

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: P481147

Luminaire Tested: **IFLD-L-SA7C-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481147
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

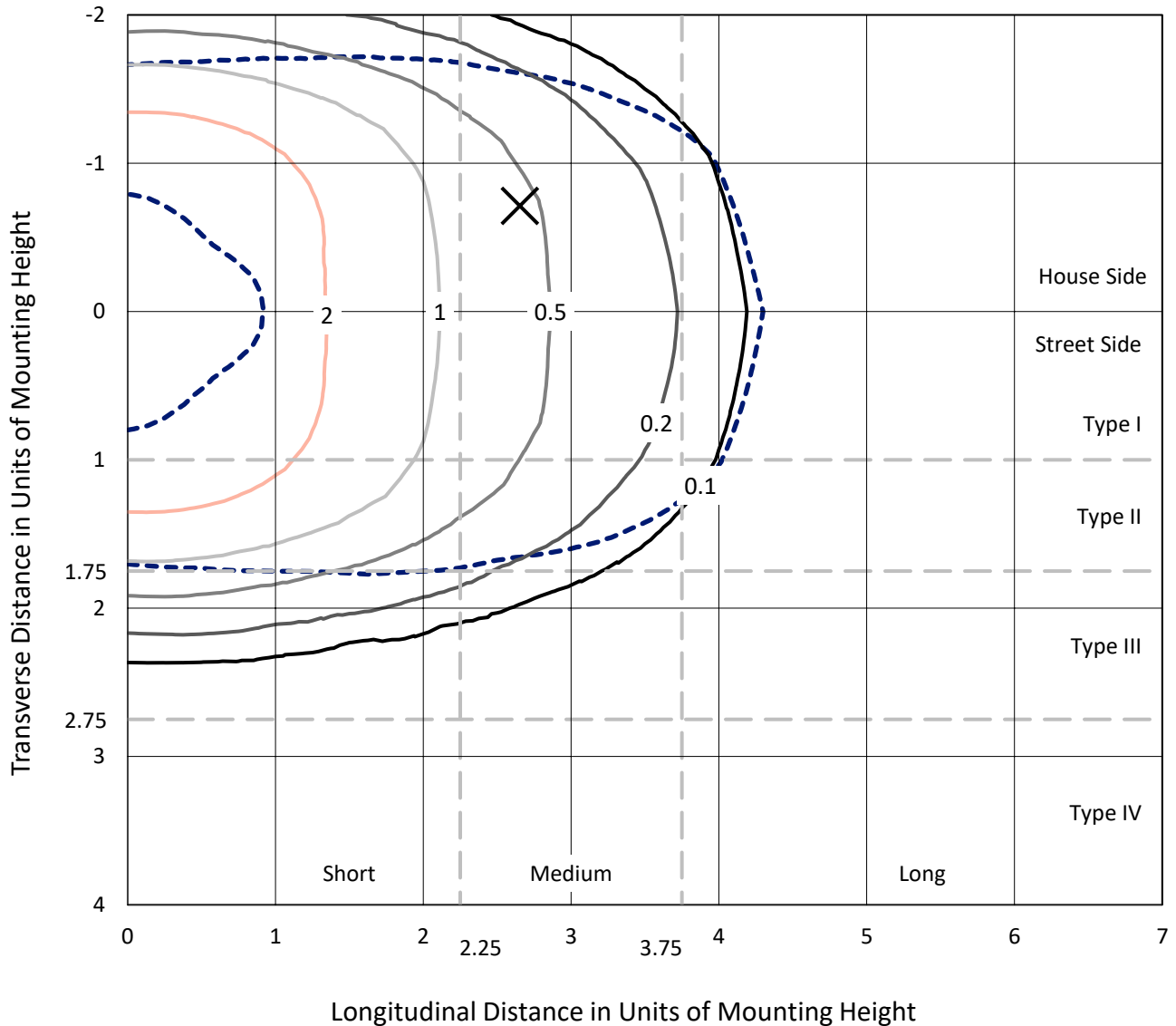
Lumens per Lamp: N/A
Luminaire Lumens: 33634.6 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

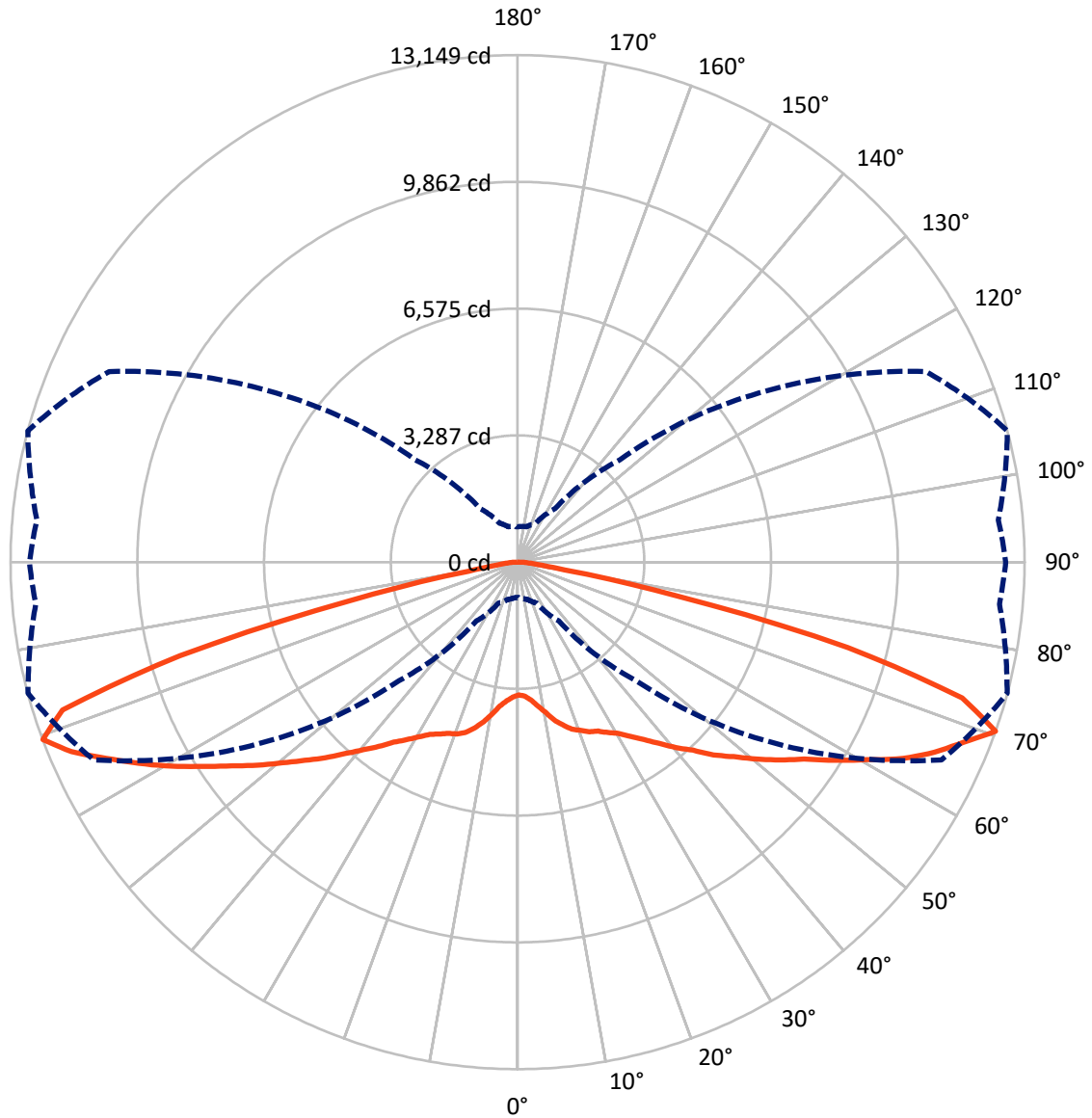
× Max cd
 - - - 1/2 Max cd



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	16697.7	0.0	16697.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16937.0	0.0	16937.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	33634.6	0.0	33634.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	1.0
10°-20°	1167.2	3.5
20°-30°	2260.2	6.7
30°-40°	3822.9	11.4
40°-50°	6098.6	18.1
50°-60°	8347.7	24.8
60°-70°	7868.3	23.4
70°-80°	3466.2	10.3
80°-90°	260.8	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°	33634.6	100.0
0°-180°	33634.6	100.0

Coefficient of Utilization

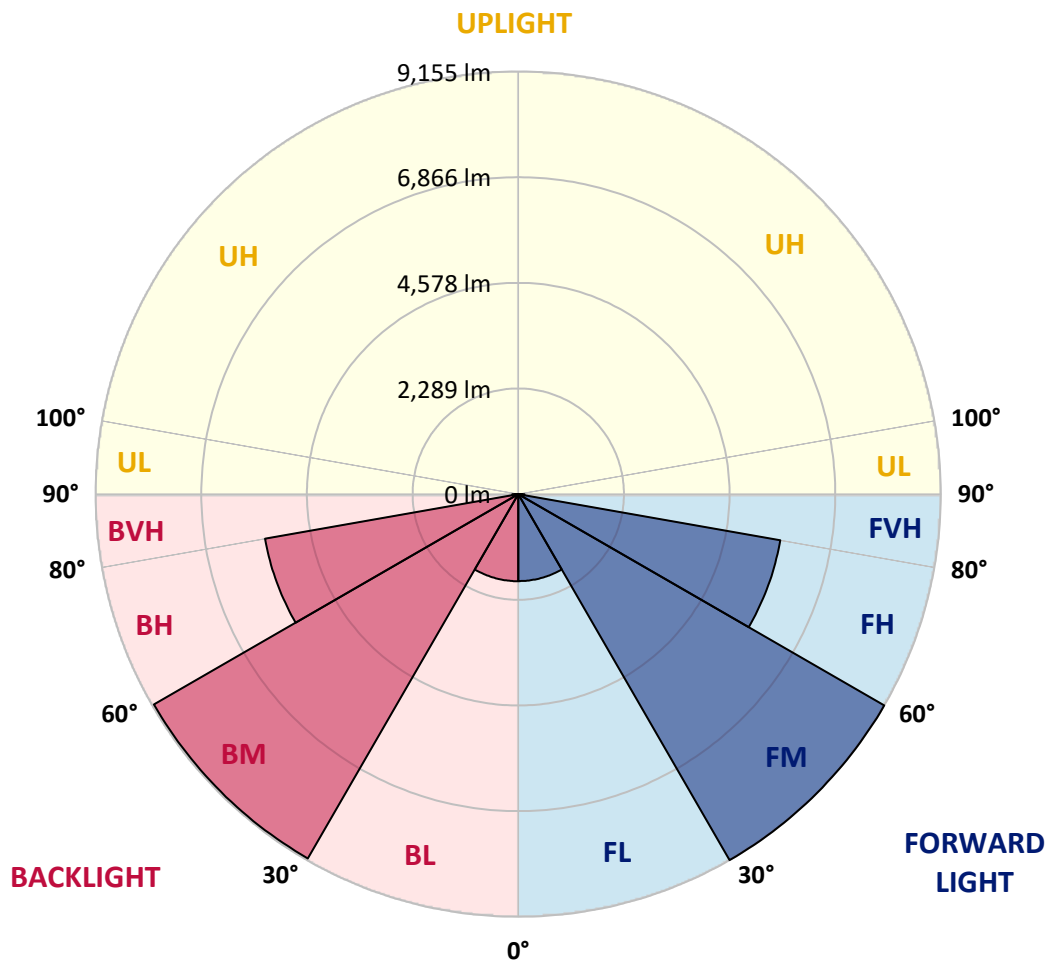


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1884.1	5.6			
FM (30°-60°)	9155.0	27.2			
FH (60°-80°)	5764.6	17.1			G3/7500
FVH (80°-90°)	133.2	0.4			G2/225
BL (0°-30°)	1886.1	5.6	B3/2500		
BM (30°-60°)	9114.1	27.1	B5		
BH (60°-80°)	5569.8	16.6	B5		G5
BVH (80°-90°)	127.6	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°	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2
