

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: P479350

Luminaire Tested: **IFLD-M-SA4E-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479350
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

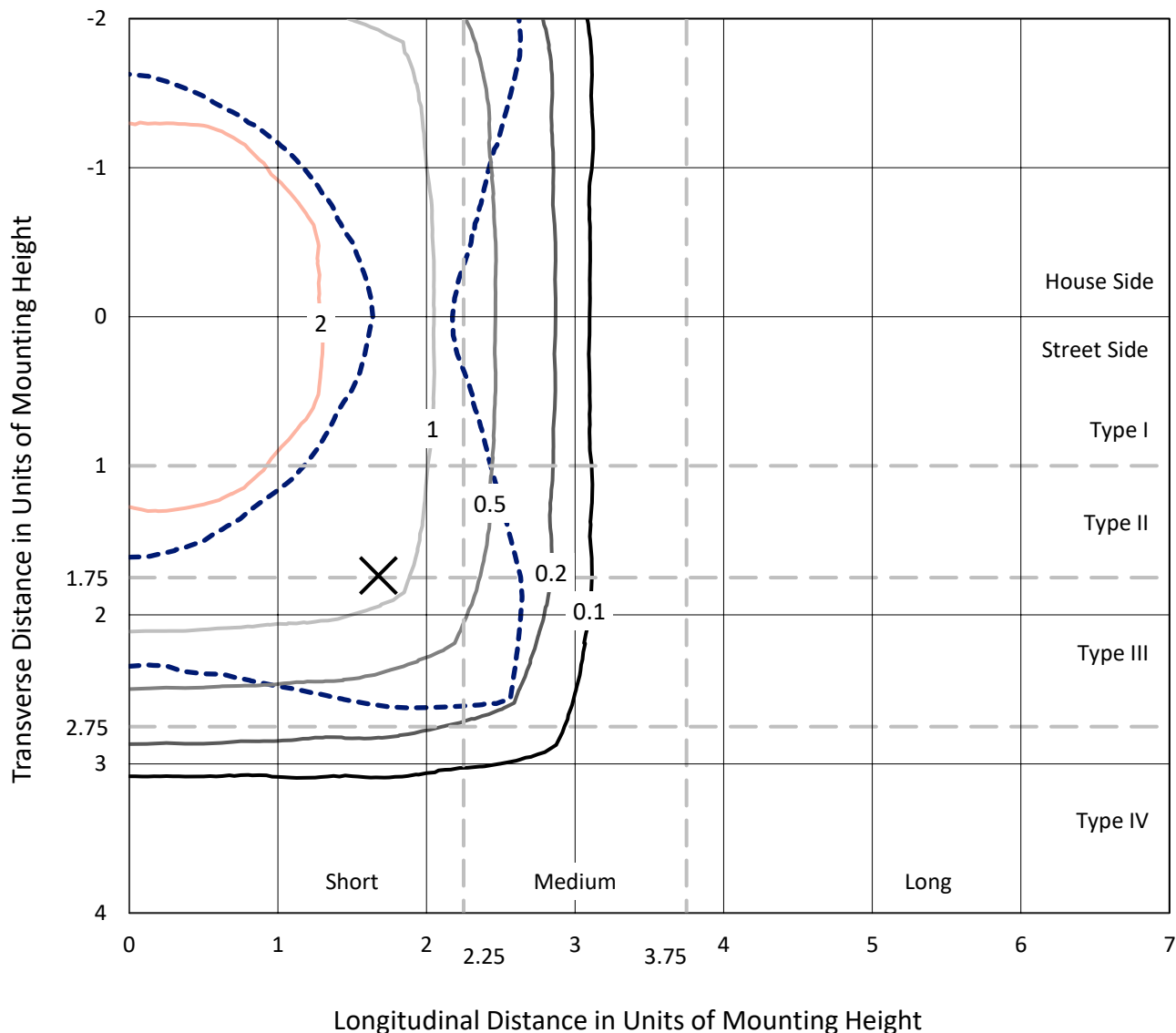
Lumens per Lamp: N/A
Luminaire Lumens: 36545.2 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

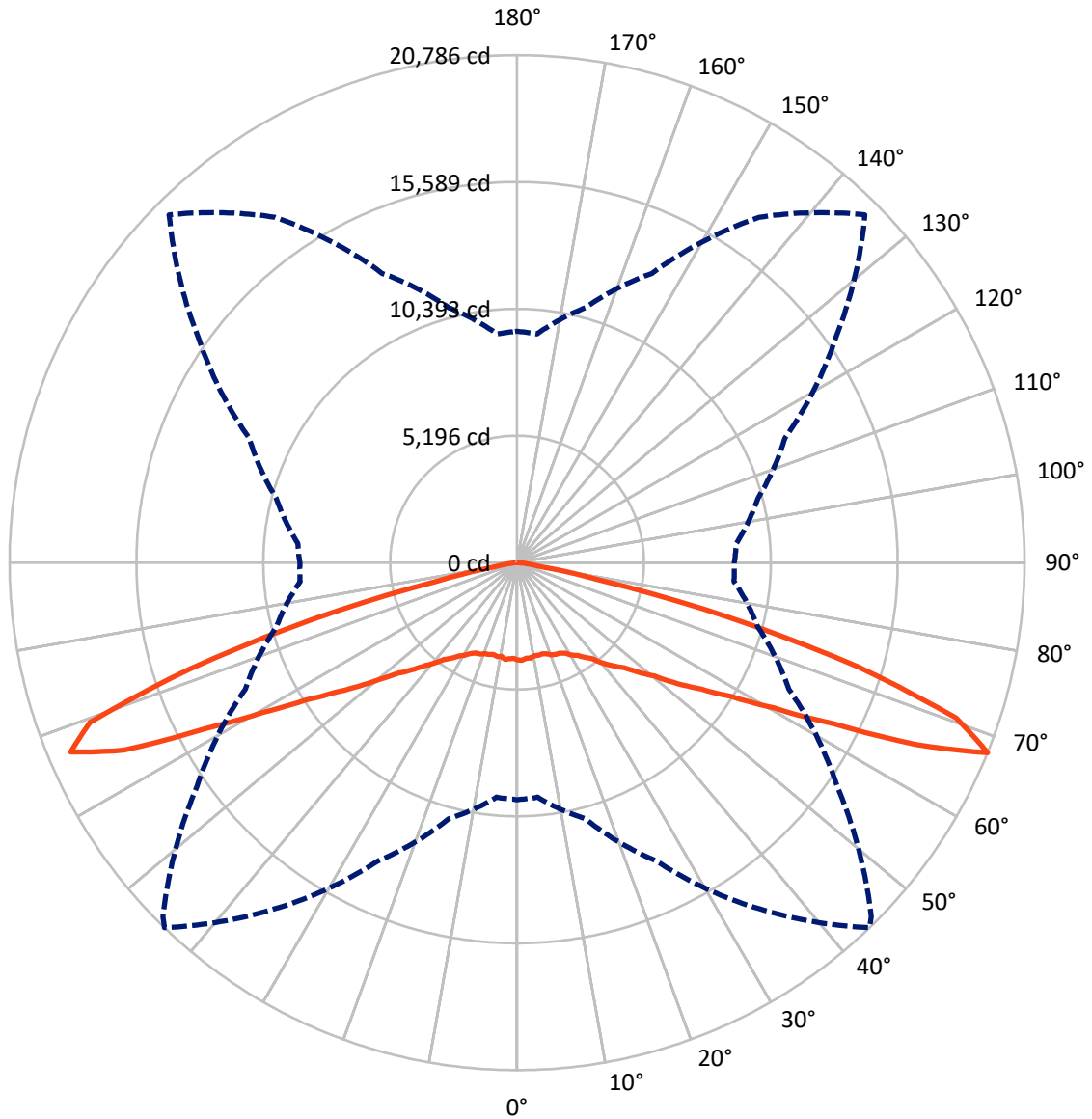
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18225.8	0.0	18225.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18319.4	0.0	18319.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	36545.2	0.0	36545.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.8	1.0
10°-20°	1103.6	3.0
20°-30°	1876.7	5.1
30°-40°	2975.6	8.1
40°-50°	4852.1	13.3
50°-60°	8286.7	22.7
60°-70°	12603.9	34.5
70°-80°	4248.3	11.6
80°-90°	220.6	0.6
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°	36545.2	100.0
0°-180°	36545.2	100.0

Coefficient of Utilization



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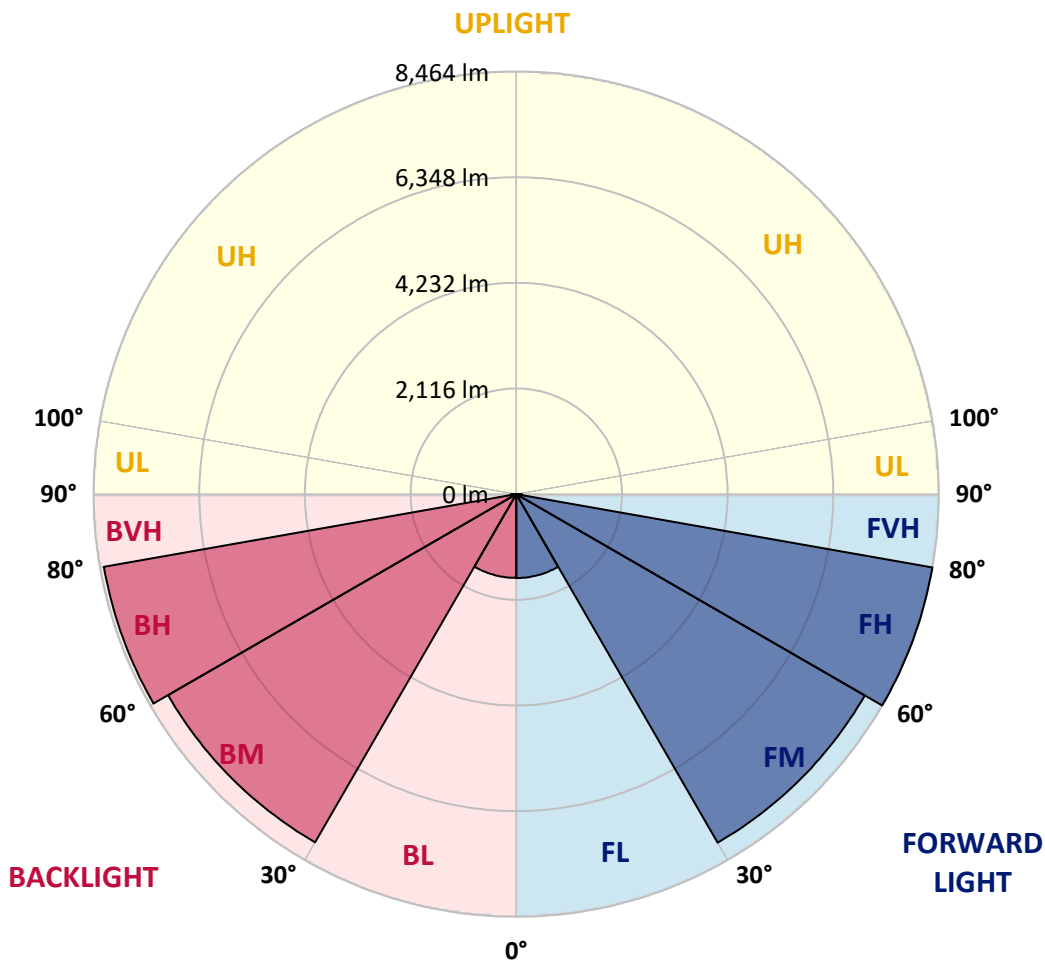
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.8	4.6			
FM (30°-60°)	8061.5	22.1			
FH (60°-80°)	8464.3	23.2			G4/12000
FVH (80°-90°)	112.8	0.3			G2/225
BL (0°-30°)	1677.3	4.6	B3/2500		
BM (30°-60°)	8052.8	22.0	B4/8500		
BH (60°-80°)	8387.9	23.0	B5		G4/12000
BVH (80°-90°)	107.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9
2.5°	3900.2	3946.1	3979.4	3975.3	3987.8	4000.3	3983.6	4008.6	3991.9	4021.1	4037.8
