

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: P479236

Luminaire Tested: **IFLD-L-SA7C-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479236
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

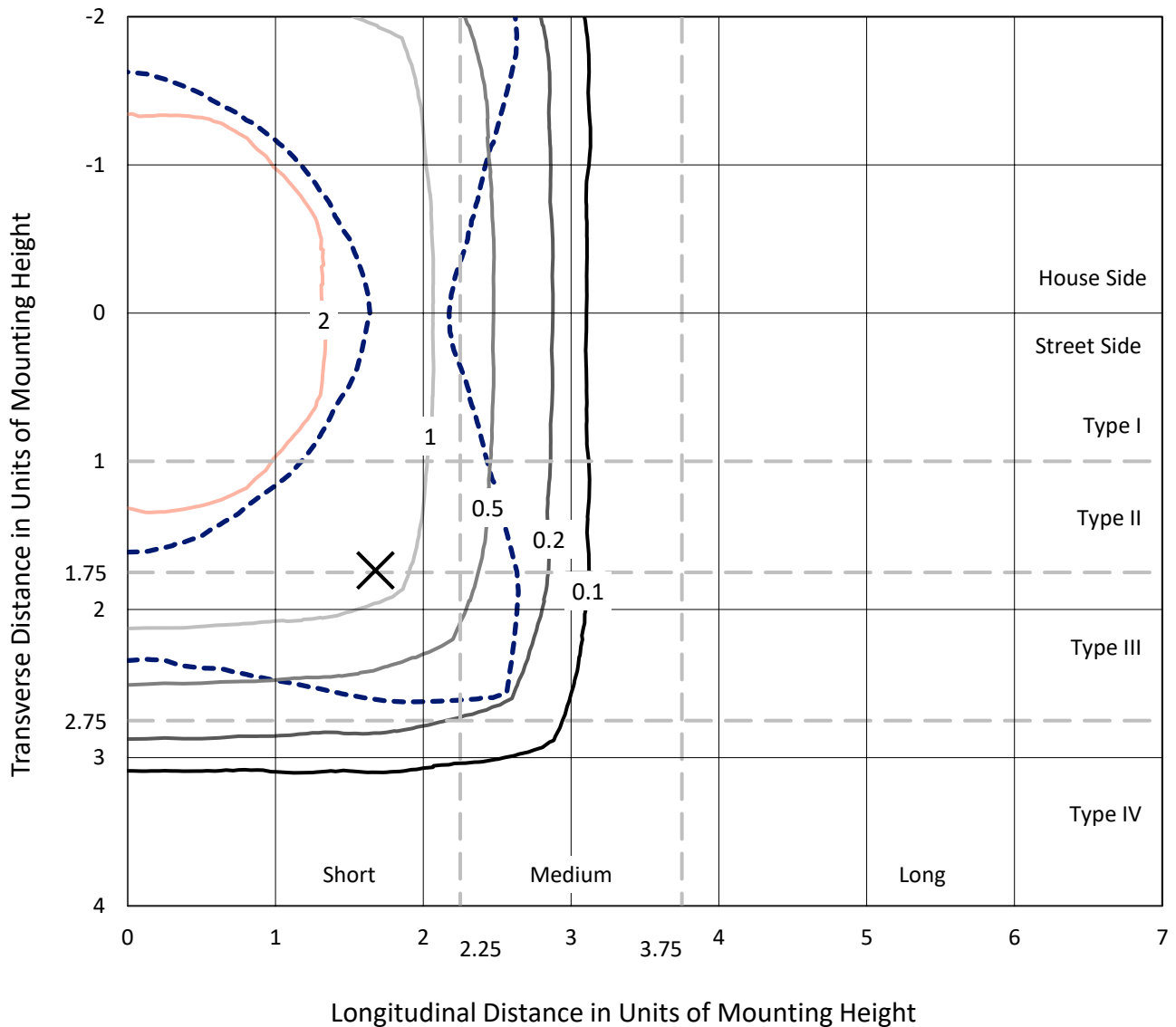
Lumens per Lamp: N/A
Luminaire Lumens: 37422.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 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

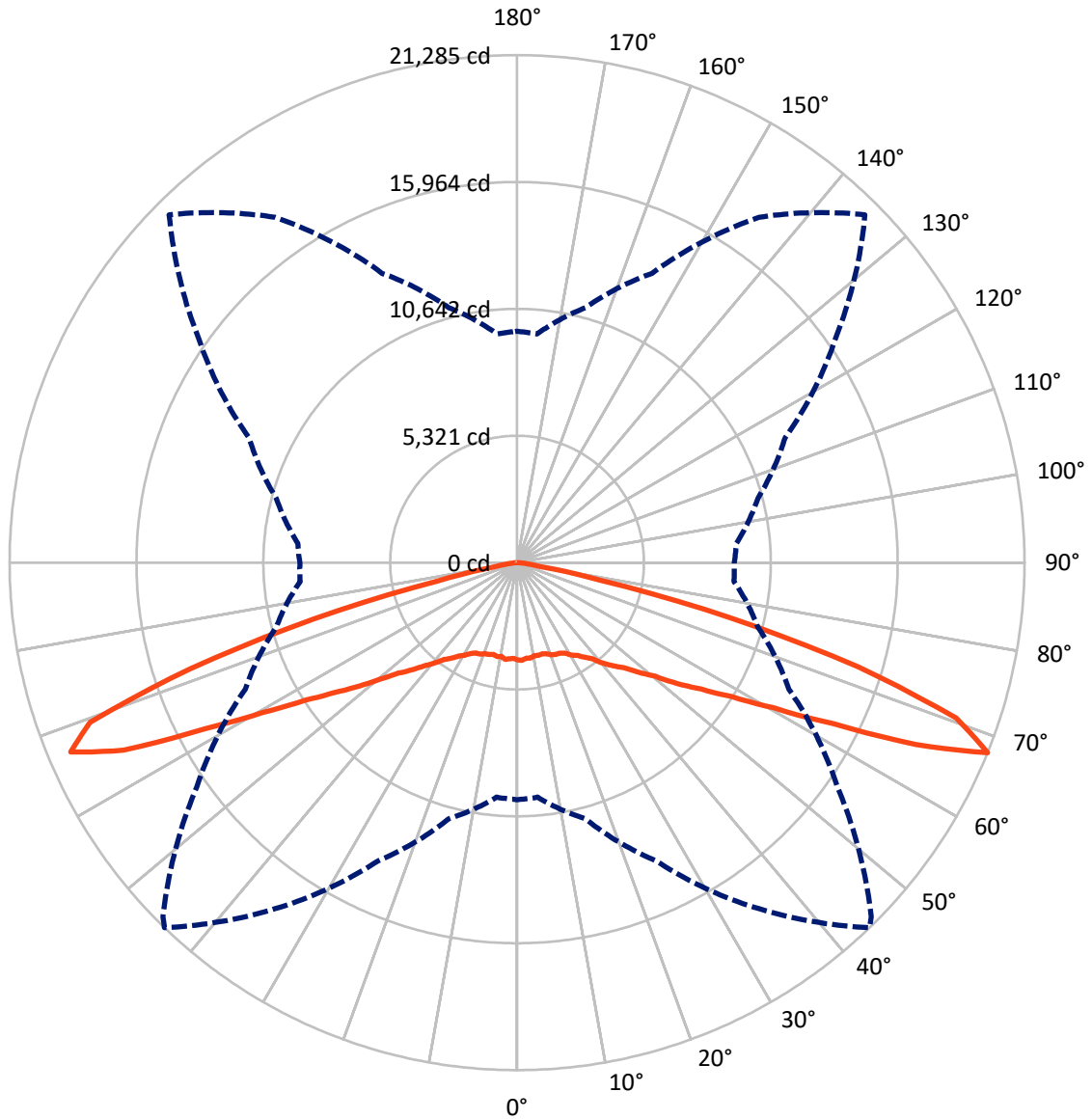
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	18663.4	0.0	18663.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	18759.3	0.0	18759.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	37422.7	0.0	37422.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	1.0
10°-20°	1130.1	3.0
20°-30°	1921.8	5.1
30°-40°	3047.1	8.1
40°-50°	4968.6	13.3
50°-60°	8485.6	22.7
60°-70°	12906.5	34.5
70°-80°	4350.3	11.6
80°-90°	225.9	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°	37422.7	100.0
0°-180°	37422.7	100.0

Coefficient of Utilization



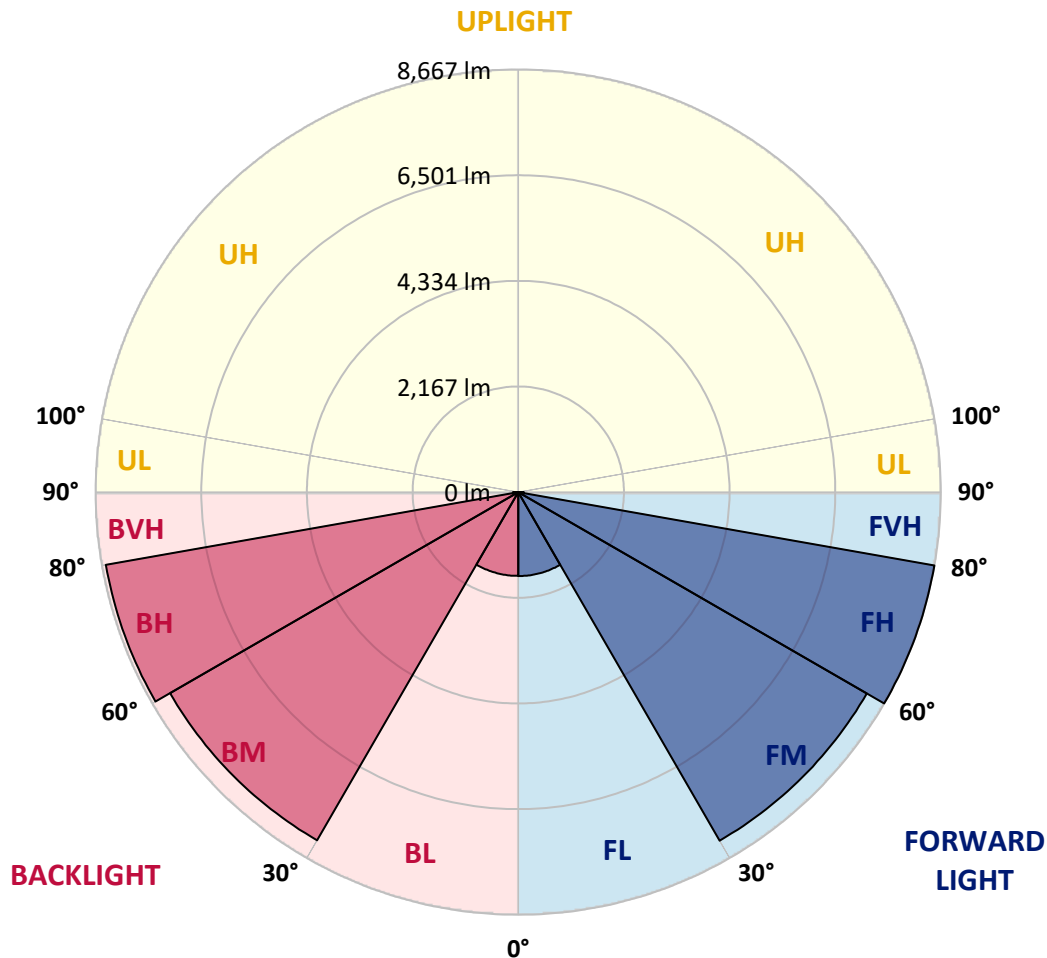
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.1	4.6			
FM (30°-60°)	8255.1	22.1			
FH (60°-80°)	8667.5	23.2			G4/12000
FVH (80°-90°)	115.5	0.3			G2/225
BL (0°-30°)	1717.6	4.6	B3/2500		
BM (30°-60°)	8246.2	22.0	B4/8500		
BH (60°-80°)	8589.3	23.0	B5		G4/12000
BVH (80°-90°)	110.3	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°	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8
