

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: P636957

Luminaire Tested: **IFLD-M-SA4C-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636957
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15142.2 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

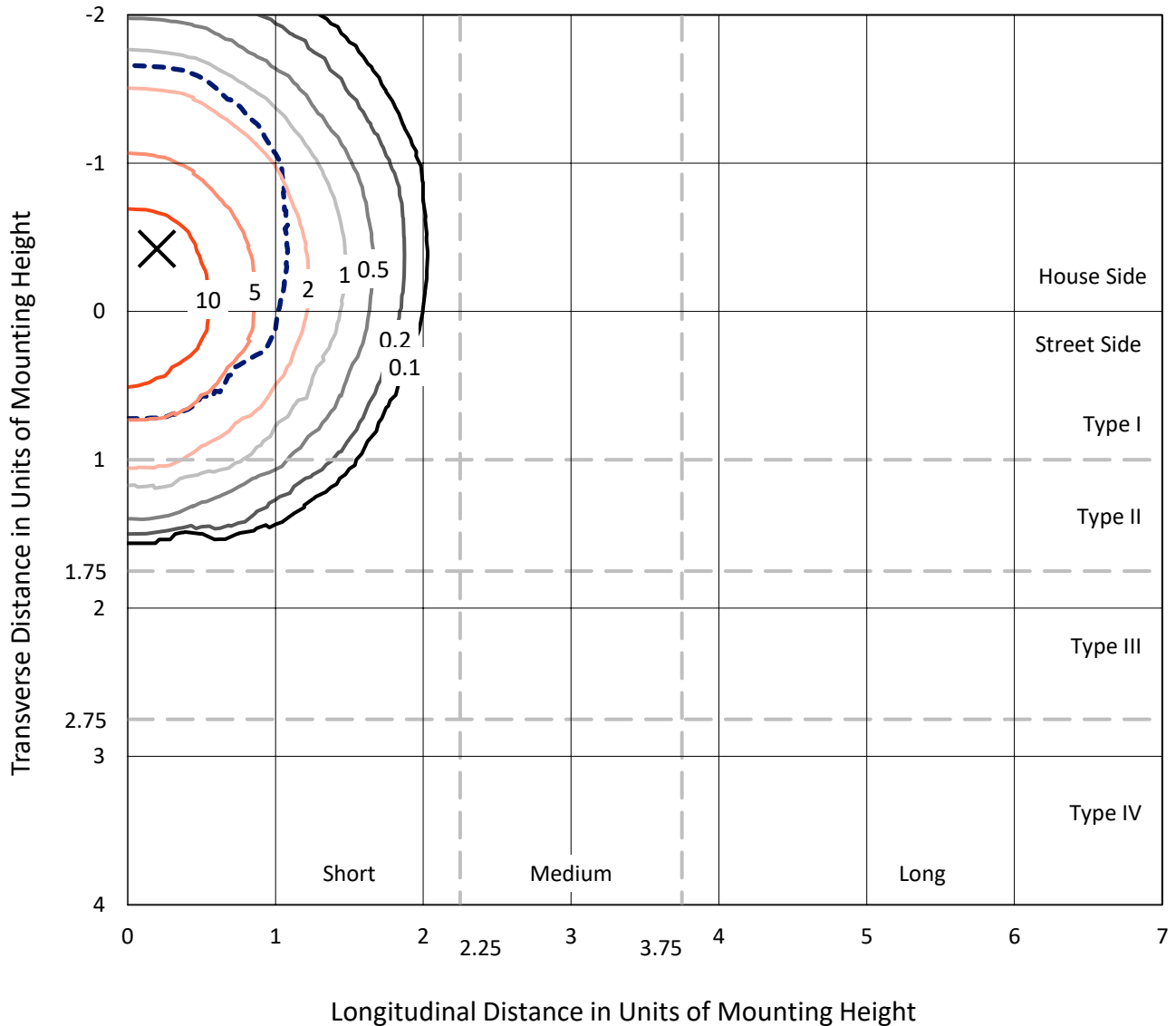
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

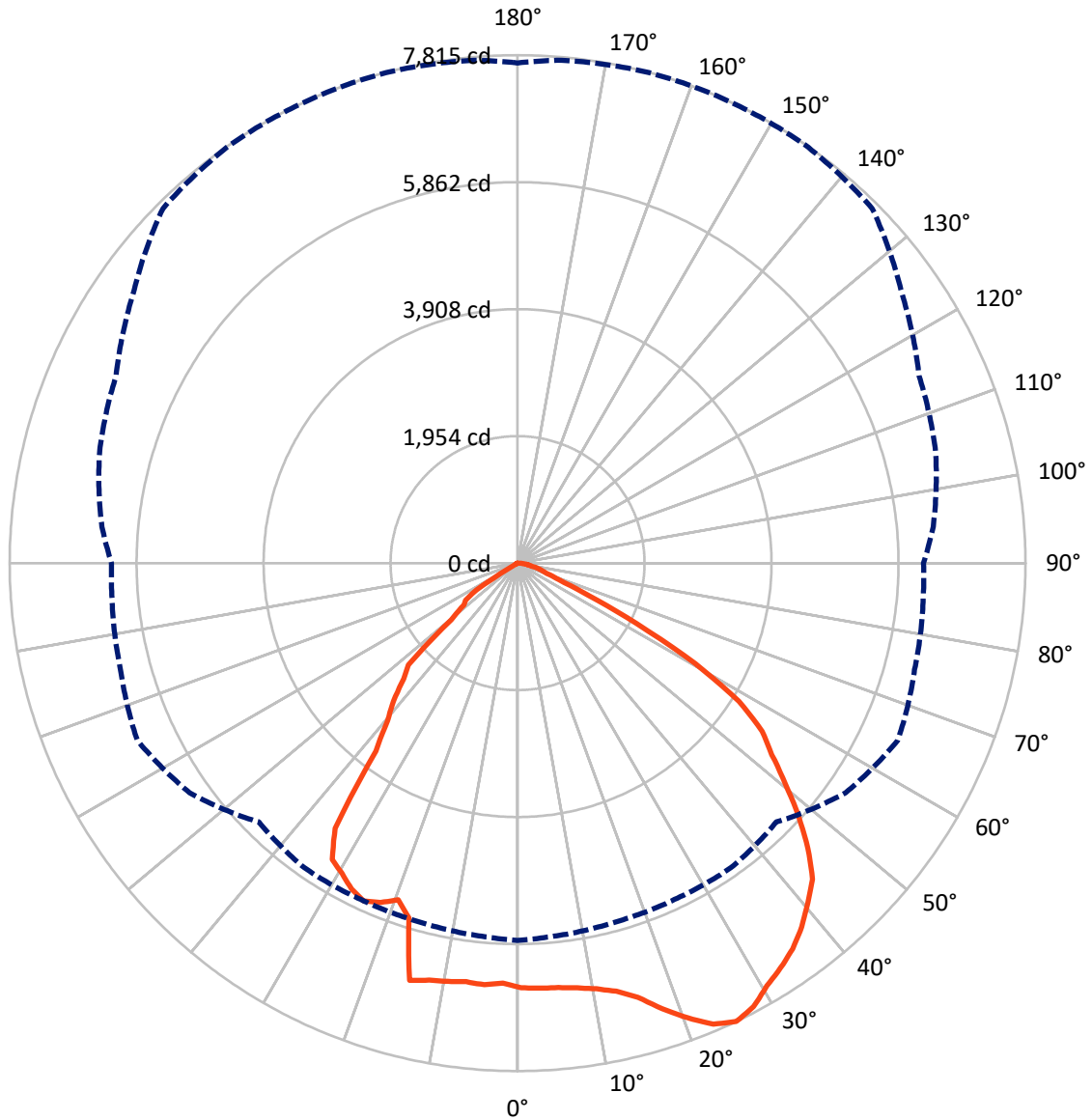
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.3 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	9374.6	0.0	9374.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5767.6	0.0	5767.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	15142.2	0.0	15142.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.8	4.1
10°-20°	1913.9	12.6
20°-30°	3025.8	20.0
30°-40°	3417.9	22.6
40°-50°	3201.0	21.1
50°-60°	2206.8	14.6
60°-70°	592.9	3.9
70°-80°	123.6	0.8
80°-90°	33.4	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°	15142.2	100.0
0°-180°	15142.2	100.0



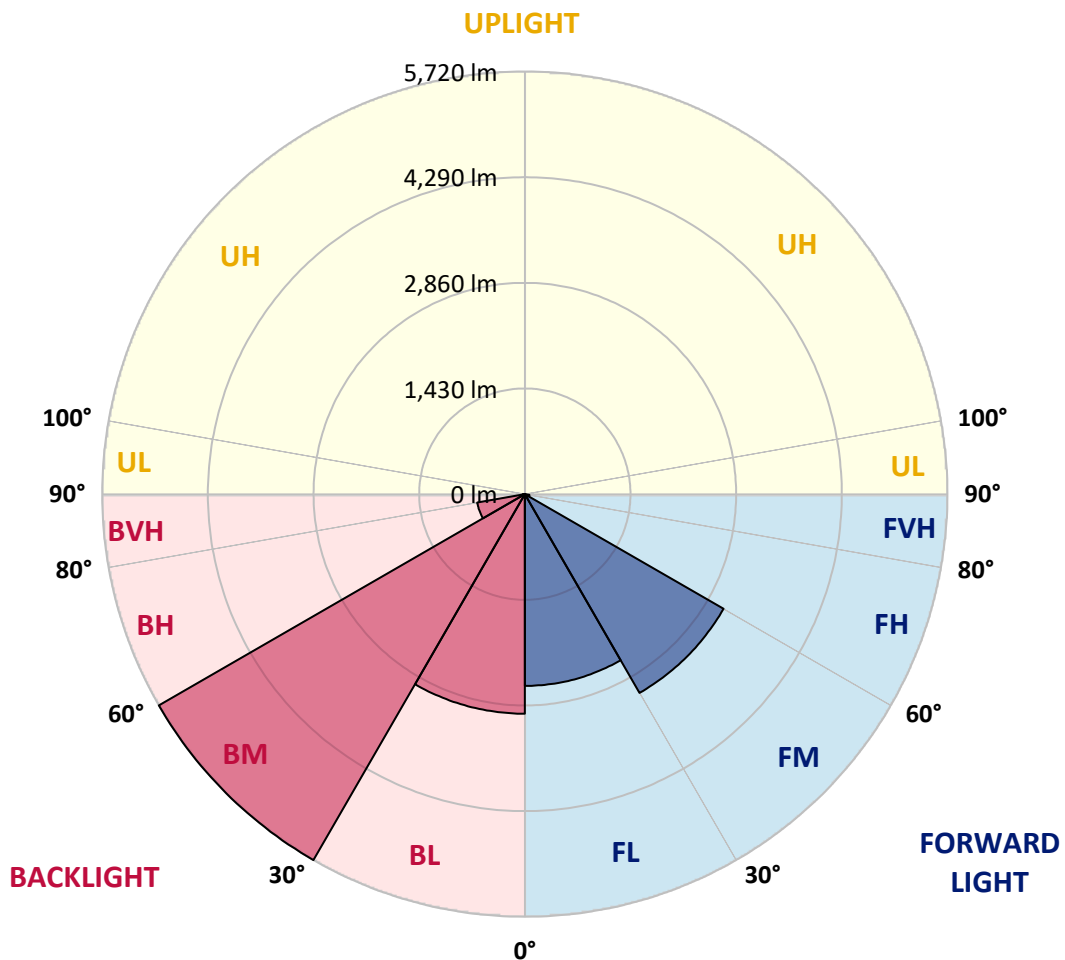
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2594.9	17.1			
FM (30°-60°)	3106.0	20.5			
FH (60°-80°)	62.2	0.4			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	2971.7	19.6	B4/5000		
BM (30°-60°)	5719.7	37.8	B4/8500		
BH (60°-80°)	654.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6
