

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: P481191

Luminaire Tested: **IFLD-L-SA8C-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481191
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

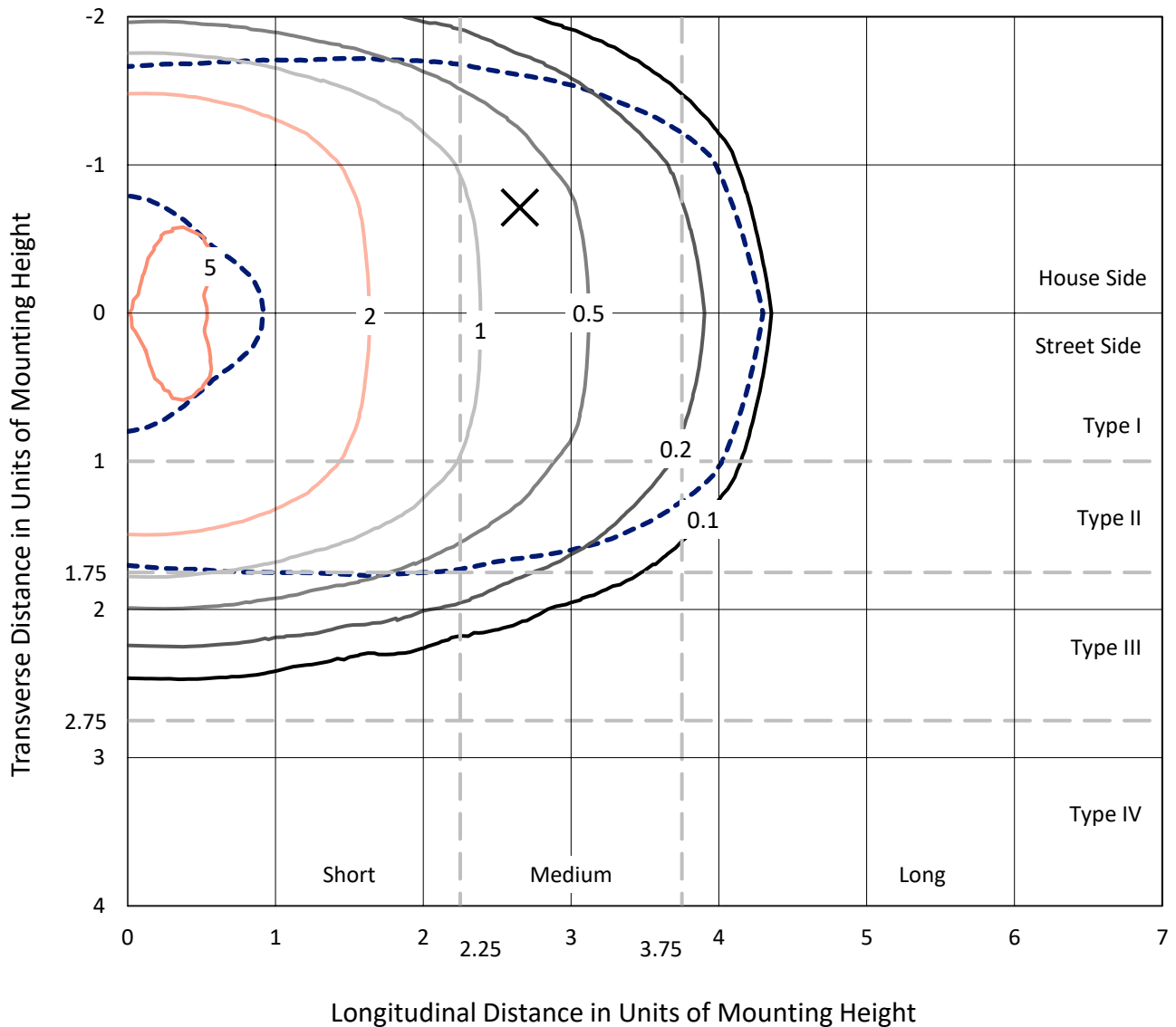
Lumens per Lamp: N/A
Luminaire Lumens: 43642.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 420.3
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

REPORT NUMBER: P481191
 CATALOG NUMBER: IFLD-L-SA8C-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

