

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: P481230

Luminaire Tested: **IFLD-L-SA8C-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481230
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

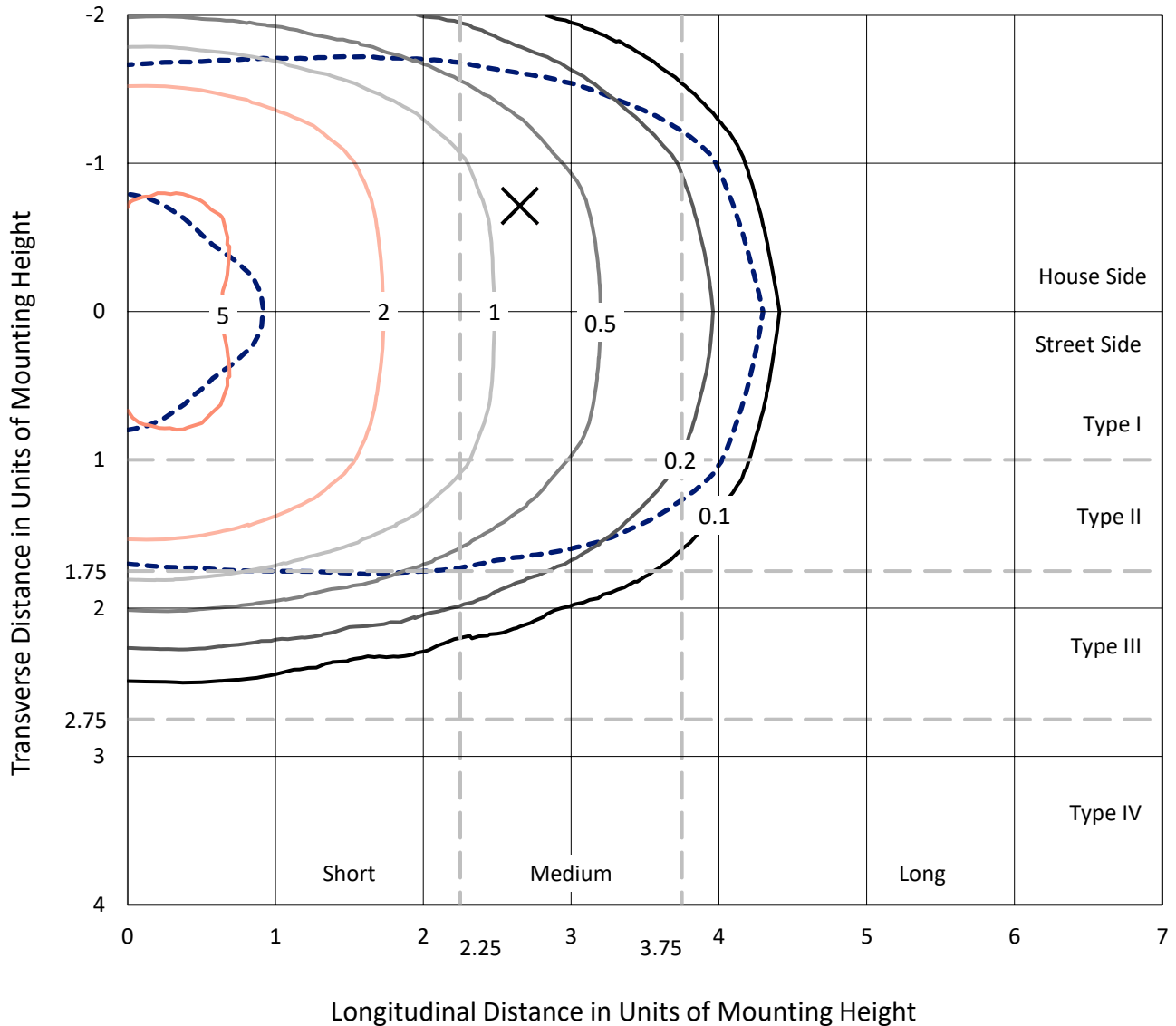
Lumens per Lamp: N/A
Luminaire Lumens: 47519.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

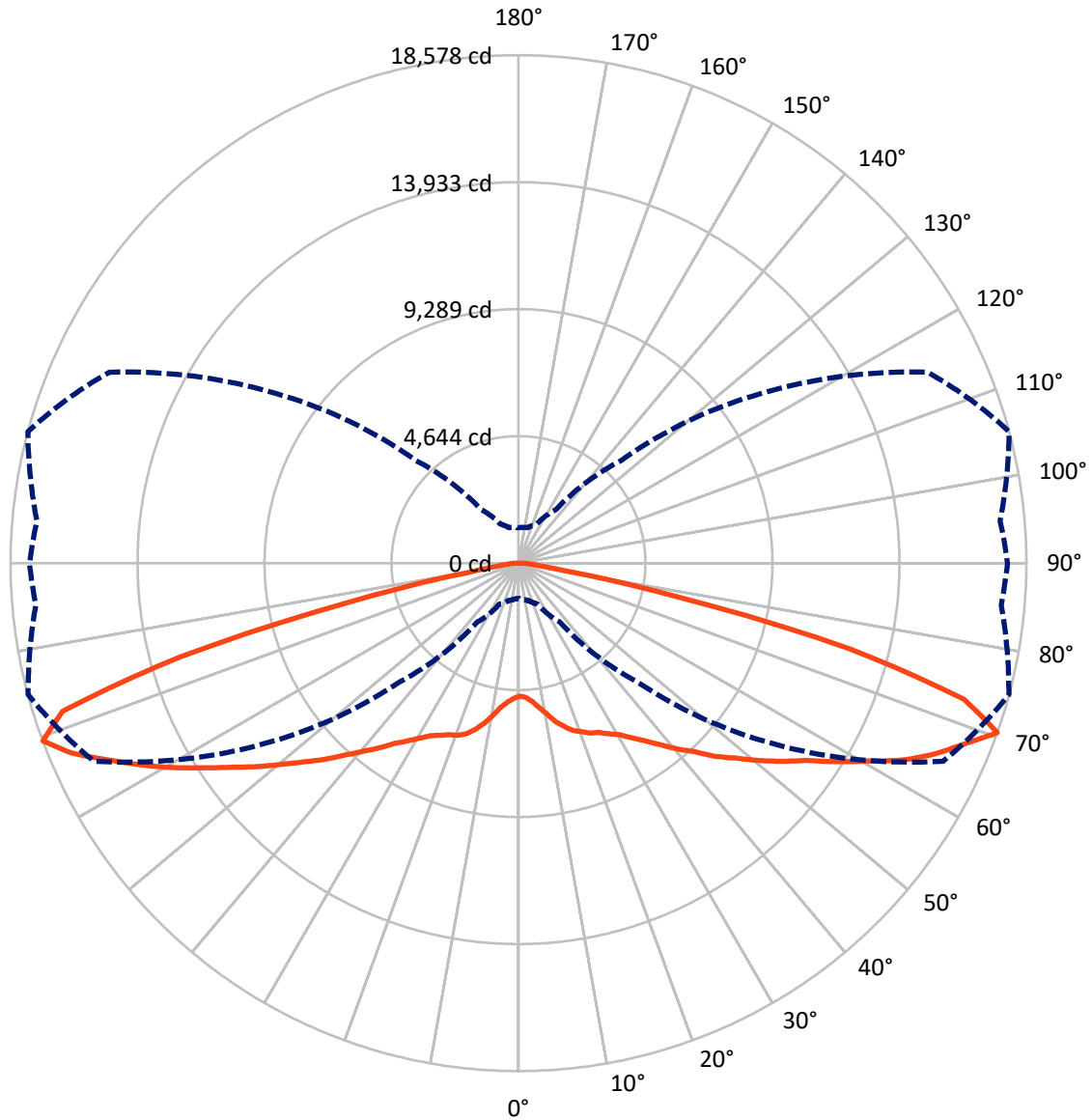
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	23590.9	0.0	23590.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	23929.0	0.0	23929.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	47519.9	0.0	47519.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.3	1.0
10°-20°	1649.1	3.5
20°-30°	3193.2	6.7
30°-40°	5401.1	11.4
40°-50°	8616.3	18.1
50°-60°	11793.8	24.8
60°-70°	11116.5	23.4
70°-80°	4897.1	10.3
80°-90°	368.5	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°	47519.9	100.0
0°-180°	47519.9	100.0

Coefficient of Utilization

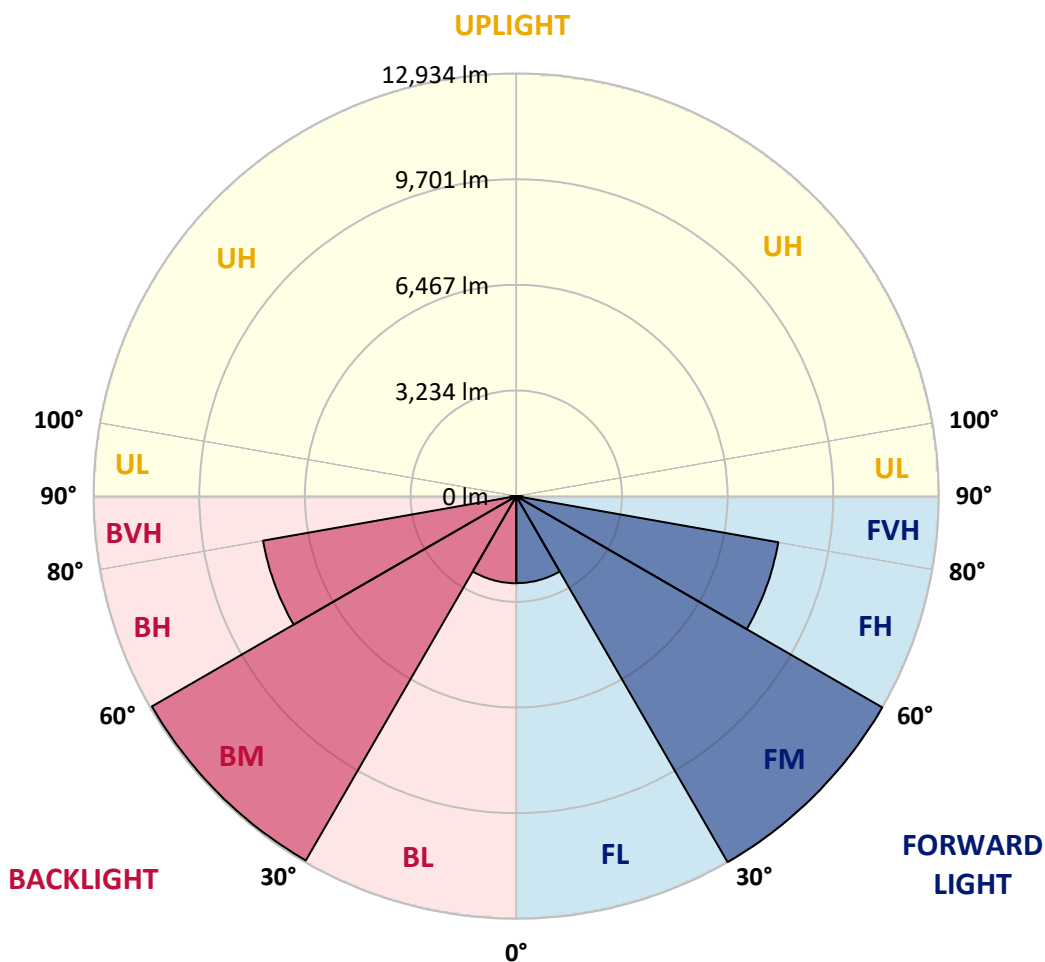


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2661.9	5.6			
FM (30°-60°)	12934.5	27.2			
FH (60°-80°)	8144.4	17.1			G4/12000
FVH (80°-90°)	188.2	0.4			G2/225
BL (0°-30°)	2664.8	5.6	B4/5000		
BM (30°-60°)	12876.7	27.1	B5		
BH (60°-80°)	7869.2	16.6	B5		G5
BVH (80°-90°)	180.2	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°	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0
2.5°	4835.3	4835.3	4830.1	4855.7	4881.4	4891.6	4912.1	4917.2	4947.9	4922.3	4973.6
