

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: P481231

Luminaire Tested: **IFLD-L-SA8D-730-U-RW**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481231
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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

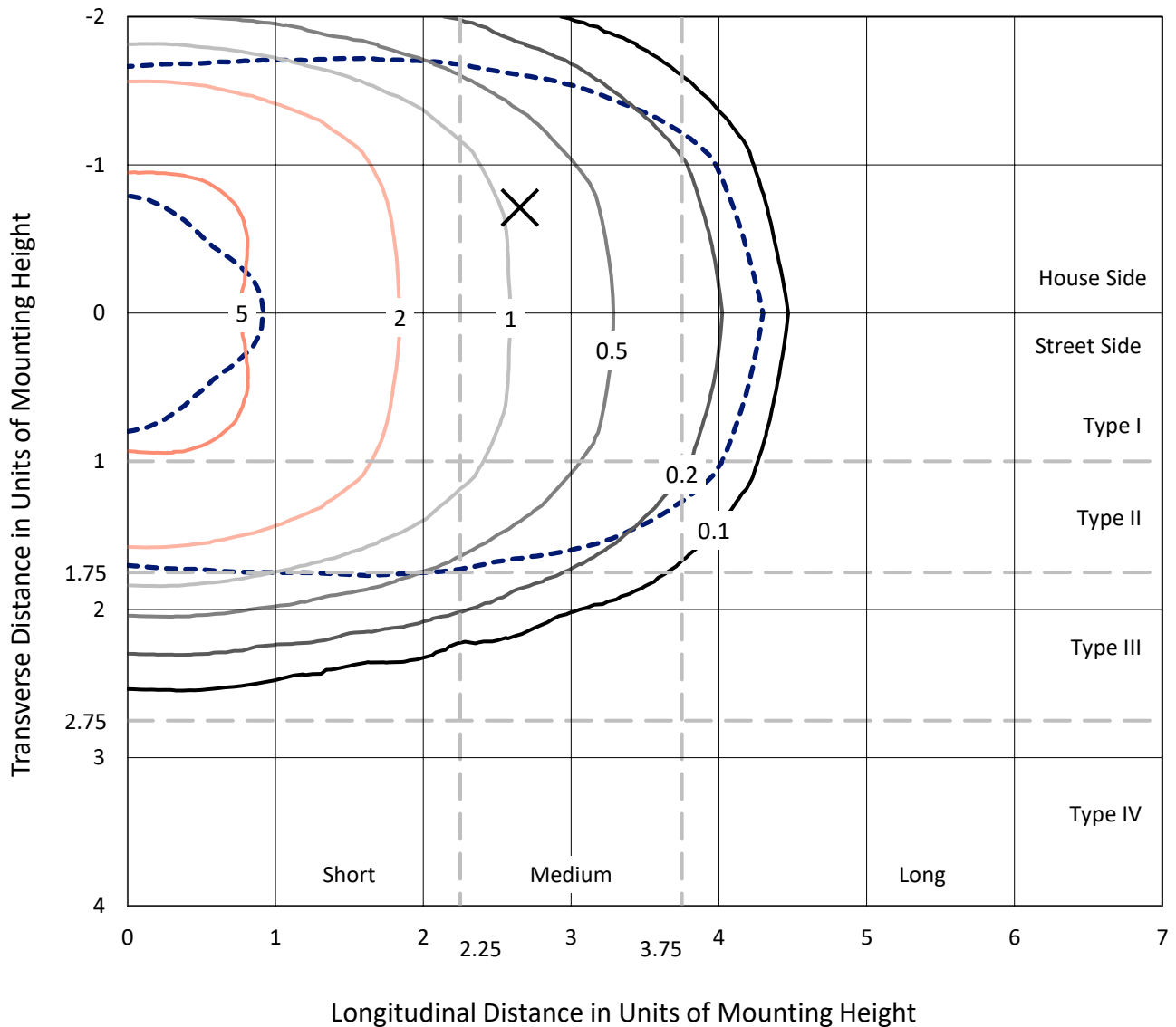
Lumens per Lamp: N/A
Luminaire Lumens: 52288.1 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3
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

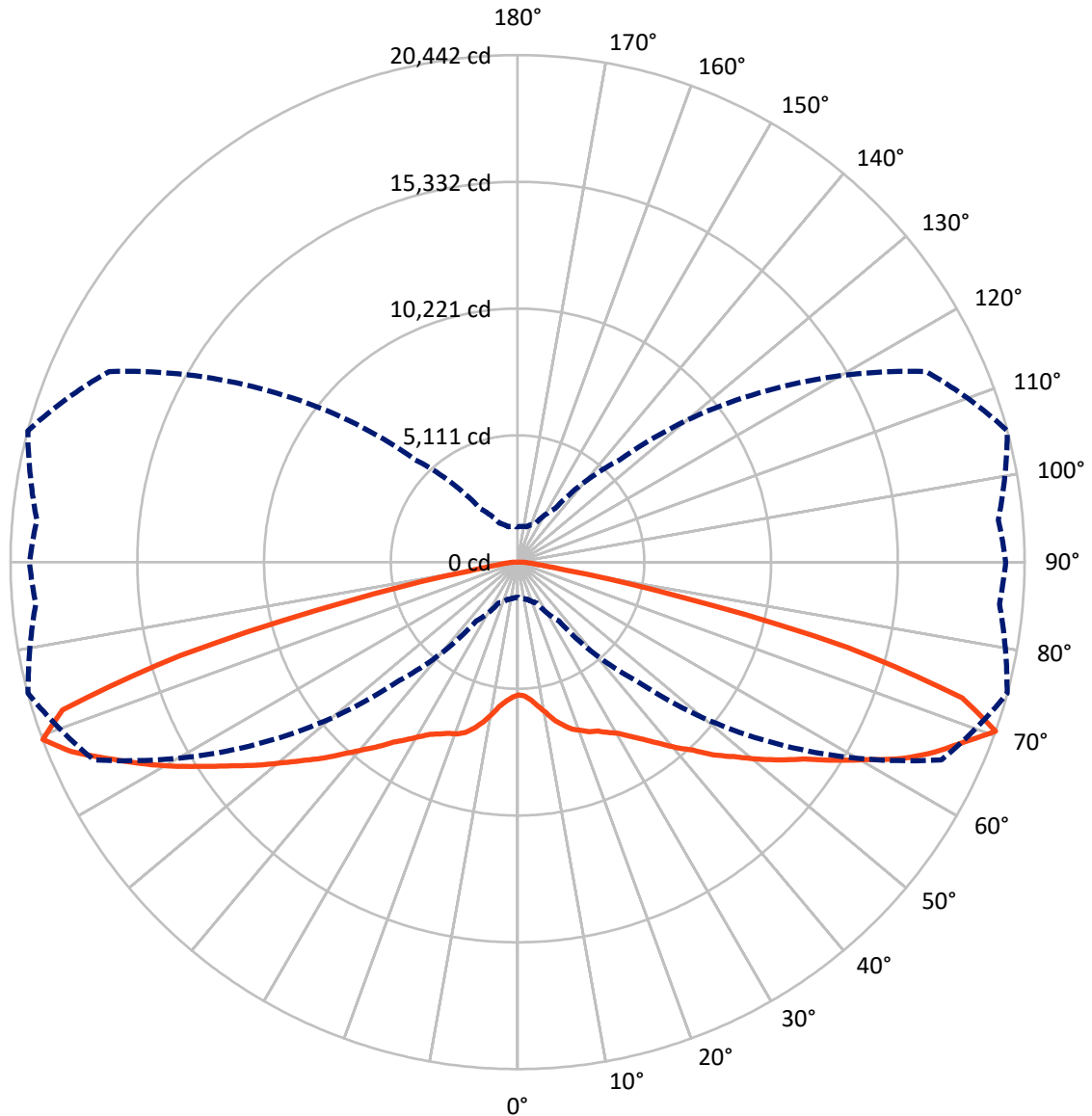
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	25958.1	0.0	25958.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	26330.1	0.0	26330.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	52288.1	0.0	52288.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.9	1.0
10°-20°	1814.6	3.5
20°-30°	3513.6	6.7
30°-40°	5943.0	11.4
40°-50°	9480.9	18.1
50°-60°	12977.2	24.8
60°-70°	12231.9	23.4
70°-80°	5388.5	10.3
80°-90°	405.4	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°	52288.1	100.0
0°-180°	52288.1	100.0

Coefficient of Utilization

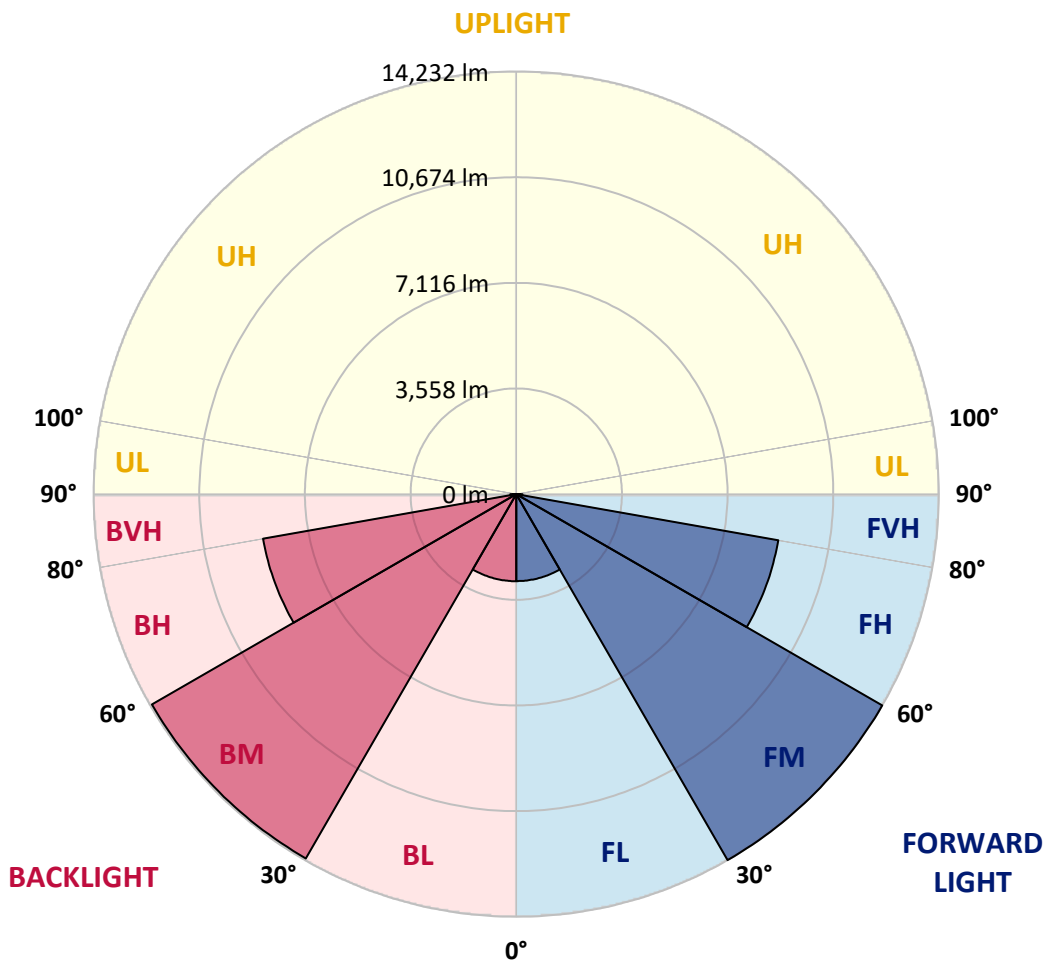


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2929.0	5.6			
FM (30°-60°)	14232.4	27.2			
FH (60°-80°)	8961.6	17.1			G4/12000
FVH (80°-90°)	207.1	0.4			G2/225
BL (0°-30°)	2932.2	5.6	B4/5000		
BM (30°-60°)	14168.7	27.1	B5		
BH (60°-80°)	8658.8	16.6	B5		G5
BVH (80°-90°)	198.3	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°	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3