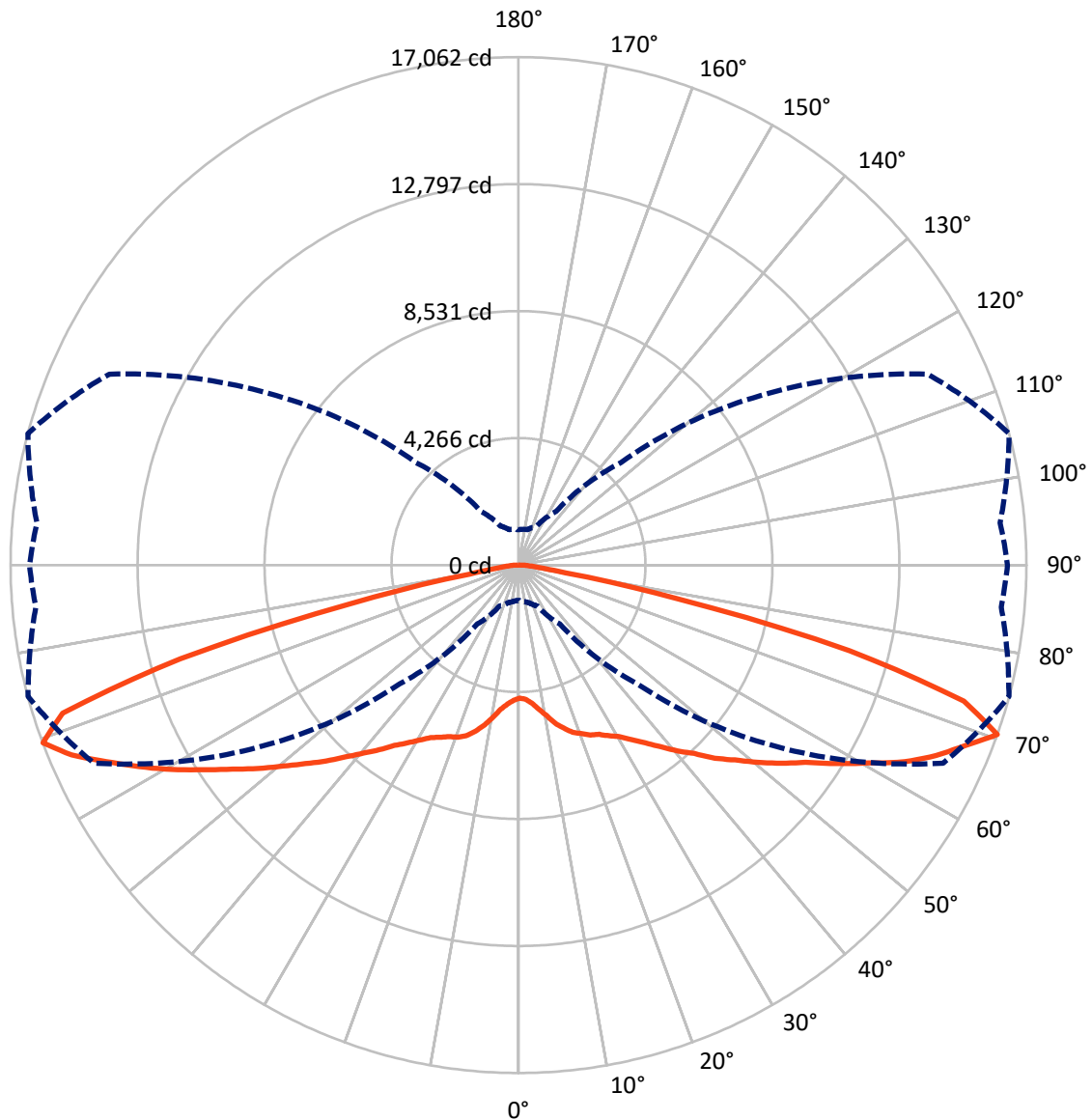
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481191
CATALOG NUMBER: IFLD-L-SA8C-727-U-RW

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	21666.0	0.0	21666.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21976.5	0.0	21976.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	43642.6	0.0	43642.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.8	1.0
10°-20°	1514.5	3.5
20°-30°	2932.7	6.7
30°-40°	4960.4	11.4
40°-50°	7913.3	18.1
50°-60°	10831.5	24.8
60°-70°	10209.4	23.4
70°-80°	4497.5	10.3
80°-90°	338.4	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°	43642.6	100.0
0°-180°	43642.6	100.0

