

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: P481301

Luminaire Tested: **IFLD-L-SA7A-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481301
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

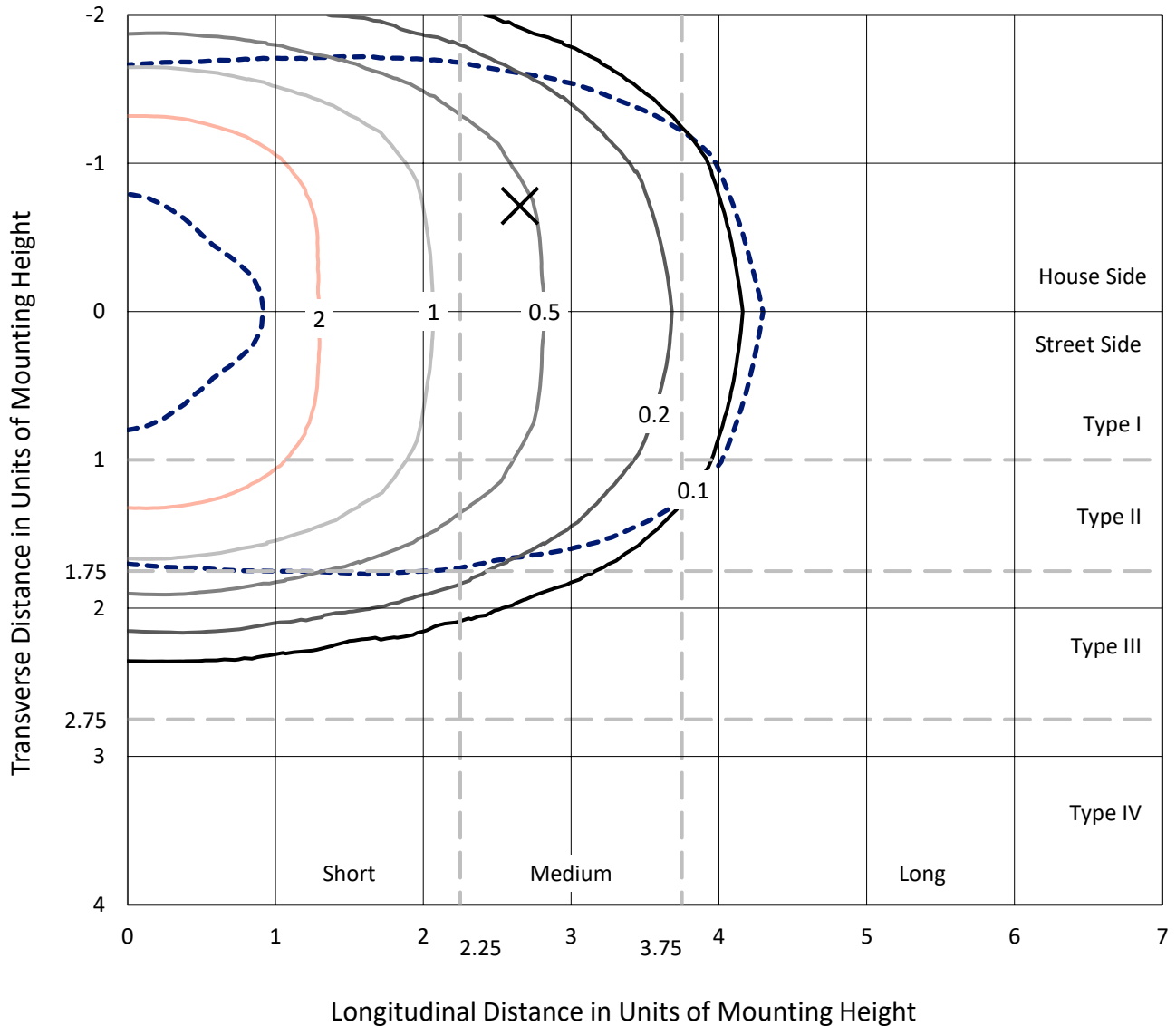
Lumens per Lamp: N/A
Luminaire Lumens: 32240.4 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 217.6
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

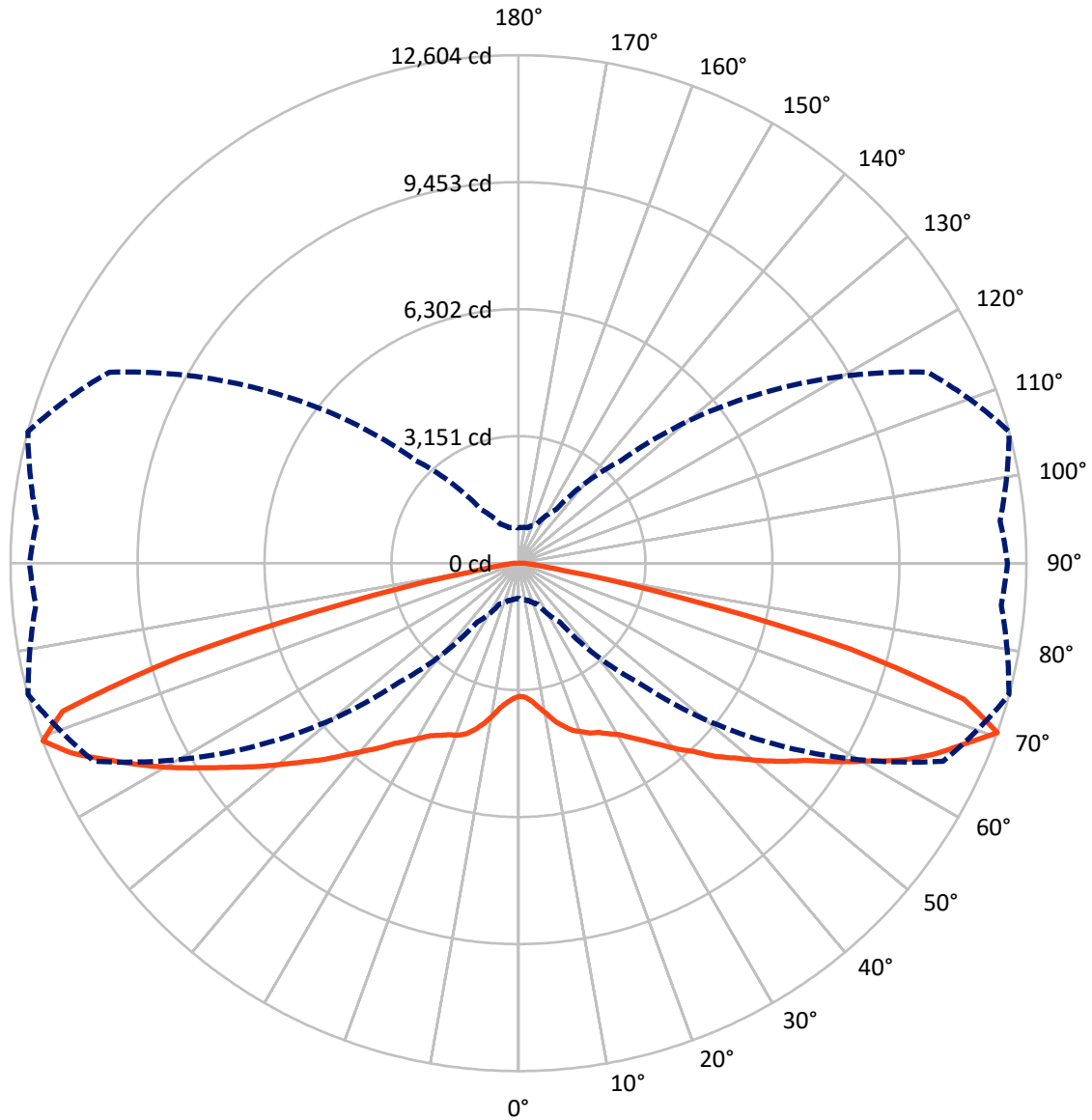
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	16005.5	0.0	16005.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	16234.9	0.0	16234.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	32240.4	0.0	32240.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	1.0
10°-20°	1118.9	3.5
20°-30°	2166.5	6.7
30°-40°	3664.4	11.4
40°-50°	5845.8	18.1
50°-60°	8001.6	24.8
60°-70°	7542.1	23.4
70°-80°	3322.5	10.3
80°-90°	250.0	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°	32240.4	100.0
0°-180°	32240.4	100.0

Coefficient of Utilization

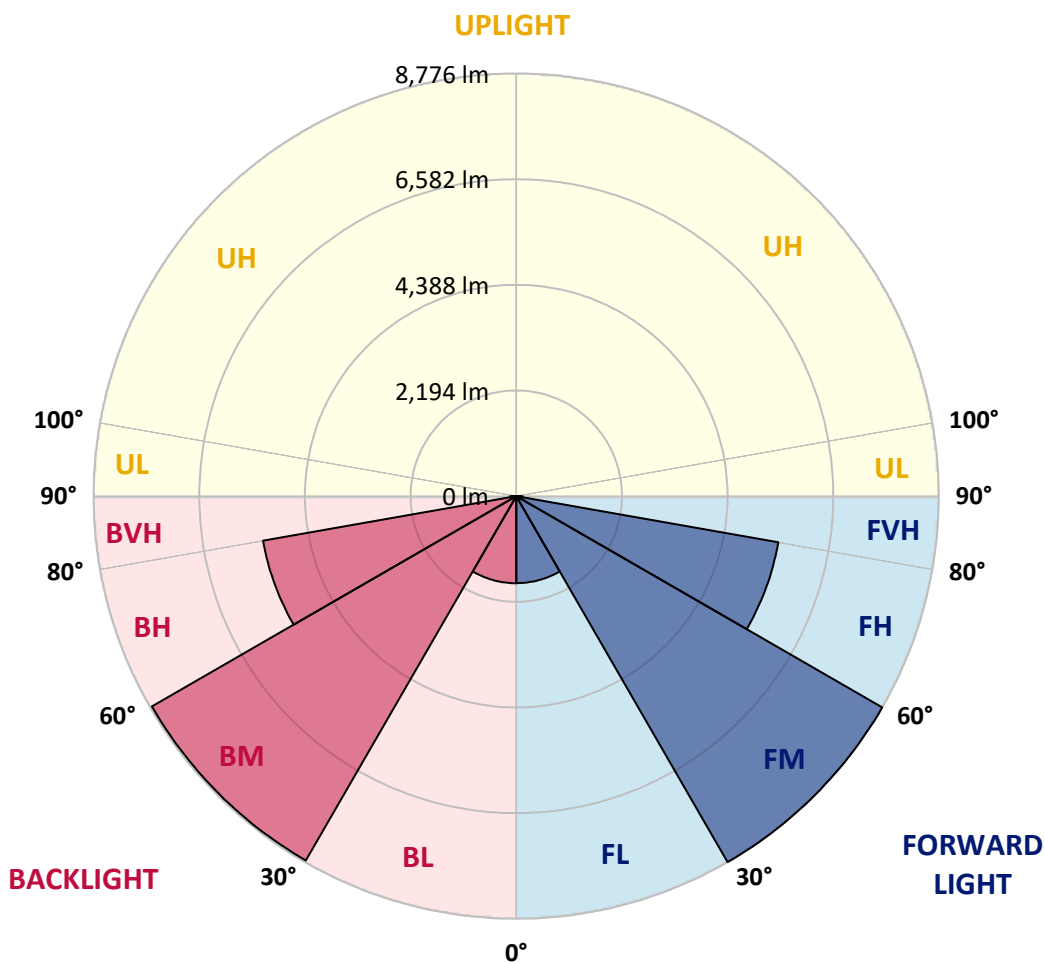


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.0	5.6			
FM (30°-60°)	8775.5	27.2			
FH (60°-80°)	5525.7	17.1			G3/7500
FVH (80°-90°)	127.7	0.4			G2/225
BL (0°-30°)	1807.9	5.6	B3/2500		
BM (30°-60°)	8736.3	27.1	B5		
BH (60°-80°)	5338.9	16.6	B5		G5
