

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: P481183

Luminaire Tested: **IFLD-M-SA4E-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481183
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31187.1 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

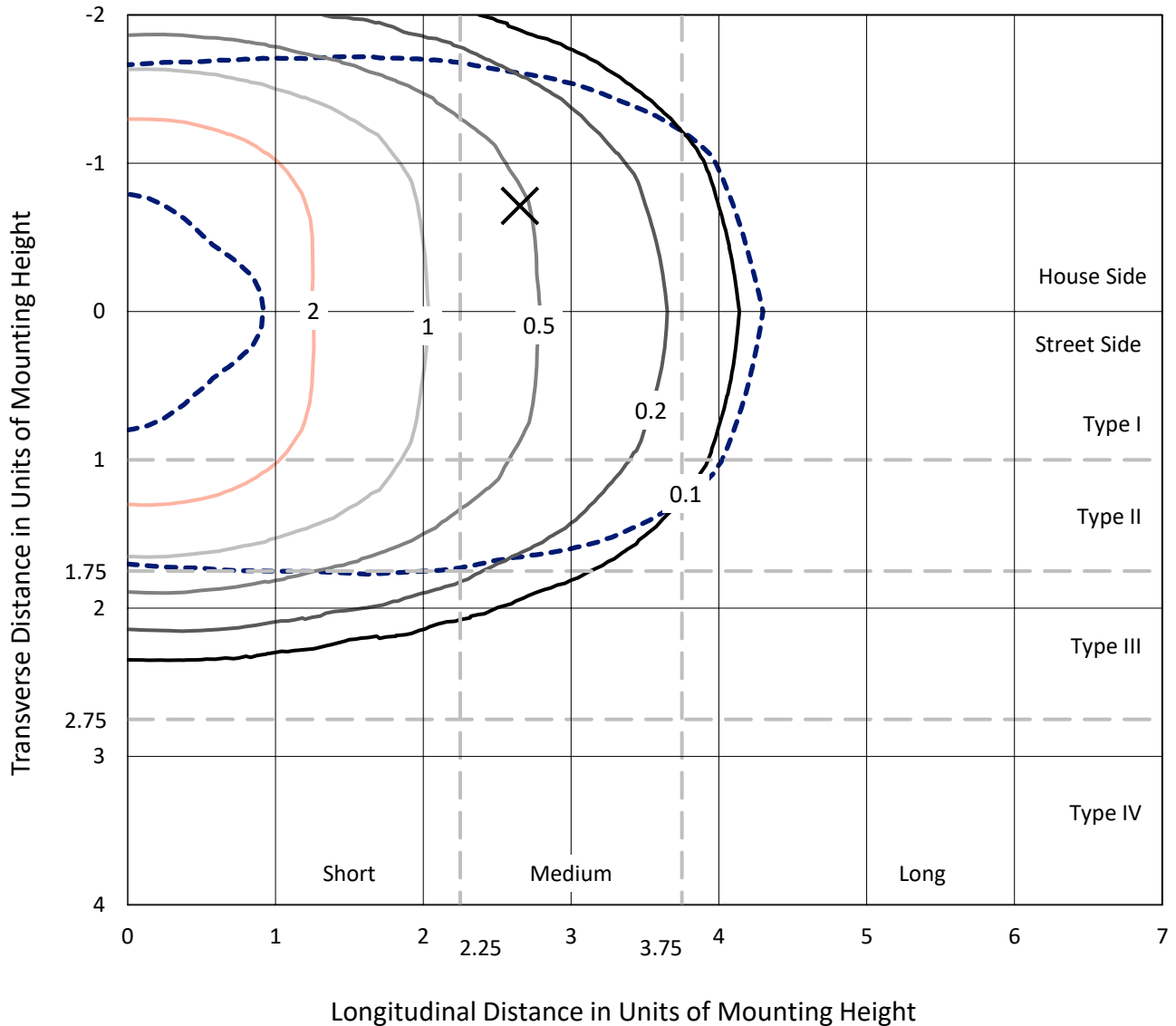
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

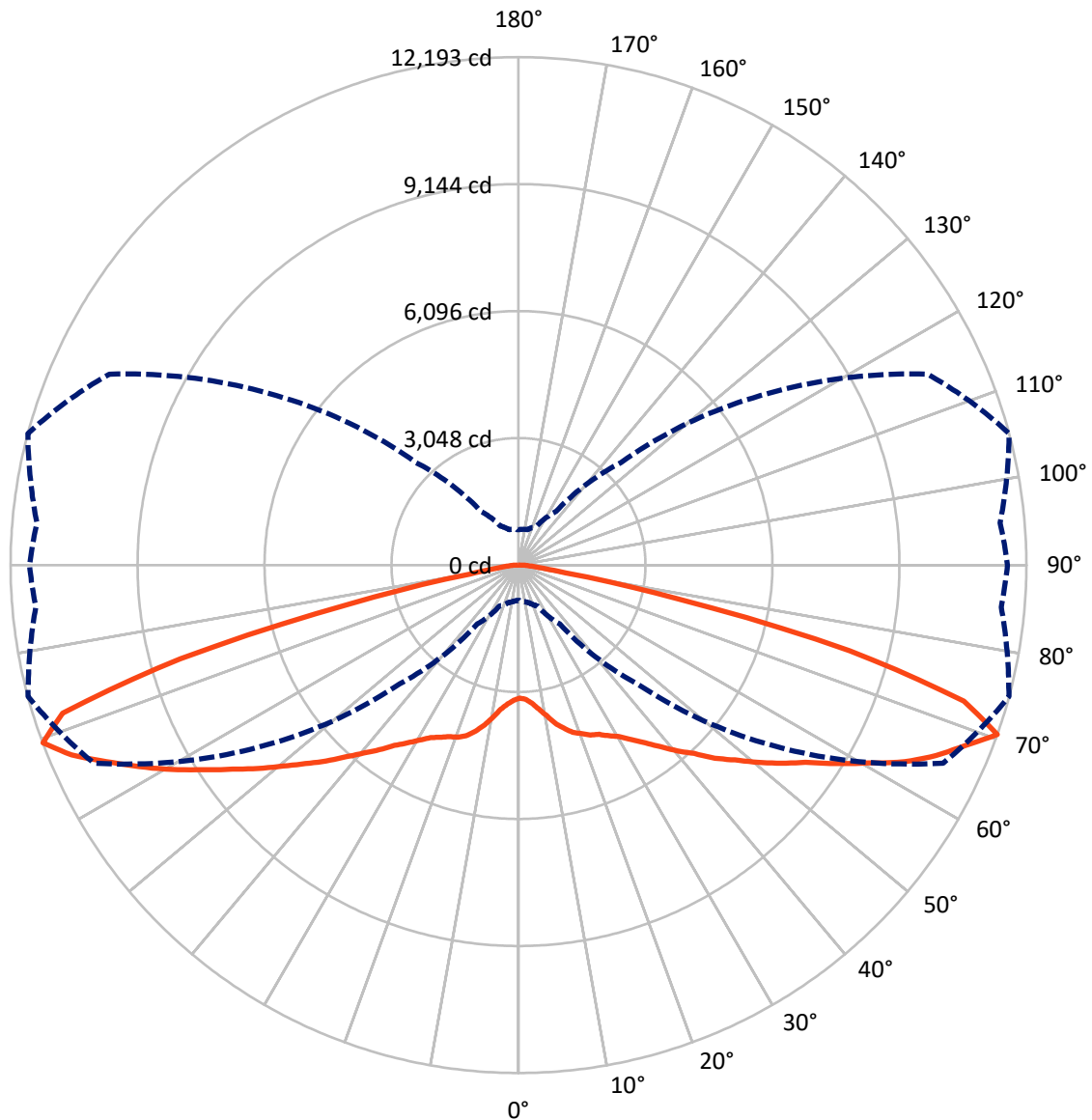
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 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	15482.6	0.0	15482.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15704.5	0.0	15704.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	31187.1	0.0	31187.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.0
10°-20°	1082.3	3.5
20°-30°	2095.7	6.7
30°-40°	3544.7	11.4
40°-50°	5654.8	18.1
50°-60°	7740.2	24.8
60°-70°	7295.7	23.4
70°-80°	3214.0	10.3
80°-90°	241.8	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°	31187.1	100.0
0°-180°	31187.1	100.0

Coefficient of Utilization

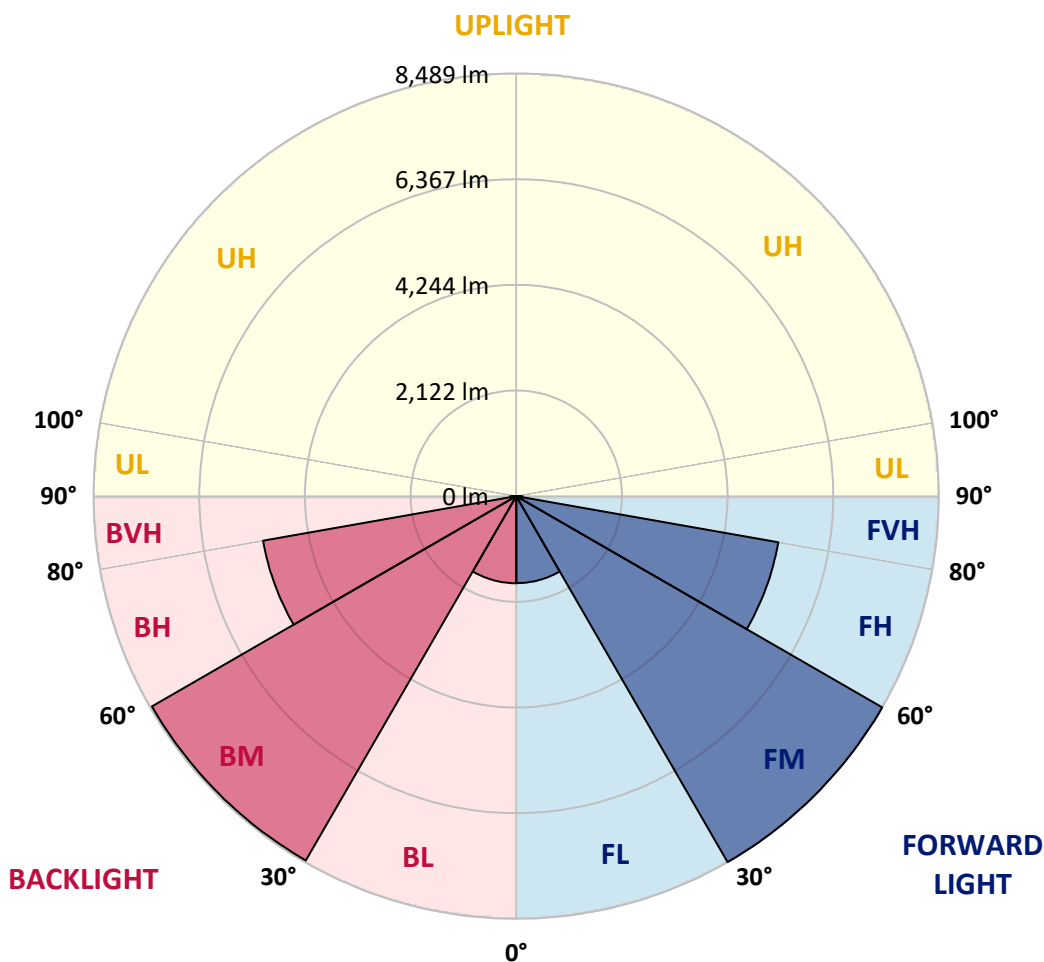


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.0	5.6			
FM (30°-60°)	8488.8	27.2			
FH (60°-80°)	5345.1	17.1			G3/7500
FVH (80°-90°)	123.5	0.4			G2/225
BL (0°-30°)	1748.9	5.6	B3/2500		
BM (30°-60°)	8450.9	27.1	B4/8500		
BH (60°-80°)	5164.5	16.6	B5		G5
BVH (80°-90°)	118.3	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°	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5
