

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: P637942

Luminaire Tested: **IFLD-M-SA4B-750-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19699.5 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

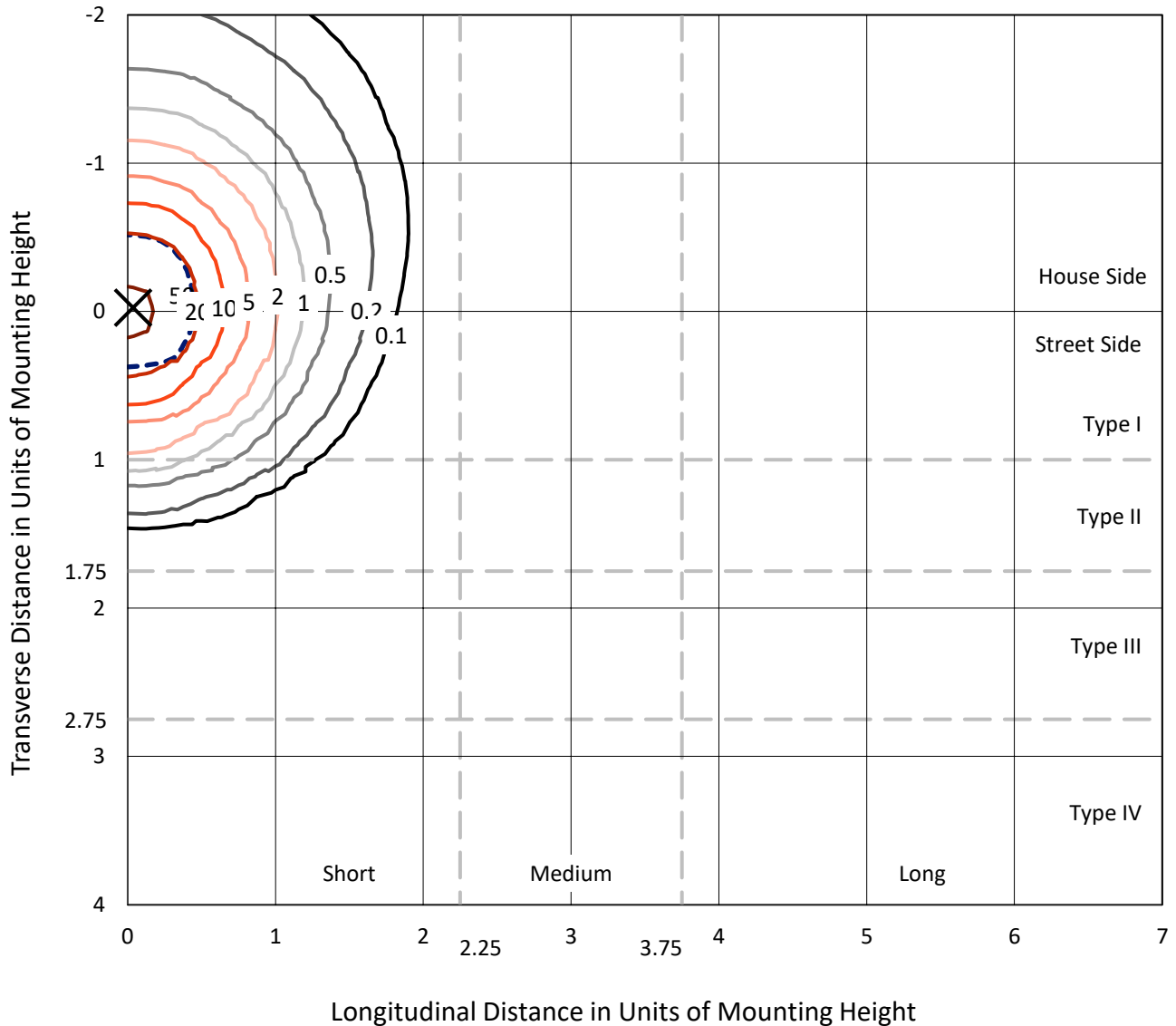
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637942
 CATALOG NUMBER: IFLD-M-SA4B-750-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