2.5°	3422.4	3422.4	3418.8	3436.9	3455.0	3462.3	3476.8	3480.4	3502.2	3484.0	3520.3
5°	3411.5	3407.9	3436.9	3480.4	3480.4	3527.5	3556.5	3596.4	3607.3	3629.0	3636.3
7.5°	3487.7	3480.4	3465.9	3513.0	3552.9	3625.4	3665.3	3734.2	3759.6	3788.6	3821.2
10°	3534.8	3534.8	3520.3	3603.7	3639.9	3737.8	3824.8	3893.7	3991.6	4024.2	4027.8
12.5°	3542.0	3552.9	3596.4	3705.2	3806.7	3933.6	3998.8	4129.4	4227.2	4288.9	4310.6
15°	3650.8	3629.0	3676.2	3824.8	3973.5	4085.9	4201.9	4296.1	4437.5	4517.3	4568.0
17.5°	3748.7	3726.9	3813.9	3991.6	4143.9	4317.9	4419.4	4520.9	4622.4	4694.9	4698.5
20°	3904.6	3922.7	3998.8	4191.0	4390.4	4542.7	4658.7	4676.8	4727.6	4832.7	4814.6
22.5°	4096.7	4082.2	4241.7	4452.0	4669.5	4796.4	4861.7	4814.6	4789.2	4901.6	4927.0
25°	4288.9	4332.4	4477.4	4673.2	4934.2	5104.6	5122.7	4992.2	4897.9	4937.8	4927.0
27.5°	4582.5	4589.8	4742.1	4974.1	5238.7	5387.4	5376.5	5191.6	5010.3	5014.0	5021.2
30°	4959.6	4923.3	5090.1	5300.4	5561.4	5695.5	5713.7	5449.0	5206.1	5133.6	5151.7
32.5°	5322.1	5365.6	5510.6	5749.9	5942.1	6018.2	5978.3	5742.7	5427.3	5329.4	5340.2
35°	5786.2	5778.9	5978.3	6181.3	6326.4	6340.9	6308.2	5963.8	5666.5	5539.6	5488.9
37.5°	6282.9	6348.1	6478.6	6645.4	6797.7	6804.9	6627.3	6351.7	5985.6	5775.3	5836.9
40°	6837.5	6910.1	7004.3	7247.2	7359.6	7243.6	7062.3	6688.9	6308.2	6123.3	6152.3
42.5°	7327.0	7359.6	7551.8	7838.2	7892.5	7841.8	7573.5	7120.3	6678.0	6475.0	6489.5
