

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: P481304

Luminaire Tested: **IFLD-L-SA7D-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481304
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

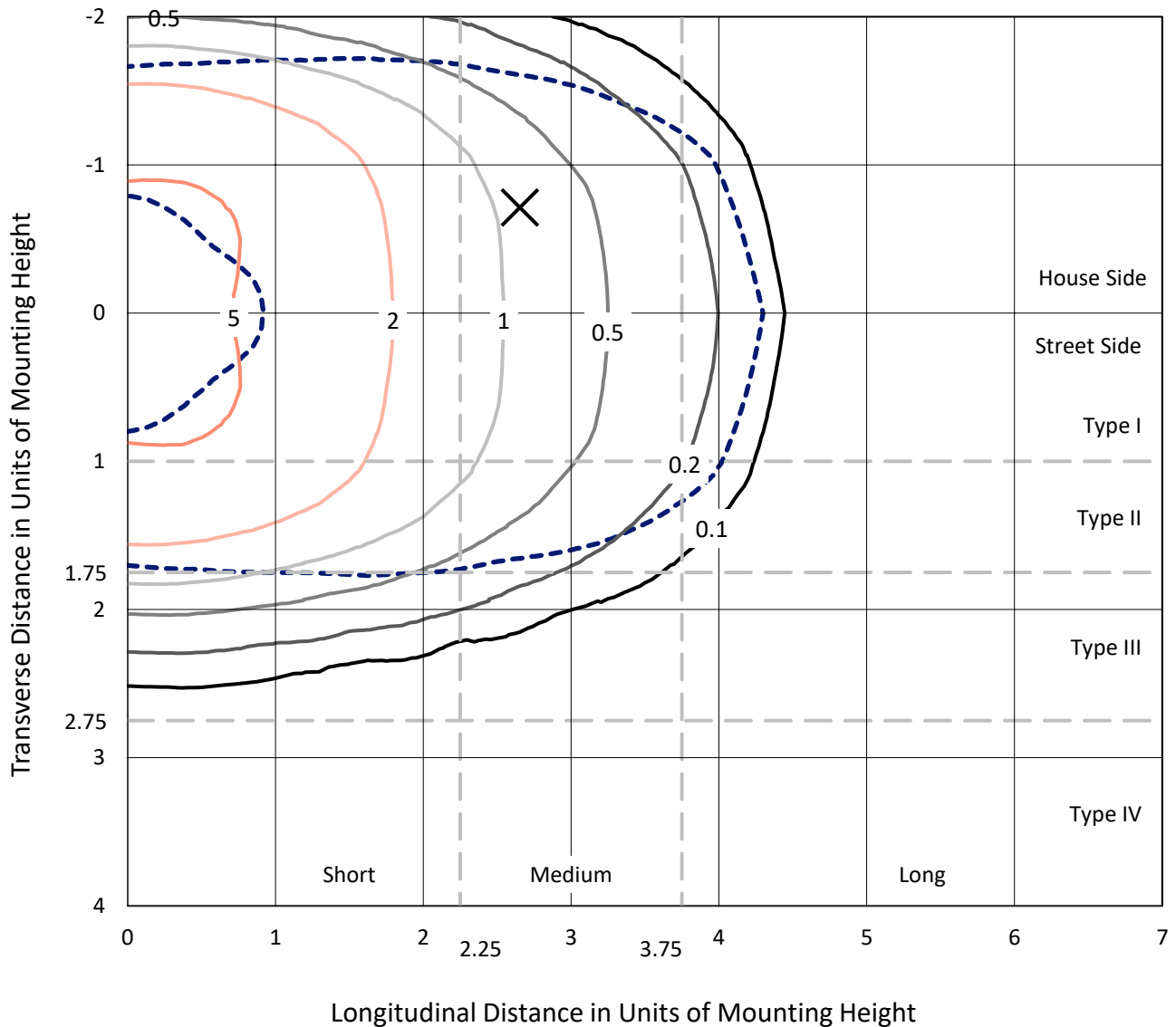
Lumens per Lamp: N/A
Luminaire Lumens: 50243.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 422.6
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

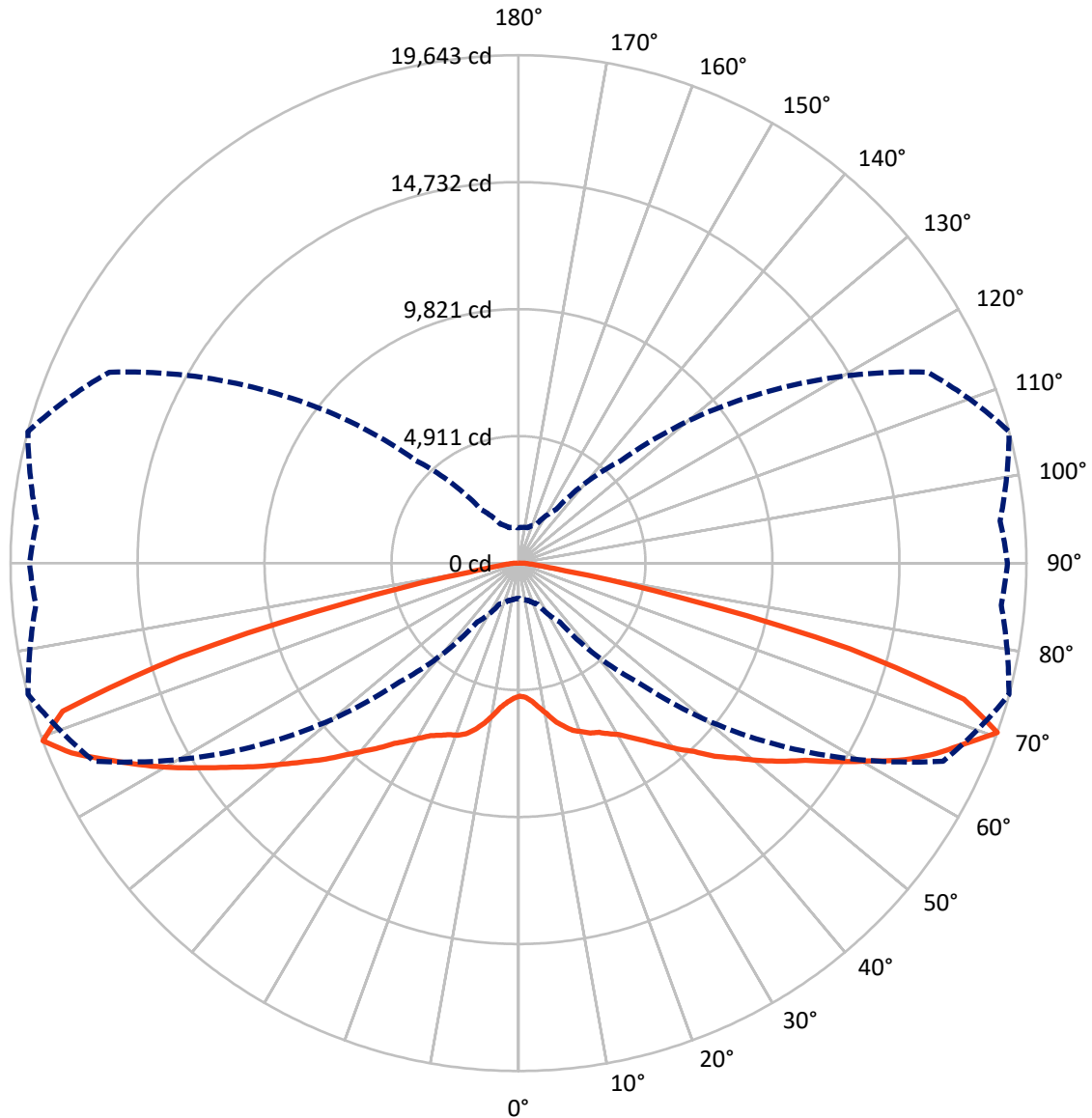
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24943.2	0.0	24943.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	25300.6	0.0	25300.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	50243.8	0.0	50243.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.1	1.0
10°-20°	1743.6	3.5
20°-30°	3376.3	6.7
30°-40°	5710.7	11.4
40°-50°	9110.2	18.1
50°-60°	12469.9	24.8
60°-70°	11753.7	23.4
70°-80°	5177.8	10.3
80°-90°	389.6	0.8
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°	50243.8	100.0
0°-180°	50243.8	100.0

Coefficient of Utilization



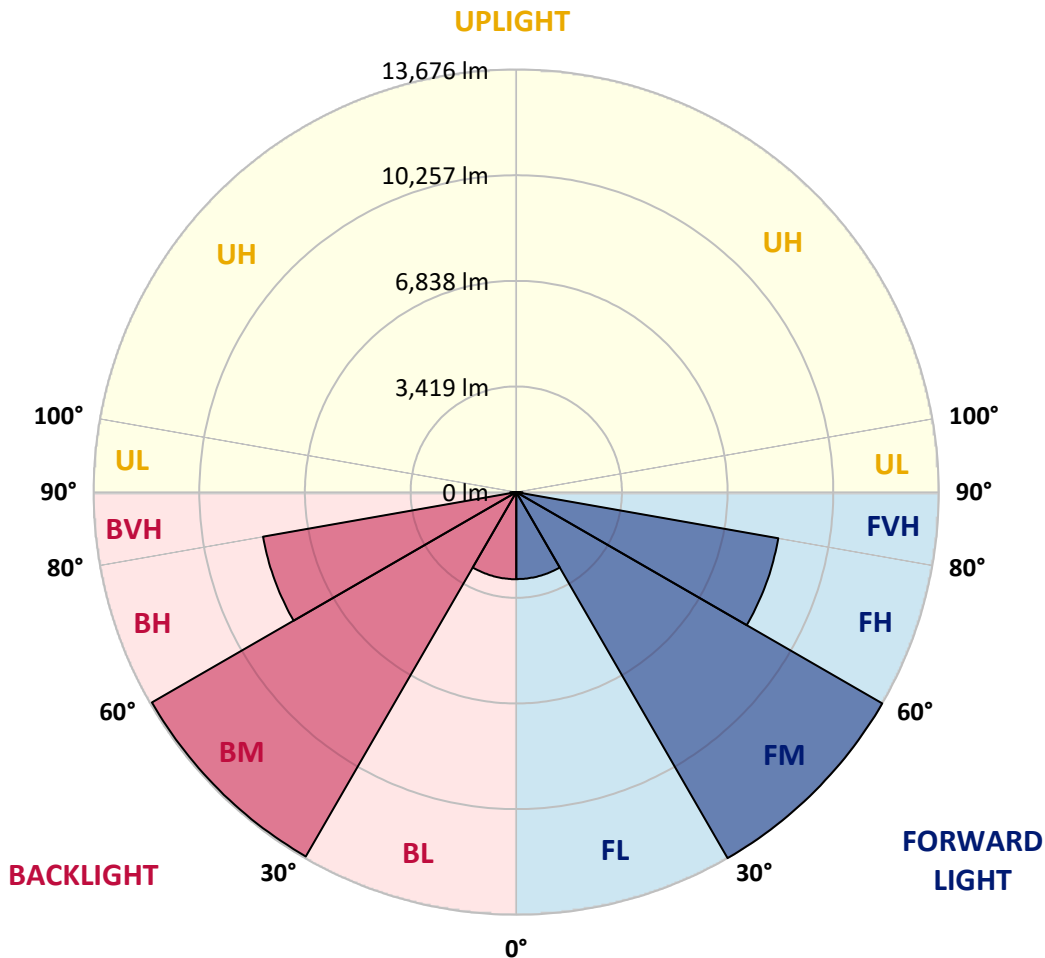
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2814.5	5.6			
FM (30°-60°)	13675.9	27.2			
FH (60°-80°)	8611.2	17.1			G4/12000
FVH (80°-90°)	199.0	0.4			G2/225
BL (0°-30°)	2817.5	5.6	B4/5000		
BM (30°-60°)	13614.8	27.1	B5		
BH (60°-80°)	8320.3	16.6	B5		G5
BVH (80°-90°)	190.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9