5°	4819.9	4814.8	4855.7	4917.2	4917.2	4983.8	5024.8	5081.1	5096.5	5127.2	5137.5
7.5°	4927.5	4917.2	4896.7	4963.3	5019.7	5122.1	5178.4	5275.8	5311.6	5352.6	5398.7
10°	4994.0	4994.0	4973.6	5091.4	5142.6	5280.9	5403.8	5501.1	5639.4	5685.5	5690.6
12.5°	5004.3	5019.7	5081.1	5234.8	5378.2	5557.5	5649.7	5834.1	5972.4	6059.4	6090.2
15°	5158.0	5127.2	5193.8	5403.8	5613.8	5772.6	5936.5	6069.7	6269.4	6382.1	6453.8
17.5°	5296.2	5265.5	5388.4	5639.4	5854.6	6100.4	6243.8	6387.3	6530.7	6633.1	6638.2
20°	5516.5	5542.1	5649.7	5921.1	6202.9	6418.0	6581.9	6607.5	6679.2	6827.8	6802.1
22.5°	5788.0	5767.5	5992.9	6289.9	6597.3	6776.5	6868.7	6802.1	6766.3	6925.1	6960.9
25°	6059.4	6120.9	6325.8	6602.4	6971.2	7211.9	7237.5	7053.1	6920.0	6976.3	6960.9
27.5°	6474.3	6484.6	6699.7	7027.5	7401.4	7611.4	7596.1	7334.8	7078.7	7083.9	7094.1
30°	7007.0	6955.8	7191.4	7488.5	7857.3	8046.8	8072.4	7698.5	7355.3	7252.9	7278.5
32.5°	7519.2	7580.7	7785.6	8123.6	8395.1	8502.7	8446.3	8113.4	7667.8	7529.5	7544.8
35°	8174.9	8164.6	8446.3	8733.2	8938.1	8958.5	8912.4	8425.8	8005.8	7826.6	7754.9
37.5°	8876.6	8968.8	9153.2	9388.8	9603.9	9614.2	9363.2	8973.9	8456.6	8159.5	8246.6
40°	9660.3	9762.7	9895.9	10239.1	10397.9	10234.0	9977.8	9450.3	8912.4	8651.2	8692.2
42.5°	10351.8	10397.9	10669.3	11074.0	11150.8	11079.1	10700.1	10059.8	9434.9	9148.1	9168.6
45°	10986.9	11048.4	11401.8	11765.5	11944.7	11821.8	11381.3	10771.8	10044.4	9798.6	9701.3
