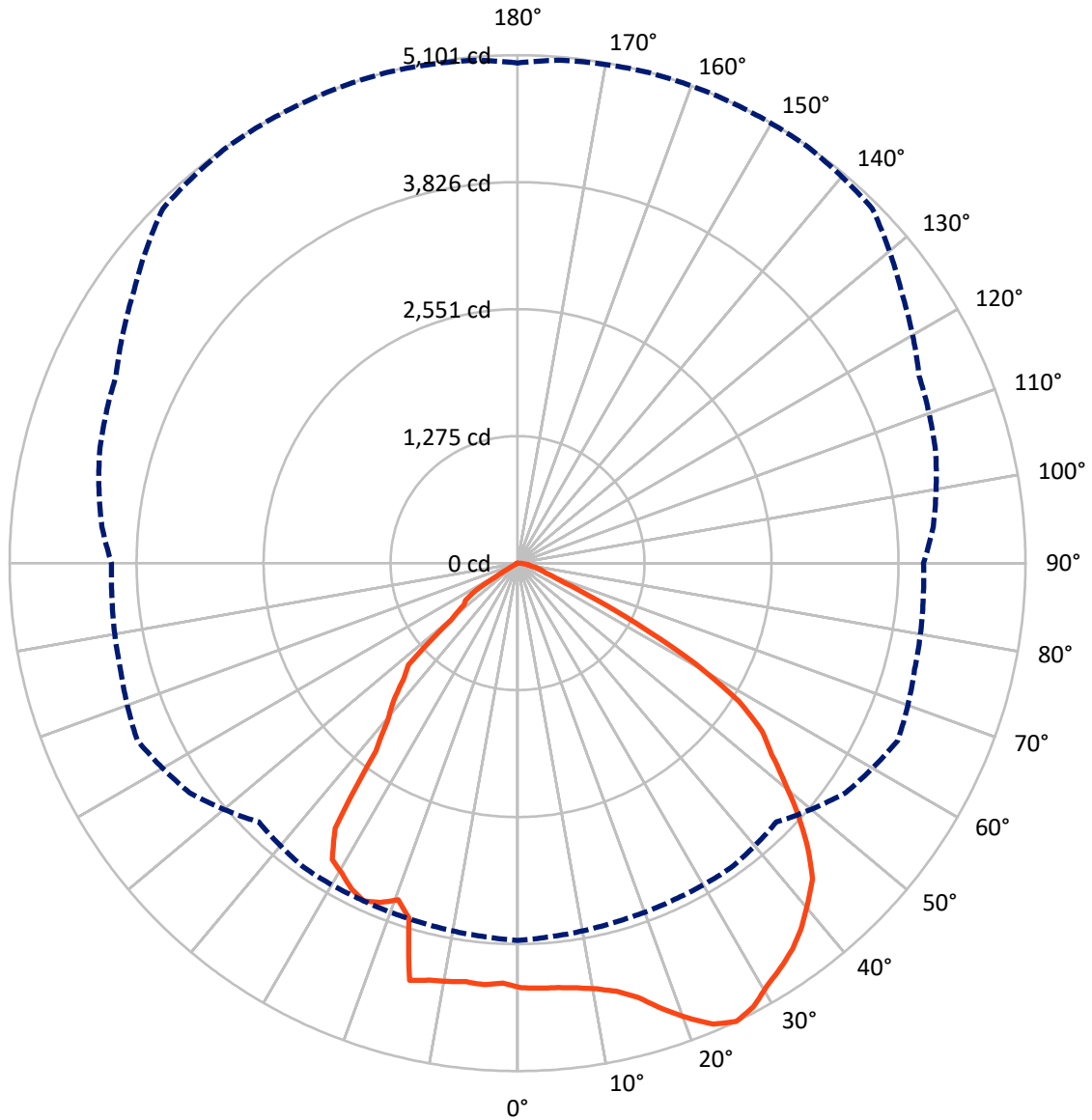
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6119.2	0.0	6119.2
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3764.8	0.0	3764.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	9883.9	0.0	9883.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.1	4.1
10°-20°	1249.3	12.6
20°-30°	1975.1	20.0
30°-40°	2231.0	22.6
40°-50°	2089.4	21.1
50°-60°	1440.5	14.6
60°-70°	387.0	3.9
70°-80°	80.7	0.8
80°-90°	21.8	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°	9883.9	100.0
0°-180°	9883.9	100.0



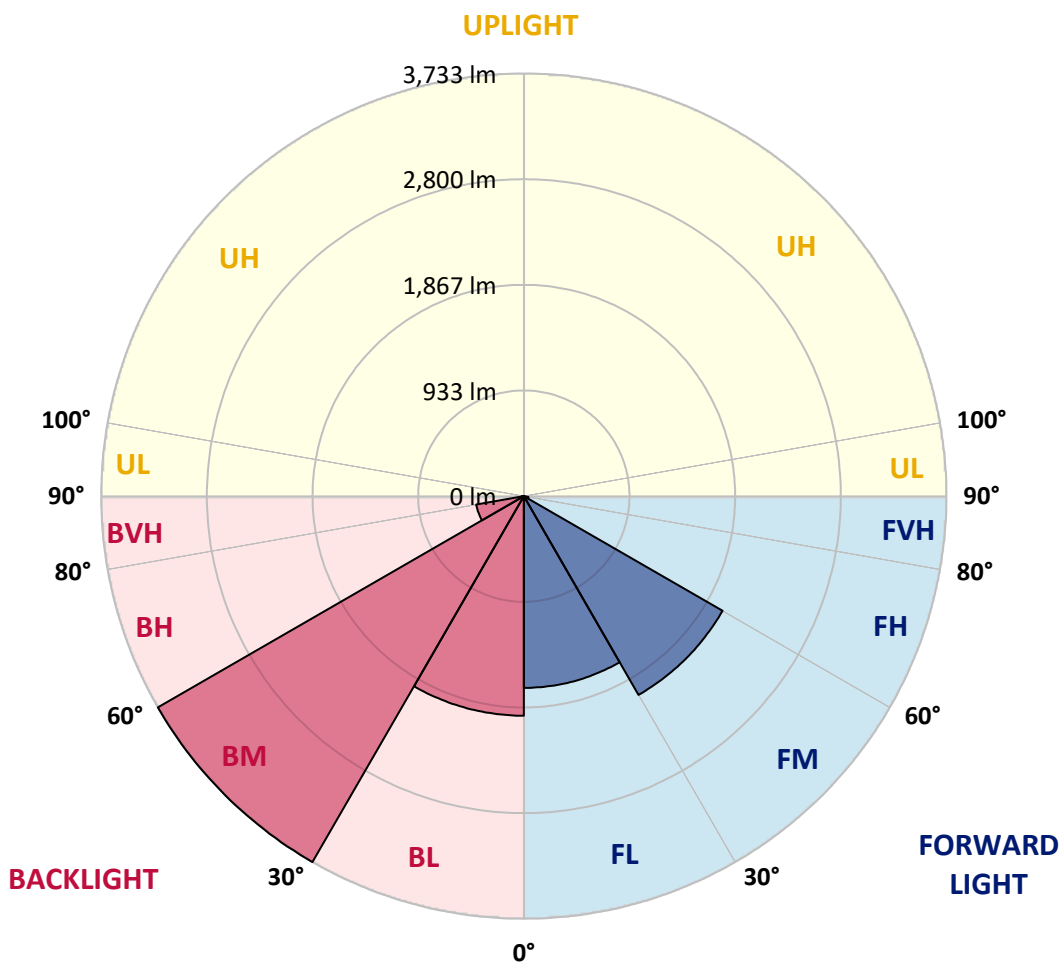
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.8	17.1			
FM (30°-60°)	2027.4	20.5			
FH (60°-80°)	40.6	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1939.7	19.6	B3/2500		
BM (30°-60°)	3733.5	37.8	B3/5000		
BH (60°-80°)	427.0	4.3	B1/500		G1/500
BVH (80°-90°)	18.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7
2.5°	4283.6	4256.0	4229.9	4221.1	4257.5	4296.7	4272.0	4273.4	4264.7	4280.7
5°	4315.6	4277.8	4260.4	4247.3	4253.1	4293.8	4258.9	4272.0	4257.5	4276.3
7.5°	4303.9	4277.8	4260.4	4235.7	4254.6	4302.5	4269.1	4270.5	4263.3	4280.7
10°	4296.7	4277.8	4256.0	4258.9	4280.7	4321.4	4295.2	4309.8	4299.6	4309.8
12.5°	4314.1	4293.8	4282.2	4282.2	4301.0	4347.5	4334.4	4347.5	4343.2	4351.9
15°	4150.0	4168.9	4279.2	4328.6	4366.4	4412.9	4407.1	4420.1	4423.1	4436.1
17.5°	3500.7	3481.8	3473.1	3727.3	4402.7	4546.5	4542.2	4540.7	4526.2	4516.0
20°	3586.4	3579.1	3568.9	3587.8	3663.4	4616.2	4645.3	4466.6	4414.3	4410.0
