

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: P636877

Luminaire Tested: **IFLD-L-SA7E-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636877
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26341.3 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

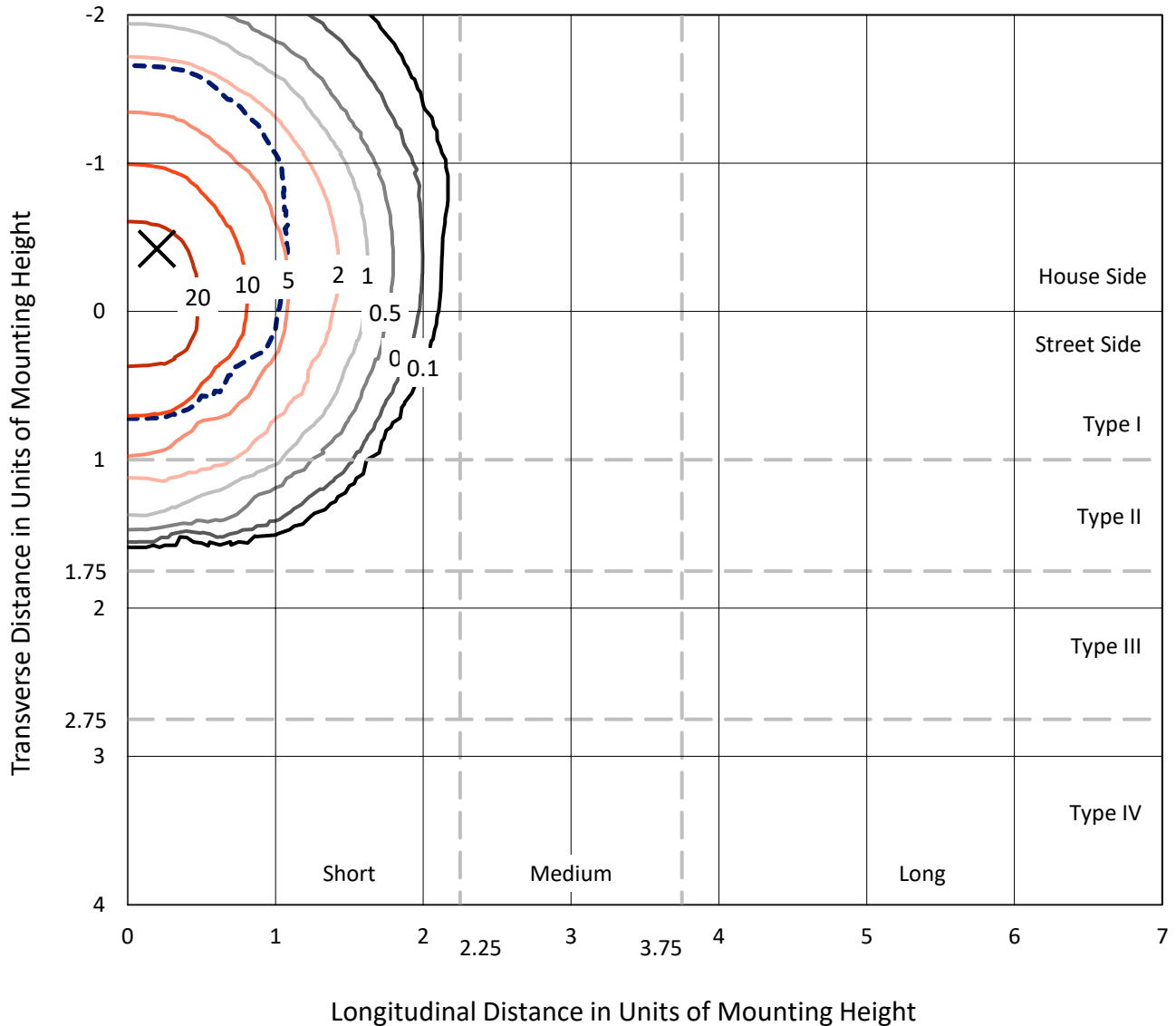
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

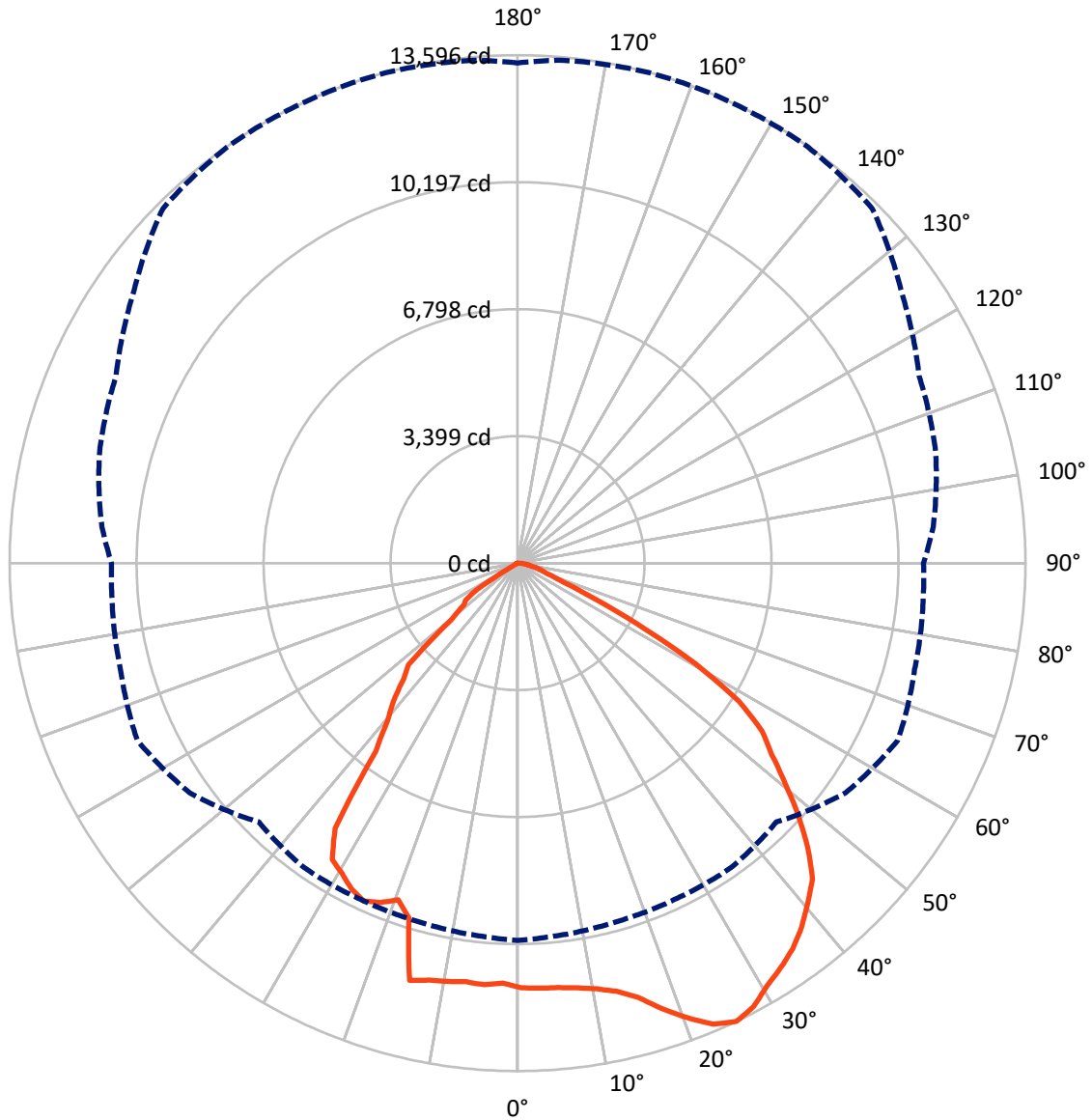
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.4 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	16307.9	0.0	16307.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10033.3	0.0	10033.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	26341.3	0.0	26341.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.4	4.1
10°-20°	3329.5	12.6
20°-30°	5263.7	20.0
30°-40°	5945.8	22.6
40°-50°	5568.4	21.1
50°-60°	3839.0	14.6
60°-70°	1031.4	3.9
70°-80°	214.9	0.8
80°-90°	58.1	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°	26341.3	100.0
0°-180°	26341.3	100.0



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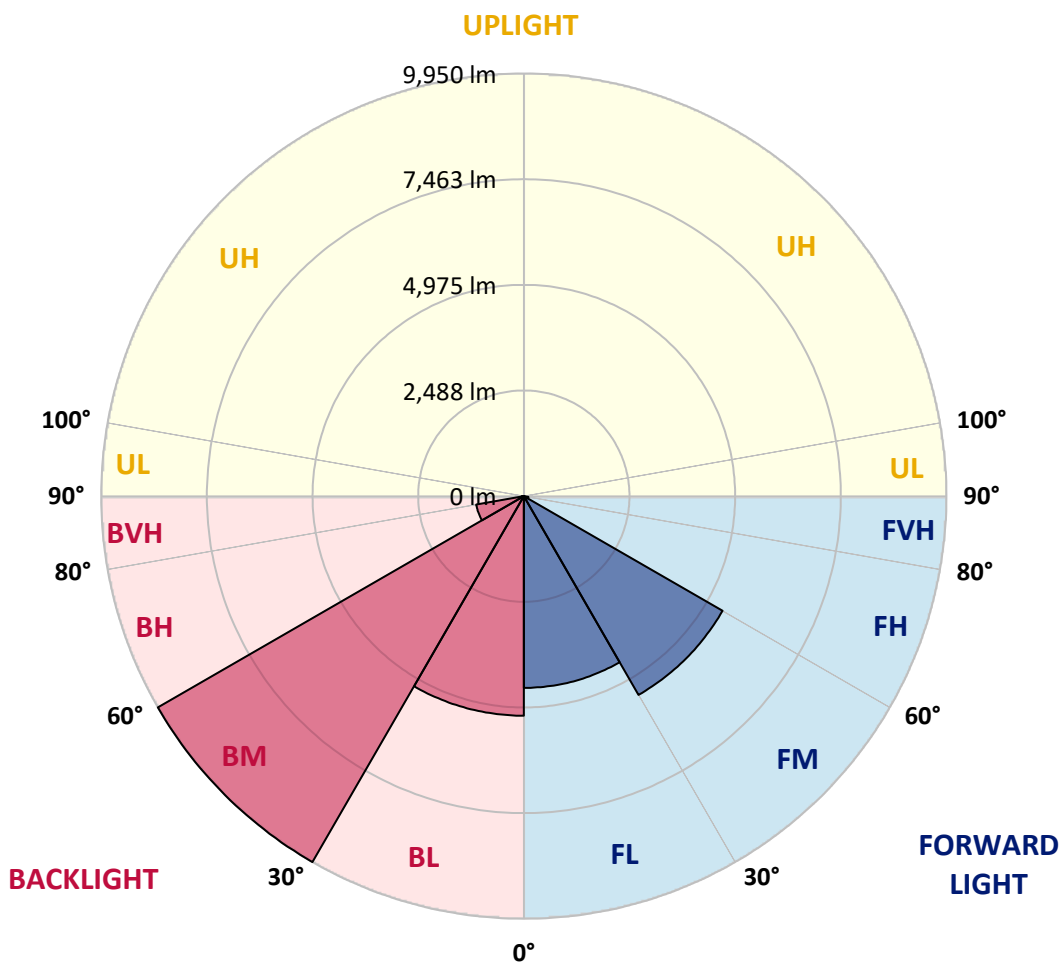
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4514.1	17.1			
FM (30°-60°)	5403.2	20.5			
FH (60°-80°)	108.3	0.4			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	5169.5	19.6	B5		
BM (30°-60°)	9950.0	37.8	B5		
BH (60°-80°)	1138.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.3	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8