BVH (80°-90°)	122.3	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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3280.5	3280.5	3277.1	3294.4	3311.8	3318.8	3332.7	3336.1	3357.0	3339.6	3374.4
5°	3270.1	3266.6	3294.4	3336.1	3336.1	3381.3	3409.1	3447.3	3457.8	3478.6	3485.6
7.5°	3343.1	3336.1	3322.2	3367.4	3405.6	3475.1	3513.4	3579.4	3603.7	3631.5	3662.8
10°	3388.3	3388.3	3374.4	3454.3	3489.0	3582.9	3666.3	3732.3	3826.1	3857.4	3860.9
12.5°	3395.2	3405.6	3447.3	3551.6	3648.9	3770.5	3833.1	3958.2	4052.0	4111.1	4131.9
15°	3499.5	3478.6	3523.8	3666.3	3808.8	3916.5	4027.7	4118.0	4253.6	4330.0	4378.7
17.5°	3593.3	3572.4	3655.8	3826.1	3972.1	4138.9	4236.2	4333.5	4430.8	4500.3	4503.8
20°	3742.7	3760.1	3833.1	4017.3	4208.4	4354.4	4465.6	4482.9	4531.6	4632.4	4615.0
22.5°	3926.9	3913.0	4065.9	4267.5	4476.0	4597.6	4660.2	4615.0	4590.7	4698.4	4722.7
25°	4111.1	4152.8	4291.8	4479.5	4729.7	4893.0	4910.4	4785.3	4694.9	4733.1	4722.7
27.5°	4392.6	4399.5	4545.5	4767.9	5021.6	5164.1	5153.6	4976.4	4802.6	4806.1	4813.1
30°	4754.0	4719.2	4879.1	5080.7	5330.9	5459.4	5476.8	5223.1	4990.3	4920.8	4938.2
32.5°	5101.5	5143.2	5282.2	5511.6	5695.8	5768.7	5730.5	5504.6	5202.3	5108.5	5118.9
35°	5546.3	5539.4	5730.5	5925.1	6064.1	6078.0	6046.7	5716.6	5431.6	5310.0	5261.4
37.5°	6022.4	6085.0	6210.1	6369.9	6515.9	6522.8	6352.6	6088.4	5737.5	5535.9	5595.0
40°	6554.1	6623.6	6714.0	6946.8	7054.5	6943.3	6769.6	6411.6	6046.7	5869.5	5897.3
42.5°	7023.3	7054.5	7238.7	7513.3	7565.4	7516.7	7259.6	6825.2	6401.2	6206.6	6220.5