22.5°	3722.9	3711.3	3673.5	3675.0	3698.2	4013.4	4501.5	4338.8	4321.4	4311.2
25°	3789.7	3766.5	3736.0	3727.3	3734.5	3676.4	4020.7	4213.9	4128.2	4089.0
27.5°	3672.1	3673.5	3648.8	3672.1	3644.5	3383.0	3236.3	3969.9	3966.9	3949.5
30°	3583.5	3579.1	3550.1	3579.1	3388.8	3096.9	3034.4	3702.6	3672.1	3648.8
32.5°	3311.8	3314.7	3399.0	3512.3	3200.0	2969.0	2780.2	3307.5	3596.5	3583.5
35°	2369.1	2374.9	2674.2	3233.4	2913.8	2714.8	2700.3	2858.6	3477.4	3483.2
37.5°	2280.5	2280.5	2273.3	2364.8	2688.7	2611.7	2640.8	2624.8	3185.5	3200.0
40°	2216.6	2203.5	2193.4	2049.6	1869.4	2539.1	2559.4	2486.8	3011.2	3014.1
42.5°	2139.6	2125.1	2128.0	1862.2	1673.4	2359.0	2302.3	2205.0	2720.6	2723.6
45°	1998.7	2023.4	2040.8	1629.8	1615.2	1685.0	2123.6	2062.6	2524.6	2578.3
47.5°	1016.8	1038.6	1593.5	1499.0	1532.5	1497.6	1793.9	1795.4	2100.4	2279.1
50°	922.4	916.6	918.0	874.4	1414.8	1211.4	1297.1	1645.8	1682.1	1937.7
52.5°	859.9	858.5	769.9	684.2	889.0	1066.2	941.3	1191.1	1250.7	1641.4
55°	636.2	682.7	607.2	643.5	556.3	854.1	849.7	1074.9	1095.2	1316.0
57.5°	5.8	7.3	17.4	489.5	384.9	427.1	586.8	733.5	769.9	1025.5
60°	1.5	2.9	7.3	14.5	249.8	262.9	392.2	424.1	477.9	611.5
62.5°	0.0	0.0	2.9	7.3	13.1	107.5	124.9	136.5	210.6	312.3
65°	0.0	0.0	1.5	4.4	7.3	17.4	30.5	63.9	91.5	113.3
67.5°	0.0	0.0	1.5	2.9	5.8	8.7	17.4	24.7	39.2	66.8
70°	0.0	0.0	1.5	2.9	4.4	7.3	11.6	17.4	23.2	33.4
72.5°	0.0	0.0	1.5	2.9	2.9	8.7	8.7	13.1	17.4	21.8
75°	0.0	0.0	1.5	1.5	2.9	5.8	8.7	10.2	11.6	17.4
77.5°	0.0	0.0	1.5	2.9	4.4	5.8	7.3	11.6	10.2	10.2
80°	0.0	0.0	1.5	4.4	4.4	7.3	8.7	11.6	7.3	7.3