Coefficient of Utilization

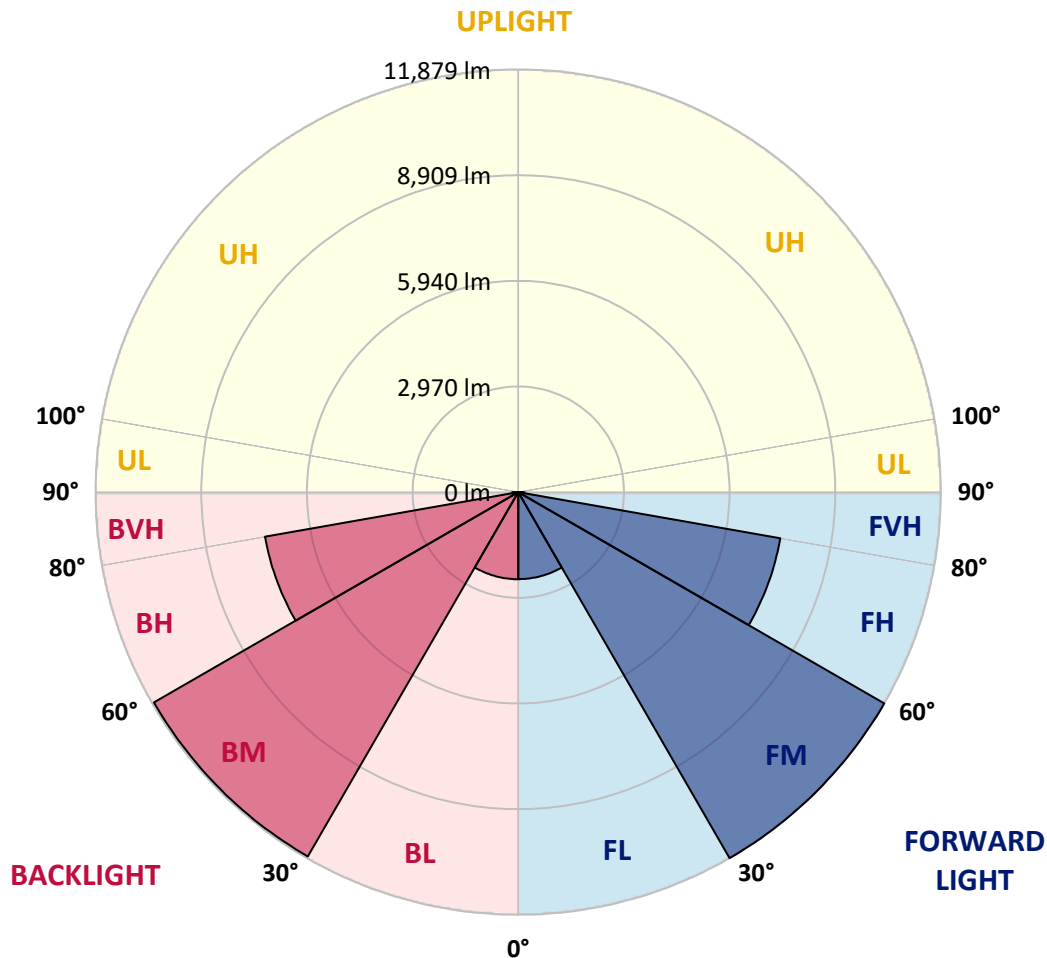


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.7	5.6			
FM (30°-60°)	11879.1	27.2			
FH (60°-80°)	7479.9	17.1			G3/7500
FVH (80°-90°)	172.9	0.4			G2/225
BL (0°-30°)	2447.3	5.6	B3/2500		
BM (30°-60°)	11826.0	27.1	B5		
BH (60°-80°)	7227.1	16.6	B5		G5
BVH (80°-90°)	165.5	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