2.5°	5320.4	5320.4	5314.8	5343.0	5371.2	5382.4	5405.0	5410.6	5444.4	5416.2	5472.6
5°	5303.5	5297.9	5343.0	5410.6	5410.6	5483.9	5529.0	5591.0	5607.9	5641.7	5653.0
7.5°	5421.9	5410.6	5388.1	5461.3	5523.3	5636.1	5698.1	5805.1	5844.6	5889.7	5940.4
10°	5495.2	5495.2	5472.6	5602.2	5658.6	5810.8	5946.0	6053.1	6205.3	6256.0	6261.7
12.5°	5506.4	5523.3	5591.0	5760.0	5917.9	6115.1	6216.6	6419.5	6571.6	6667.5	6701.3
15°	5675.5	5641.7	5715.0	5946.0	6177.1	6351.8	6532.2	6678.7	6898.5	7022.5	7101.4
17.5°	5827.7	5793.9	5929.1	6205.3	6442.0	6712.5	6870.3	7028.2	7186.0	7298.7	7304.3
20°	6070.0	6098.2	6216.6	6515.3	6825.3	7062.0	7242.3	7270.5	7349.4	7512.9	7484.7
22.5°	6368.7	6346.2	6594.2	6921.1	7259.2	7456.5	7557.9	7484.7	7445.2	7619.9	7659.4
25°	6667.5	6735.1	6960.5	7264.9	7670.7	7935.6	7963.7	7760.8	7614.3	7676.3	7659.4
27.5°	7124.0	7135.2	7372.0	7732.7	8144.1	8375.2	8358.3	8070.8	7789.0	7794.7	7805.9
30°	7710.1	7653.8	7913.0	8239.9	8645.7	8854.2	8882.4	8471.0	8093.4	7980.7	8008.8
32.5°	8273.7	8341.4	8566.8	8938.8	9237.5	9355.8	9293.9	8927.5	8437.2	8285.0	8301.9
35°	8995.1	8983.9	9293.9	9609.5	9834.9	9857.5	9806.7	9271.3	8809.2	8611.9	8533.0
37.5°	9767.3	9868.7	10071.6	10330.9	10567.6	10578.9	10302.7	9874.4	9305.1	8978.2	9074.0
40°	10629.6	10742.3	10888.9	11266.5	11441.2	11260.8	10979.0	10398.5	9806.7	9519.3	9564.4
42.5°	11390.5	11441.2	11739.9	12185.1	12269.7	12190.8	11773.7	11069.2	10381.6	10066.0	10088.5