47.5°	11570.8	11693.7	12036.9	12410.8	12687.4	12697.7	12154.7	11417.2	10648.8	10326.1	10321.0
50°	11965.2	12144.5	12482.6	12907.7	13312.3	13471.1	12928.2	12134.2	11309.6	10966.4	10930.6
52.5°	12180.3	12364.7	12702.8	13363.6	13814.3	14060.2	13804.1	12805.2	12083.0	11724.5	11668.1
55°	11919.1	12042.1	12595.2	13522.3	14218.9	14623.6	14454.6	13732.3	12851.3	12559.4	12610.6
57.5°	10807.6	11063.7	11745.0	12902.6	14208.7	15202.4	15187.0	14608.2	13737.5	13460.9	13471.1
60°	8897.1	9112.2	9952.2	11570.8	13635.0	15438.0	15980.9	15458.5	14731.2	14408.5	14398.2
62.5°	6279.7	6551.2	7524.4	9291.5	11944.7	15110.2	16892.7	16529.0	15704.3	15468.7	15555.8
65°	3513.8	3677.7	4579.2	6177.2	9102.0	13307.2	17056.6	17640.5	16692.9	16334.4	16349.7
67.5°	1879.8	1941.3	2361.3	3242.3	5567.7	10259.6	15402.1	18280.8	17763.4	17143.7	17046.3
70°	1290.8	1311.3	1418.8	1659.6	2632.8	6136.3	11616.9	17138.5	18567.6	17722.5	17886.4
72.5°	1091.0	1080.8	1106.4	1132.0	1377.8	2745.4	6817.5	13189.4	17527.8	17210.2	17148.8
75°	947.6	942.5	952.7	927.1	957.8	1208.8	3016.9	8221.0	12830.9	14321.4	14551.9
77.5°	783.7	788.8	793.9	768.3	758.1	799.0	1213.9	3611.1	6315.5	6971.2	7519.2
80°	594.2	604.4	645.4	619.8	578.8	583.9	717.1	1208.8	1813.2	1644.2	1695.4
82.5°	404.6	409.8	496.8	466.1	435.4	394.4	461.0	624.9	706.8	537.8	471.2
85°	286.8	281.7	322.7	297.1	276.6	199.8	276.6	353.4	425.1	266.3	240.7
87.5°	66.6	66.6	133.2	107.6	102.4	82.0	107.6	138.3	184.4	117.8	107.6