REPORT NUMBER: P481191

CATALOG NUMBER: IFLD-L-SA8C-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0
2.5°	4440.7	4440.7	4436.0	4459.5	4483.1	4492.5	4511.3	4516.0	4544.2	4520.7	4567.7
5°	4426.6	4421.9	4459.5	4516.0	4516.0	4577.1	4614.8	4666.5	4680.6	4708.9	4718.3
7.5°	4525.4	4516.0	4497.2	4558.3	4610.1	4704.2	4755.9	4845.3	4878.2	4915.8	4958.2
10°	4586.6	4586.6	4567.7	4675.9	4723.0	4850.0	4962.9	5052.3	5179.3	5221.6	5226.3
12.5°	4596.0	4610.1	4666.5	4807.7	4939.4	5104.0	5188.7	5358.0	5485.1	5565.0	5593.2
15°	4737.1	4708.9	4770.0	4962.9	5155.8	5301.6	5452.1	5574.4	5757.9	5861.4	5927.2
17.5°	4864.1	4835.9	4948.8	5179.3	5376.9	5602.7	5734.4	5866.1	5997.8	6091.9	6096.6
20°	5066.4	5089.9	5188.7	5438.0	5696.7	5894.3	6044.8	6068.4	6134.2	6270.6	6247.1
22.5°	5315.7	5296.9	5503.9	5776.7	6059.0	6223.6	6308.3	6247.1	6214.2	6360.0	6393.0
25°	5565.0	5621.5	5809.6	6063.7	6402.4	6623.5	6647.0	6477.6	6355.3	6407.1	6393.0
27.5°	5946.1	5955.5	6153.0	6454.1	6797.5	6990.4	6976.3	6736.4	6501.2	6505.9	6515.3
30°	6435.3	6388.3	6604.6	6877.5	7216.2	7390.2	7413.8	7070.4	6755.2	6661.1	6684.6
32.5°	6905.7	6962.2	7150.3	7460.8	7710.1	7808.9	7757.2	7451.4	7042.1	6915.1	6929.2
35°	7507.8	7498.4	7757.2	8020.6	8208.8	8227.6	8185.2	7738.3	7352.6	7188.0	7122.1
37.5°	8152.3	8237.0	8406.3	8622.7	8820.3	8829.7	8599.2	8241.7	7766.6	7493.7	7573.7
40°	8872.0	8966.1	9088.4	9403.6	9549.4	9398.9	9163.7	8679.2	8185.2	7945.3	7983.0
42.5°	9507.1	9549.4	9798.8	10170.4	10241.0	10175.1	9827.0	9239.0	8665.1	8401.6	8420.4
45°	10090.4	10146.9	10471.5	10805.5	10970.1	10857.2	10452.6	9892.9	9224.9	8999.1	8909.7
47.5°	10626.7	10739.6	11054.8	11398.2	11652.2	11661.6	11163.0	10485.6	9780.0	9483.6	9478.9
50°	10988.9	11153.6	11464.0	11854.5	12226.1	12371.9	11873.3	11144.2	10386.8	10071.6	10038.7
52.5°	11186.5	11355.8	11666.3	12273.2	12687.1	12912.9	12677.7	11760.4	11097.1	10767.8	10716.1
55°	10946.6	11059.5	11567.5	12419.0	13058.8	13430.4	13275.1	12611.9	11802.7	11534.6	11581.6
57.5°	9925.8	10161.0	10786.6	11849.8	13049.3	13962.0	13947.8	13416.3	12616.6	12362.5	12371.9
60°	8171.1	8368.7	9140.2	10626.7	12522.5	14178.3	14677.0	14197.2	13529.2	13232.8	13223.4
62.5°	5767.3	6016.6	6910.4	8533.3	10970.1	13877.3	15514.3	15180.3	14423.0	14206.6	14286.5
65°	3227.1	3377.6	4205.5	5673.2	8359.3	12221.4	15664.9	16201.1	15330.9	15001.6	15015.7
67.5°	1726.4	1782.9	2168.6	2977.7	5113.4	9422.4	14145.4	16789.2	16314.0	15744.8	15655.5
70°	1185.4	1204.3	1303.1	1524.1	2417.9	5635.6	10669.0	15740.1	17052.6	16276.4	16426.9
72.5°	1002.0	992.6	1016.1	1039.6	1265.4	2521.4	6261.2	12113.2	16097.6	15806.0	15749.5
75°	870.3	865.6	875.0	851.5	879.7	1110.2	2770.8	7550.2	11783.9	13152.8	13364.5
77.5°	719.7	724.4	729.1	705.6	696.2	733.8	1114.9	3316.4	5800.2	6402.4	6905.7
80°	545.7	555.1	592.7	569.2	531.6	536.3	658.6	1110.2	1665.3	1510.0	1557.1
82.5°	371.6	376.3	456.3	428.1	399.9	362.2	423.4	573.9	649.2	493.9	432.8
85°	263.4	258.7	296.4	272.8	254.0	183.5	254.0	324.6	390.4	244.6	221.1
87.5°	61.2	61.2	122.3	98.8	94.1	75.3	98.8	127.0	169.3	108.2	98.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481191