45°	12089.3	12157.0	12545.9	12946.0	13143.3	13008.0	12523.3	11852.6	11052.3	10781.8	10674.7
47.5°	12731.8	12867.1	13244.7	13656.2	13960.5	13971.8	13374.4	12562.8	11717.4	11362.3	11356.6
50°	13165.8	13363.1	13735.1	14202.9	14648.1	14822.8	14225.4	13351.8	12444.4	12066.8	12027.3
52.5°	13402.5	13605.4	13977.4	14704.5	15200.4	15471.0	15189.2	14090.1	13295.5	12900.9	12838.9
55°	13115.1	13250.4	13859.1	14879.2	15645.7	16090.9	15904.9	15110.3	14140.9	13819.6	13876.0
57.5°	11892.1	12173.9	12923.5	14197.2	15634.4	16727.8	16710.9	16074.0	15115.9	14811.5	14822.8
60°	9789.8	10026.5	10950.9	12731.8	15003.2	16987.1	17584.5	17009.6	16209.3	15854.2	15842.9
62.5°	6909.8	7208.5	8279.4	10223.8	13143.3	16626.4	18587.7	18187.5	17280.1	17020.9	17116.7
65°	3866.3	4046.7	5038.6	6797.1	10015.3	14642.5	18768.1	19410.6	18367.9	17973.4	17990.3
67.5°	2068.4	2136.1	2598.2	3567.6	6126.4	11289.0	16947.6	20115.1	19545.8	18863.9	18756.8
70°	1420.3	1442.8	1561.2	1826.1	2896.9	6752.0	12782.6	18858.2	20430.7	19500.7	19681.1
72.5°	1200.5	1189.2	1217.4	1245.6	1516.1	3020.9	7501.6	14512.8	19286.6	18937.1	18869.5
75°	1042.7	1037.0	1048.3	1020.1	1053.9	1330.1	3319.6	9045.9	14118.3	15758.4	16012.0
77.5°	862.3	868.0	873.6	845.4	834.1	879.2	1335.7	3973.4	6949.3	7670.7	8273.7
80°	653.8	665.1	710.1	682.0	636.9	642.5	789.0	1330.1	1995.2	1809.2	1865.5
82.5°	445.2	450.9	546.7	512.9	479.1	434.0	507.2	687.6	777.8	591.8	518.5
85°	315.6	310.0	355.1	326.9	304.3	219.8	304.3	388.9	467.8	293.1	264.9