2.5°	3993.8	4040.8	4075.0	4070.7	4083.5	4096.3	4079.2	4104.9	4087.8	4117.7	4134.8
5°	4070.7	4057.9	4062.2	4036.5	4096.3	4028.0	4028.0	4062.2	4104.9	4053.6	4083.5
7.5°	4023.7	4015.2	3993.8	4032.3	4045.1	4045.1	4079.2	4015.2	4087.8	4104.9	4109.1
10°	3972.5	3925.5	3989.5	4028.0	4036.5	3968.2	3998.1	4015.2	3993.8	4015.2	4028.0
12.5°	3929.7	3955.4	3955.4	3955.4	3942.6	3989.5	4019.4	4015.2	3972.5	4010.9	3942.6
15°	3925.5	3912.7	3951.1	3985.3	3963.9	3972.5	3985.3	4023.7	3942.6	3959.6	3959.6
17.5°	3921.2	3938.3	3951.1	3946.8	4019.4	4019.4	4006.6	3981.0	4045.1	4010.9	3963.9
20°	3938.3	3925.5	3959.6	3972.5	4023.7	4126.2	4087.8	4066.4	4032.3	3989.5	3989.5
22.5°	3959.6	3951.1	3998.1	4053.6	4151.9	4177.5	4173.2	4147.6	4087.8	4036.5	4028.0
25°	4036.5	3959.6	4010.9	4117.7	4151.9	4203.1	4237.3	4203.1	4122.0	4134.8	4057.9
27.5°	4151.9	4139.0	4207.4	4280.0	4250.1	4297.1	4267.2	4292.8	4297.1	4233.0	4156.1
30°	4288.5	4250.1	4292.8	4433.8	4446.6	4497.8	4446.6	4378.2	4399.6	4344.1	4305.6
32.5°	4485.0	4472.2	4553.4	4647.3	4664.4	4638.8	4613.2	4651.6	4561.9	4519.2	4450.9
35°	4613.2	4668.7	4766.9	4839.6	4895.1	4869.5	4882.3	4843.8	4865.2	4775.5	4745.6
37.5°	4993.3	4972.0	4993.3	5117.2	5130.0	5117.2	5130.0	5172.7	5142.8	5066.0	4989.1
40°	5352.1	5318.0	5369.2	5510.2	5501.6	5544.4	5458.9	5505.9	5505.9	5360.7	5330.8
42.5°	5621.2	5736.6	5796.4	5911.7	5954.4	5916.0	5898.9	5907.4	6001.4	5830.5	5766.5
45°	6176.5	6172.3	6351.7	6415.7	6296.1	6287.6	6253.4	6355.9	6420.0	6321.8	6296.1
