

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: P636668

Luminaire Tested: **IFLD-M-SA4D-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636668
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17999 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

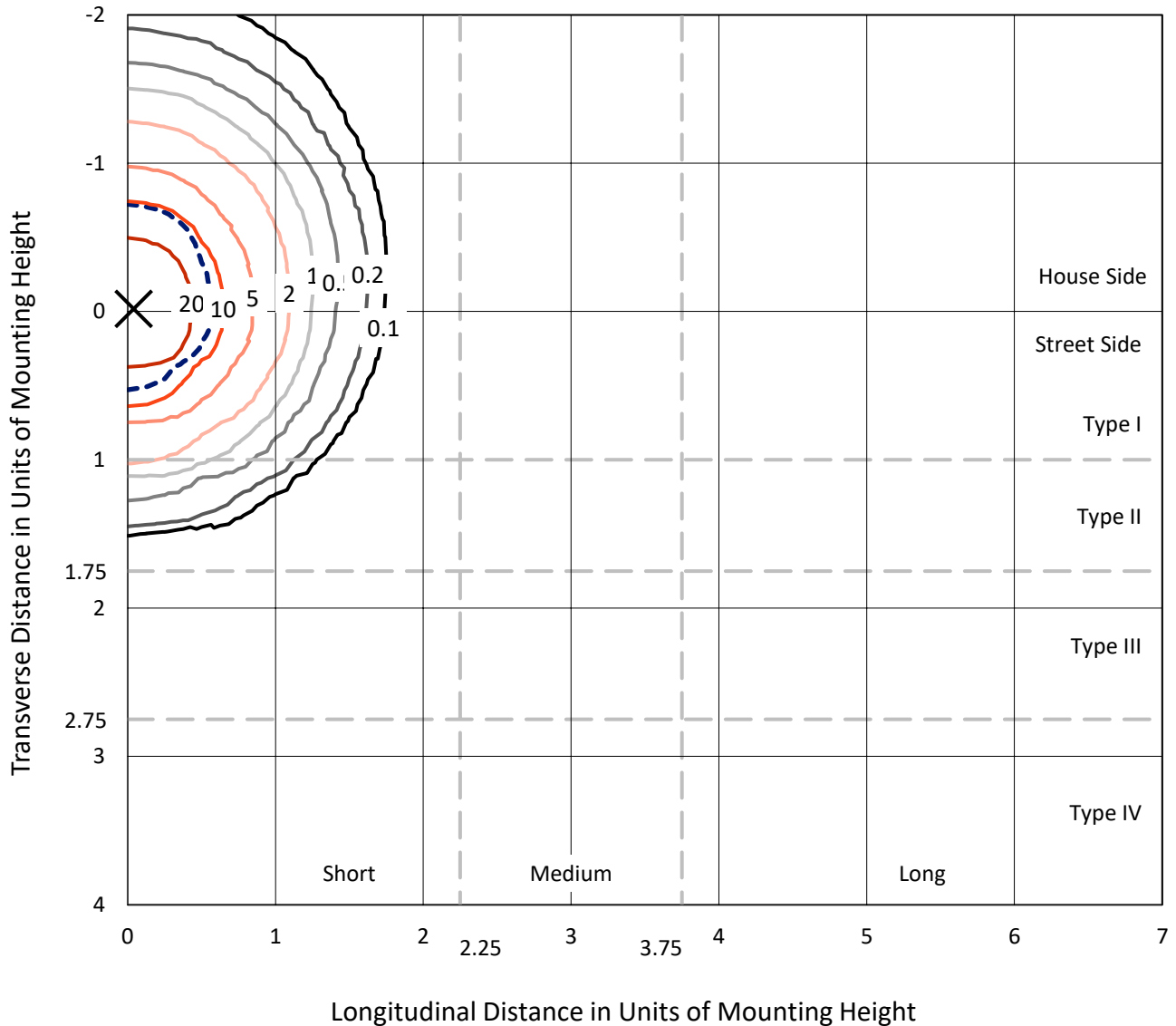
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

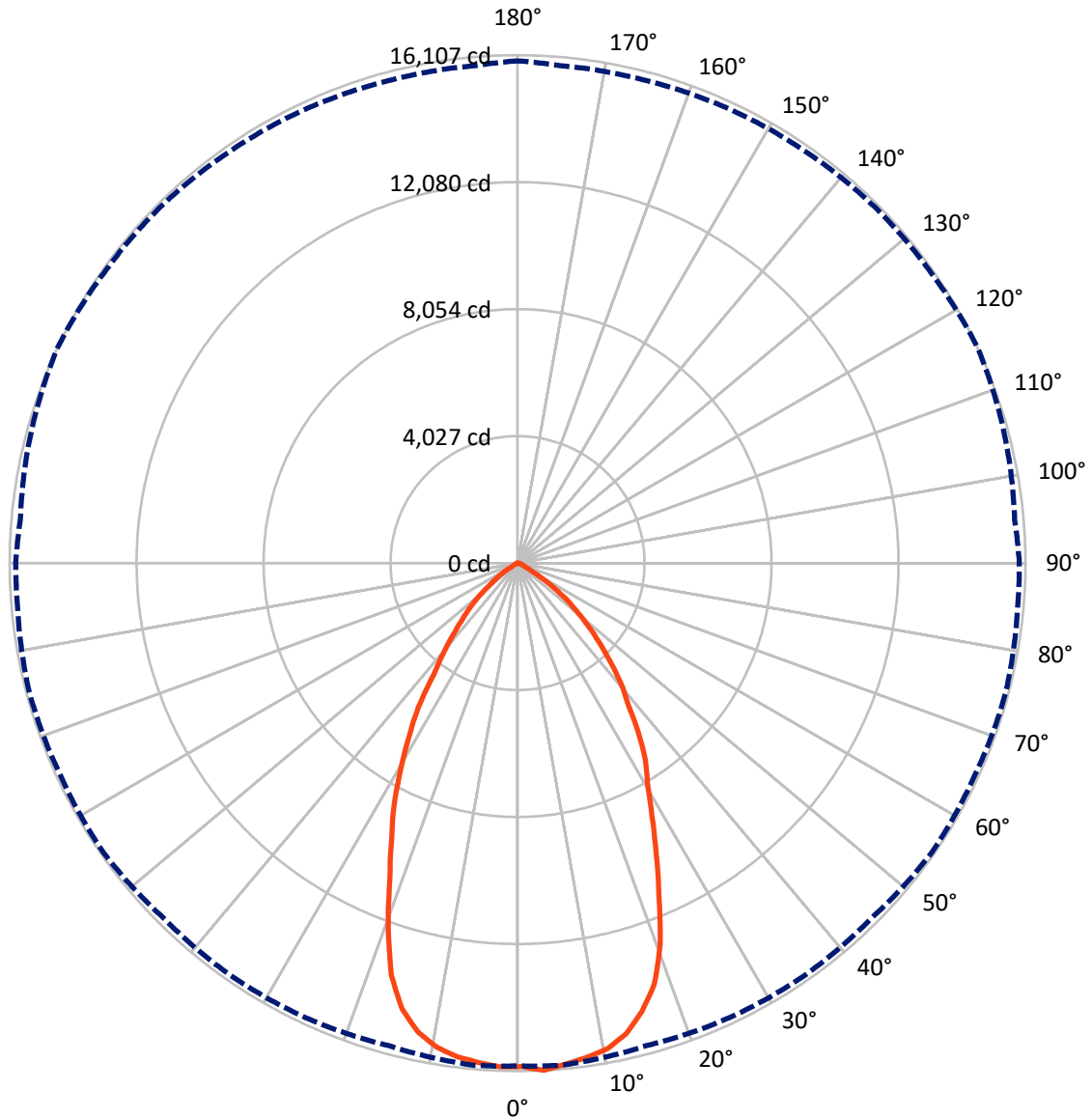
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10300.6	0.0	10300.6
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	7698.4	0.0	7698.4
	% Fixture	42.8	0.0	42.8
Total	Lumens	17999.0	0.0	17999.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1504.1	8.4
10°-20°	3988.2	22.2
20°-30°	4561.7	25.3
30°-40°	3909.2	21.7
40°-50°	2584.9	14.4
50°-60°	1127.9	6.3
60°-70°	221.6	1.2
70°-80°	80.0	0.4
80°-90°	21.3	0.1
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°	17999.0	100.0
0°-180°	17999.0	100.0



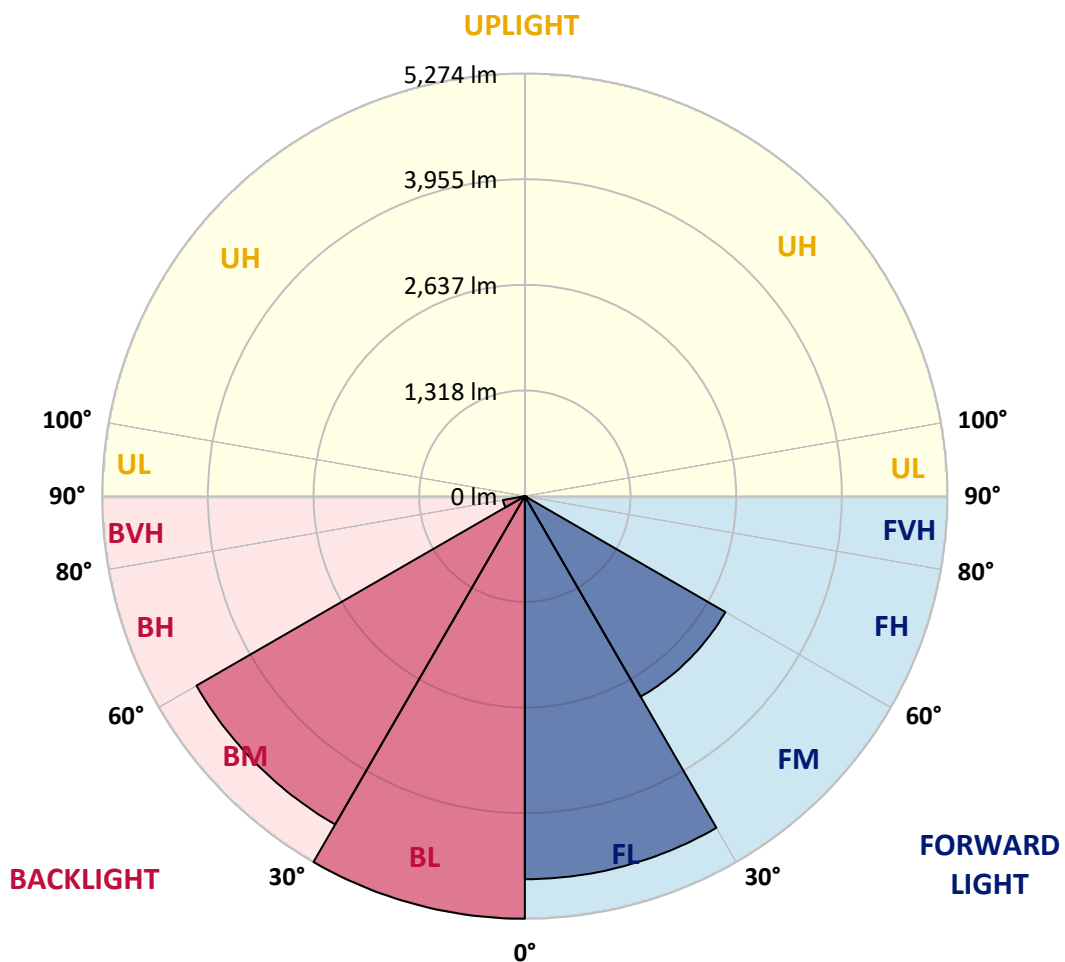
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4780.1	26.6			
FM (30°-60°)	2890.2	16.1			
FH (60°-80°)	24.5	0.1			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	5273.9	29.3	B5		
BM (30°-60°)	4731.9	26.3	B3/5000		
BH (60°-80°)	277.1	1.5	B1/500		G1/500
BVH (80°-90°)	17.7	0.1			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6