87.5°	73.3	73.3	146.5	118.4	112.7	90.2	118.4	152.2	202.9	129.6	118.4
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°	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3	5354.3
2.5°	5455.7	5405.0	5405.0	5393.7	5348.6	5337.3	5297.9	5309.2	5281.0	5252.8
5°	5647.3	5579.7	5579.7	5483.9	5393.7	5382.4	5337.3	5337.3	5292.3	5303.5
7.5°	5912.2	5850.2	5748.8	5664.2	5540.2	5489.5	5405.0	5393.7	5382.4	5359.9
10°	6227.8	6148.9	6047.5	5872.8	5771.3	5675.5	5591.0	5472.6	5444.4	5450.1
12.5°	6656.2	6532.2	6312.4	6160.2	6030.6	5906.6	5782.6	5607.9	5568.4	5585.3
15°	6960.5	6802.7	6582.9	6526.6	6351.8	6199.7	5996.8	5799.5	5731.9	5715.0
17.5°	7208.5	7078.9	6949.3	6864.7	6723.8	6537.8	6256.0	6030.6	5878.4	5861.5
20°	7411.4	7242.3	7214.1	7264.9	7090.2	6966.2	6622.4	6346.2	6143.3	6058.8
22.5°	7535.4	7428.3	7507.2	7552.3	7541.0	7332.5	6977.4	6656.2	6402.6	6323.7
25°	7670.7	7546.7	7828.5	7980.7	8020.1	7676.3	7400.1	6977.4	6729.4	6678.7
27.5°	7738.3	7783.4	8110.3	8431.5	8403.4	8138.5	7766.5	7388.9	7191.6	7101.4
30°	7935.6	8008.8	8504.8	8865.5	8871.1	8611.9	8330.1	7901.7	7681.9	7642.5
32.5°	8290.6	8380.8	8910.6	9293.9	9361.5	9164.2	8882.4	8617.5	8392.1	8301.9
35°	8561.2	8792.2	9389.7	9739.1	9919.5	9801.1	9643.3	9367.1	9130.4	9051.5
37.5°	8950.1	9271.3	9846.2	10319.6	10522.5	10511.2	10392.9	10094.2	9896.9	9829.3
40°	9508.0	9829.3	10353.4	10979.0	11356.6	11339.7	11272.1	11041.0	10748.0	10714.1
42.5°	10099.8	10364.7	11046.7	11762.4	12303.5	12247.1	12066.8	11796.3	11593.4	11548.3