5°	3975.3	3962.7	3966.9	3941.9	4000.3	3933.5	3933.5	3966.9	4008.6	3958.6	3987.8
7.5°	3929.4	3921.0	3900.2	3937.7	3950.2	3950.2	3983.6	3921.0	3991.9	4008.6	4012.8
10°	3879.3	3833.4	3896.0	3933.5	3941.9	3875.1	3904.3	3921.0	3900.2	3921.0	3933.5
12.5°	3837.6	3862.6	3862.6	3862.6	3850.1	3896.0	3925.2	3921.0	3879.3	3916.9	3850.1
15°	3833.4	3820.9	3858.5	3891.8	3871.0	3879.3	3891.8	3929.4	3850.1	3866.8	3866.8
17.5°	3829.3	3845.9	3858.5	3854.3	3925.2	3925.2	3912.7	3887.7	3950.2	3916.9	3871.0
20°	3845.9	3833.4	3866.8	3879.3	3929.4	4029.5	3991.9	3971.1	3937.7	3896.0	3896.0
22.5°	3866.8	3858.5	3904.3	3958.6	4054.5	4079.5	4075.4	4050.3	3991.9	3941.9	3933.5
25°	3941.9	3866.8	3916.9	4021.1	4054.5	4104.6	4137.9	4104.6	4025.3	4037.8	3962.7
27.5°	4054.5	4042.0	4108.7	4179.6	4150.4	4196.3	4167.1	4192.2	4196.3	4133.8	4058.7
30°	4188.0	4150.4	4192.2	4329.8	4342.3	4392.4	4342.3	4275.6	4296.4	4242.2	4204.7
32.5°	4379.9	4367.4	4446.6	4538.4	4555.1	4530.0	4505.0	4542.5	4455.0	4413.2	4346.5
35°	4505.0	4559.2	4655.2	4726.1	4780.3	4755.3	4767.8	4730.3	4751.1	4663.5	4634.3
37.5°	4876.3	4855.4	4876.3	4997.2	5009.7	4997.2	5009.7	5051.4	5022.2	4947.2	4872.1
40°	5226.6	5193.3	5243.3	5381.0	5372.6	5414.4	5330.9	5376.8	5376.8	5235.0	5205.8
42.5°	5489.4	5602.1	5660.5	5773.1	5814.8	5777.3	5760.6	5768.9	5860.7	5693.8	5631.3
45°	6031.7	6027.5	6202.7	6265.3	6148.5	6140.2	6106.8	6206.9	6269.5	6173.5	6148.5