2.5°	15946.6	15984.9	15839.5	15904.6	15931.3	15896.9	16023.2	15984.9	16015.5	15919.9
5°	15946.6	15984.9	15816.6	15847.2	15854.8	15789.8	15927.5	15881.6	15885.4	15785.9
7.5°	15847.2	15893.1	15740.0	15763.0	15766.8	15713.3	15831.9	15766.8	15743.9	15640.6
10°	15579.3	15606.1	15468.4	15525.8	15579.3	15529.6	15632.9	15560.2	15560.2	15468.4
12.5°	15154.7	15204.4	15051.4	15120.2	15166.1	15108.8	15227.4	15200.6	15204.4	15112.6
15°	14381.8	14209.6	14393.3	14531.0	14534.9	14523.4	14634.3	14607.6	14626.7	14488.9
17.5°	10624.7	10582.6	10796.9	12422.9	13631.9	13796.4	13815.6	13670.2	13605.1	13471.2
20°	9844.2	9874.8	9828.9	9836.6	10789.2	12767.3	12648.7	12289.0	12124.5	11990.6
22.5°	9274.1	9224.4	9193.8	9174.7	9201.5	10490.8	11344.0	10800.7	10712.7	10647.7
25°	8654.3	8631.4	8593.1	8585.5	8570.2	8352.1	9580.2	9630.0	9488.4	9408.1
27.5°	8076.6	8061.3	8019.2	8015.4	7839.4	7311.4	7445.3	8627.6	8589.3	8558.7
30°	7460.6	7430.0	7407.1	7407.1	6875.3	6332.0	6113.9	7521.9	7521.9	7495.1
32.5°	6791.1	6764.3	6772.0	6680.1	6045.0	5547.7	5203.3	6492.7	6894.4	6871.4
35°	4151.2	4143.5	4920.2	5941.7	5195.7	4744.2	4721.2	5555.3	6140.7	6201.9
37.5°	3695.9	3672.9	3684.4	3749.4	4449.6	4269.8	4262.1	4403.7	5226.3	5256.9
40°	3317.1	3301.8	3290.3	3056.9	2835.0	3810.7	3783.9	3692.1	4464.9	4518.5
42.5°	2957.5	2942.2	2942.2	2613.1	2253.5	3133.5	3144.9	3037.8	3764.8	3783.9