2.5°	6562.5	6520.2	6480.2	6466.8	6522.5	6582.6	6544.7	6547.0	6533.6	6558.1
5°	6611.5	6553.6	6526.9	6506.9	6515.8	6578.1	6524.7	6544.7	6522.5	6551.4
7.5°	6593.7	6553.6	6526.9	6489.1	6518.0	6591.5	6540.3	6542.5	6531.4	6558.1
10°	6582.6	6553.6	6520.2	6524.7	6558.1	6620.4	6580.3	6602.6	6587.0	6602.6
12.5°	6609.3	6578.1	6560.3	6560.3	6589.2	6660.4	6640.4	6660.4	6653.8	6667.1
15°	6357.8	6386.7	6555.9	6631.5	6689.4	6760.6	6751.7	6771.7	6776.2	6796.2
17.5°	5363.1	5334.1	5320.8	5710.2	6745.0	6965.3	6958.6	6956.4	6934.2	6918.6
20°	5494.4	5483.2	5467.7	5496.6	5612.3	7072.1	7116.6	6842.9	6762.8	6756.1
22.5°	5703.5	5685.7	5627.9	5630.1	5665.7	6148.6	6896.3	6647.1	6620.4	6604.8
25°	5805.9	5770.3	5723.6	5710.2	5721.3	5632.3	6159.7	6455.7	6324.4	6264.3
27.5°	5625.7	5627.9	5590.1	5625.7	5583.4	5182.8	4958.1	6081.9	6077.4	6050.7
30°	5489.9	5483.2	5438.7	5483.2	5191.7	4744.4	4648.7	5672.4	5625.7	5590.1
32.5°	5073.8	5078.2	5207.3	5380.9	4902.4	4548.6	4259.3	5067.1	5509.9	5489.9
35°	3629.5	3638.4	4096.9	4953.6	4464.0	4159.2	4136.9	4379.5	5327.5	5336.4
37.5°	3493.8	3493.8	3482.7	3622.9	4119.1	4001.2	4045.7	4021.2	4880.2	4902.4
40°	3395.9	3375.8	3360.3	3140.0	2864.0	3889.9	3921.0	3809.8	4613.1	4617.6
42.5°	3277.9	3255.7	3260.1	2852.9	2563.6	3614.0	3527.2	3378.1	4168.1	4172.5