2.5°	11416.1	11342.6	11272.9	11249.6	11346.4	11450.9	11385.1	11389.0	11365.8	11408.4
5°	11501.3	11400.6	11354.2	11319.3	11334.8	11443.2	11350.3	11385.1	11346.4	11396.7
7.5°	11470.3	11400.6	11354.2	11288.4	11338.7	11466.4	11377.4	11381.3	11361.9	11408.4
10°	11450.9	11400.6	11342.6	11350.3	11408.4	11516.8	11447.1	11485.8	11458.7	11485.8
12.5°	11497.4	11443.2	11412.2	11412.2	11462.6	11586.4	11551.6	11586.4	11574.8	11598.1
15°	11060.0	11110.3	11404.5	11536.1	11636.8	11760.6	11745.2	11780.0	11787.7	11822.6
17.5°	9329.5	9279.2	9256.0	9933.4	11733.5	12116.8	12105.2	12101.3	12062.6	12035.5
20°	9557.9	9538.6	9511.5	9561.8	9763.1	12302.6	12380.0	11903.9	11764.5	11752.9
22.5°	9921.8	9890.9	9790.2	9794.1	9856.0	10696.1	11996.8	11563.2	11516.8	11489.7
25°	10099.9	10038.0	9956.7	9933.4	9952.8	9798.0	10715.4	11230.3	11001.9	10897.4
27.5°	9786.3	9790.2	9724.4	9786.3	9712.8	9016.0	8625.0	10579.9	10572.2	10525.7
30°	9550.2	9538.6	9461.2	9538.6	9031.5	8253.4	8086.9	9867.6	9786.3	9724.4
32.5°	8826.3	8834.0	9058.6	9360.5	8528.2	7912.7	7409.4	8814.7	9585.0	9550.2
35°	6313.9	6329.4	7126.8	8617.2	7765.6	7235.2	7196.5	7618.5	9267.6	9283.1
37.5°	6077.8	6077.8	6058.4	6302.3	7165.6	6960.4	7037.8	6995.2	8489.5	8528.2
40°	5907.4	5872.6	5845.5	5462.2	4982.2	6766.8	6821.0	6627.5	8025.0	8032.7
42.5°	5702.2	5663.5	5671.3	4962.9	4459.6	6286.8	6135.8	5876.4	7250.7	7258.5