45°	7454.2	7495.9	7735.7	7982.4	8104.0	8020.6	7721.8	7308.2	6814.8	6647.9	6581.9
47.5°	7850.3	7933.7	8166.6	8420.3	8607.9	8614.9	8246.5	7746.1	7224.8	7005.9	7002.4
50°	8117.9	8239.6	8468.9	8757.4	9031.9	9139.6	8771.3	8232.6	7673.1	7440.3	7416.0
52.5°	8263.9	8389.0	8618.4	9066.6	9372.5	9539.3	9365.5	8687.9	8197.9	7954.6	7916.4
55°	8086.7	8170.1	8545.4	9174.4	9647.0	9921.5	9806.8	9316.9	8719.1	8521.0	8555.8
57.5°	7332.5	7506.3	7968.5	8753.9	9640.0	10314.2	10303.8	9911.1	9320.3	9132.7	9139.6
60°	6036.3	6182.3	6752.2	7850.3	9250.8	10474.1	10842.4	10488.0	9994.5	9775.6	9768.6
62.5°	4260.5	4444.7	5105.0	6303.9	8104.0	10251.7	11461.0	11214.3	10654.8	10494.9	10554.0
65°	2383.9	2495.2	3106.8	4191.0	6175.3	9028.4	11572.2	11968.4	11325.5	11082.2	11092.7
67.5°	1275.4	1317.1	1602.0	2199.8	3777.5	6960.7	10449.8	12402.8	12051.8	11631.3	11565.3
70°	875.7	889.6	962.6	1125.9	1786.2	4163.2	7881.6	11627.8	12597.4	12024.0	12135.2
72.5°	740.2	733.3	750.6	768.0	934.8	1862.7	4625.4	8948.5	11891.9	11676.5	11634.8
75°	642.9	639.4	646.4	629.0	649.9	820.1	2046.9	5577.6	8705.2	9716.5	9872.9
77.5°	531.7	535.2	538.6	521.3	514.3	542.1	823.6	2450.0	4284.8	4729.7	5101.5
80°	403.1	410.1	437.9	420.5	392.7	396.2	486.5	820.1	1230.2	1115.5	1150.3
82.5°	274.5	278.0	337.1	316.2	295.4	267.6	312.8	424.0	479.6	364.9	319.7
85°	194.6	191.1	218.9	201.6	187.7	135.5	187.7	239.8	288.4	180.7	163.3