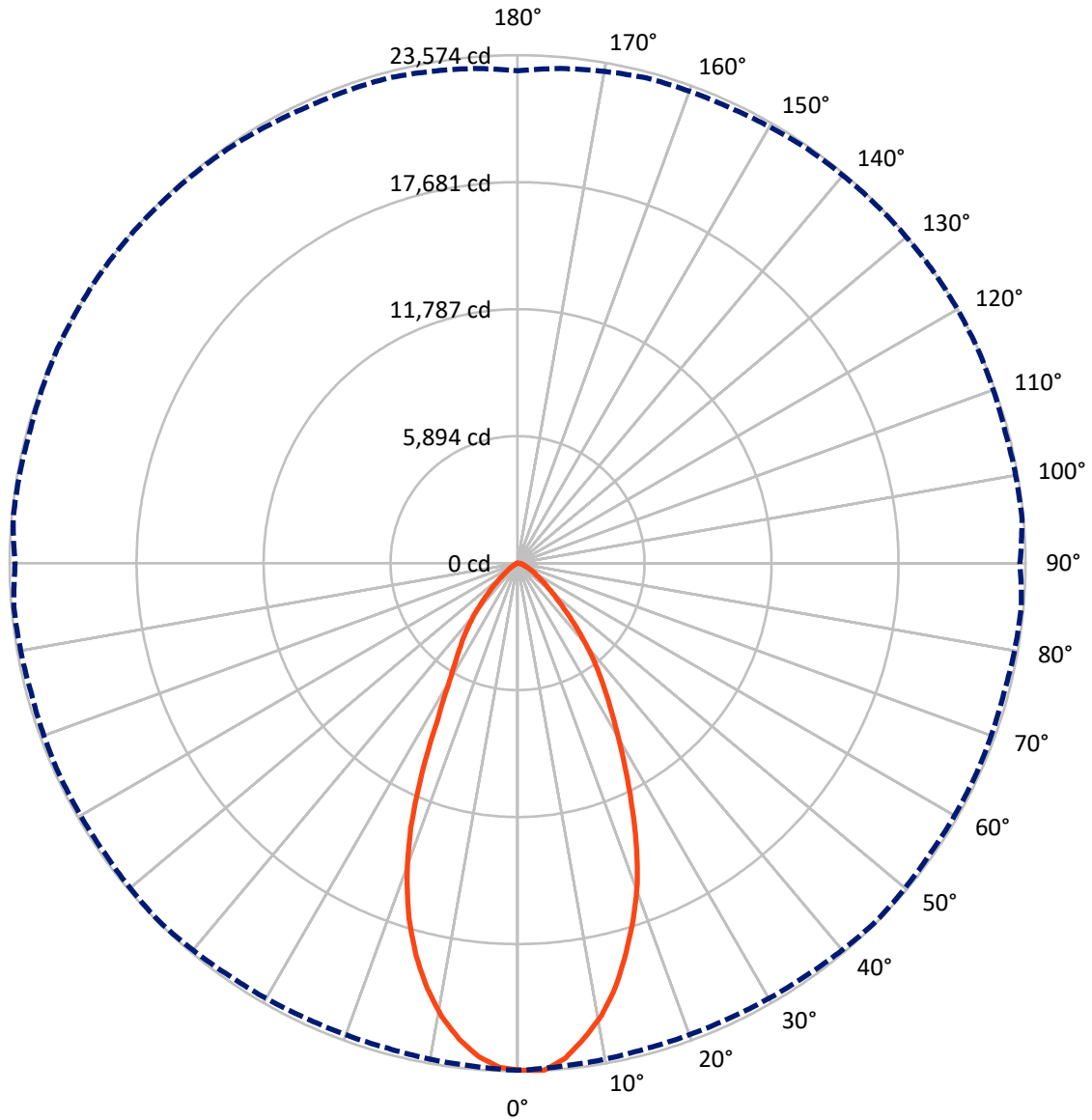
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58.8 fc
 Type I - Short - N/A

REPORT NUMBER: P637942
CATALOG NUMBER: IFLD-M-SA4B-750-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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CATALOG NUMBER: IFLD-M-SA4B-750-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11178.3	0.0	11178.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8521.2	0.0	8521.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	19699.5	0.0	19699.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2137.2	10.8
10°-20°	5094.5	25.9
20°-30°	5188.7	26.3
30°-40°	3869.2	19.6
40°-50°	2021.4	10.3
50°-60°	850.2	4.3
60°-70°	347.2	1.8
70°-80°	146.1	0.7
80°-90°	45.0	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°	19699.5	100.0
0°-180°	19699.5	100.0