47.5°	6619.9	6649.1	6749.2	6774.2	6845.1	6715.8	6715.8	6728.3	6949.4	6724.1	6607.3
50°	7149.6	7187.2	7387.4	7583.4	7449.9	7312.3	7366.5	7433.3	7554.2	7341.5	7241.4
52.5°	7792.0	7996.4	8129.9	8234.2	8330.1	8234.2	8109.0	8184.1	8421.9	8138.2	8013.1
55°	8718.0	8880.7	9005.8	9197.7	9277.0	9147.7	9135.2	9126.8	9260.3	8960.0	8788.9
57.5°	9752.5	9685.8	9886.0	10182.1	10470.0	10344.8	10307.3	10315.6	10349.0	9923.5	9794.2
60°	11037.3	11112.3	11350.1	11608.7	11913.2	12088.4	11842.3	11700.5	11729.7	11149.9	10949.7
62.5°	11771.4	11938.3	12476.4	13364.9	13978.0	14524.5	14562.0	13640.2	13022.8	11896.6	11045.6
65°	11416.9	11391.8	12405.5	14048.9	16372.4	17961.6	17723.9	15488.0	13331.5	11542.0	10399.1
67.5°	9710.8	9644.1	10870.4	13477.5	17315.1	20785.6	20514.5	16009.5	12288.7	10211.3	8918.2
70°	6257.0	6240.3	7570.9	10273.9	15458.8	19083.7	19183.8	14541.2	10002.8	7479.1	6198.6
72.5°	2273.4	2411.0	3182.7	5522.8	10499.2	14599.6	14662.1	10766.1	5752.2	3458.0	2548.7
75°	838.4	863.5	1005.3	1793.7	4784.5	8964.1	9197.7	5222.5	2043.9	1126.3	917.7
77.5°	483.9	488.0	538.1	667.4	1418.2	3499.7	3641.5	1585.1	792.5	600.7	554.8
80°	329.5	325.4	379.6	433.8	567.3	992.8	1055.3	663.2	500.6	417.1	350.4
82.5°	191.9	204.4	279.5	308.7	346.2	438.0	446.3	413.0	375.4	308.7	229.4
85°	116.8	95.9	154.3	171.0	200.2	196.1	196.1	225.3	241.9	216.9	129.3
87.5°	29.2	29.2	37.5	41.7	54.2	41.7	45.9	87.6	116.8	108.5	66.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9	3991.9