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°	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0	4866.0
2.5°	4958.2	4912.1	4912.1	4901.8	4860.9	4850.6	4814.8	4825.0	4799.4	4773.8
5°	5132.3	5070.9	5070.9	4983.8	4901.8	4891.6	4850.6	4850.6	4809.6	4819.9
7.5°	5373.1	5316.7	5224.5	5147.7	5035.0	4988.9	4912.1	4901.8	4891.6	4871.1
10°	5659.9	5588.2	5496.0	5337.2	5245.0	5158.0	5081.1	4973.6	4947.9	4953.1
12.5°	6049.2	5936.5	5736.7	5598.5	5480.6	5368.0	5255.3	5096.5	5060.6	5076.0
15°	6325.8	6182.4	5982.6	5931.4	5772.6	5634.3	5449.9	5270.6	5209.2	5193.8
17.5°	6551.2	6433.4	6315.5	6238.7	6110.7	5941.6	5685.5	5480.6	5342.3	5327.0
20°	6735.6	6581.9	6556.3	6602.4	6443.6	6330.9	6018.5	5767.5	5583.1	5506.3
22.5°	6848.2	6750.9	6822.6	6863.6	6853.4	6663.8	6341.2	6049.2	5818.7	5747.0
25°	6971.2	6858.5	7114.6	7252.9	7288.7	6976.3	6725.3	6341.2	6115.8	6069.7
27.5°	7032.6	7073.6	7370.7	7662.7	7637.0	7396.3	7058.2	6715.1	6535.8	6453.8
30°	7211.9	7278.5	7729.2	8057.1	8062.2	7826.6	7570.5	7181.2	6981.4	6945.6
32.5°	7534.6	7616.6	8098.0	8446.3	8507.8	8328.5	8072.4	7831.7	7626.8	7544.8
35°	7780.5	7990.5	8533.4	8851.0	9014.9	8907.3	8763.9	8512.9	8297.8	8226.1
37.5°	8133.9	8425.8	8948.3	9378.6	9563.0	9552.7	9445.1	9173.7	8994.4	8932.9
40°	8641.0	8932.9	9409.3	9977.8	10321.0	10305.7	10244.2	10034.2	9767.8	9737.1
42.5°	9178.8	9419.5	10039.3	10689.8	11181.5	11130.3	10966.4	10720.5	10536.2	10495.2
