

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: P481300

Luminaire Tested: **IFLD-M-SA4E-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

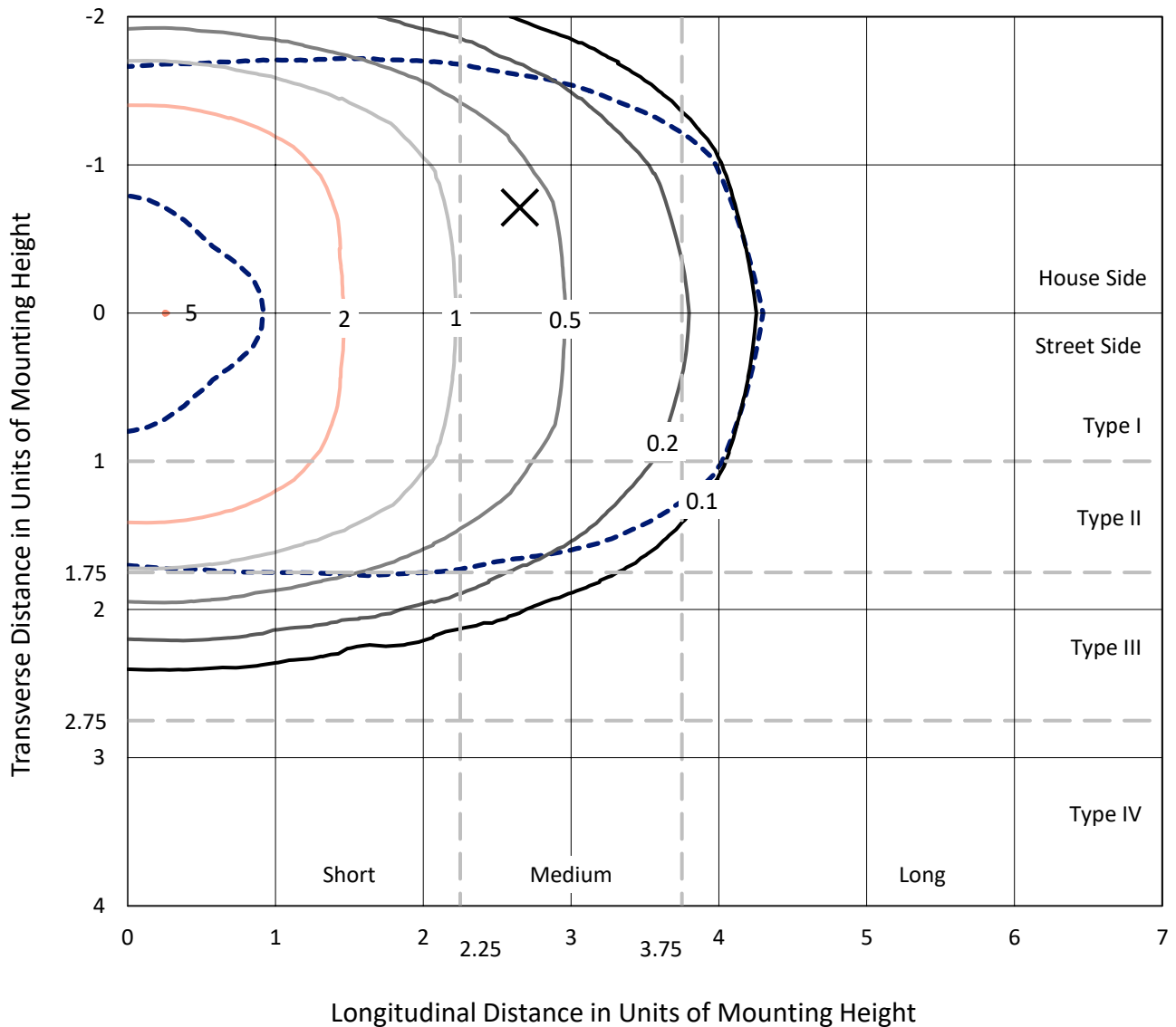
Lumens per Lamp: N/A
Luminaire Lumens: 37291.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

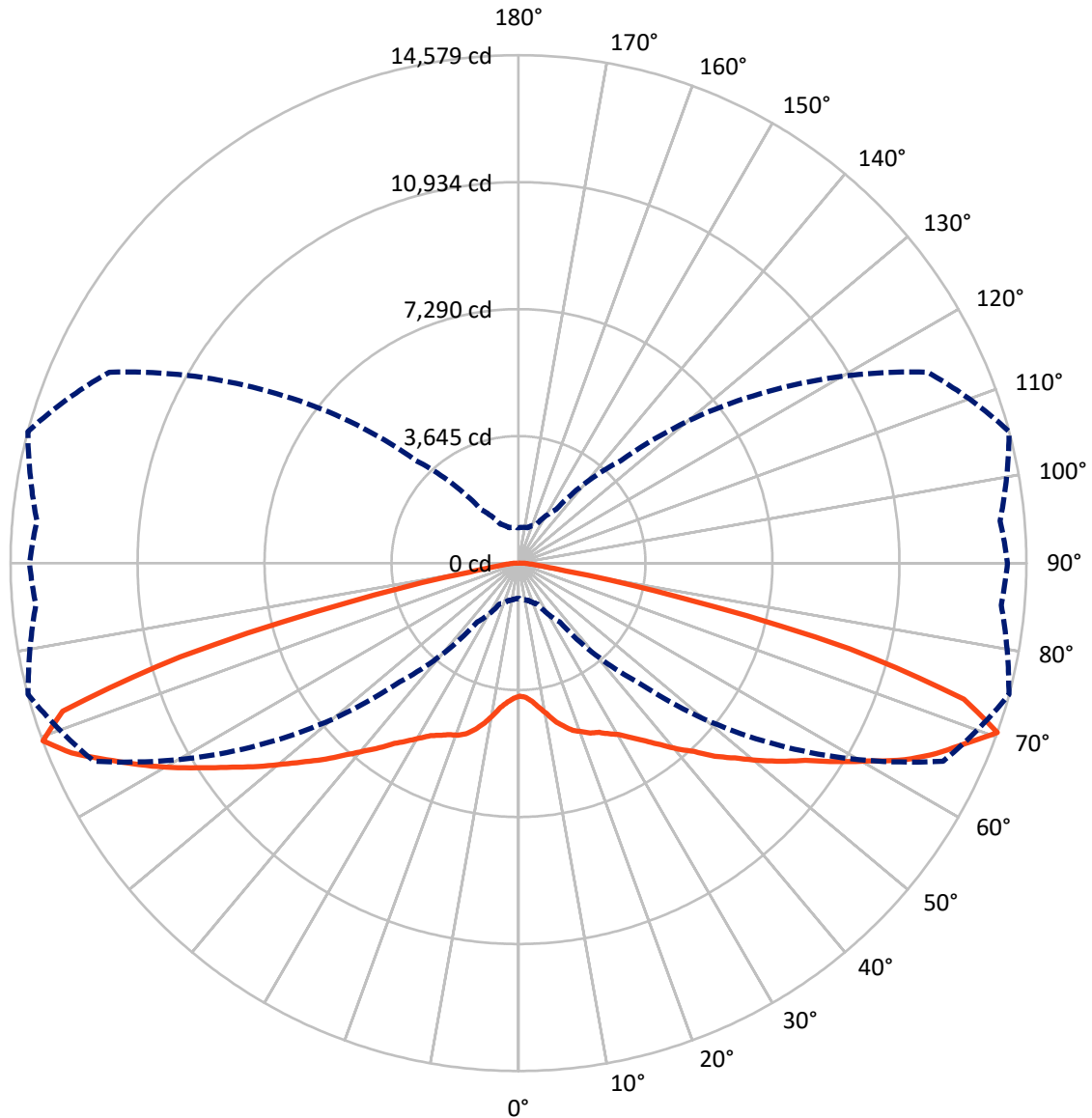
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	18513.2	0.0	18513.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18778.5	0.0	18778.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	37291.7	0.0	37291.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	1.0
10°-20°	1294.1	3.5
20°-30°	2505.9	6.7
30°-40°	4238.5	11.4
40°-50°	6761.7	18.1
50°-60°	9255.3	24.8
60°-70°	8723.8	23.4
70°-80°	3843.1	10.3
80°-90°	289.2	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°	37291.7	100.0
0°-180°	37291.7	100.0

Coefficient of Utilization

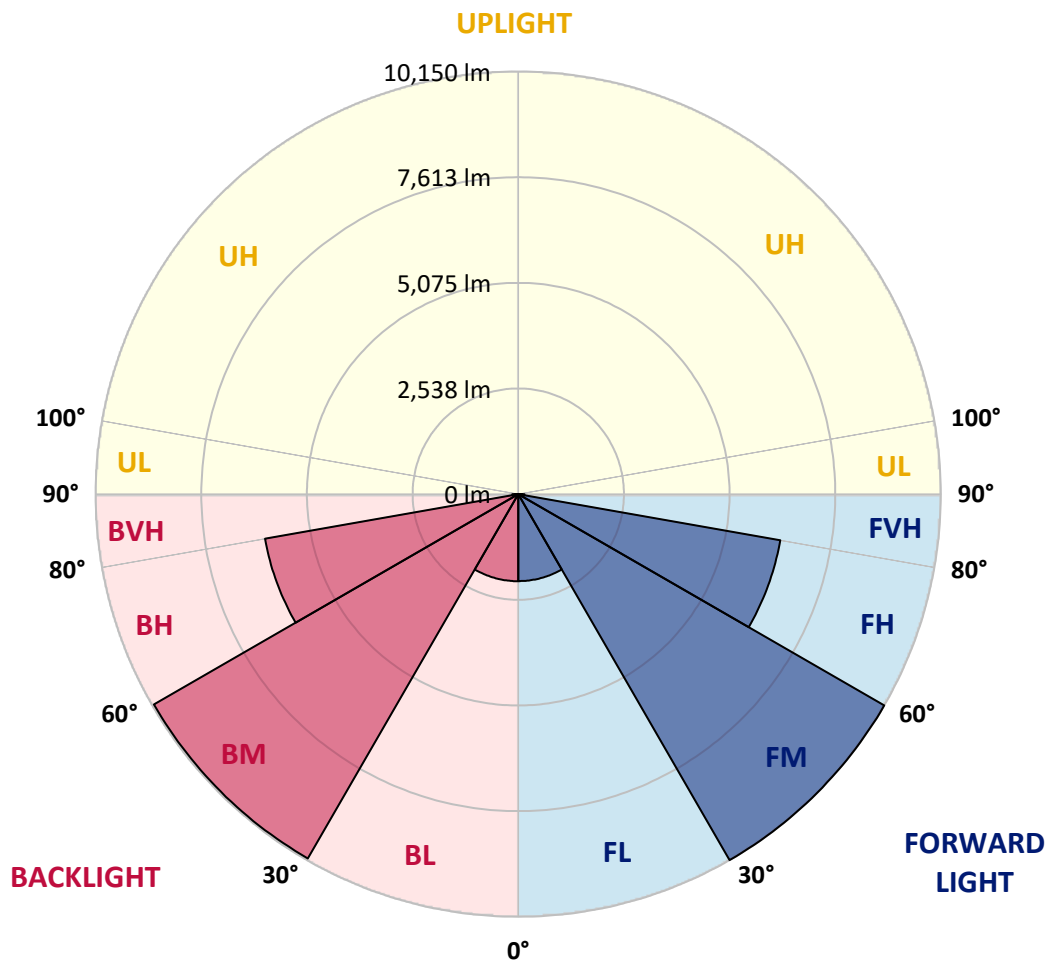


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.9	5.6			
FM (30°-60°)	10150.5	27.2			
FH (60°-80°)	6391.4	17.1			G3/7500
FVH (80°-90°)	147.7	0.4			G2/225
BL (0°-30°)	2091.2	5.6	B3/2500		
BM (30°-60°)	10105.1	27.1	B5		
BH (60°-80°)	6175.4	16.6	B5		G5
BVH (80°-90°)	141.4	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°	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6
2.5°	3794.5	3794.5	3790.5	3810.6	3830.7	3838.7	3854.8	3858.8	3882.9	3862.9	3903.0