47.5°	6778.8	6808.7	6911.2	6936.8	7009.5	6877.0	6877.0	6889.9	7116.3	6885.6	6766.0
50°	7321.3	7359.7	7564.8	7765.5	7628.8	7487.9	7543.4	7611.7	7735.6	7517.8	7415.3
52.5°	7979.1	8188.4	8325.1	8431.9	8530.1	8431.9	8303.7	8380.6	8624.1	8333.6	8205.5
55°	8927.3	9093.9	9222.1	9418.6	9499.7	9367.3	9354.5	9346.0	9482.6	9175.1	9000.0
57.5°	9986.7	9918.3	10123.4	10426.6	10721.4	10593.2	10554.8	10563.3	10597.5	10161.8	10029.4
60°	11302.3	11379.2	11622.6	11887.5	12199.3	12378.7	12126.7	11981.4	12011.3	11417.6	11212.6
62.5°	12054.1	12224.9	12775.9	13685.8	14313.7	14873.2	14911.7	13967.7	13335.5	12182.2	11310.8
65°	11691.0	11665.4	12703.3	14386.3	16765.5	18392.9	18149.4	15859.9	13651.6	11819.1	10648.7
67.5°	9944.0	9875.6	11131.4	13801.1	17730.8	21284.7	21007.0	16393.9	12583.7	10456.5	9132.4
70°	6407.2	6390.1	7752.7	10520.6	15830.0	19541.9	19644.4	14890.3	10243.0	7658.7	6347.4
72.5°	2327.9	2468.9	3259.1	5655.4	10751.3	14950.1	15014.2	11024.6	5890.3	3541.0	2609.9
75°	858.6	884.2	1029.4	1836.7	4899.4	9179.4	9418.6	5347.9	2093.0	1153.3	939.7
77.5°	495.5	499.8	551.0	683.4	1452.3	3583.8	3729.0	1623.2	811.6	615.1	568.1
80°	337.4	333.2	388.7	444.2	580.9	1016.6	1080.7	679.2	512.6	427.1	358.8
82.5°	196.5	209.3	286.2	316.1	354.5	448.5	457.0	422.9	384.4	316.1	234.9
85°	119.6	98.2	158.0	175.1	205.0	200.8	200.8	230.7	247.7	222.1	132.4
87.5°	29.9	29.9	38.4	42.7	55.5	42.7	47.0	89.7	119.6	111.1	68.3
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°	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8	4087.8
