

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: P478456

Luminaire Tested: **IFLD-L-SA7C-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478456
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

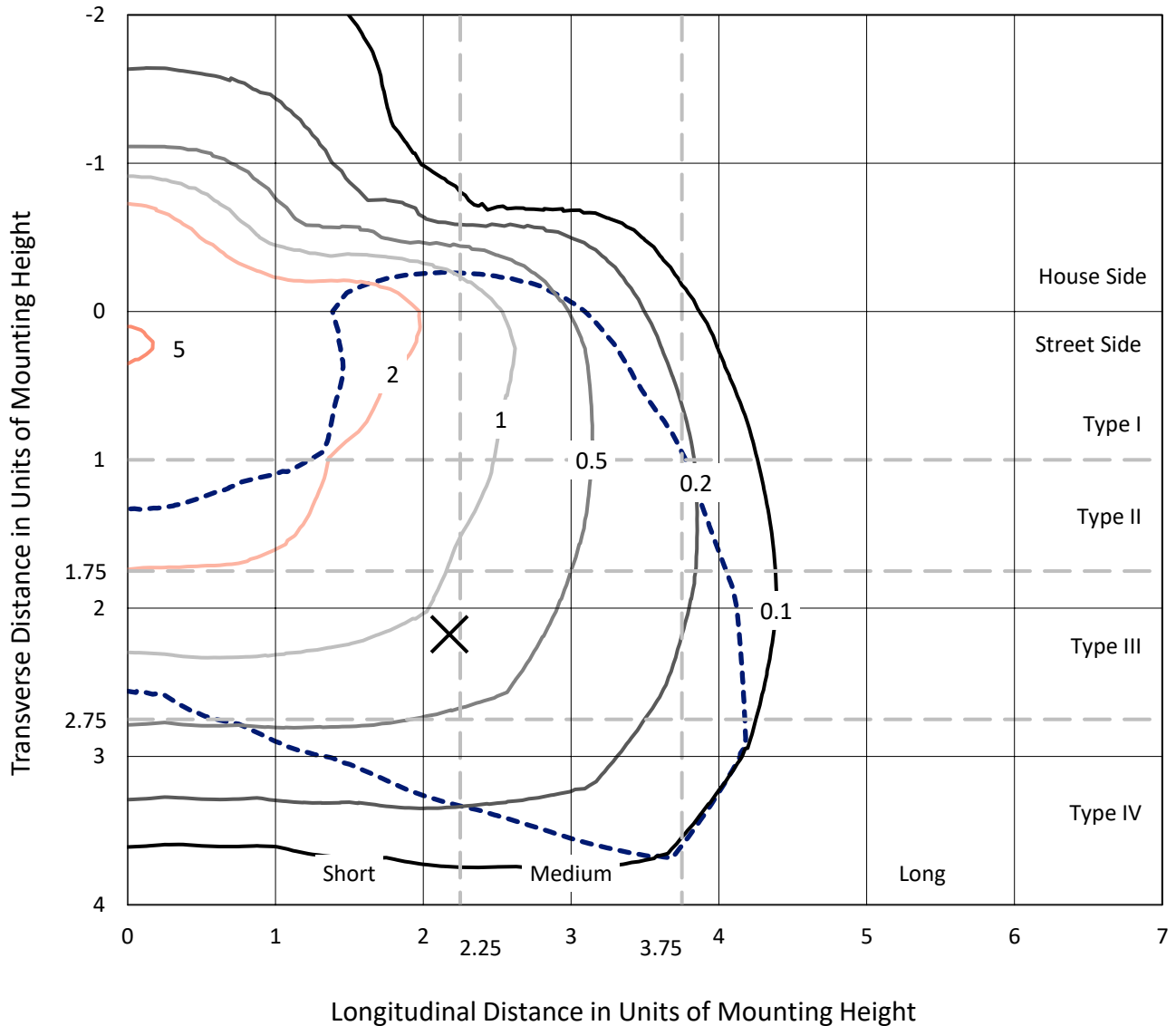
Lumens per Lamp: N/A
Luminaire Lumens: 37473.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

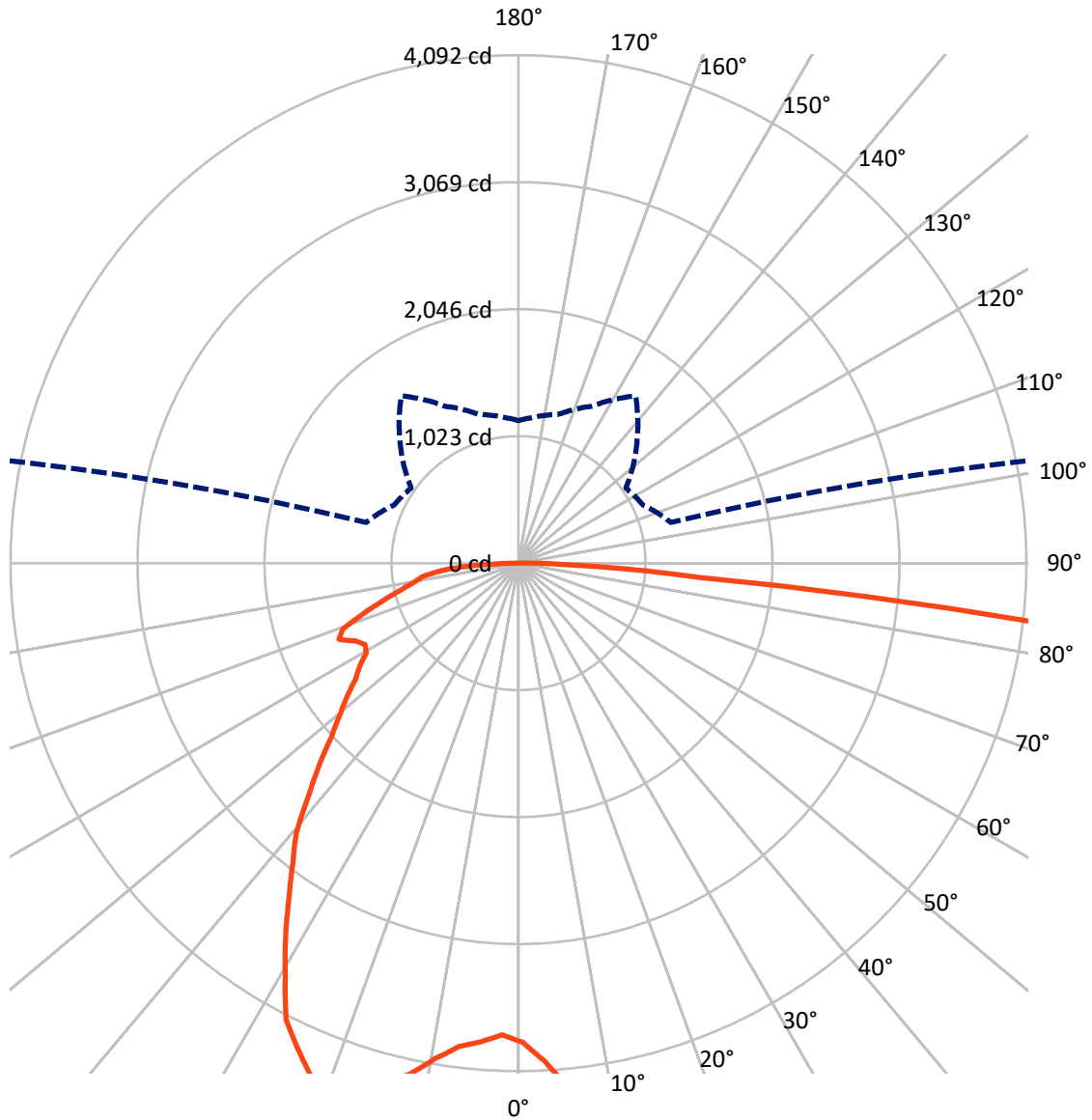
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8341.8	0.0	8341.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29131.7	0.0	29131.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	37473.6	0.0	37473.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	1.1
10°-20°	1313.8	3.5
20°-30°	2218.7	5.9
30°-40°	3070.3	8.2
40°-50°	4391.8	11.7
50°-60°	7083.5	18.9
60°-70°	10447.1	27.9
70°-80°	7586.4	20.2
80°-90°	967.1	2.6
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°	37473.6	100.0
0°-180°	37473.6	100.0

Coefficient of Utilization



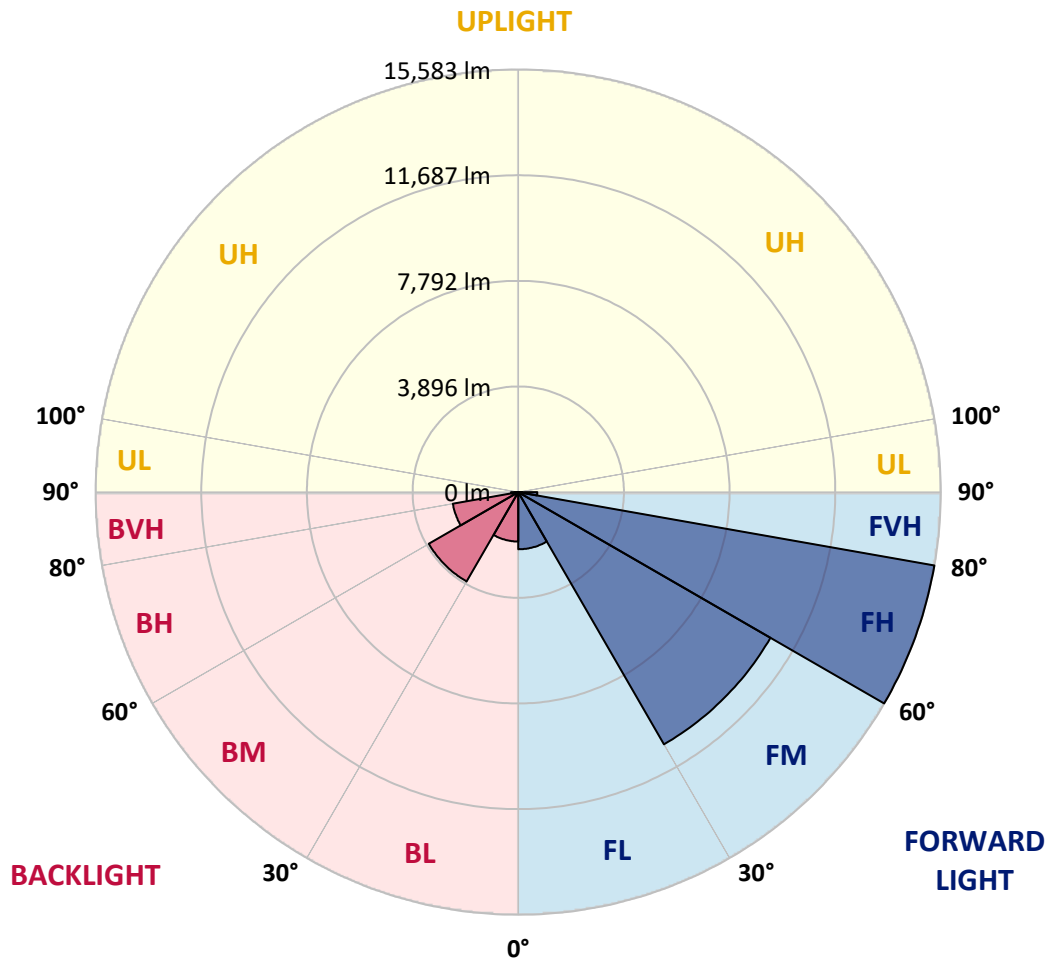
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.0	5.6			
FM (30°-60°)	10738.6	28.7			
FH (60°-80°)	15583.2	41.6			G5
FVH (80°-90°)	703.9	1.9			G4/750
BL (0°-30°)	1821.4	4.9	B3/2500		
BM (30°-60°)	3807.0	10.2	B3/5000		
BH (60°-80°)	2450.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	263.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1
2.5°	4065.2	4089.4	4065.2	4061.1	4020.7	3992.4	4016.7	3980.3	3939.9	3923.8	3887.4
5°	4437.0	4441.0	4396.5	4400.6	4315.7	4226.8	4243.0	4133.9	4016.7	3972.2	3899.5