45°	2586.4	2574.9	2509.8	2085.2	1981.9	2081.3	2605.5	2483.1	2988.1	3187.0
47.5°	1220.5	1212.8	1756.1	1733.2	1725.5	1664.3	1989.5	2058.4	2372.1	2571.1
50°	979.4	971.8	925.9	814.9	1419.4	1262.6	1434.7	1584.0	1683.4	1867.1
52.5°	811.1	803.5	707.8	627.5	788.1	922.1	857.0	1059.8	1056.0	1254.9
55°	531.8	493.6	543.3	512.7	413.2	669.5	654.2	803.5	784.3	956.5
57.5°	11.5	11.5	26.8	290.8	260.2	283.1	374.9	459.1	516.5	566.2
60°	3.8	3.8	7.7	15.3	107.1	118.6	145.4	168.3	237.2	294.6
62.5°	0.0	0.0	3.8	7.7	15.3	61.2	68.9	80.3	111.0	153.0
65°	0.0	0.0	0.0	3.8	7.7	15.3	23.0	49.7	68.9	88.0
67.5°	0.0	0.0	0.0	3.8	3.8	7.7	15.3	23.0	30.6	61.2
70°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	15.3	23.0	30.6
72.5°	0.0	0.0	0.0	3.8	3.8	11.5	7.7	11.5	15.3	19.1
75°	0.0	0.0	0.0	3.8	3.8	3.8	7.7	11.5	11.5	15.3
77.5°	0.0	0.0	0.0	3.8	7.7	7.7	7.7	7.7	7.7	11.5
80°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	15.3	7.7	7.7
82.5°	0.0	0.0	0.0	7.7	3.8	15.3	23.0	19.1	7.7	3.8
85°	0.0	0.0	0.0	3.8	15.3	19.1	19.1	11.5	3.8	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.7	11.5	11.5	3.8	3.8
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°
15969.6	0°	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6	15969.6
15912.2	2.5°	15824.2	15973.4	16107.3	16023.2	15992.6	15931.3	15885.4	15835.7	15831.9
15774.5	5°	15686.5	15828.0	15958.1	15858.6	15866.3	15835.7	15805.1	15793.6	15801.3
