

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: P481459

Luminaire Tested: **IFLD-L-SA7C-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

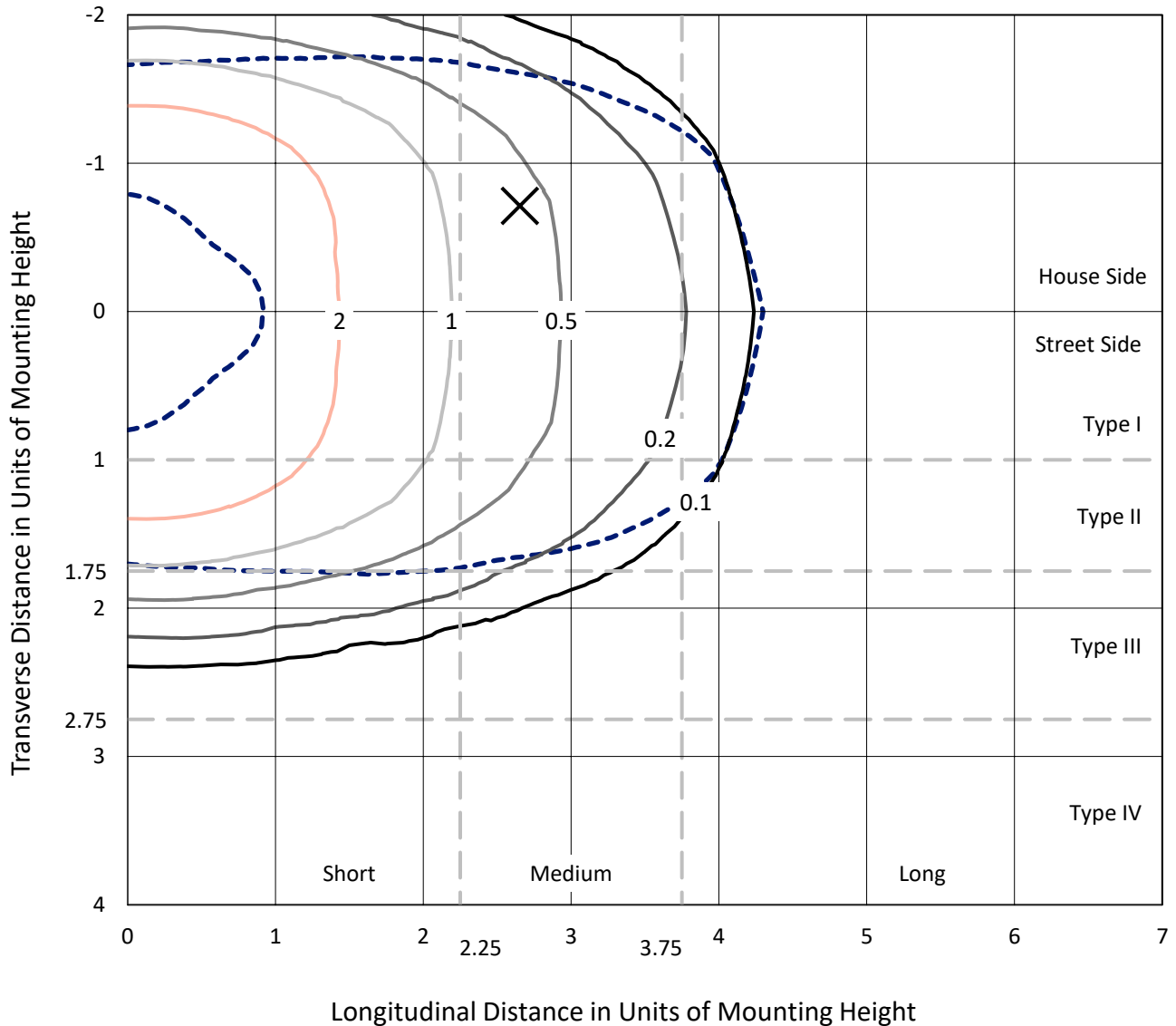
Lumens per Lamp: N/A
Luminaire Lumens: 36283 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

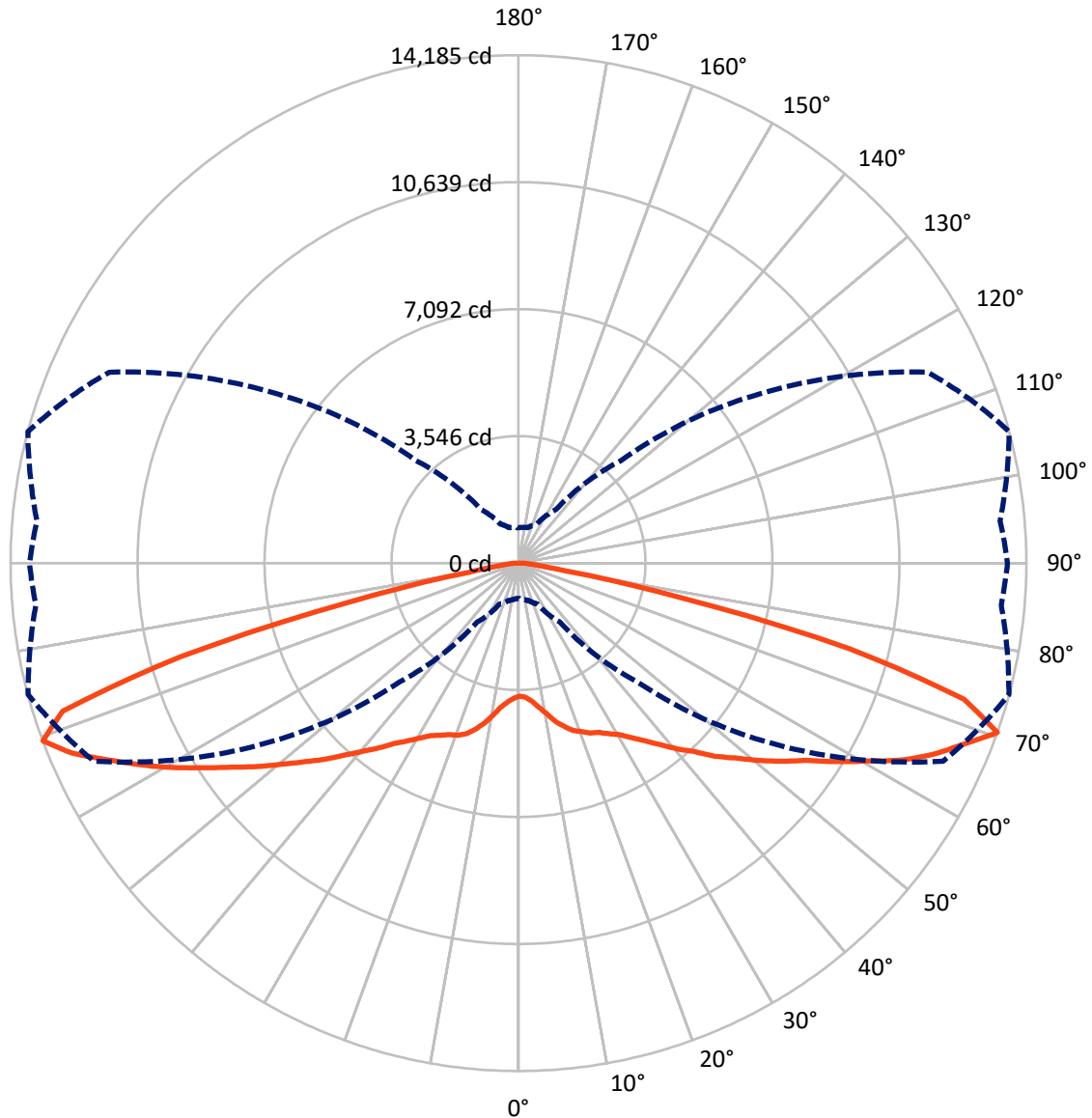
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	18012.4	0.0	18012.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18270.6	0.0	18270.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	36283.0	0.0	36283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	1.0
10°-20°	1259.1	3.5
20°-30°	2438.1	6.7
30°-40°	4123.9	11.4
40°-50°	6578.8	18.1
50°-60°	9005.0	24.8
60°-70°	8487.8	23.4
70°-80°	3739.1	10.3
80°-90°	281.3	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°	36283.0	100.0
0°-180°	36283.0	100.0

Coefficient of Utilization

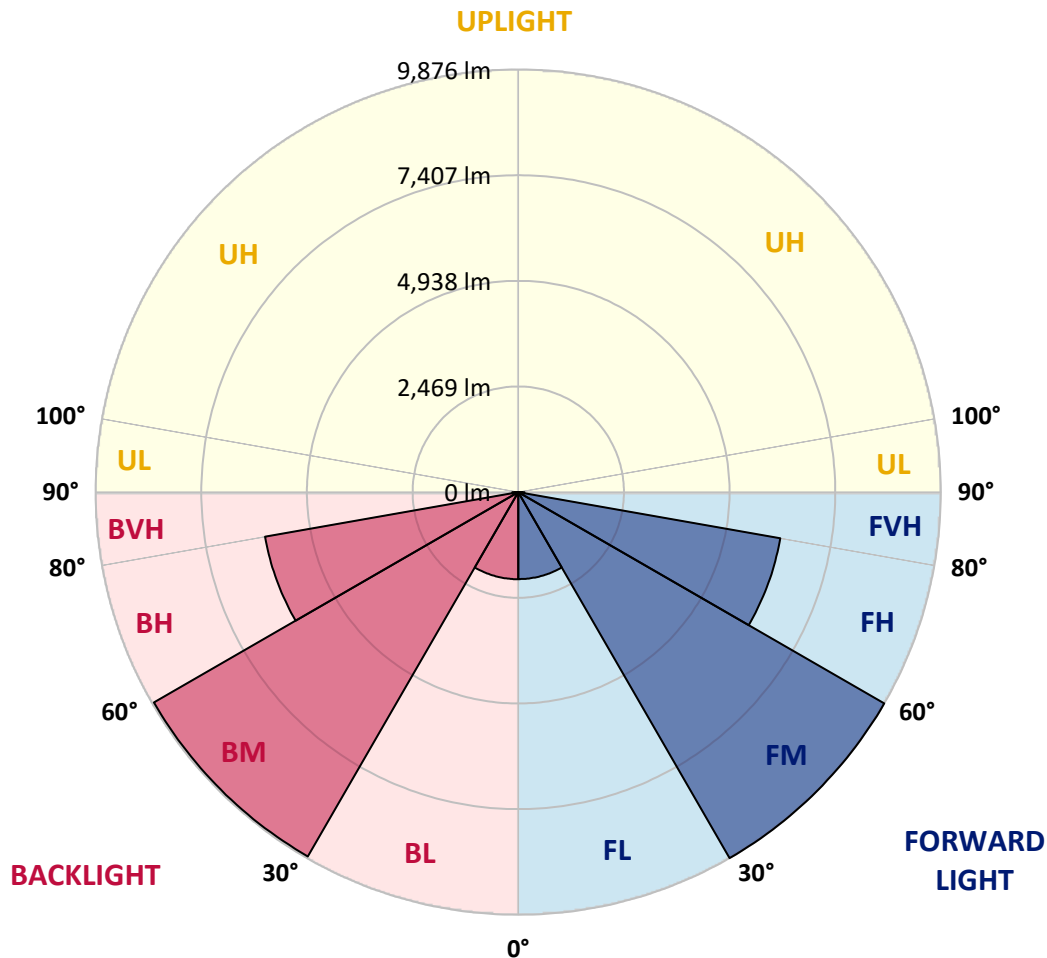


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.4	5.6			
FM (30°-60°)	9875.9	27.2			
FH (60°-80°)	6218.5	17.1			G3/7500
FVH (80°-90°)	143.7	0.4			G2/225
BL (0°-30°)	2034.6	5.6	B3/2500		
BM (30°-60°)	9831.8	27.1	B5		
BH (60°-80°)	6008.4	16.6	B5		G5
BVH (80°-90°)	137.6	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°	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3
2.5°	3691.9	3691.9	3688.0	3707.5	3727.1	3734.9	3750.5	3754.5	3777.9	3758.4	3797.5