45°	3062.1	3099.9	3126.6	2496.8	2474.6	2581.4	3253.4	3160.0	3867.6	3950.0
47.5°	1557.7	1591.1	2441.2	2296.6	2347.7	2294.3	2748.3	2750.5	3217.8	3491.6
50°	1413.1	1404.2	1406.4	1339.7	2167.5	1855.9	1987.2	2521.3	2576.9	2968.6
52.5°	1317.4	1315.2	1179.4	1048.1	1361.9	1633.4	1442.0	1824.8	1916.0	2514.6
55°	974.7	1045.9	930.2	985.8	852.3	1308.5	1301.8	1646.8	1677.9	2016.2
57.5°	8.9	11.1	26.7	749.9	589.7	654.2	899.0	1123.8	1179.4	1571.1
60°	2.2	4.5	11.1	22.3	382.8	402.8	600.8	649.8	732.1	936.9
62.5°	0.0	0.0	4.5	11.1	20.0	164.7	191.4	209.2	322.7	478.4
65°	0.0	0.0	2.2	6.7	11.1	26.7	46.7	97.9	140.2	173.6
67.5°	0.0	0.0	2.2	4.5	8.9	13.4	26.7	37.8	60.1	102.4
70°	0.0	0.0	2.2	4.5	6.7	11.1	17.8	26.7	35.6	51.2
72.5°	0.0	0.0	2.2	4.5	4.5	13.4	13.4	20.0	26.7	33.4
75°	0.0	0.0	2.2	2.2	4.5	8.9	13.4	15.6	17.8	26.7
77.5°	0.0	0.0	2.2	4.5	6.7	8.9	11.1	17.8	15.6	15.6
80°	0.0	0.0	2.2	6.7	6.7	11.1	13.4	17.8	11.1	11.1
82.5°	0.0	0.0	2.2	8.9	6.7	22.3	22.3	24.5	8.9	8.9
85°	0.0	0.0	6.7	4.5	13.4	22.3	20.0	13.4	11.1	6.7
87.5°	0.0	0.0	2.2	2.2	4.5	6.7	15.6	13.4	4.5	4.5
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°
6533.6	0°	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6	6533.6
6493.5	2.5°	6582.6	6553.6	6613.7	6607.0	6578.1	6564.8	6549.2	6535.8	6437.9
6498.0	5°	6584.8	6540.3	6613.7	6600.4	6595.9	6573.7	6560.3	6580.3	6491.3