82.5°	0.0	0.0	1.5	5.8	4.4	14.5	14.5	16.0	5.8	5.8
85°	0.0	0.0	4.4	2.9	8.7	14.5	13.1	8.7	7.3	4.4
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	10.2	8.7	2.9	2.9
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°
4264.7	0°	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7	4264.7
4238.6	2.5°	4296.7	4277.8	4317.0	4312.7	4293.8	4285.1	4274.9	4266.2	4202.3
4241.5	5°	4298.1	4269.1	4317.0	4308.3	4305.4	4290.9	4282.2	4295.2	4237.1
4253.1	7.5°	4298.1	4269.1	4321.4	4324.3	4319.9	4308.3	4306.8	4315.6	4267.6
4273.4	10°	4327.2	4315.6	4359.1	4363.5	4357.7	4354.8	4347.5	4341.7	4290.9
4343.2	12.5°	4388.2	4364.9	4414.3	4427.4	4423.1	4430.3	4412.9	4421.6	4369.3
4414.3	15°	4462.3	4463.7	4501.5	4530.5	4527.6	4550.9	4524.7	4548.0	4510.2
4495.7	17.5°	4575.6	4591.5	4645.3	4688.9	4704.8	4722.3	4704.8	4712.1	4658.4
4405.6	20°	4456.5	4516.0	4774.6	4854.5	4887.9	4903.8	4874.8	4883.5	4829.8
4295.2	22.5°	4349.0	4426.0	4655.5	4905.3	5008.4	5040.4	5030.2	5028.8	5008.4
4077.3	25°	4190.6	4346.1	4449.2	4713.6	5037.5	5095.6	5101.4	5099.9	5069.4
3943.7	27.5°	3996.0	4030.9	4298.1	4459.4	4834.1	5054.9	5046.2	5004.1	4963.4
3666.3	30°	3747.6	3905.9	4026.5	4283.6	4571.2	4930.0	4930.0	4898.0	4855.9
3567.5	32.5°	3621.2	3826.0	3937.9	4030.9	4276.3	4790.5	4848.7	4815.2	4781.8
3490.5	35°	3554.4	3584.9	3846.4	3930.6	4138.3	4521.8	4757.1	4723.7	4699.0
3285.7	37.5°	3407.7	3478.9	3600.9	3826.0	3890.0	4302.5	4635.1	4617.7	4588.6
3019.9	40°	3080.9	3271.2	3458.6	3672.1	3738.9	4020.7	4487.0	4494.2	4455.0