2.5°	4096.3	4083.5	4092.1	4139.0	4109.1	4019.4	4040.8	4087.8	4049.3	4028.0	4023.7
5°	4079.2	4104.9	4075.0	4083.5	4113.4	4040.8	4053.6	4113.4	4087.8	4096.3	4049.3
7.5°	4083.5	4096.3	4070.7	4032.3	4032.3	4092.1	4057.9	4066.4	4028.0	4092.1	4006.6
10°	4057.9	4023.7	3993.8	4015.2	4006.6	3989.5	3976.7	4002.4	3963.9	4019.4	3959.6
12.5°	3981.0	3989.5	3981.0	3972.5	3989.5	4032.3	3963.9	3972.5	3912.7	3921.2	3951.1
15°	3951.1	3976.7	3968.2	4015.2	4036.5	3972.5	4023.7	3972.5	3925.5	3899.8	3946.8
17.5°	3963.9	4002.4	3989.5	4023.7	3985.3	4032.3	4040.8	4019.4	3963.9	3942.6	3963.9
20°	3976.7	3963.9	3981.0	4040.8	4096.3	4049.3	4049.3	4036.5	3985.3	3955.4	3955.4
22.5°	4006.6	3985.3	4010.9	4057.9	4075.0	4147.6	4083.5	4053.6	3968.2	3891.3	3963.9
25°	4066.4	4079.2	4096.3	4079.2	4173.2	4164.7	4156.1	4134.8	4002.4	4006.6	3993.8
27.5°	4181.8	4109.1	4130.5	4233.0	4245.8	4280.0	4237.3	4275.7	4134.8	4139.0	4053.6
30°	4322.7	4245.8	4314.2	4403.9	4399.6	4463.7	4442.3	4450.9	4352.6	4297.1	4181.8
32.5°	4476.5	4467.9	4510.7	4566.2	4587.5	4621.7	4617.4	4617.4	4557.6	4412.4	4433.8
35°	4647.3	4707.1	4758.4	4818.2	4826.7	4869.5	4809.7	4818.2	4758.4	4651.6	4685.8
37.5°	4984.8	4980.5	5036.0	5108.7	5117.2	5083.0	5130.0	5108.7	5027.5	4954.9	4899.4
40°	5377.8	5292.3	5343.6	5514.5	5527.3	5467.5	5463.2	5458.9	5399.1	5241.1	5206.9
42.5°	5719.5	5830.5	5822.0	5877.5	5839.1	5809.2	5916.0	5856.2	5809.2	5642.6	5612.7
45°	6159.4	6193.6	6304.7	6484.1	6300.4	6300.4	6373.0	6326.0	6300.4	6176.5	6061.2