7.5°	4816.8	4772.3	4707.7	4687.5	4554.1	4457.2	4445.0	4348.1	4166.2	4065.2	3964.2
10°	5063.3	5079.5	4974.4	4885.5	4772.3	4655.2	4651.1	4469.3	4364.2	4214.7	4085.4
12.5°	5281.5	5285.5	5196.6	5055.2	4913.8	4768.3	4788.5	4707.7	4529.9	4388.5	4259.1
15°	5451.2	5427.0	5330.0	5200.7	5051.2	4938.0	4925.9	4857.2	4707.7	4590.5	4376.3
17.5°	5499.7	5487.6	5390.6	5253.2	5107.7	5022.9	5055.2	4942.1	4881.5	4776.4	4570.3
20°	5406.8	5378.5	5362.3	5208.8	5103.7	5095.6	5067.3	5091.6	4990.6	4893.6	4744.1
22.5°	5237.1	5224.9	5216.9	5095.6	5047.1	5083.5	5132.0	5168.4	5152.2	5059.3	4889.5
25°	5063.3	5119.9	5067.3	5010.8	5079.5	5172.4	5160.3	5277.5	5277.5	5249.2	5107.7
27.5°	5184.5	5148.2	5107.7	5079.5	5103.7	5249.2	5241.1	5382.5	5435.1	5382.5	5220.9
30°	5487.6	5451.2	5334.0	5208.8	5176.4	5334.0	5374.4	5499.7	5524.0	5394.7	5257.3
32.5°	6057.4	6037.2	5851.3	5483.6	5285.5	5374.4	5394.7	5536.1	5515.9	5435.1	5378.5
35°	6901.9	6833.2	6574.6	5952.3	5515.9	5427.0	5374.4	5487.6	5564.4	5524.0	5471.4
37.5°	7827.3	7750.5	7431.3	6643.3	5932.1	5568.4	5528.0	5620.9	5709.8	5689.6	5580.5
40°	8712.3	8712.3	8425.4	7508.1	6550.4	5911.9	5920.0	5814.9	5895.7	5859.4	5879.6
42.5°	9585.1	9552.8	9435.6	8522.3	7213.1	6485.7	6356.4	6093.7	6239.2	6227.1	6255.4
45°	10470.1	10445.8	10413.5	9467.9	8162.7	7261.6	7192.9	6720.1	6853.4	6796.9	6918.1
47.5°	11177.2	11205.5	11205.5	10522.6	9177.0	8296.0	8195.0	7447.5	7702.0	7730.3	7758.6
50°	11779.3	11791.5	11779.3	11528.8	10308.4	9480.0	9274.0	8514.3	8768.8	8991.1	9249.7