5°	3782.5	3778.4	3810.6	3858.8	3858.8	3911.1	3943.2	3987.5	3999.5	4023.6	4031.7
7.5°	3866.9	3858.8	3842.8	3895.0	3939.2	4019.6	4063.8	4140.2	4168.3	4200.5	4236.7
10°	3919.1	3919.1	3903.0	3995.5	4035.7	4144.2	4240.7	4317.1	4425.6	4461.8	4465.8
12.5°	3927.2	3939.2	3987.5	4108.0	4220.6	4361.3	4433.6	4578.3	4686.9	4755.2	4779.3
15°	4047.8	4023.6	4075.9	4240.7	4405.5	4530.1	4658.7	4763.2	4920.0	5008.4	5064.7
17.5°	4156.3	4132.2	4228.6	4425.6	4594.4	4787.4	4899.9	5012.5	5125.0	5205.4	5209.4
20°	4329.1	4349.2	4433.6	4646.7	4867.8	5036.6	5165.2	5185.3	5241.6	5358.1	5338.0
22.5°	4542.2	4526.1	4703.0	4936.1	5177.3	5318.0	5390.3	5338.0	5309.9	5434.5	5462.7
25°	4755.2	4803.4	4964.2	5181.3	5470.7	5659.6	5679.7	5535.0	5430.5	5474.7	5462.7
27.5°	5080.8	5088.8	5257.7	5514.9	5808.3	5973.1	5961.1	5756.1	5555.1	5559.1	5567.2
30°	5498.8	5458.6	5643.5	5876.7	6166.1	6314.8	6334.9	6041.5	5772.2	5691.8	5711.9
32.5°	5900.8	5949.0	6109.8	6375.1	6588.2	6672.6	6628.3	6367.1	6017.4	5908.8	5920.9
35°	6415.3	6407.3	6628.3	6853.4	7014.2	7030.3	6994.1	6612.3	6282.7	6142.0	6085.7
37.5°	6966.0	7038.3	7183.1	7368.0	7536.8	7544.8	7347.9	7042.4	6636.4	6403.2	6471.6
40°	7581.0	7661.4	7765.9	8035.2	8159.8	8031.2	7830.2	7416.2	6994.1	6789.1	6821.3
42.5°	8123.6	8159.8	8372.9	8690.4	8750.7	8694.4	8397.0	7894.5	7404.1	7179.0	7195.1
45°	8622.1	8670.3	8947.7	9233.1	9373.7	9277.3	8931.6	8453.3	7882.5	7689.5	7613.2