5°	3680.1	3676.2	3707.5	3754.5	3754.5	3805.3	3836.6	3879.6	3891.3	3914.8	3922.6
7.5°	3762.3	3754.5	3738.8	3789.7	3832.7	3910.9	3953.9	4028.2	4055.6	4086.9	4122.1
10°	3813.1	3813.1	3797.5	3887.4	3926.5	4032.1	4126.0	4200.3	4305.9	4341.1	4345.0
12.5°	3820.9	3832.7	3879.6	3996.9	4106.4	4243.3	4313.7	4454.5	4560.1	4626.6	4650.0
15°	3938.3	3914.8	3965.6	4126.0	4286.3	4407.6	4532.7	4634.4	4786.9	4873.0	4927.7
17.5°	4043.9	4020.4	4114.3	4305.9	4470.1	4657.9	4767.4	4876.9	4986.4	5064.6	5068.5
20°	4212.0	4231.6	4313.7	4521.0	4736.1	4900.3	5025.5	5045.0	5099.8	5213.2	5193.7
22.5°	4419.3	4403.7	4575.7	4802.6	5037.2	5174.1	5244.5	5193.7	5166.3	5287.5	5314.9
25°	4626.6	4673.5	4829.9	5041.1	5322.7	5506.5	5526.1	5385.3	5283.6	5326.6	5314.9
27.5°	4943.4	4951.2	5115.4	5365.7	5651.2	5811.6	5799.8	5600.4	5404.8	5408.8	5416.6
30°	5350.1	5311.0	5490.9	5717.7	5999.3	6144.0	6163.6	5878.1	5616.0	5537.8	5557.4
32.5°	5741.2	5788.1	5944.6	6202.7	6409.9	6492.1	6449.1	6194.8	5854.6	5749.0	5760.7
35°	6241.8	6234.0	6449.1	6668.1	6824.5	6840.1	6804.9	6433.4	6112.7	5975.8	5921.1
37.5°	6777.6	6848.0	6988.8	7168.7	7332.9	7340.7	7149.1	6851.9	6456.9	6230.0	6296.5
40°	7375.9	7454.2	7555.8	7817.9	7939.1	7814.0	7618.4	7215.6	6804.9	6605.5	6636.8
42.5°	7903.9	7939.1	8146.4	8455.3	8514.0	8459.3	8169.8	7681.0	7203.9	6984.8	7000.5
45°	8388.9	8435.8	8705.6	8983.3	9120.2	9026.3	8690.0	8224.6	7669.3	7481.5	7407.2