2.5°	3173.4	3173.4	3170.0	3186.8	3203.6	3210.3	3223.8	3227.1	3247.3	3230.5	3264.1
5°	3163.3	3159.9	3186.8	3227.1	3227.1	3270.8	3297.7	3334.7	3344.8	3365.0	3371.7
7.5°	3233.9	3227.1	3213.7	3257.4	3294.4	3361.6	3398.6	3462.5	3486.0	3512.9	3543.1
10°	3277.6	3277.6	3264.1	3341.4	3375.1	3465.8	3546.5	3610.4	3701.1	3731.4	3734.7
12.5°	3284.3	3294.4	3334.7	3435.6	3529.7	3647.3	3707.8	3828.9	3919.6	3976.8	3996.9
15°	3385.1	3365.0	3408.7	3546.5	3684.3	3788.5	3896.1	3983.5	4114.6	4188.6	4235.6
17.5°	3475.9	3455.7	3536.4	3701.1	3842.3	4003.7	4097.8	4191.9	4286.0	4353.3	4356.6
20°	3620.4	3637.3	3707.8	3886.0	4070.9	4212.1	4319.7	4336.5	4383.5	4481.0	4464.2
22.5°	3798.6	3785.2	3933.1	4128.1	4329.7	4447.4	4507.9	4464.2	4440.7	4544.9	4568.4
25°	3976.8	4017.1	4151.6	4333.1	4575.1	4733.1	4749.9	4628.9	4541.5	4578.5	4568.4
27.5°	4249.1	4255.8	4397.0	4612.1	4857.5	4995.3	4985.3	4813.8	4645.7	4649.1	4655.8
30°	4598.7	4565.1	4719.7	4914.7	5156.7	5281.1	5297.9	5052.5	4827.3	4760.0	4776.8
32.5°	4934.8	4975.2	5109.6	5331.5	5509.7	5580.3	5543.3	5324.8	5032.3	4941.6	4951.6
35°	5365.1	5358.4	5543.3	5731.5	5866.0	5879.4	5849.2	5529.8	5254.2	5136.5	5089.5
37.5°	5825.7	5886.2	6007.2	6161.8	6303.0	6309.7	6145.0	5889.5	5550.0	5355.0	5412.2
40°	6340.0	6407.2	6494.6	6719.8	6824.1	6716.5	6548.4	6202.2	5849.2	5677.8	5704.6
42.5°	6793.8	6824.1	7002.2	7267.8	7318.2	7271.2	7022.4	6602.2	6192.1	6003.8	6017.3