52.5°	12611.8	12627.9	12571.4	12474.4	11844.0	10724.7	10494.3	9649.8	10171.0	10405.4	10870.1
55°	13638.2	13516.9	13411.9	13484.6	13318.9	12094.5	11856.1	10821.6	11605.6	11916.7	12846.1
57.5°	13828.1	13933.2	14199.9	14777.7	15016.1	13428.0	13290.6	12260.2	13226.0	13496.7	15048.5
60°	14498.9	14325.1	14979.8	16232.5	16499.2	15165.6	15024.2	13836.2	14838.3	15121.2	17081.0
62.5°	14939.4	14931.3	15901.1	17388.2	17994.3	16967.9	16681.0	15884.9	16580.0	16854.8	19295.5
65°	14810.0	14927.2	16648.7	18067.0	19243.0	19016.7	18851.0	17646.8	18564.1	18539.8	20738.1
67.5°	13630.1	13961.4	16175.9	18556.0	21101.8	21514.0	21461.4	20123.9	20176.4	19663.2	21380.6
70°	11993.5	11880.4	14175.6	18046.8	22031.2	24476.0	24463.8	21966.5	21627.1	19909.7	19537.9
72°	9213.3	9088.1	10975.2	15497.0	21542.2	25660.0	26023.6	23243.5	21610.9	18887.3	16139.5
72.5°	8364.7	8255.6	10134.7	14587.8	21000.8	25967.1	25797.4	23292.0	21441.2	18406.5	15076.7
75°	3851.0	3725.7	5063.3	8930.5	16382.0	23009.1	23587.0	21796.8	18725.7	14652.4	9031.5
77.5°	1147.6	1111.3	1628.5	3604.5	9520.5	16951.7	17174.0	16446.6	13072.4	8025.3	3349.9
80°	638.5	642.5	840.5	1349.7	4186.4	9799.3	10599.4	10158.9	6413.0	2650.9	1115.3
82.5°	355.6	375.8	525.3	800.1	1923.5	4497.6	4841.0	4667.3	2319.5	1244.6	610.2
85°	185.9	194.0	274.8	428.3	1091.1	1422.4	1462.8	1567.9	1204.2	848.6	327.3
87.5°	72.7	72.7	101.0	177.8	404.1	440.5	396.0	480.9	691.0	549.6	161.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1	3859.1