45°	7776.5	7820.0	8070.2	8327.6	8454.5	8367.5	8055.7	7624.3	7109.5	6935.4	6866.6
47.5°	8189.8	8276.8	8519.7	8784.4	8980.2	8987.4	8603.1	8081.1	7537.3	7308.9	7305.2
50°	8469.0	8595.9	8835.2	9136.1	9422.5	9534.9	9150.6	8588.6	8004.9	7762.0	7736.7
52.5°	8621.3	8751.8	8991.1	9458.7	9777.8	9951.8	9770.5	9063.6	8552.4	8298.6	8258.7
55°	8436.4	8523.4	8914.9	9571.1	10064.2	10350.6	10230.9	9719.8	9096.2	8889.5	8925.8
57.5°	7649.6	7830.9	8313.1	9132.4	10056.9	10760.3	10749.4	10339.7	9723.4	9527.6	9534.9
60°	6297.4	6449.6	7044.2	8189.8	9650.9	10927.0	11311.3	10941.5	10426.7	10198.3	10191.1
62.5°	4444.8	4636.9	5325.7	6576.5	8454.5	10695.0	11956.6	11699.2	11115.5	10948.8	11010.4
65°	2487.0	2603.1	3241.1	4372.3	6442.4	9418.9	12072.7	12486.0	11815.3	11561.5	11572.4
67.5°	1330.5	1374.0	1671.3	2294.9	3940.8	7261.7	10901.6	12939.1	12573.0	12134.3	12065.4
70°	913.6	928.1	1004.2	1174.6	1863.5	4343.3	8222.5	12130.7	13142.2	12544.0	12660.0
72.5°	772.2	765.0	783.1	801.2	975.2	1943.2	4825.4	9335.5	12406.2	12181.4	12137.9
75°	670.7	667.1	674.3	656.2	678.0	855.6	2135.4	5818.8	9081.7	10136.7	10299.8
77.5°	554.7	558.3	561.9	543.8	536.6	565.6	859.2	2555.9	4470.1	4934.2	5322.1
80°	420.5	427.8	456.8	438.7	409.7	413.3	507.6	855.6	1283.4	1163.8	1200.0
82.5°	286.4	290.0	351.7	329.9	308.2	279.2	326.3	442.3	500.3	380.7	333.5
85°	203.0	199.4	228.4	210.3	195.8	141.4	195.8	250.2	300.9	188.5	170.4