45°	5326.7	5392.6	5439.0	4343.5	4304.8	4490.6	5659.7	5497.1	6728.1	6871.3
47.5°	2709.8	2767.9	4246.7	3995.1	4084.1	3991.2	4780.9	4784.8	5597.7	6073.9
50°	2458.2	2442.7	2446.6	2330.4	3770.5	3228.6	3457.0	4386.0	4482.8	5164.2
52.5°	2291.7	2287.9	2051.7	1823.3	2369.2	2841.4	2508.5	3174.4	3333.1	4374.4
55°	1695.6	1819.5	1618.2	1714.9	1482.7	2276.3	2264.6	2864.7	2918.9	3507.3
57.5°	15.5	19.4	46.5	1304.6	1025.9	1138.1	1564.0	1954.9	2051.7	2733.1
60°	3.9	7.7	19.4	38.7	665.8	700.7	1045.2	1130.4	1273.6	1629.8
62.5°	0.0	0.0	7.7	19.4	34.8	286.5	332.9	363.9	561.3	832.3
65°	0.0	0.0	3.9	11.6	19.4	46.5	81.3	170.3	243.9	302.0
67.5°	0.0	0.0	3.9	7.7	15.5	23.2	46.5	65.8	104.5	178.1
70°	0.0	0.0	3.9	7.7	11.6	19.4	31.0	46.5	61.9	89.0
72.5°	0.0	0.0	3.9	7.7	7.7	23.2	23.2	34.8	46.5	58.1
75°	0.0	0.0	3.9	3.9	7.7	15.5	23.2	27.1	31.0	46.5
77.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.4	31.0	27.1	27.1
80°	0.0	0.0	3.9	11.6	11.6	19.4	23.2	31.0	19.4	19.4
82.5°	0.0	0.0	3.9	15.5	11.6	38.7	38.7	42.6	15.5	15.5
85°	0.0	0.0	11.6	7.7	23.2	38.7	34.8	23.2	19.4	11.6
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	27.1	23.2	7.7	7.7
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°
11365.8	0°	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8	11365.8
11296.1	2.5°	11450.9	11400.6	11505.1	11493.5	11443.2	11420.0	11392.9	11369.7	11199.3
11303.8	5°	11454.8	11377.4	11505.1	11481.9	11474.2	11435.5	11412.2	11447.1	11292.2