47.5°	8834.7	8928.6	9190.6	9476.1	9687.3	9695.1	9280.5	8717.4	8130.7	7884.4	7880.4
50°	9135.8	9272.7	9530.8	9855.4	10164.4	10285.6	9871.1	9264.9	8635.2	8373.2	8345.8
52.5°	9300.1	9440.9	9699.0	10203.5	10547.7	10735.4	10539.8	9777.2	9225.8	8952.0	8909.0
55°	9100.6	9194.5	9616.9	10324.7	10856.6	11165.6	11036.5	10485.1	9812.4	9589.5	9628.6
57.5°	8252.0	8447.5	8967.7	9851.5	10848.8	11607.5	11595.8	11153.9	10489.0	10277.8	10285.6
60°	6793.2	6957.5	7598.9	8834.7	10410.8	11787.4	12202.0	11803.1	11247.7	11001.3	10993.5
62.5°	4794.8	5002.0	5745.1	7094.4	9120.2	11537.1	12898.1	12620.4	11990.8	11810.9	11877.4
65°	2682.9	2808.0	3496.3	4716.5	6949.7	10160.5	13023.3	13469.1	12745.6	12471.8	12483.6
67.5°	1435.3	1482.2	1802.9	2475.6	4251.1	7833.5	11760.0	13958.0	13563.0	13089.7	13015.4
70°	985.5	1001.2	1083.3	1267.1	2010.2	4685.2	8869.9	13085.8	14177.0	13531.7	13656.8
72.5°	833.0	825.2	844.8	864.3	1052.0	2096.2	5205.4	10070.5	13383.1	13140.6	13093.7
75°	723.5	719.6	727.4	707.9	731.3	923.0	2303.5	6277.0	9796.8	10934.8	11110.8
77.5°	598.4	602.3	606.2	586.6	578.8	610.1	926.9	2757.2	4822.1	5322.7	5741.2
80°	453.7	461.5	492.8	473.2	441.9	445.8	547.5	923.0	1384.5	1255.4	1294.5
82.5°	309.0	312.9	379.4	355.9	332.4	301.1	352.0	477.1	539.7	410.6	359.8
85°	219.0	215.1	246.4	226.8	211.2	152.5	211.2	269.9	324.6	203.4	183.8
87.5°	50.8	50.8	101.7	82.1	78.2	62.6	82.1	105.6	140.8	90.0	82.1