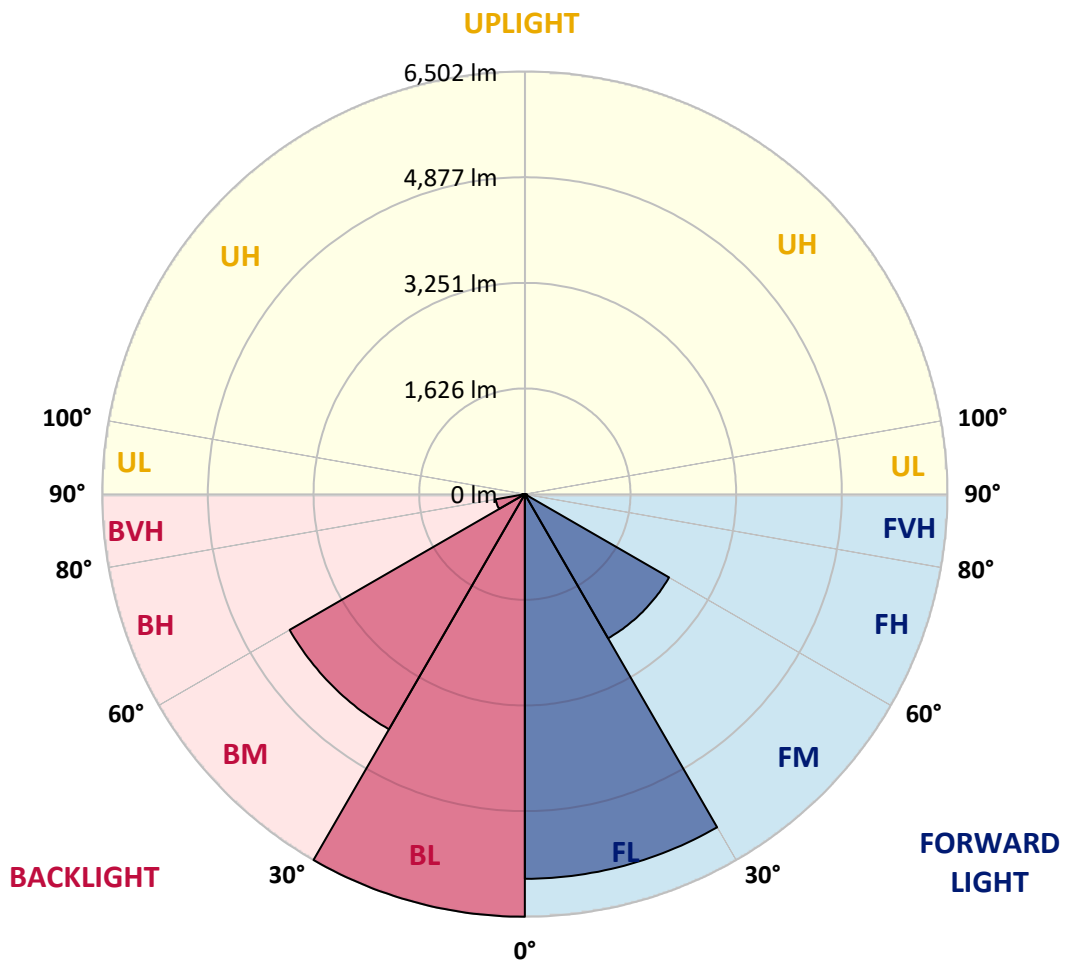
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5918.0	30.0			
FM (30°-60°)	2562.0	13.0			
FH (60°-80°)	37.1	0.2			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	6502.4	33.0	B5		
BM (30°-60°)	4178.7	21.2	B3/5000		
BH (60°-80°)	456.3	2.3	B1/500		G1/500
BVH (80°-90°)	40.8	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 I Short





