

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: P481420

Luminaire Tested: **IFLD-L-SA7C-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481420
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

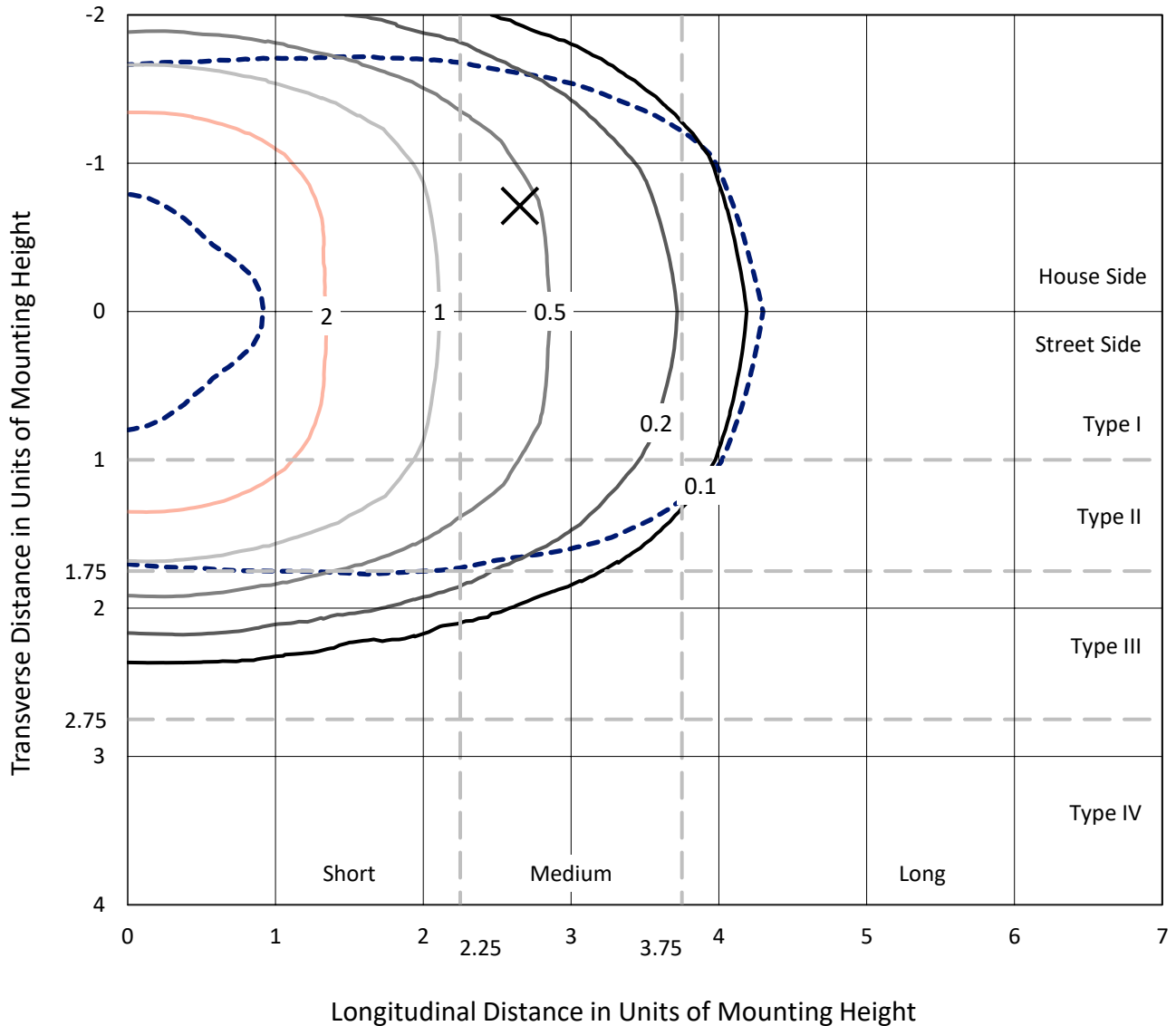
Lumens per Lamp: N/A
Luminaire Lumens: 33566.1 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 369
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

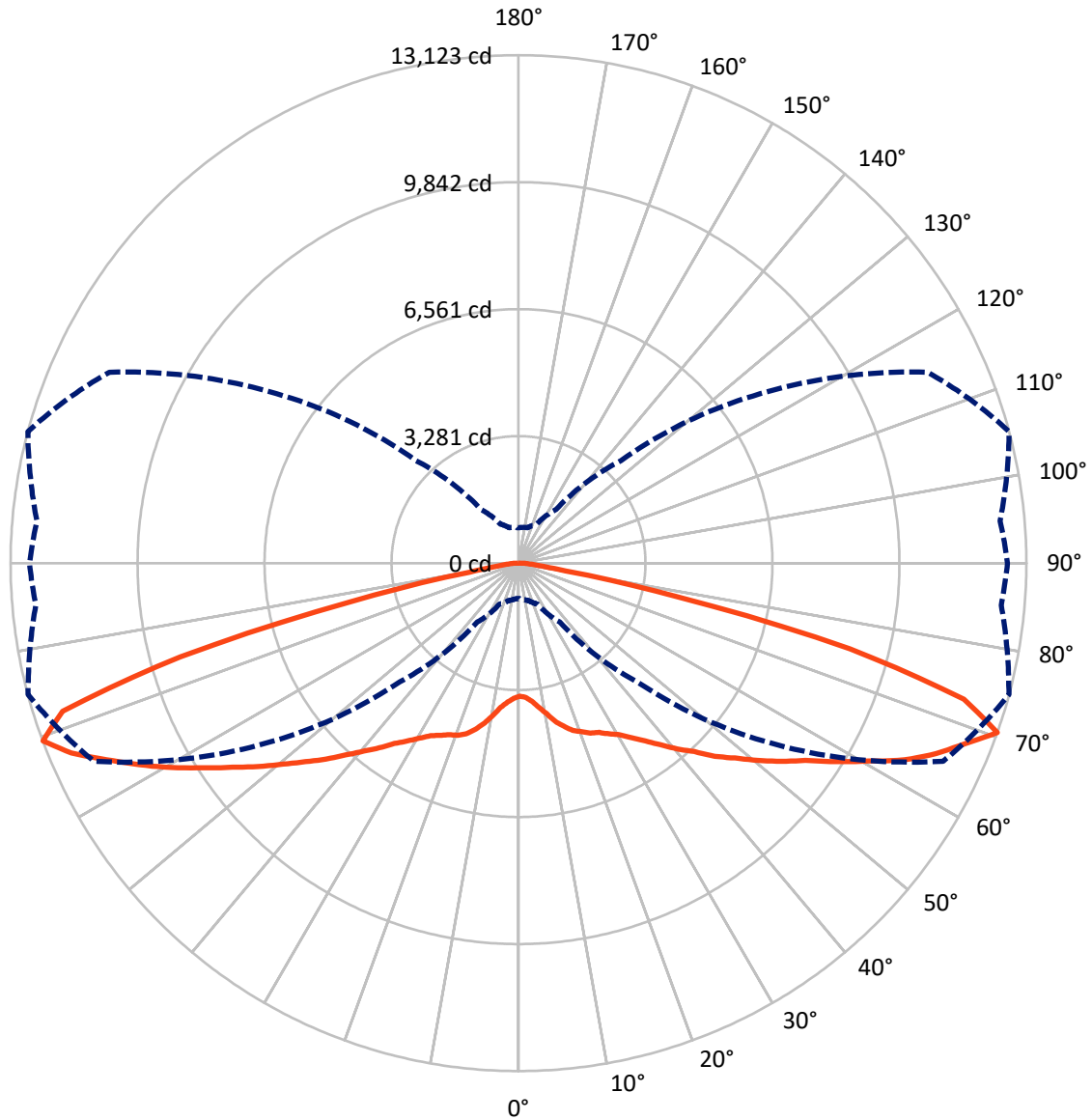
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	16663.7	0.0	16663.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16902.5	0.0	16902.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	33566.1	0.0	33566.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	1.0
10°-20°	1164.9	3.5
20°-30°	2255.6	6.7
30°-40°	3815.1	11.4
40°-50°	6086.2	18.1
50°-60°	8330.7	24.8
60°-70°	7852.2	23.4
70°-80°	3459.1	10.3
80°-90°	260.3	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°	33566.1	100.0
0°-180°	33566.1	100.0

Coefficient of Utilization

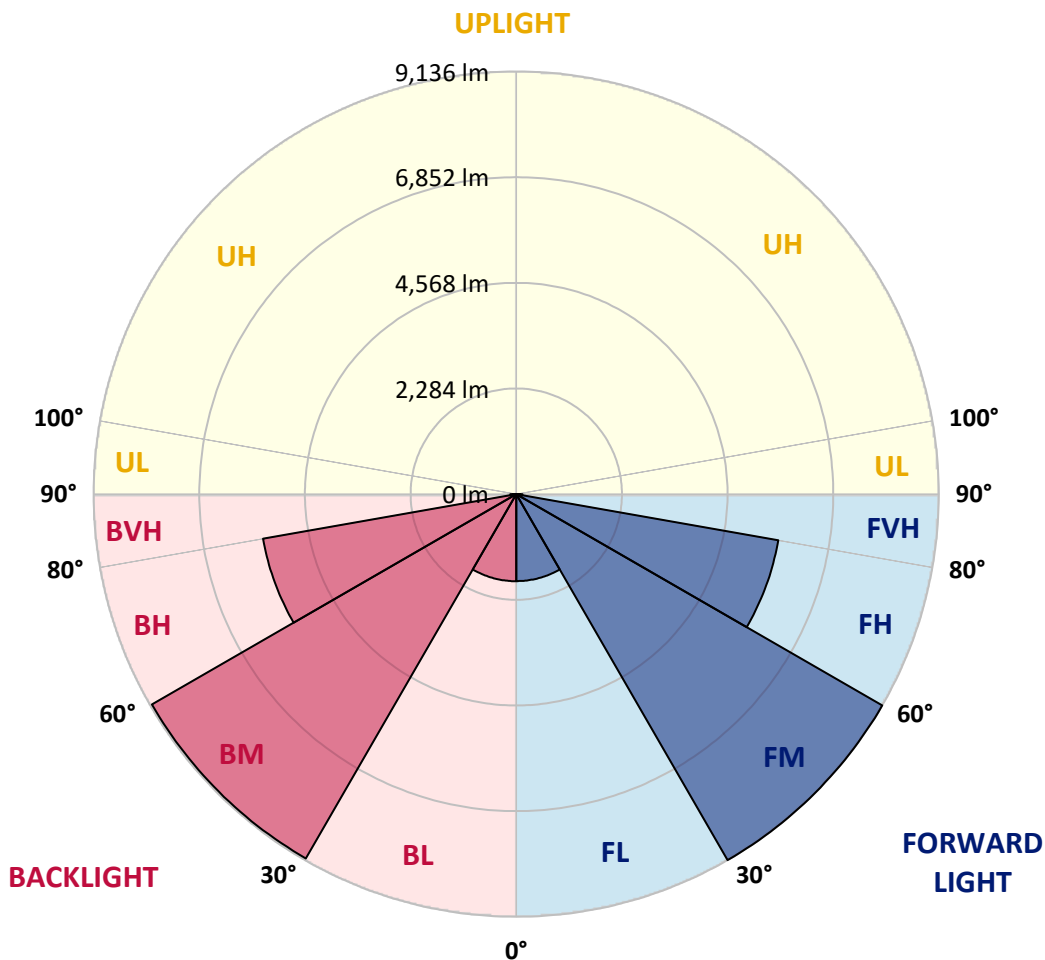


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.2	5.6			
FM (30°-60°)	9136.4	27.2			
FH (60°-80°)	5752.9	17.1			G3/7500
FVH (80°-90°)	132.9	0.4			G2/225
BL (0°-30°)	1882.3	5.6	B3/2500		
BM (30°-60°)	9095.6	27.1	B5		
BH (60°-80°)	5558.5	16.6	B5		G5
BVH (80°-90°)	127.3	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°	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1