2.5°	4000.3	3987.8	3996.1	4042.0	4012.8	3925.2	3946.1	3991.9	3954.4	3933.5	3929.4
5°	3983.6	4008.6	3979.4	3987.8	4017.0	3946.1	3958.6	4017.0	3991.9	4000.3	3954.4
7.5°	3987.8	4000.3	3975.3	3937.7	3937.7	3996.1	3962.7	3971.1	3933.5	3996.1	3912.7
10°	3962.7	3929.4	3900.2	3921.0	3912.7	3896.0	3883.5	3908.5	3871.0	3925.2	3866.8
12.5°	3887.7	3896.0	3887.7	3879.3	3896.0	3937.7	3871.0	3879.3	3820.9	3829.3	3858.5
15°	3858.5	3883.5	3875.1	3921.0	3941.9	3879.3	3929.4	3879.3	3833.4	3808.4	3854.3
17.5°	3871.0	3908.5	3896.0	3929.4	3891.8	3937.7	3946.1	3925.2	3871.0	3850.1	3871.0
20°	3883.5	3871.0	3887.7	3946.1	4000.3	3954.4	3954.4	3941.9	3891.8	3862.6	3862.6
22.5°	3912.7	3891.8	3916.9	3962.7	3979.4	4050.3	3987.8	3958.6	3875.1	3800.1	3871.0
25°	3971.1	3983.6	4000.3	3983.6	4075.4	4067.0	4058.7	4037.8	3908.5	3912.7	3900.2
27.5°	4083.7	4012.8	4033.6	4133.8	4146.3	4179.6	4137.9	4175.5	4037.8	4042.0	3958.6
30°	4221.4	4146.3	4213.0	4300.6	4296.4	4359.0	4338.2	4346.5	4250.6	4196.3	4083.7
32.5°	4371.5	4363.2	4404.9	4459.1	4480.0	4513.3	4509.2	4509.2	4450.8	4309.0	4329.8
35°	4538.4	4596.8	4646.8	4705.2	4713.6	4755.3	4696.9	4705.2	4646.8	4542.5	4575.9
37.5°	4867.9	4863.7	4918.0	4988.9	4997.2	4963.8	5009.7	4988.9	4909.6	4838.7	4784.5
40°	5251.7	5168.2	5218.3	5385.2	5397.7	5339.3	5335.1	5330.9	5272.5	5118.2	5084.8
42.5°	5585.4	5693.8	5685.5	5739.7	5702.2	5673.0	5777.3	5718.9	5673.0	5510.3	5481.1
45°	6015.0	6048.4	6156.8	6332.0	6152.7	6152.7	6223.6	6177.7	6152.7	6031.7	5919.1