45°	7210.6	7251.0	7482.9	7721.6	7839.3	7758.6	7469.5	7069.5	6592.1	6430.7	6366.9
47.5°	7593.9	7674.5	7899.8	8145.2	8326.7	8333.4	7977.1	7493.0	6988.8	6777.0	6773.6
50°	7852.7	7970.4	8192.2	8471.2	8736.8	8841.0	8484.7	7963.6	7422.4	7197.2	7173.7
52.5°	7993.9	8114.9	8336.8	8770.4	9066.2	9227.6	9059.5	8404.0	7930.0	7694.7	7657.7
55°	7822.5	7903.1	8266.2	8874.6	9331.8	9597.4	9486.4	9012.5	8434.3	8242.7	8276.3
57.5°	7093.0	7261.1	7708.2	8467.9	9325.1	9977.2	9967.2	9587.3	9015.8	8834.3	8841.0
60°	5839.1	5980.3	6531.6	7593.9	8948.6	10131.9	10488.2	10145.3	9668.0	9456.2	9449.5
62.5°	4121.3	4299.5	4938.2	6098.0	7839.3	9916.7	11086.6	10847.9	10306.7	10152.0	10209.2
65°	2306.1	2413.6	3005.3	4054.1	5973.6	8733.4	11194.1	11577.4	10955.5	10720.2	10730.2
67.5°	1233.7	1274.0	1549.7	2127.9	3654.1	6733.3	10108.3	11997.6	11658.0	11251.3	11187.4
70°	847.1	860.6	931.2	1089.2	1727.9	4027.2	7624.1	11247.9	12185.8	11631.2	11738.7
72.5°	716.0	709.3	726.1	742.9	904.3	1801.8	4474.3	8656.1	11503.4	11295.0	11254.7
75°	621.9	618.5	625.3	608.5	628.6	793.3	1980.0	5395.4	8420.8	9399.0	9550.3
77.5°	514.3	517.7	521.0	504.2	497.5	524.4	796.7	2369.9	4144.9	4575.1	4934.8
80°	389.9	396.7	423.6	406.8	379.9	383.2	470.6	793.3	1190.0	1079.1	1112.7
82.5°	265.6	268.9	326.1	305.9	285.7	258.8	302.5	410.1	463.9	353.0	309.3
85°	188.2	184.9	211.8	195.0	181.5	131.1	181.5	232.0	279.0	174.8	158.0