2.5°	3415.4	3415.4	3411.8	3429.9	3448.0	3455.2	3469.7	3473.3	3495.0	3476.9	3513.1
5°	3404.6	3401.0	3429.9	3473.3	3473.3	3520.4	3549.3	3589.1	3600.0	3621.7	3628.9
7.5°	3480.6	3473.3	3458.8	3505.9	3545.7	3618.0	3657.8	3726.6	3751.9	3780.9	3813.4
10°	3527.6	3527.6	3513.1	3596.3	3632.5	3730.2	3817.0	3885.8	3983.5	4016.0	4019.6
12.5°	3534.8	3545.7	3589.1	3697.6	3798.9	3925.6	3990.7	4120.9	4218.6	4280.1	4301.9
15°	3643.4	3621.7	3668.7	3817.0	3965.4	4077.5	4193.3	4287.4	4428.5	4508.1	4558.7
17.5°	3741.1	3719.3	3806.2	3983.5	4135.4	4309.1	4410.4	4511.7	4613.0	4685.4	4689.0
20°	3896.6	3914.7	3990.7	4182.5	4381.4	4533.4	4649.2	4667.3	4717.9	4822.8	4804.8
22.5°	4088.4	4073.9	4233.1	4443.0	4660.0	4786.7	4851.8	4804.8	4779.4	4891.6	4916.9
25°	4280.1	4323.6	4468.3	4663.7	4924.2	5094.2	5112.3	4982.0	4888.0	4927.8	4916.9
27.5°	4573.2	4580.4	4732.4	4964.0	5228.1	5376.4	5365.6	5181.0	5000.1	5003.8	5011.0
30°	4949.5	4913.3	5079.7	5289.6	5550.1	5683.9	5702.0	5437.9	5195.5	5123.1	5141.2
32.5°	5311.3	5354.7	5499.4	5738.2	5930.0	6005.9	5966.1	5731.0	5416.2	5318.5	5329.4
35°	5774.4	5767.2	5966.1	6168.8	6313.5	6328.0	6295.4	5951.7	5655.0	5528.4	5477.7
37.5°	6270.1	6335.2	6465.4	6631.9	6783.8	6791.1	6613.8	6338.8	5973.4	5763.5	5825.0
40°	6823.6	6896.0	6990.1	7232.5	7344.6	7228.8	7047.9	6675.3	6295.4	6110.9	6139.8
42.5°	7312.1	7344.6	7536.4	7822.2	7876.5	7825.8	7558.1	7105.8	6664.4	6461.8	6476.3