6515.8	7.5°	6584.8	6540.3	6620.4	6624.8	6618.2	6600.4	6598.1	6611.5	6538.0
6547.0	10°	6629.3	6611.5	6678.2	6684.9	6676.0	6671.6	6660.4	6651.5	6573.7
6653.8	12.5°	6722.8	6687.1	6762.8	6782.8	6776.2	6787.3	6760.6	6773.9	6693.8
6762.8	15°	6836.2	6838.5	6896.3	6940.8	6936.4	6972.0	6931.9	6967.5	6909.7
6887.4	17.5°	7009.8	7034.3	7116.6	7183.4	7207.9	7234.6	7207.9	7219.0	7136.7
6749.5	20°	6827.3	6918.6	7314.7	7437.1	7488.3	7512.7	7468.2	7481.6	7399.3
6580.3	22.5°	6662.7	6780.6	7132.2	7515.0	7673.0	7721.9	7706.4	7704.1	7673.0
6246.5	25°	6420.1	6658.2	6816.2	7221.2	7717.5	7806.5	7815.4	7813.2	7766.4
6041.8	27.5°	6121.9	6175.3	6584.8	6831.8	7405.9	7744.2	7730.8	7666.3	7604.0
5616.8	30°	5741.4	5983.9	6168.6	6562.5	7003.1	7552.8	7552.8	7503.8	7439.3
5465.4	32.5°	5547.8	5861.5	6032.9	6175.3	6551.4	7339.2	7428.2	7377.0	7325.8
5347.5	35°	5445.4	5492.1	5892.7	6021.8	6340.0	6927.5	7288.0	7236.8	7199.0
5033.7	37.5°	5220.6	5329.7	5516.6	5861.5	5959.5	6591.5	7101.1	7074.4	7029.8
4626.5	40°	4719.9	5011.5	5298.5	5625.7	5728.0	6159.7	6874.1	6885.2	6825.1
4192.5	42.5°	4424.0	4622.0	5071.5	5291.9	5567.8	5881.6	6653.8	6671.6	6629.3
3972.2	45°	4076.8	4297.1	4613.1	5013.7	5389.8	5498.8	6264.3	6451.3	6415.7
3533.8	47.5°	3758.6	3936.6	4323.8	4728.8	5145.0	5129.4	5817.0	6168.6	6119.7
3197.8	50°	3306.9	3618.4	3800.9	4172.5	4793.4	4835.7	5340.8	5837.1	5797.0