45°	9701.3	10075.2	10648.8	11483.7	11852.5	11980.6	11785.9	11365.9	11155.9	11130.3
47.5°	10356.9	10654.0	11371.1	12118.9	12666.9	12687.4	12354.5	11965.2	11581.1	11663.0
50°	10940.8	11335.2	12062.5	12882.1	13537.7	13302.1	12877.0	12390.4	12113.8	12006.2
52.5°	11565.7	12047.2	12892.3	13727.2	14090.9	13855.3	13163.8	12620.8	12200.8	12154.7
55°	12477.4	12728.4	13834.8	14475.0	14592.9	14096.0	13076.7	12308.4	11765.5	11632.3
57.5°	13404.5	13696.5	14664.6	15217.8	15094.8	13962.8	12513.3	11325.0	10613.0	10423.5
60°	14341.9	14700.4	15514.8	16021.9	15386.8	13046.0	10920.3	9388.8	8559.0	8390.0
62.5°	15386.8	15852.9	16580.2	16759.5	14521.1	11232.8	8666.6	6776.5	5936.5	5654.8
65°	16313.9	16790.2	17686.6	16605.8	12682.3	8379.8	5603.6	3872.3	3252.5	3027.2
67.5°	17077.1	17614.9	18055.4	14695.3	9286.4	4907.0	2919.6	2038.6	1808.1	1726.1
70°	17681.5	18577.8	16518.8	10802.5	5306.5	2392.0	1577.6	1342.0	1311.3	1290.8
72.5°	17153.9	17036.1	12334.0	6233.6	2325.4	1316.4	1142.2	1106.4	1101.3	1106.4
75°	14029.4	12513.3	7375.8	2709.6	1167.8	952.7	947.6	932.2	957.8	957.8
77.5°	6807.3	5951.9	3083.5	1162.7	768.3	747.8	773.4	773.4	773.4	773.4
80°	1577.6	1746.6	1101.3	706.8	558.3	558.3	614.7	619.8	594.2	583.9
82.5°	537.8	717.1	604.4	445.6	368.8	414.9	466.1	476.4	394.4	399.5
85°	266.3	420.0	327.8	256.1	189.5	256.1	302.2	317.6	271.5	261.2
87.5°	122.9	184.4	122.9	87.1	66.6	92.2	87.1	71.7	41.0	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)