15632.9	7.5°	15567.9	15686.5	15828.0	15743.9	15766.8	15747.7	15732.4	15709.4	15743.9
15449.3	10°	15388.0	15495.2	15659.7	15579.3	15567.9	15548.7	15533.4	15491.3	15510.5
15116.4	12.5°	14994.0	15127.9	15315.4	15223.5	15254.1	15200.6	15177.6	15150.8	15154.7
14538.7	15°	14458.3	14561.6	14752.9	14680.2	14703.2	14668.8	14668.8	14668.8	14695.5
13490.4	17.5°	13524.8	13735.2	14037.5	13945.7	13980.1	13987.7	13980.1	14006.9	14041.3
11998.2	20°	12005.9	12365.5	12916.5	13096.3	13169.0	13172.8	13119.2	13184.3	13253.2
10601.8	22.5°	10609.4	10988.2	11474.1	11967.6	12273.7	12258.4	12266.1	12308.1	12380.8
9358.3	25°	9400.4	9763.9	10203.9	10643.8	11313.4	11451.1	11455.0	11493.2	11550.6
8509.0	27.5°	8528.1	8669.6	9071.4	9515.2	10234.5	10674.5	10651.5	10685.9	10747.1
7445.3	30°	7475.9	8019.2	8111.1	8382.7	9002.5	9809.8	9813.6	9851.9	9913.1
6817.9	32.5°	6798.7	7158.4	7441.5	7449.2	7977.1	8807.4	8971.9	9010.2	9052.2
6167.5	35°	6163.6	6205.7	6588.3	6695.4	7001.5	7824.1	8114.9	8137.8	8206.7
5245.4	37.5°	5333.4	5582.1	5689.2	6071.8	6087.1	6752.8	7330.6	7307.6	7361.2
4514.6	40°	4572.0	4809.2	5080.9	5360.2	5398.4	5895.8	6534.8	6557.7	6580.7
3745.6	42.5°	3776.2	4078.5	4357.8	4545.3	4805.4	5092.4	5700.7	5807.8	5861.4
3210.0	45°	3267.4	3351.5	3684.4	3959.9	4223.9	4357.8	4927.8	5123.0	5157.4
2540.4	47.5°	2574.9	2858.0	3083.7	3317.1	3646.1	3764.8	4178.0	4449.6	4476.4