2.5°	5112.4	5112.4	5107.0	5134.1	5161.2	5172.0	5193.7	5199.1	5231.6	5204.5	5258.6
5°	5096.2	5090.8	5134.1	5199.1	5199.1	5269.5	5312.8	5372.4	5388.6	5421.1	5431.9
7.5°	5209.9	5199.1	5177.4	5247.8	5307.4	5415.7	5475.3	5578.2	5616.1	5659.4	5708.1
10°	5280.3	5280.3	5258.6	5383.2	5437.4	5583.6	5713.6	5816.5	5962.7	6011.4	6016.8
12.5°	5291.1	5307.4	5372.4	5534.8	5686.5	5876.0	5973.5	6168.5	6314.7	6406.8	6439.3
15°	5453.6	5421.1	5491.5	5713.6	5935.6	6103.5	6276.8	6417.6	6628.8	6748.0	6823.8
17.5°	5599.8	5567.3	5697.3	5962.7	6190.1	6450.1	6601.7	6753.4	6905.0	7013.3	7018.7
20°	5832.7	5859.8	5973.5	6260.5	6558.4	6785.9	6959.2	6986.3	7062.1	7219.1	7192.0
22.5°	6119.7	6098.1	6336.4	6650.5	6975.4	7165.0	7262.5	7192.0	7154.1	7322.0	7359.9
25°	6406.8	6471.8	6688.4	6980.8	7370.8	7625.3	7652.4	7457.4	7316.6	7376.2	7359.9
27.5°	6845.4	6856.3	7083.7	7430.3	7825.7	8047.7	8031.5	7755.3	7484.5	7489.9	7500.7
30°	7408.7	7354.5	7603.6	7917.8	8307.7	8508.1	8535.1	8139.8	7776.9	7668.6	7695.7
32.5°	7950.2	8015.2	8231.9	8589.3	8876.3	8990.1	8930.5	8578.5	8107.3	7961.1	7977.3
35°	8643.5	8632.6	8930.5	9233.8	9450.4	9472.1	9423.3	8908.8	8464.7	8275.2	8199.4
37.5°	9385.4	9482.9	9677.9	9927.0	10154.4	10165.3	9899.9	9488.3	8941.3	8627.2	8719.3
40°	10214.0	10322.3	10463.1	10826.0	10993.9	10820.6	10549.8	9992.0	9423.3	9147.1	9190.4
42.5°	10945.1	10993.9	11280.9	11708.7	11790.0	11714.2	11313.4	10636.4	9975.7	9672.4	9694.1
45°	11616.7	11681.7	12055.3	12439.9	12629.4	12499.4	12033.7	11389.2	10620.2	10360.2	10257.3