45°	10674.7	11086.1	11717.4	12636.0	13041.8	13182.7	12968.6	12506.4	12275.3	12247.1
47.5°	11396.1	11723.0	12512.0	13334.9	13938.0	13960.5	13594.2	13165.8	12743.1	12833.3
50°	12038.6	12472.6	13272.9	14174.7	14896.1	14636.8	14169.0	13633.6	13329.3	13210.9
52.5°	12726.2	13256.0	14185.9	15104.6	15504.8	15245.5	14484.7	13887.2	13425.1	13374.4
55°	13729.4	14005.6	15223.0	15927.5	16057.1	15510.4	14388.8	13543.4	12946.0	12799.5
57.5°	14749.6	15070.8	16136.0	16744.7	16609.5	15363.9	13768.9	12461.3	11677.9	11469.4
60°	15781.0	16175.5	17071.6	17629.6	16930.7	14355.0	12016.1	10330.9	9417.8	9231.9
62.5°	16930.7	17443.6	18243.9	18441.2	15978.2	12359.9	9536.2	7456.5	6532.2	6222.2
65°	17950.8	18475.0	19461.3	18272.1	13954.9	9220.6	6165.8	4260.9	3578.9	3330.9
67.5°	18790.6	19382.4	19867.1	16169.8	10218.2	5399.3	3212.6	2243.1	1989.5	1899.4
70°	19455.7	20442.0	18176.3	11886.4	5839.0	2632.0	1735.9	1476.6	1442.8	1420.3
72.5°	18875.1	18745.5	13571.6	6859.1	2558.8	1448.5	1256.8	1217.4	1211.8	1217.4
75°	15437.2	13768.9	8115.9	2981.5	1285.0	1048.3	1042.7	1025.8	1053.9	1053.9
77.5°	7490.3	6549.1	3392.9	1279.4	845.4	822.9	851.0	851.0	851.0	851.0
80°	1735.9	1921.9	1211.8	777.8	614.3	614.3	676.3	682.0	653.8	642.5
82.5°	591.8	789.0	665.1	490.3	405.8	456.5	512.9	524.2	434.0	439.6
85°	293.1	462.2	360.7	281.8	208.5	281.8	332.5	349.4	298.7	287.4
87.5°	135.3	202.9	135.3	95.8	73.3	101.4	95.8	78.9	45.1	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)