2736.6	42.5°	2887.7	3017.0	3310.4	3454.2	3634.3	3839.1	4343.2	4354.8	4327.2
2592.8	45°	2661.1	2804.9	3011.2	3272.6	3518.1	3589.3	4089.0	4211.0	4187.7
2306.7	47.5°	2453.4	2569.6	2822.3	3086.7	3358.3	3348.2	3797.0	4026.5	3994.5
2087.3	50°	2158.5	2361.9	2481.0	2723.6	3128.8	3156.4	3486.1	3810.1	3783.9
1773.6	52.5°	1820.1	2075.7	2303.8	2526.0	2896.4	2961.8	3197.1	3589.3	3571.9
1355.2	55°	1590.6	1776.5	2033.6	2212.3	2614.6	2788.9	2980.7	3378.7	3369.9
1114.1	57.5°	1131.5	1490.3	1702.4	1952.2	2164.3	2479.5	2621.9	2950.2	2868.8
617.3	60°	767.0	935.5	1194.0	1462.7	1605.1	1920.3	2052.5	2315.4	2293.6
369.0	62.5°	405.3	560.7	745.2	880.3	983.4	1289.9	1345.1	1628.3	1621.1
148.2	65°	178.7	236.8	403.8	473.5	579.6	721.9	769.9	871.5	846.8
72.6	67.5°	93.0	140.9	228.1	280.3	353.0	406.7	445.9	477.9	498.2
47.9	70°	56.6	103.1	140.9	194.6	242.6	286.2	316.7	360.2	386.4
24.7	72.5°	42.1	65.4	97.3	149.6	175.8	226.6	257.1	289.1	312.3
20.3	75°	23.2	43.6	78.4	117.7	140.9	184.5	212.1	233.9	241.1
11.6	77.5°	14.5	33.4	65.4	91.5	110.4	149.6	142.4	162.7	180.1
8.7	80°	10.2	24.7	50.8	75.5	77.0	95.9	113.3	130.7	142.4
5.8	82.5°	7.3	20.3	37.8	58.1	50.8	74.1	88.6	101.7	74.1
4.4	85°	5.8	14.5	18.9	34.9	29.1	52.3	45.0	43.6	29.1
2.9	87.5°	4.4	7.3	13.1	16.0	11.6	11.6	14.5	17.4	14.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4264.7
4158.7
4187.7
4212.4
4248.7
4322.8
4447.7
4611.9
4792.0
4943.1
5023.0
4931.4
4839.9
4754.2
4664.2
4559.6
4446.3
4324.3
4190.6
4017.8
3788.3
3583.5
3380.1
2860.1
2295.0
1622.5
836.7
498.2
387.8
316.7
236.8
183.0
143.8
53.7
29.1
14.5
0.0

(END OF REPORT)