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°	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3	3715.3
2.5°	3785.7	3750.5	3750.5	3742.7	3711.4	3703.6	3676.2	3684.1	3664.5	3644.9
5°	3918.7	3871.8	3871.8	3805.3	3742.7	3734.9	3703.6	3703.6	3672.3	3680.1
7.5°	4102.5	4059.5	3989.1	3930.4	3844.4	3809.2	3750.5	3742.7	3734.9	3719.3
10°	4321.5	4266.8	4196.4	4075.1	4004.8	3938.3	3879.6	3797.5	3777.9	3781.8
12.5°	4618.8	4532.7	4380.2	4274.6	4184.7	4098.6	4012.6	3891.3	3864.0	3875.7
15°	4829.9	4720.4	4567.9	4528.8	4407.6	4302.0	4161.2	4024.3	3977.4	3965.6
17.5°	5002.0	4912.1	4822.1	4763.5	4665.7	4536.6	4341.1	4184.7	4079.1	4067.3
20°	5142.8	5025.5	5005.9	5041.1	4919.9	4833.9	4595.3	4403.7	4262.9	4204.2
22.5°	5228.9	5154.6	5209.3	5240.6	5232.8	5088.1	4841.7	4618.8	4442.8	4388.0
25°	5322.7	5236.7	5432.2	5537.8	5565.2	5326.6	5135.0	4841.7	4669.6	4634.4
27.5°	5369.7	5400.9	5627.8	5850.7	5831.1	5647.3	5389.2	5127.2	4990.3	4927.7
30°	5506.5	5557.4	5901.5	6151.8	6155.7	5975.8	5780.3	5483.1	5330.5	5303.2
32.5°	5752.9	5815.5	6183.1	6449.1	6496.0	6359.1	6163.6	5979.8	5823.3	5760.7
35°	5940.6	6101.0	6515.5	6758.0	6883.2	6801.0	6691.5	6499.9	6335.6	6280.9
37.5°	6210.5	6433.4	6832.3	7160.8	7301.6	7293.8	7211.7	7004.4	6867.5	6820.6
40°	6597.7	6820.6	7184.3	7618.4	7880.4	7868.7	7821.8	7661.4	7458.1	7434.6
42.5°	7008.3	7192.1	7665.3	8162.0	8537.5	8498.4	8373.2	8185.5	8044.7	8013.4