2.5°	3919.7	3887.4	3883.3	3830.8	3847.0	3802.5	3806.6	3798.5	3802.5	3794.4	3774.2
5°	3899.5	3875.3	3806.6	3851.0	3810.6	3867.2	3911.6	3895.5	3907.6	3903.5	3907.6
7.5°	3927.8	3895.5	3887.4	3863.1	3899.5	3923.8	3960.1	4061.1	4053.1	4065.2	4089.4
10°	4012.7	3976.3	3952.0	3988.4	3968.2	4045.0	4085.4	4137.9	4230.9	4234.9	4186.4
12.5°	4178.3	4154.1	4105.6	4113.7	4182.4	4206.6	4230.9	4263.2	4323.8	4311.7	4356.1
15°	4368.3	4315.7	4287.4	4279.4	4295.5	4323.8	4319.8	4352.1	4384.4	4412.7	4400.6
17.5°	4505.6	4437.0	4445.0	4485.4	4481.4	4473.3	4420.8	4404.6	4420.8	4437.0	4428.9
20°	4647.1	4655.2	4594.5	4558.2	4542.0	4461.2	4420.8	4372.3	4323.8	4348.1	4384.4
22.5°	4824.9	4788.5	4699.6	4590.5	4509.7	4461.2	4335.9	4251.1	4251.1	4275.3	4263.2
25°	5026.9	4950.1	4796.6	4598.6	4497.6	4291.5	4202.6	4190.5	4158.1	4194.5	4210.7
27.5°	5184.5	5115.8	4905.7	4570.3	4291.5	4125.8	4073.3	4057.1	4109.6	4113.7	4178.3
30°	5249.2	5229.0	4921.9	4497.6	4081.3	3814.6	3782.3	3855.1	3911.6	3996.5	4000.5
32.5°	5334.0	5342.1	4946.1	4327.8	3806.6	3539.9	3491.4	3580.3	3741.9	3810.6	3863.1
35°	5475.5	5515.9	4925.9	4117.7	3515.6	3261.0	3253.0	3277.2	3434.8	3556.0	3624.7
37.5°	5722.0	5713.9	4921.9	3867.2	3285.3	3018.6	2953.9	2962.0	3067.1	3168.1	3156.0
40°	6053.3	6021.0	4909.7	3539.9	2986.3	2812.5	2703.4	2663.0	2654.9	2626.6	2634.7
42.5°	6505.9	6441.3	4905.7	3208.5	2715.5	2529.6	2452.8	2347.8	2271.0	2125.5	2133.6
45°	7136.3	7023.2	4800.6	2897.4	2448.8	2295.3	2178.1	2101.3	1935.6	1753.8	1753.8