87.5°	45.2	45.2	90.4	73.0	69.5	55.6	73.0	93.8	125.1	79.9	73.0
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°	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4	3301.4
2.5°	3363.9	3332.7	3332.7	3325.7	3297.9	3291.0	3266.6	3273.6	3256.2	3238.8
5°	3482.1	3440.4	3440.4	3381.3	3325.7	3318.8	3291.0	3291.0	3263.2	3270.1
7.5°	3645.4	3607.2	3544.6	3492.5	3416.1	3384.8	3332.7	3325.7	3318.8	3304.9
10°	3840.0	3791.4	3728.8	3621.1	3558.5	3499.5	3447.3	3374.4	3357.0	3360.5
12.5°	4104.1	4027.7	3892.2	3798.3	3718.4	3641.9	3565.5	3457.8	3433.4	3443.9
15°	4291.8	4194.5	4059.0	4024.2	3916.5	3822.7	3697.6	3575.9	3534.2	3523.8
17.5°	4444.7	4364.8	4284.8	4232.7	4145.8	4031.2	3857.4	3718.4	3624.6	3614.1
20°	4569.8	4465.6	4448.2	4479.5	4371.7	4295.3	4083.3	3913.0	3787.9	3735.8
22.5°	4646.3	4580.2	4628.9	4656.7	4649.7	4521.2	4302.2	4104.1	3947.8	3899.1
25°	4729.7	4653.2	4827.0	4920.8	4945.1	4733.1	4562.9	4302.2	4149.3	4118.0
27.5°	4771.4	4799.2	5000.7	5198.8	5181.4	5018.1	4788.7	4555.9	4434.3	4378.7
30°	4893.0	4938.2	5244.0	5466.4	5469.9	5310.0	5136.3	4872.1	4736.6	4712.3
32.5°	5111.9	5167.5	5494.2	5730.5	5772.2	5650.6	5476.8	5313.5	5174.5	5118.9
35°	5278.7	5421.2	5789.6	6005.0	6116.2	6043.3	5946.0	5775.7	5629.7	5581.1
37.5°	5518.5	5716.6	6071.1	6363.0	6488.1	6481.1	6408.2	6224.0	6102.3	6060.6
40°	5862.6	6060.6	6383.8	6769.6	7002.4	6992.0	6950.3	6807.8	6627.1	6606.2