11334.8	7.5°	11454.8	11377.4	11516.8	11524.5	11512.9	11481.9	11478.0	11501.3	11373.5
11389.0	10°	11532.2	11501.3	11617.4	11629.0	11613.5	11605.8	11586.4	11571.0	11435.5
11574.8	12.5°	11694.8	11632.9	11764.5	11799.4	11787.7	11807.1	11760.6	11783.9	11644.5
11764.5	15°	11892.3	11896.1	11996.8	12074.2	12066.5	12128.4	12058.7	12120.7	12020.0
11981.3	17.5°	12194.2	12236.8	12380.0	12496.2	12538.7	12585.2	12538.7	12558.1	12414.9
11741.3	20°	11876.8	12035.5	12724.6	12937.5	13026.5	13069.1	12991.7	13014.9	12871.7
11447.1	22.5°	11590.3	11795.5	12407.1	13073.0	13347.8	13433.0	13405.9	13402.0	13347.8
10866.4	25°	11168.3	11582.6	11857.4	12562.0	13425.2	13580.1	13595.6	13591.7	13510.4
10510.2	27.5°	10649.6	10742.5	11454.8	11884.5	12883.3	13471.7	13448.5	13336.2	13227.8
9770.9	30°	9987.6	10409.6	10730.9	11416.1	12182.6	13138.8	13138.8	13053.6	12941.3
9507.6	32.5°	9650.8	10196.7	10494.8	10742.5	11396.7	12767.1	12922.0	12833.0	12743.9
9302.4	35°	9472.8	9554.1	10250.9	10475.4	11029.0	12051.0	12678.1	12589.1	12523.3
8756.6	37.5°	9081.8	9271.5	9596.7	10196.7	10367.0	11466.4	12352.9	12306.5	12229.1
8048.2	40°	8210.8	8717.9	9217.3	9786.3	9964.4	10715.4	11958.1	11977.4	11872.9
7293.3	42.5°	7695.9	8040.4	8822.4	9205.7	9685.7	10231.5	11574.8	11605.8	11532.2
6910.1	45°	7092.0	7475.2	8025.0	8721.8	9376.0	9565.7	10897.4	11222.5	11160.6
6147.4	47.5°	6538.4	6848.1	7521.7	8226.3	8950.2	8923.1	10119.3	10730.9	10645.7