87.5°	43.7	43.7	87.4	70.6	67.2	53.8	70.6	90.8	121.0	77.3	70.6
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°	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5	3193.5
2.5°	3254.0	3223.8	3223.8	3217.1	3190.2	3183.4	3159.9	3166.6	3149.8	3133.0
5°	3368.3	3328.0	3328.0	3270.8	3217.1	3210.3	3183.4	3183.4	3156.5	3163.3
7.5°	3526.3	3489.3	3428.8	3378.4	3304.5	3274.2	3223.8	3217.1	3210.3	3196.9
10°	3714.6	3667.5	3607.0	3502.8	3442.3	3385.1	3334.7	3264.1	3247.3	3250.7
12.5°	3970.1	3896.1	3765.0	3674.2	3596.9	3523.0	3449.0	3344.8	3321.3	3331.4
15°	4151.6	4057.5	3926.4	3892.7	3788.5	3697.8	3576.7	3459.1	3418.8	3408.7
17.5°	4299.5	4222.2	4144.9	4094.4	4010.4	3899.5	3731.4	3596.9	3506.2	3496.1
20°	4420.5	4319.7	4302.9	4333.1	4228.9	4154.9	3949.9	3785.2	3664.1	3613.7
22.5°	4494.5	4430.6	4477.7	4504.6	4497.8	4373.4	4161.7	3970.1	3818.8	3771.7
25°	4575.1	4501.2	4669.3	4760.0	4783.6	4578.5	4413.8	4161.7	4013.8	3983.5
27.5°	4615.5	4642.4	4837.3	5029.0	5012.2	4854.2	4632.3	4407.1	4289.4	4235.6
30°	4733.1	4776.8	5072.7	5287.8	5291.2	5136.5	4968.5	4713.0	4581.9	4558.3
32.5°	4944.9	4998.7	5314.7	5543.3	5583.6	5466.0	5297.9	5139.9	5005.4	4951.6
35°	5106.3	5244.1	5600.4	5808.9	5916.4	5845.8	5751.7	5587.0	5445.8	5398.7
37.5°	5338.2	5529.8	5872.7	6155.1	6276.1	6269.4	6198.8	6020.6	5903.0	5862.6
40°	5671.0	5862.6	6175.3	6548.4	6773.6	6763.5	6723.2	6585.4	6410.6	6390.4