87.5°	47.1	47.1	94.3	76.1	72.5	58.0	76.1	97.9	130.5	83.4	76.1
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°	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2	3444.2
2.5°	3509.4	3476.8	3476.8	3469.5	3440.5	3433.3	3407.9	3415.1	3397.0	3378.9
5°	3632.7	3589.2	3589.2	3527.5	3469.5	3462.3	3433.3	3433.3	3404.3	3411.5
7.5°	3803.1	3763.2	3697.9	3643.6	3563.8	3531.2	3476.8	3469.5	3462.3	3447.8
10°	4006.1	3955.3	3890.1	3777.7	3712.4	3650.8	3596.4	3520.3	3502.2	3505.8
12.5°	4281.6	4201.9	4060.5	3962.6	3879.2	3799.4	3719.7	3607.3	3581.9	3592.8
15°	4477.4	4375.9	4234.5	4198.2	4085.9	3988.0	3857.5	3730.6	3687.1	3676.2
17.5°	4636.9	4553.5	4470.1	4415.8	4325.1	4205.5	4024.2	3879.2	3781.3	3770.4
20°	4767.4	4658.7	4640.5	4673.2	4560.8	4481.0	4259.9	4082.2	3951.7	3897.3
22.5°	4847.2	4778.3	4829.1	4858.1	4850.8	4716.7	4488.3	4281.6	4118.5	4067.7
25°	4934.2	4854.4	5035.7	5133.6	5159.0	4937.8	4760.2	4488.3	4328.8	4296.1
27.5°	4977.7	5006.7	5217.0	5423.6	5405.5	5235.1	4995.8	4752.9	4626.0	4568.0
30°	5104.6	5151.7	5470.8	5702.8	5706.4	5539.6	5358.4	5082.8	4941.5	4916.1
32.5°	5333.0	5391.0	5731.8	5978.3	6021.8	5894.9	5713.7	5543.3	5398.3	5340.2
35°	5507.0	5655.7	6040.0	6264.7	6380.7	6304.6	6203.1	6025.5	5873.2	5822.4
37.5°	5757.2	5963.8	6333.6	6638.2	6768.7	6761.4	6685.3	6493.1	6366.2	6322.7
40°	6116.1	6322.7	6659.9	7062.3	7305.2	7294.4	7250.8	7102.2	6913.7	6891.9