47.5°	12234.1	12364.0	12726.9	13122.2	13414.7	13425.5	12851.5	12071.6	11259.2	10918.0	10912.6
50°	12651.1	12840.6	13198.1	13647.6	14075.4	14243.3	13669.2	12829.8	11957.9	11595.0	11557.1
52.5°	12878.5	13073.5	13430.9	14129.6	14606.1	14866.1	14595.3	13539.2	12775.6	12396.5	12337.0
55°	12602.3	12732.3	13317.2	14297.4	15034.0	15461.8	15283.1	14519.5	13588.0	13279.3	13333.4
57.5°	11427.1	11697.9	12418.2	13642.1	15023.1	16073.8	16057.5	15445.6	14524.9	14232.5	14243.3
60°	9407.1	9634.5	10522.7	12234.1	14416.6	16322.9	16897.0	16344.6	15575.5	15234.4	15223.5
62.5°	6639.6	6926.7	7955.7	9824.1	12629.4	15976.3	17861.0	17476.5	16604.5	16355.4	16447.5
65°	3715.2	3888.5	4841.6	6531.3	9623.7	14070.0	18034.3	18651.7	17649.8	17270.7	17286.9
67.5°	1987.6	2052.5	2496.6	3428.1	5886.9	10847.6	16285.0	19328.6	18781.6	18126.3	18023.4
70°	1364.8	1386.4	1500.1	1754.7	2783.7	6488.0	12282.8	18120.9	19631.9	18738.3	18911.6
72.5°	1153.5	1142.7	1169.8	1196.9	1456.8	2902.8	7208.3	13945.4	18532.5	18196.7	18131.8
75°	1001.9	996.5	1007.3	980.2	1012.7	1278.1	3189.8	8692.2	13566.3	15142.3	15386.0
77.5°	828.6	834.0	839.4	812.4	801.5	844.8	1283.5	3818.1	6677.6	7370.8	7950.2
80°	628.2	639.1	682.4	655.3	612.0	617.4	758.2	1278.1	1917.2	1738.4	1792.6
82.5°	427.8	433.3	525.3	492.8	460.3	417.0	487.4	660.7	747.4	568.6	498.2
85°	303.3	297.9	341.2	314.1	292.4	211.2	292.4	373.7	449.5	281.6	254.5