42.5°	6024.0	6182.0	6588.7	7015.7	7338.4	7304.8	7197.2	7035.8	6914.8	6887.9
45°	6366.9	6612.3	6988.8	7536.7	7778.8	7862.8	7735.1	7459.4	7321.6	7304.8
47.5°	6797.2	6992.1	7462.8	7953.6	8313.2	8326.7	8108.2	7852.7	7600.6	7654.4
50°	7180.4	7439.2	7916.6	8454.4	8884.7	8730.1	8451.1	8131.7	7950.2	7879.6
52.5°	7590.5	7906.5	8461.2	9009.1	9247.8	9093.1	8639.3	8283.0	8007.3	7977.1
55°	8188.9	8353.6	9079.7	9499.9	9577.2	9251.1	8582.2	8077.9	7721.6	7634.2
57.5°	8797.3	8988.9	9624.3	9987.3	9906.6	9163.7	8212.4	7432.5	6965.2	6840.9
60°	9412.5	9647.8	10182.3	10515.1	10098.3	8562.0	7166.9	6161.8	5617.2	5506.3
62.5°	10098.3	10404.2	10881.5	10999.2	9530.1	7372.0	5687.8	4447.4	3896.1	3711.2
65°	10706.7	11019.3	11607.6	10898.3	8323.3	5499.6	3677.6	2541.4	2134.6	1986.7
67.5°	11207.6	11560.6	11849.7	9644.4	6094.6	3220.4	1916.1	1337.9	1186.6	1132.9
70°	11604.3	12192.5	10841.2	7089.6	3482.6	1569.9	1035.4	880.7	860.6	847.1
72.5°	11258.0	11180.7	8094.7	4091.1	1526.2	863.9	749.6	726.1	722.7	726.1
75°	9207.4	8212.4	4840.7	1778.3	766.4	625.3	621.9	611.8	628.6	628.6
77.5°	4467.6	3906.2	2023.7	763.1	504.2	490.8	507.6	507.6	507.6	507.6
80°	1035.4	1146.3	722.7	463.9	366.4	366.4	403.4	406.8	389.9	383.2
82.5°	353.0	470.6	396.7	292.5	242.0	272.3	305.9	312.6	258.8	262.2
85°	174.8	275.7	215.1	168.1	124.4	168.1	198.3	208.4	178.2	171.4
87.5°	80.7	121.0	80.7	57.1	43.7	60.5	57.1	47.1	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)