42.5°	6496.8	6667.2	7105.8	7566.3	7914.3	7878.0	7762.0	7588.0	7457.5	7428.5
45°	6866.6	7131.2	7537.3	8128.2	8389.2	8479.9	8342.1	8044.8	7896.2	7878.0
47.5°	7330.6	7540.9	8048.4	8577.8	8965.7	8980.2	8744.5	8469.0	8197.1	8255.1
50°	7743.9	8023.1	8537.9	9117.9	9582.0	9415.2	9114.3	8769.9	8574.1	8498.0
52.5°	8186.2	8527.0	9125.2	9716.1	9973.5	9806.8	9317.3	8933.0	8635.8	8603.1
55°	8831.5	9009.2	9792.3	10245.4	10328.8	9977.2	9255.7	8711.9	8327.6	8233.3
57.5°	9487.7	9694.4	10379.6	10771.1	10684.1	9882.9	8856.9	8015.8	7511.9	7377.7
60°	10151.2	10405.0	10981.4	11340.3	10890.8	9234.0	7729.4	6645.4	6058.1	5938.4
62.5°	10890.8	11220.7	11735.5	11862.4	10278.1	7950.6	6134.2	4796.4	4201.9	4002.5
65°	11547.0	11884.1	12518.6	11753.6	8976.5	5931.2	3966.2	2740.8	2302.1	2142.6
67.5°	12087.2	12467.8	12779.6	10401.3	6572.9	3473.2	2066.5	1442.9	1279.8	1221.8
70°	12515.0	13149.4	11692.0	7646.0	3755.9	1693.1	1116.6	949.9	928.1	913.6
72.5°	12141.5	12058.2	8730.0	4412.1	1645.9	931.7	808.5	783.1	779.5	783.1
75°	9930.0	8856.9	5220.6	1917.8	826.6	674.3	670.7	659.8	678.0	678.0
77.5°	4818.2	4212.7	2182.5	823.0	543.8	529.3	547.4	547.4	547.4	547.4
80°	1116.6	1236.3	779.5	500.3	395.2	395.2	435.1	438.7	420.5	413.3
82.5°	380.7	507.6	427.8	315.4	261.0	293.7	329.9	337.2	279.2	282.8
85°	188.5	297.3	232.0	181.3	134.1	181.3	213.9	224.8	192.1	184.9
87.5°	87.0	130.5	87.0	61.6	47.1	65.3	61.6	50.8	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)