45°	7760.7	7804.1	8053.8	8310.6	8437.3	8350.4	8039.3	7608.7	7095.0	6921.3	6852.6
47.5°	8173.2	8260.0	8502.4	8766.5	8961.9	8969.1	8585.6	8064.6	7521.9	7294.0	7290.4
50°	8451.7	8578.4	8817.2	9117.5	9403.3	9515.4	9131.9	8571.1	7988.6	7746.2	7720.9
52.5°	8603.7	8734.0	8972.7	9439.5	9757.9	9931.5	9750.6	9045.1	8535.0	8281.7	8241.9
55°	8419.2	8506.0	8896.8	9551.6	10043.7	10329.5	10210.1	9700.0	9077.7	8871.4	8907.6
57.5°	7634.1	7815.0	8296.2	9113.8	10036.4	10738.3	10727.5	10318.7	9703.6	9508.2	9515.4
60°	6284.5	6436.5	7029.9	8173.2	9631.2	10904.8	11288.3	10919.2	10405.5	10177.5	10170.3
62.5°	4435.7	4627.5	5314.9	6563.1	8437.3	10673.2	11932.3	11675.4	11092.9	10926.5	10988.0
65°	2482.0	2597.8	3234.5	4363.4	6429.3	9399.7	12048.1	12460.5	11791.2	11537.9	11548.8
67.5°	1327.8	1371.2	1667.9	2290.2	3932.8	7246.9	10879.4	12912.8	12547.4	12109.6	12040.8
70°	911.7	926.2	1002.2	1172.2	1859.7	4334.4	8205.7	12106.0	13115.4	12518.4	12634.2
72.5°	770.6	763.4	781.5	799.6	973.3	1939.3	4815.6	9316.5	12380.9	12156.6	12113.2
75°	669.3	665.7	673.0	654.9	676.6	853.9	2131.0	5807.0	9063.2	10116.0	10278.9
77.5°	553.6	557.2	560.8	542.7	535.5	564.4	857.5	2550.7	4461.0	4924.2	5311.3
80°	419.7	426.9	455.9	437.8	408.8	412.5	506.5	853.9	1280.8	1161.4	1197.6
82.5°	285.8	289.4	350.9	329.2	307.5	278.6	325.6	441.4	499.3	379.9	332.9
85°	202.6	199.0	227.9	209.8	195.4	141.1	195.4	249.6	300.3	188.1	170.0