REPORT NUMBER: P637942
 CATALOG NUMBER: IFLD-M-SA4B-750-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2
2.5°	23538.7	23442.5	23305.9	23293.2	23364.1	23518.4	23419.8	23424.8	23364.1	23467.8
5°	23169.2	23078.1	22984.5	22860.5	22964.3	23030.1	22979.4	22923.8	22845.3	22946.6
7.5°	22470.8	22420.2	22281.0	22225.4	22288.6	22362.0	22253.2	22238.0	22129.2	22260.8
10°	21402.9	21382.7	21246.1	21213.2	21268.8	21380.2	21332.1	21322.0	21253.6	21241.0
12.5°	20294.6	20216.1	20046.6	20036.5	20120.0	20287.0	20157.9	20033.9	20071.9	20104.8
15°	17440.2	17356.7	17776.7	18437.2	18783.9	18771.2	18809.2	18659.9	18614.3	18629.5
17.5°	13864.6	13722.9	13874.7	14897.0	16544.4	17500.9	17237.7	16916.4	16744.3	16630.4
20°	11966.7	11974.3	11946.5	12209.7	13237.0	15418.3	15355.1	14735.1	14509.9	14416.2
22.5°	10812.8	10769.8	10709.1	10792.6	11068.4	12348.8	13206.7	12637.3	12558.9	12455.1
25°	9681.7	9681.7	9608.3	9691.8	9770.3	9788.0	10648.3	10881.1	10729.3	10729.3
27.5°	8702.4	8651.8	8618.9	8656.8	8553.1	8054.6	8163.4	9355.2	9251.5	9188.2
30°	7730.7	7715.5	7659.8	7710.4	7325.8	6764.0	6536.3	7895.2	8004.0	7981.2
32.5°	6381.9	6442.6	6690.6	6769.1	6111.2	5658.2	5440.6	6554.0	6989.2	6971.5
35°	4337.3	4387.9	4671.3	5607.6	5066.1	4742.2	4678.9	5212.8	5929.0	5997.3
37.5°	3454.1	3446.5	3527.5	3694.5	4071.6	3993.1	3975.4	4114.6	4835.8	4866.1
40°	2846.8	2836.7	2834.2	2697.5	2603.9	3320.0	3271.9	3188.4	3813.5	3874.2
42.5°	2295.2	2305.3	2312.9	2014.3	1877.6	2560.9	2533.0	2447.0	2991.0	3061.9
45°	1801.7	1799.2	1814.4	1500.6	1462.6	1637.2	1892.8	1824.5	2257.2	2333.1
47.5°	933.8	966.7	1171.6	1161.5	1179.2	1161.5	1432.3	1414.5	1698.0	1819.4
50°	627.6	637.7	655.4	657.9	928.7	855.3	971.7	1100.8	1189.3	1376.6
52.5°	485.9	493.4	447.9	420.1	569.4	632.6	637.7	761.7	830.0	1019.8
55°	270.8	303.7	326.4	329.0	313.8	468.1	465.6	564.3	617.4	744.0
57.5°	35.4	43.0	65.8	212.6	210.0	260.6	326.4	409.9	440.3	544.1
60°	2.5	5.1	7.6	32.9	139.2	151.8	222.7	255.6	306.2	382.1
62.5°	0.0	0.0	2.5	7.6	27.8	88.6	116.4	134.1	179.7	250.5
65°	0.0	0.0	2.5	5.1	10.1	32.9	45.5	73.4	106.3	154.4
67.5°	0.0	0.0	2.5	5.1	7.6	12.7	20.2	32.9	55.7	93.6
70°	0.0	0.0	2.5	5.1	7.6	10.1	15.2	20.2	30.4	50.6
72.5°	0.0	0.0	2.5	2.5	5.1	12.7	12.7	15.2	20.2	27.8
75°	0.0	0.0	2.5	5.1	7.6	12.7	12.7	12.7	15.2	17.7
77.5°	0.0	0.0	2.5	5.1	7.6	12.7	10.1	12.7	12.7	12.7
80°	0.0	0.0	2.5	5.1	7.6	12.7	15.2	12.7	10.1	10.1
82.5°	0.0	0.0	2.5	7.6	7.6	17.7	17.7	17.7	7.6	7.6
85°	0.0	0.0	5.1	7.6	12.7	20.2	20.2	15.2	7.6	5.1
87.5°	0.0	0.0	2.5	5.1	5.1	10.1	15.2	12.7	5.1	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637942