87.5°	70.4	70.4	140.8	113.7	108.3	86.7	113.7	146.2	195.0	124.6	113.7
90°	0.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9	5144.9
2.5°	5242.4	5193.7	5193.7	5182.8	5139.5	5128.7	5090.8	5101.6	5074.5	5047.4
5°	5426.5	5361.5	5361.5	5269.5	5182.8	5172.0	5128.7	5128.7	5085.3	5096.2
7.5°	5681.1	5621.5	5524.0	5442.8	5323.6	5274.9	5193.7	5182.8	5172.0	5150.3
10°	5984.3	5908.5	5811.0	5643.2	5545.7	5453.6	5372.4	5258.6	5231.6	5237.0
12.5°	6395.9	6276.8	6065.6	5919.4	5794.8	5675.7	5556.5	5388.6	5350.7	5367.0
15°	6688.4	6536.7	6325.5	6271.4	6103.5	5957.3	5762.3	5572.8	5507.8	5491.5
17.5°	6926.7	6802.1	6677.6	6596.3	6460.9	6282.2	6011.4	5794.8	5648.6	5632.3
20°	7121.6	6959.2	6932.1	6980.8	6812.9	6693.8	6363.4	6098.1	5903.1	5821.9
22.5°	7240.8	7137.9	7213.7	7257.0	7246.2	7045.8	6704.6	6395.9	6152.2	6076.4
25°	7370.8	7251.6	7522.4	7668.6	7706.5	7376.2	7110.8	6704.6	6466.3	6417.6
27.5°	7435.8	7479.1	7793.2	8101.9	8074.8	7820.3	7462.8	7100.0	6910.4	6823.8
30°	7625.3	7695.7	8172.3	8518.9	8524.3	8275.2	8004.4	7592.8	7381.6	7343.7
32.5°	7966.5	8053.1	8562.2	8930.5	8995.5	8805.9	8535.1	8280.6	8064.0	7977.3
35°	8226.4	8448.5	9022.6	9358.3	9531.6	9417.9	9266.3	9000.9	8773.4	8697.6
37.5°	8600.1	8908.8	9461.2	9916.1	10111.1	10100.3	9986.5	9699.5	9510.0	9445.0
40°	9136.3	9445.0	9948.6	10549.8	10912.6	10896.4	10831.4	10609.4	10327.7	10295.2
42.5°	9704.9	9959.5	10614.8	11302.6	11822.5	11768.3	11595.0	11335.1	11140.1	11096.8