47.5°	9080.3	9176.8	9446.1	9739.5	9956.6	9964.6	9538.5	8959.7	8356.8	8103.5	8099.5
50°	9389.8	9530.5	9795.8	10129.4	10447.0	10571.6	10145.5	9522.5	8875.3	8606.0	8577.9
52.5°	9558.6	9703.4	9968.6	10487.2	10840.9	11033.8	10832.9	10049.0	9482.3	9200.9	9156.7
55°	9353.6	9450.1	9884.2	10611.8	11158.5	11476.0	11343.4	10776.6	10085.2	9856.1	9896.3
57.5°	8481.4	8682.4	9217.0	10125.4	11150.4	11930.2	11918.2	11463.9	10780.6	10563.6	10571.6
60°	6982.1	7150.9	7810.1	9080.3	10700.2	12115.1	12541.2	12131.2	11560.4	11307.2	11299.1
62.5°	4928.0	5141.1	5904.8	7291.6	9373.7	11857.9	13256.7	12971.3	12324.1	12139.2	12207.6
65°	2757.5	2886.1	3593.5	4847.7	7142.9	10443.0	13385.3	13843.6	13099.9	12818.6	12830.6
67.5°	1475.2	1523.4	1853.0	2544.4	4369.3	8051.3	12087.0	14346.0	13940.0	13453.7	13377.3
70°	1012.9	1029.0	1113.4	1302.4	2066.1	4815.5	9116.5	13449.6	14571.1	13907.9	14036.5
72.5°	856.2	848.1	868.2	888.3	1081.3	2154.5	5350.1	10350.5	13755.1	13505.9	13457.7
75°	743.6	739.6	747.6	727.6	751.7	948.6	2367.6	6451.5	10069.1	11238.8	11419.7
77.5°	615.0	619.0	623.0	602.9	594.9	627.1	952.6	2833.8	4956.2	5470.7	5900.8
80°	466.3	474.3	506.5	486.4	454.2	458.2	562.7	948.6	1422.9	1290.3	1330.5
82.5°	317.5	321.6	389.9	365.8	341.7	309.5	361.8	490.4	554.7	422.1	369.8
85°	225.1	221.1	253.2	233.1	217.1	156.8	217.1	277.4	333.6	209.0	188.9
87.5°	52.3	52.3	104.5	84.4	80.4	64.3	84.4	108.5	144.7	92.5	84.4