CATALOG NUMBER: IFLD-M-SA4B-750-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23536.2	0°	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2	23536.2
23316.0	2.5°	23503.3	23440.0	23558.9	23574.1	23523.5	23460.2	23313.5	23300.8	23045.2
22799.8	5°	23057.9	22954.1	23030.1	23080.7	23063.0	22994.6	22933.9	22878.2	22648.0
21962.2	7.5°	22227.9	22189.9	22225.4	22263.3	22336.7	22263.3	22238.0	22179.8	21952.1
21137.2	10°	21306.8	21235.9	21370.1	21352.3	21332.1	21311.8	21205.6	21215.7	20947.5
20013.7	12.5°	20175.7	20056.7	20185.8	20201.0	20185.8	20114.9	19996.0	20046.6	19801.1
18495.4	15°	18654.8	18642.2	18735.8	18796.5	18839.6	18763.6	18723.2	18748.5	18601.7
16541.9	17.5°	16787.3	16951.8	17258.0	17361.7	17364.3	17442.7	17419.9	17389.6	17280.8
14378.3	20°	14590.8	14907.2	15377.8	15861.2	16000.3	15934.5	15904.2	15959.8	15797.9
12346.3	22.5°	12563.9	12834.7	13381.3	14087.3	14494.7	14535.2	14527.6	14479.5	14416.2
10719.2	25°	10843.2	11083.6	11607.4	12252.7	13034.6	13151.0	13156.1	13140.9	13085.2
9243.9	27.5°	9390.7	9681.7	9970.2	10547.1	11379.6	11860.4	11799.7	11782.0	11761.8
7998.9	30°	8074.8	8441.7	8712.5	9071.8	9818.3	10468.7	10531.9	10501.6	10453.5
6969.0	32.5°	7032.3	7249.9	7594.0	7837.0	8373.4	9109.8	9352.7	9329.9	9286.9
6040.3	35°	6126.3	6212.4	6483.1	6753.9	7110.7	7824.3	8183.6	8133.0	8125.4
4921.8	37.5°	5045.8	5334.3	5483.6	5756.9	6007.4	6561.6	7057.6	7034.8	7037.3
3957.7	40°	4074.1	4241.1	4537.2	4767.5	4997.7	5402.6	5954.3	5969.4	5964.4
3064.4	42.5°	3127.7	3289.6	3600.9	3851.4	4056.4	4306.9	4833.3	4851.0	4873.7
2386.3	45°	2441.9	2545.7	2773.4	3034.1	3251.7	3403.5	3803.3	3917.2	3919.7
1849.8	47.5°	1895.3	2014.3	2176.2	2426.7	2639.3	2748.1	3039.1	3193.5	3185.9
1419.6	50°	1487.9	1596.7	1728.3	1925.7	2156.0	2242.0	2457.1	2608.9	2601.4
1070.4	52.5°	1138.7	1277.9	1394.3	1546.1	1771.3	1844.7	1999.1	2173.7	2148.4
784.5	55°	862.9	1004.6	1113.4	1239.9	1444.9	1538.5	1644.8	1784.0	1789.1
607.3	57.5°	650.3	797.1	895.8	1024.9	1179.2	1283.0	1363.9	1513.2	1510.7
415.0	60°	465.6	592.1	711.1	845.2	964.1	1083.1	1138.7	1280.4	1285.5
293.5	62.5°	336.6	455.5	569.4	685.8	792.0	908.4	959.1	1070.4	1085.6
192.3	65°	235.3	318.8	450.4	539.0	657.9	744.0	809.8	905.9	923.6
113.9	67.5°	151.8	230.3	356.8	435.2	544.1	617.4	685.8	761.7	784.5
73.4	70°	91.1	174.6	265.7	349.2	447.9	513.7	579.5	645.3	657.9
35.4	72.5°	58.2	121.5	192.3	283.4	359.3	430.2	488.4	536.5	498.5
22.8	75°	32.9	83.5	151.8	222.7	291.0	359.3	407.4	432.7	346.7
15.2	77.5°	20.2	60.7	124.0	179.7	225.2	288.5	318.8	334.0	248.0
10.1	80°	12.7	45.5	103.8	146.8	146.8	212.6	248.0	260.6	179.7
7.6	82.5°	10.1	32.9	81.0	111.3	98.7	159.4	194.8	197.4	126.5
5.1	85°	7.6	25.3	50.6	73.4	68.3	111.3	113.9	126.5	83.5
5.1	87.5°	5.1	15.2	30.4	43.0	38.0	53.1	60.7	68.3	45.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23536.2
22845.3
22463.2
21904.0
20856.4
19730.3
18424.6
17118.8
15681.5
14294.8
12897.9
11642.8
10392.8
9173.1
8041.9
6956.3
5875.8
4797.8
3853.9
3158.1
2601.4
2150.9
1789.1
1505.6
1272.8
1080.5
918.6
781.9
647.8
463.1
329.0
232.8
167.0
116.4
75.9
40.5
0.0

(END OF REPORT)