87.5°	47.0	47.0	94.1	76.0	72.4	57.9	76.0	97.7	130.2	83.2	76.0
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°	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1	3437.1
2.5°	3502.3	3469.7	3469.7	3462.5	3433.5	3426.3	3401.0	3408.2	3390.1	3372.0
5°	3625.3	3581.9	3581.9	3520.4	3462.5	3455.2	3426.3	3426.3	3397.3	3404.6
7.5°	3795.3	3755.5	3690.4	3636.1	3556.5	3524.0	3469.7	3462.5	3455.2	3440.8
10°	3997.9	3947.3	3882.2	3770.0	3704.9	3643.4	3589.1	3513.1	3495.0	3498.6
12.5°	4272.9	4193.3	4052.2	3954.5	3871.3	3791.7	3712.1	3600.0	3574.6	3585.5
15°	4468.3	4367.0	4225.9	4189.7	4077.5	3979.8	3849.6	3723.0	3679.5	3668.7
17.5°	4627.5	4544.3	4461.0	4406.8	4316.3	4196.9	4016.0	3871.3	3773.6	3762.8
20°	4757.7	4649.2	4631.1	4663.7	4551.5	4471.9	4251.2	4073.9	3943.7	3889.4
22.5°	4837.3	4768.6	4819.2	4848.2	4840.9	4707.1	4479.1	4272.9	4110.1	4059.4
25°	4924.2	4844.6	5025.5	5123.1	5148.5	4927.8	4750.5	4479.1	4319.9	4287.4
27.5°	4967.6	4996.5	5206.4	5412.6	5394.5	5224.5	4985.7	4743.3	4616.6	4558.7
30°	5094.2	5141.2	5459.6	5691.2	5694.8	5528.4	5347.5	5072.5	4931.4	4906.1
32.5°	5322.1	5380.0	5720.1	5966.1	6009.6	5882.9	5702.0	5532.0	5387.3	5329.4
35°	5495.8	5644.1	6027.7	6252.0	6367.8	6291.8	6190.5	6013.2	5861.2	5810.6
37.5°	5745.4	5951.7	6320.7	6624.6	6754.9	6747.6	6671.7	6479.9	6353.3	6309.9
40°	6103.6	6309.9	6646.3	7047.9	7290.4	7279.5	7236.1	7087.7	6899.6	6877.9