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°	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6	3818.6
2.5°	3891.0	3854.8	3854.8	3846.8	3814.6	3806.6	3778.4	3786.5	3766.4	3746.3
5°	4027.7	3979.4	3979.4	3911.1	3846.8	3838.7	3806.6	3806.6	3774.4	3782.5
7.5°	4216.6	4172.4	4100.0	4039.7	3951.3	3915.1	3854.8	3846.8	3838.7	3822.7
10°	4441.7	4385.4	4313.0	4188.4	4116.1	4047.8	3987.5	3903.0	3882.9	3887.0
12.5°	4747.2	4658.7	4502.0	4393.4	4301.0	4212.6	4124.1	3999.5	3971.4	3983.4
15°	4964.2	4851.7	4694.9	4654.7	4530.1	4421.6	4276.9	4136.2	4087.9	4075.9
17.5°	5141.1	5048.6	4956.2	4895.9	4795.4	4662.8	4461.8	4301.0	4192.5	4180.4
20°	5285.8	5165.2	5145.1	5181.3	5056.7	4968.2	4723.0	4526.1	4381.4	4321.1
22.5°	5374.2	5297.9	5354.1	5386.3	5378.2	5229.5	4976.3	4747.2	4566.3	4510.0
25°	5470.7	5382.3	5583.2	5691.8	5719.9	5474.7	5277.8	4976.3	4799.4	4763.2
27.5°	5518.9	5551.1	5784.2	6013.3	5993.2	5804.3	5539.0	5269.7	5129.0	5064.7
30°	5659.6	5711.9	6065.6	6322.9	6326.9	6142.0	5941.0	5635.5	5478.7	5450.6
32.5°	5912.9	5977.2	6355.0	6628.3	6676.6	6535.9	6334.9	6146.0	5985.2	5920.9
35°	6105.8	6270.6	6696.7	6945.9	7074.5	6990.1	6877.6	6680.6	6511.8	6455.5
37.5°	6383.1	6612.3	7022.3	7359.9	7504.6	7496.6	7412.2	7199.1	7058.4	7010.2
40°	6781.1	7010.2	7384.0	7830.2	8099.5	8087.5	8039.2	7874.4	7665.4	7641.3
42.5°	7203.2	7392.1	7878.4	8388.9	8774.8	8734.6	8606.0	8413.1	8268.3	8236.2