47.5°	6548.9	6578.1	6795.1	6807.6	6690.8	6611.5	6832.6	6840.9	6736.7	6644.9	6507.2
50°	7174.6	7187.2	7383.2	7583.4	7454.1	7303.9	7529.2	7616.8	7383.2	7258.1	7087.0
52.5°	7862.9	7825.4	7988.0	8363.5	8238.3	8192.4	8434.4	8455.2	8138.2	7942.2	7988.0
55°	8655.5	8605.4	9047.6	9302.0	9222.7	9139.3	9247.8	9297.8	9043.4	8722.2	8834.8
57.5°	9681.6	9706.6	9927.7	10178.0	10307.3	10328.1	10378.2	10328.1	10069.5	9744.2	9639.9
60°	10707.7	10782.8	11212.5	11683.8	11725.5	12092.6	12025.9	11775.6	11408.5	10945.5	10966.4
62.5°	11087.3	11024.8	11717.2	12868.5	13848.7	14520.3	14224.1	13335.7	12484.7	11642.1	11704.7
65°	10324.0	10478.3	11421.0	13223.0	15350.4	18007.5	16430.8	13973.9	12255.3	11166.6	11045.6
67.5°	8897.4	9014.2	10211.3	12113.5	15888.5	20151.6	17265.0	13072.9	10807.8	9397.9	9473.0
70°	6198.6	6257.0	7429.1	9923.5	14407.7	19017.0	15575.6	10040.3	7462.5	5948.3	6031.7
72.5°	2494.4	2636.3	3408.0	5977.5	10636.8	14449.4	10486.7	5268.4	3095.1	2302.6	2089.8
75°	921.9	926.0	1088.7	2056.5	5051.4	9080.9	4730.3	1693.5	988.6	809.2	771.7
77.5°	533.9	529.8	567.3	742.5	1464.1	3545.6	1343.2	663.2	538.1	483.9	463.0
80°	333.7	329.5	387.9	492.2	642.4	971.9	567.3	413.0	362.9	312.8	312.8
82.5°	212.7	216.9	304.5	362.9	392.1	429.6	329.5	292.0	271.1	179.4	175.2
85°	137.7	125.1	212.7	241.9	216.9	191.9	183.5	154.3	141.8	87.6	95.9
87.5°	62.6	66.7	108.5	121.0	79.3	45.9	45.9	33.4	33.4	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)