47.5°	8110.2	7742.4	4804.7	2553.9	2190.2	2064.9	1984.1	1850.7	1672.9	1527.5	1511.3
50°	9544.7	8704.2	4667.3	2283.1	1980.1	1895.2	1810.3	1656.8	1487.1	1386.0	1398.2
52.5°	11395.4	10138.7	4663.2	2040.7	1814.4	1753.8	1660.8	1523.4	1398.2	1333.5	1309.3
55°	13601.8	12038.0	4808.7	1842.7	1644.7	1612.3	1571.9	1458.8	1337.6	1281.0	1276.9
57.5°	15860.7	13892.7	5043.1	1701.2	1499.2	1523.4	1495.1	1406.2	1309.3	1244.6	1236.5
60°	17869.0	15363.6	4570.3	1531.5	1369.9	1422.4	1462.8	1386.0	1333.5	1329.5	1301.2
62.5°	19384.4	15994.0	3475.2	1402.2	1301.2	1398.2	1507.3	1555.8	1531.5	1563.8	1567.9
65°	19938.0	15614.2	2392.2	1333.5	1248.7	1454.7	1697.2	1681.0	1539.6	1479.0	1511.3
67.5°	19162.1	14074.6	1774.0	1252.7	1212.3	1571.9	1806.3	1604.3	1390.1	1382.0	1357.8
70°	16478.9	11928.9	1446.7	1167.8	1151.7	1507.3	1757.8	1487.1	1309.3	1256.7	1232.5
72°	13129.0	9290.1	1268.9	1107.2	1054.7	1345.6	1644.7	1394.1	1240.6	1175.9	1147.6
72.5°	11985.4	8611.2	1244.6	1078.9	1034.5	1309.3	1588.1	1365.8	1224.4	1167.8	1123.4
75°	6574.6	4408.7	1095.1	990.0	872.8	1131.5	1470.9	1281.0	1155.7	1074.9	1066.8
77.5°	2444.8	1709.3	945.6	876.9	755.7	977.9	1337.6	1216.3	1050.6	949.6	929.4
80°	937.5	901.1	771.8	739.5	634.4	856.7	1232.5	1091.1	893.0	792.0	759.7
82.5°	569.8	525.3	585.9	577.9	484.9	779.9	1159.7	1022.4	792.0	642.5	622.3
85°	311.2	311.2	408.1	392.0	339.4	622.3	876.9	678.9	501.1	412.2	420.3
87.5°	137.4	161.6	218.2	206.1	185.9	351.6	428.3	359.6	250.5	169.7	181.8
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)