45°	7613.2	7906.6	8356.8	9012.0	9301.4	9401.9	9249.1	8919.5	8754.7	8734.6
47.5°	8127.7	8360.8	8923.5	9510.4	9940.5	9956.6	9695.3	9389.8	9088.4	9152.7
50°	8585.9	8895.4	9466.2	10109.3	10623.8	10438.9	10105.3	9723.5	9506.4	9422.0
52.5°	9076.3	9454.1	10117.4	10772.6	11058.0	10873.1	10330.4	9904.3	9574.7	9538.5
55°	9791.8	9988.7	10857.0	11359.4	11451.9	11062.0	10262.1	9659.1	9233.1	9128.5
57.5°	10519.3	10748.5	11508.2	11942.3	11845.8	10957.5	9819.9	8887.4	8328.6	8179.9
60°	11254.9	11536.3	12175.4	12573.4	12074.9	10238.0	8569.8	7368.0	6716.8	6584.1
62.5°	12074.9	12440.7	13011.5	13152.2	11395.6	8815.0	6801.2	5318.0	4658.7	4437.7
65°	12802.5	13176.3	13879.7	13031.6	9952.6	6576.1	4397.5	3038.8	2552.5	2375.6
67.5°	13401.4	13823.5	14169.1	11532.3	7287.6	3850.8	2291.2	1599.8	1418.9	1354.6
70°	13875.7	14579.1	12963.3	8477.4	4164.3	1877.2	1238.0	1053.1	1029.0	1012.9
72.5°	13461.7	13369.2	9679.2	4891.9	1824.9	1033.0	896.4	868.2	864.2	868.2
75°	11009.7	9819.9	5788.2	2126.4	916.5	747.6	743.6	731.6	751.7	751.7
77.5°	5342.1	4670.8	2419.8	912.5	602.9	586.9	607.0	607.0	607.0	607.0
80°	1238.0	1370.7	864.2	554.7	438.1	438.1	482.4	486.4	466.3	458.2
82.5°	422.1	562.7	474.3	349.7	289.4	325.6	365.8	373.8	309.5	313.5
85°	209.0	329.6	257.3	201.0	148.7	201.0	237.2	249.2	213.0	205.0
87.5°	96.5	144.7	96.5	68.3	52.3	72.4	68.3	56.3	32.2	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)