45°	10257.3	10652.7	11259.2	12142.0	12531.9	12667.3	12461.5	12017.4	11795.4	11768.3
47.5°	10950.5	11264.7	12022.8	12813.5	13393.0	13414.7	13062.7	12651.1	12244.9	12331.5
50°	11567.9	11984.9	12754.0	13620.5	14313.7	14064.6	13615.1	13100.6	12808.1	12694.4
52.5°	12228.6	12737.7	13631.3	14514.1	14898.6	14649.5	13918.3	13344.3	12900.2	12851.5
55°	13192.6	13458.0	14627.8	15304.8	15429.3	14904.0	13826.3	13013.9	12439.9	12299.1
57.5°	14172.9	14481.6	15505.1	16090.0	15960.1	14763.2	13230.6	11974.1	11221.3	11020.9
60°	15164.0	15543.1	16404.1	16940.3	16268.8	13793.8	11546.3	9927.0	9049.6	8870.9
62.5°	16268.8	16761.6	17530.6	17720.2	15353.5	11876.6	9163.4	7165.0	6276.8	5978.9
65°	17249.0	17752.7	18700.4	17557.7	13409.3	8860.1	5924.8	4094.3	3439.0	3200.7
67.5°	18055.9	18624.6	19090.3	15537.6	9818.7	5188.2	3086.9	2155.4	1911.7	1825.1
70°	18695.0	19642.7	17465.6	11421.7	5610.7	2529.1	1668.0	1418.9	1386.4	1364.8
72.5°	18137.2	18012.6	13041.0	6590.9	2458.7	1391.8	1207.7	1169.8	1164.4	1169.8
75°	14833.6	13230.6	7798.6	2864.9	1234.8	1007.3	1001.9	985.7	1012.7	1012.7
77.5°	7197.5	6293.0	3260.3	1229.4	812.4	790.7	817.8	817.8	817.8	817.8
80°	1668.0	1846.8	1164.4	747.4	590.3	590.3	649.9	655.3	628.2	617.4
82.5°	568.6	758.2	639.1	471.2	389.9	438.7	492.8	503.7	417.0	422.4
85°	281.6	444.1	346.6	270.8	200.4	270.8	319.5	335.8	287.0	276.2
87.5°	130.0	195.0	130.0	92.1	70.4	97.5	92.1	75.8	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)