45°	7407.2	7692.7	8130.7	8768.2	9049.8	9147.6	8999.0	8678.3	8517.9	8498.4
47.5°	7907.8	8134.7	8682.2	9253.2	9671.6	9687.3	9433.1	9135.8	8842.5	8905.1
50°	8353.7	8654.8	9210.1	9835.9	10336.5	10156.6	9832.0	9460.4	9249.3	9167.1
52.5°	8830.8	9198.4	9843.7	10481.2	10758.9	10579.0	10051.0	9636.4	9315.7	9280.5
55°	9526.9	9718.6	10563.3	11052.2	11142.1	10762.8	9984.5	9397.9	8983.3	8881.6
57.5°	10234.8	10457.7	11196.9	11619.3	11525.4	10661.1	9554.3	8647.0	8103.4	7958.7
60°	10950.5	11224.3	11846.1	12233.3	11748.3	9961.0	8338.0	7168.7	6535.1	6406.0
62.5°	11748.3	12104.2	12659.6	12796.4	11087.4	8576.6	6617.2	5174.1	4532.7	4317.6
65°	12456.2	12819.9	13504.3	12679.1	9683.4	6398.2	4278.5	2956.6	2483.4	2311.3
67.5°	13038.9	13449.6	13785.9	11220.3	7090.4	3746.6	2229.2	1556.5	1380.5	1318.0
70°	13500.4	14184.8	12612.6	8248.1	4051.7	1826.4	1204.6	1024.7	1001.2	985.5
72.5°	13097.6	13007.6	9417.4	4759.6	1775.5	1005.1	872.1	844.8	840.8	844.8
75°	10711.9	9554.3	5631.7	2068.9	891.7	727.4	723.5	711.8	731.3	731.3
77.5°	5197.6	4544.5	2354.4	887.8	586.6	571.0	590.5	590.5	590.5	590.5
80°	1204.6	1333.6	840.8	539.7	426.3	426.3	469.3	473.2	453.7	445.8
82.5°	410.6	547.5	461.5	340.2	281.6	316.8	355.9	363.7	301.1	305.0
85°	203.4	320.7	250.3	195.5	144.7	195.5	230.7	242.5	207.3	199.5
87.5°	93.9	140.8	93.9	66.5	50.8	70.4	66.5	54.8	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)