42.5°	6227.5	6390.8	6811.3	7252.6	7586.2	7551.5	7440.3	7273.5	7148.4	7120.6
45°	6581.9	6835.6	7224.8	7791.3	8041.5	8128.4	7996.3	7711.3	7568.9	7551.5
47.5°	7026.7	7228.3	7714.8	8222.2	8594.0	8607.9	8382.0	8117.9	7857.3	7912.9
50°	7422.9	7690.5	8184.0	8740.0	9184.8	9024.9	8736.5	8406.4	8218.7	8145.7
52.5°	7846.9	8173.5	8746.9	9313.4	9560.1	9400.3	8931.1	8562.7	8277.8	8246.5
55°	8465.4	8635.7	9386.4	9820.7	9900.7	9563.6	8872.0	8350.8	7982.4	7892.0
57.5°	9094.4	9292.5	9949.3	10324.6	10241.2	9473.2	8489.8	7683.5	7200.5	7071.9
60°	9730.4	9973.7	10526.2	10870.2	10439.3	8851.2	7409.0	6369.9	5807.0	5692.3
62.5°	10439.3	10755.6	11249.0	11370.7	9852.0	7621.0	5879.9	4597.6	4027.7	3836.6
65°	11068.3	11391.5	11999.7	11266.4	8604.5	5685.3	3801.8	2627.2	2206.7	2053.8
67.5°	11586.1	11951.0	12249.9	9970.2	6300.4	3329.2	1980.8	1383.1	1226.7	1171.1
70°	11996.2	12604.3	11207.3	7329.1	3600.2	1622.9	1070.3	910.5	889.6	875.7
72.5°	11638.2	11558.3	8368.1	4229.2	1577.7	893.1	775.0	750.6	747.2	750.6
75°	9518.4	8489.8	5004.2	1838.3	792.3	646.4	642.9	632.5	649.9	649.9
77.5°	4618.5	4038.1	2092.0	788.9	521.3	507.4	524.7	524.7	524.7	524.7
80°	1070.3	1185.0	747.2	479.6	378.8	378.8	417.0	420.5	403.1	396.2
82.5°	364.9	486.5	410.1	302.3	250.2	281.5	316.2	323.2	267.6	271.1
85°	180.7	285.0	222.4	173.8	128.6	173.8	205.0	215.5	184.2	177.2
87.5°	83.4	125.1	83.4	59.1	45.2	62.6	59.1	48.7	27.8	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)