2717.1	52.5°	2788.4	3180.0	3529.4	3869.9	4437.3	4537.5	4898.0	5498.8	5472.1
2076.2	55°	2436.7	2721.6	3115.5	3389.2	4005.6	4272.7	4566.4	5176.1	5162.8
1706.8	57.5°	1733.5	2283.2	2608.1	2990.9	3315.8	3798.7	4016.7	4519.7	4395.0
945.8	60°	1175.0	1433.1	1829.2	2240.9	2459.0	2941.9	3144.4	3547.2	3513.8
565.2	62.5°	620.9	859.0	1141.6	1348.6	1506.6	1976.1	2060.7	2494.6	2483.5
227.0	65°	273.7	362.7	618.6	725.5	887.9	1106.0	1179.4	1335.2	1297.4
111.3	67.5°	142.4	215.9	349.4	429.5	540.8	623.1	683.2	732.1	763.3
73.4	70°	86.8	158.0	215.9	298.2	371.6	438.4	485.1	551.9	591.9
37.8	72.5°	64.5	100.1	149.1	229.2	269.3	347.2	393.9	442.8	478.4
31.2	75°	35.6	66.8	120.2	180.3	215.9	282.6	324.9	358.3	369.4
17.8	77.5°	22.3	51.2	100.1	140.2	169.1	229.2	218.1	249.2	275.9
13.4	80°	15.6	37.8	77.9	115.7	117.9	146.9	173.6	200.3	218.1
8.9	82.5°	11.1	31.2	57.9	89.0	77.9	113.5	135.7	155.8	113.5
6.7	85°	8.9	22.3	28.9	53.4	44.5	80.1	69.0	66.8	44.5
4.5	87.5°	6.7	11.1	20.0	24.5	17.8	17.8	22.3	26.7	22.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6533.6
6371.1
6415.7
6453.5
6509.1
6622.6
6814.0
7065.5
7341.4
7572.8
7695.2
7555.0
7414.8
7283.5
7145.6
6985.3
6811.8
6624.8
6420.1
6155.3
5803.7
5489.9
5178.4
4381.7
3516.0
2485.7
1281.8
763.3
594.2
485.1
362.7
280.4
220.3
82.3
44.5
22.3
0.0

(END OF REPORT)