1886.2	50°	1989.5	2192.3	2502.2	2712.6	3095.2	3160.3	3443.4	3795.4	3829.8
1262.6	52.5°	1423.3	1698.7	2001.0	2203.8	2571.1	2655.2	2865.7	3202.3	3225.3
968.0	55°	1021.5	1201.4	1450.0	1740.8	2008.6	2196.1	2341.5	2662.9	2693.5
635.1	57.5°	696.3	864.7	968.0	1258.7	1419.4	1622.2	1740.8	1985.7	2008.6
302.3	60°	332.9	413.2	493.6	638.9	742.2	914.4	990.9	1090.4	1117.2
183.6	62.5°	214.3	252.5	321.4	382.6	482.1	589.2	619.8	704.0	734.6
114.8	65°	141.6	179.8	252.5	267.8	367.3	451.5	489.7	550.9	585.4
68.9	67.5°	80.3	126.3	187.5	221.9	290.8	371.1	413.2	466.8	497.4
45.9	70°	53.6	103.3	149.2	183.6	229.6	298.4	352.0	397.9	417.0
23.0	72.5°	30.6	65.0	103.3	145.4	183.6	248.7	298.4	336.7	221.9
15.3	75°	19.1	49.7	88.0	122.4	153.0	199.0	241.0	237.2	99.5
11.5	77.5°	15.3	38.3	76.5	103.3	126.3	137.7	172.2	195.1	76.5
7.7	80°	11.5	30.6	68.9	88.0	49.7	99.5	133.9	145.4	53.6
7.7	82.5°	7.7	19.1	57.4	61.2	34.4	72.7	107.1	95.6	38.3
3.8	85°	3.8	11.5	19.1	34.4	30.6	34.4	26.8	38.3	26.8
3.8	87.5°	3.8	7.7	15.3	15.3	15.3	11.5	15.3	15.3	15.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15969.6
15923.7
15896.9
15839.5
15602.3
15265.6
14707.0
14156.1
13299.1
12392.3
11650.1
10804.5
10020.2
9147.9
8279.4
7426.2
6653.4
5937.9
5241.6
4541.4
3879.5
3267.4
2720.3
2054.5
1147.8
742.2
585.4
493.6
413.2
179.8
99.5
76.5
57.4
38.3
26.8
15.3
0.0

(END OF REPORT)