CATALOG NUMBER: IFLD-L-SA8C-727-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0	4469.0
2.5°	4553.6	4511.3	4511.3	4501.9	4464.2	4454.8	4421.9	4431.3	4407.8	4384.3
5°	4713.6	4657.1	4657.1	4577.1	4501.9	4492.5	4454.8	4454.8	4417.2	4426.6
7.5°	4934.7	4882.9	4798.2	4727.7	4624.2	4581.9	4511.3	4501.9	4492.5	4473.7
10°	5198.1	5132.2	5047.6	4901.7	4817.1	4737.1	4666.5	4567.7	4544.2	4548.9
12.5°	5555.6	5452.1	5268.7	5141.6	5033.5	4930.0	4826.5	4680.6	4647.7	4661.8
15°	5809.6	5677.9	5494.5	5447.4	5301.6	5174.6	5005.2	4840.6	4784.1	4770.0
17.5°	6016.6	5908.4	5800.2	5729.7	5612.1	5456.8	5221.6	5033.5	4906.4	4892.3
20°	6186.0	6044.8	6021.3	6063.7	5917.8	5814.3	5527.4	5296.9	5127.5	5057.0
22.5°	6289.5	6200.1	6265.9	6303.6	6294.2	6120.1	5823.8	5555.6	5343.9	5278.1
25°	6402.4	6298.9	6534.1	6661.1	6694.0	6407.1	6176.6	5823.8	5616.8	5574.4
27.5°	6458.8	6496.4	6769.3	7037.4	7013.9	6792.8	6482.3	6167.2	6002.5	5927.2
30°	6623.5	6684.6	7098.6	7399.6	7404.4	7188.0	6952.8	6595.2	6411.8	6378.8
32.5°	6919.8	6995.1	7437.3	7757.2	7813.6	7649.0	7413.8	7192.7	7004.5	6929.2
35°	7145.6	7338.5	7837.1	8128.8	8279.3	8180.5	8048.8	7818.3	7620.7	7554.9
37.5°	7470.2	7738.3	8218.2	8613.3	8782.7	8773.3	8674.5	8425.2	8260.5	8204.1
40°	7935.9	8204.1	8641.5	9163.7	9478.9	9464.8	9408.3	9215.5	8970.8	8942.6
42.5°	8429.9	8651.0	9220.2	9817.6	10269.2	10222.1	10071.6	9845.8	9676.5	9638.8
45°	8909.7	9253.1	9780.0	10546.7	10885.4	11003.0	10824.3	10438.5	10245.7	10222.1
47.5°	9511.8	9784.7	10443.2	11130.0	11633.4	11652.2	11346.4	10988.9	10636.1	10711.4
50°	10048.1	10410.3	11078.3	11831.0	12433.1	12216.7	11826.3	11379.4	11125.3	11026.6
52.5°	10622.0	11064.2	11840.4	12607.2	12941.1	12724.8	12089.7	11591.1	11205.3	11163.0
55°	11459.3	11689.8	12705.9	13294.0	13402.2	12945.9	12009.7	11304.1	10805.5	10683.2
57.5°	12310.8	12578.9	13468.0	13976.1	13863.2	12823.5	11492.3	10400.9	9747.0	9573.0
60°	13171.7	13500.9	14248.9	14714.6	14131.3	11981.5	10029.3	8622.7	7860.7	7705.4
62.5°	14131.3	14559.4	15227.4	15392.0	13336.3	10316.2	7959.4	6223.6	5452.1	5193.4
65°	14982.8	15420.2	16243.5	15250.9	11647.5	7696.0	5146.4	3556.3	2987.1	2780.2
67.5°	15683.7	16177.6	16582.2	13496.2	8528.6	4506.6	2681.4	1872.3	1660.6	1585.3
70°	16238.8	17062.0	15170.9	9921.1	4873.5	2196.8	1448.9	1232.5	1204.3	1185.4
72.5°	15754.2	15646.0	11327.6	5725.0	2135.7	1209.0	1049.0	1016.1	1011.4	1016.1
75°	12884.7	11492.3	6774.0	2488.5	1072.5	875.0	870.3	856.2	879.7	879.7
77.5°	6251.8	5466.2	2831.9	1067.8	705.6	686.8	710.3	710.3	710.3	710.3
80°	1448.9	1604.1	1011.4	649.2	512.8	512.8	564.5	569.2	545.7	536.3
82.5°	493.9	658.6	555.1	409.3	338.7	381.0	428.1	437.5	362.2	366.9
85°	244.6	385.7	301.1	235.2	174.1	235.2	277.5	291.7	249.3	239.9
87.5°	112.9	169.3	112.9	80.0	61.2	84.7	80.0	65.9	37.6	37.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)