5562.9	50°	5752.6	6294.5	6612.0	7258.5	8338.5	8412.1	9290.8	10154.1	10084.4
4726.7	52.5°	4850.6	5531.9	6139.7	6732.0	7719.1	7893.3	8520.5	9565.7	9519.2
3611.8	55°	4238.9	4734.5	5419.6	5895.8	6968.1	7432.7	7943.7	9004.4	8981.1
2969.2	57.5°	3015.6	3971.8	4537.0	5202.9	5768.1	6608.1	6987.5	7862.4	7645.6
1645.3	60°	2044.0	2493.0	3182.1	3898.3	4277.7	5117.7	5470.0	6170.7	6112.6
983.3	62.5°	1080.1	1494.3	1985.9	2345.9	2620.8	3437.6	3584.7	4339.6	4320.2
394.9	65°	476.2	631.0	1076.2	1262.0	1544.6	1924.0	2051.7	2322.7	2256.9
193.6	67.5°	247.8	375.5	607.8	747.1	940.7	1083.9	1188.5	1273.6	1327.8
127.7	70°	151.0	274.9	375.5	518.7	646.5	762.6	843.9	960.1	1029.7
65.8	72.5°	112.3	174.2	259.4	398.7	468.4	603.9	685.2	770.4	832.3
54.2	75°	61.9	116.1	209.0	313.6	375.5	491.6	565.2	623.3	642.6
31.0	77.5°	38.7	89.0	174.2	243.9	294.2	398.7	379.4	433.6	480.0
23.2	80°	27.1	65.8	135.5	201.3	205.2	255.5	302.0	348.4	379.4
15.5	82.5°	19.4	54.2	100.7	154.8	135.5	197.4	236.1	271.0	197.4
11.6	85°	15.5	38.7	50.3	92.9	77.4	139.4	120.0	116.1	77.4
7.7	87.5°	11.6	19.4	34.8	42.6	31.0	31.0	38.7	46.5	38.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11365.8
11083.2
11160.6
11226.4
11323.2
11520.6
11853.5
12291.0
12771.0
13173.6
13386.5
13142.7
12898.8
12670.4
12430.4
12151.6
11849.7
11524.5
11168.3
10707.7
10096.0
9550.2
9008.2
7622.4
6116.5
4324.1
2229.8
1327.8
1033.6
843.9
631.0
487.8
383.2
143.2
77.4
38.7
0.0

(END OF REPORT)