42.5°	6483.5	6653.6	7091.4	7550.9	7898.2	7862.0	7746.2	7572.6	7442.3	7413.4
45°	6852.6	7116.7	7521.9	8111.6	8372.1	8462.6	8325.1	8028.4	7880.1	7862.0
47.5°	7315.7	7525.5	8032.1	8560.3	8947.4	8961.9	8726.7	8451.7	8180.4	8238.3
50°	7728.1	8006.7	8520.5	9099.4	9562.5	9396.1	9095.8	8752.0	8556.7	8480.7
52.5°	8169.5	8509.6	9106.6	9696.3	9953.2	9786.8	9298.4	8914.9	8618.2	8585.6
55°	8813.5	8990.8	9772.3	10224.6	10307.8	9956.8	9236.9	8694.2	8310.6	8216.6
57.5°	9468.4	9674.6	10358.5	10749.2	10662.4	9862.8	8838.9	7999.5	7496.6	7362.7
60°	10130.5	10383.8	10959.0	11317.2	10868.6	9215.1	7713.7	6631.9	6045.7	5926.4
62.5°	10868.6	11197.8	11711.6	11838.2	10257.1	7934.4	6121.7	4786.7	4193.3	3994.3
65°	11523.5	11859.9	12493.1	11729.7	8958.3	5919.1	3958.1	2735.2	2297.5	2138.3
67.5°	12062.5	12442.4	12753.6	10380.2	6559.5	3466.1	2062.3	1440.0	1277.2	1219.3
70°	12489.5	13122.6	11668.2	7630.4	3748.3	1689.6	1114.4	947.9	926.2	911.7
72.5°	12116.8	12033.6	8712.2	4403.2	1642.6	929.8	806.8	781.5	777.9	781.5
75°	9909.8	8838.9	5210.0	1913.9	824.9	673.0	669.3	658.5	676.6	676.6
77.5°	4808.4	4204.2	2178.1	821.3	542.7	528.2	546.3	546.3	546.3	546.3
80°	1114.4	1233.8	777.9	499.3	394.4	394.4	434.2	437.8	419.7	412.5
82.5°	379.9	506.5	426.9	314.8	260.5	293.1	329.2	336.5	278.6	282.2
85°	188.1	296.7	231.6	180.9	133.9	180.9	213.5	224.3	191.8	184.5
87.5°	86.8	130.2	86.8	61.5	47.0	65.1	61.5	50.7	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)