47.5°	6706.2	6736.1	6958.2	6971.0	6851.4	6770.3	6996.6	7005.2	6898.4	6804.4	6663.5
50°	7346.9	7359.7	7560.5	7765.5	7633.1	7479.3	7710.0	7799.7	7560.5	7432.3	7257.2
52.5°	8051.7	8013.3	8179.8	8564.3	8436.1	8389.1	8636.9	8658.2	8333.6	8132.9	8179.8
55°	8863.3	8812.0	9264.8	9525.4	9444.2	9358.8	9469.8	9521.1	9260.5	8931.6	9046.9
57.5°	9914.1	9939.7	10166.1	10422.4	10554.8	10576.1	10627.4	10576.1	10311.3	9978.1	9871.3
60°	10964.8	11041.7	11481.7	11964.4	12007.1	12383.0	12314.6	12058.3	11682.4	11208.3	11229.7
62.5°	11353.5	11289.5	11998.5	13177.5	14181.2	14868.9	14565.7	13655.9	12784.5	11921.6	11985.7
65°	10571.9	10729.9	11695.3	13540.5	15719.0	18439.9	16825.3	14309.4	12549.5	11434.7	11310.8
67.5°	9111.0	9230.6	10456.5	12404.3	16270.0	20635.4	17679.6	13386.8	11067.3	9623.6	9700.5
70°	6347.4	6407.2	7607.5	10161.8	14753.6	19473.6	15949.6	10281.4	7641.6	6091.1	6176.5
72.5°	2554.3	2699.6	3489.8	6121.0	10892.2	14796.3	10738.4	5394.9	3169.4	2357.8	2140.0
75°	944.0	948.3	1114.9	2105.8	5172.7	9299.0	4843.8	1734.2	1012.3	828.7	790.2
77.5°	546.7	542.5	580.9	760.3	1499.3	3630.7	1375.4	679.2	551.0	495.5	474.1
80°	341.7	337.4	397.2	504.0	657.8	995.2	580.9	422.9	371.6	320.4	320.4
82.5°	217.8	222.1	311.8	371.6	401.5	440.0	337.4	299.0	277.6	183.7	179.4
85°	141.0	128.1	217.8	247.7	222.1	196.5	187.9	158.0	145.2	89.7	98.2
87.5°	64.1	68.3	111.1	123.9	81.2	47.0	47.0	34.2	34.2	21.4	21.4
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)