

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: P478423

Luminaire Tested: **IFLD-L-SA8D-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

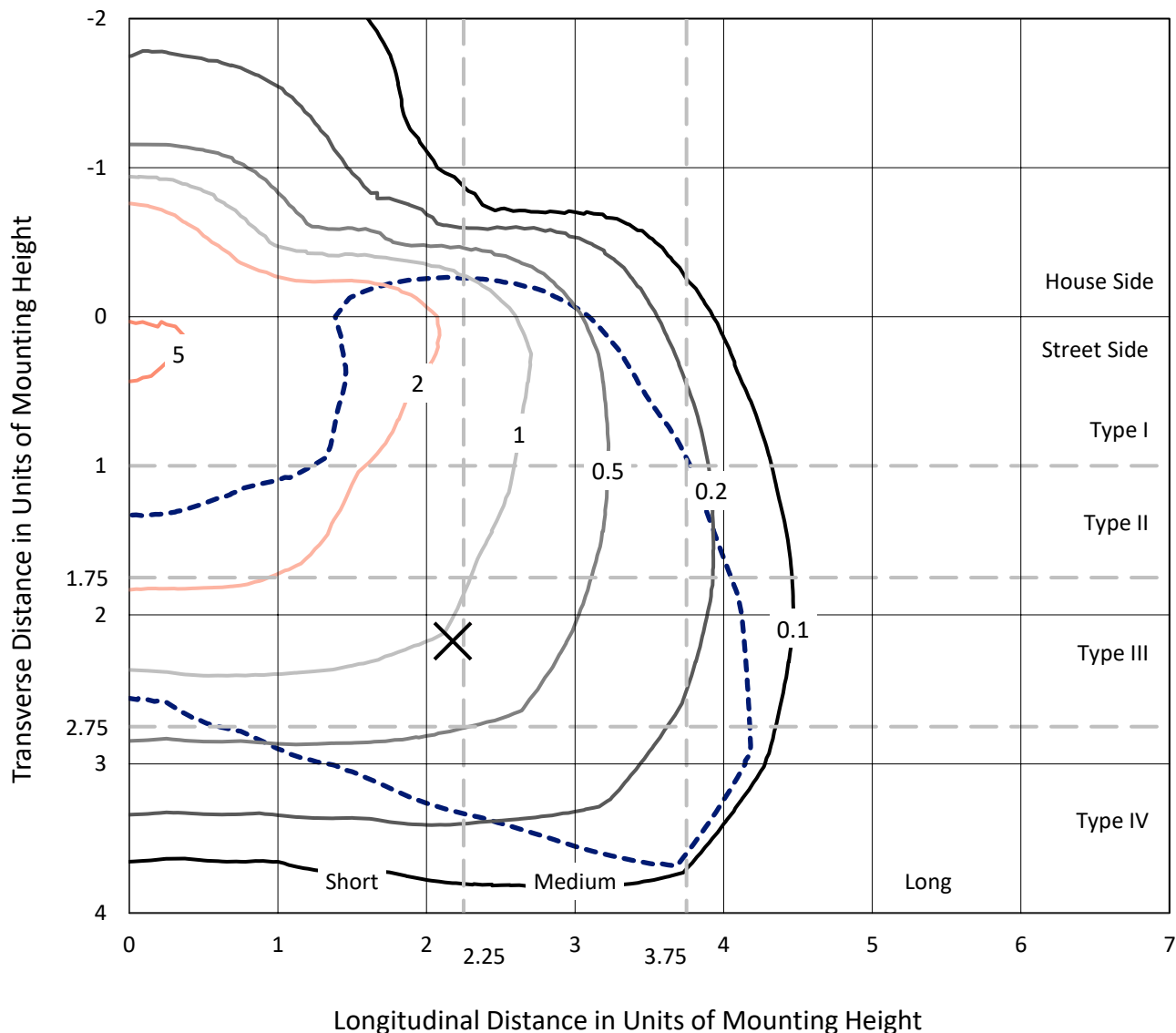
Lumens per Lamp: N/A
Luminaire Lumens: 41506.4 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

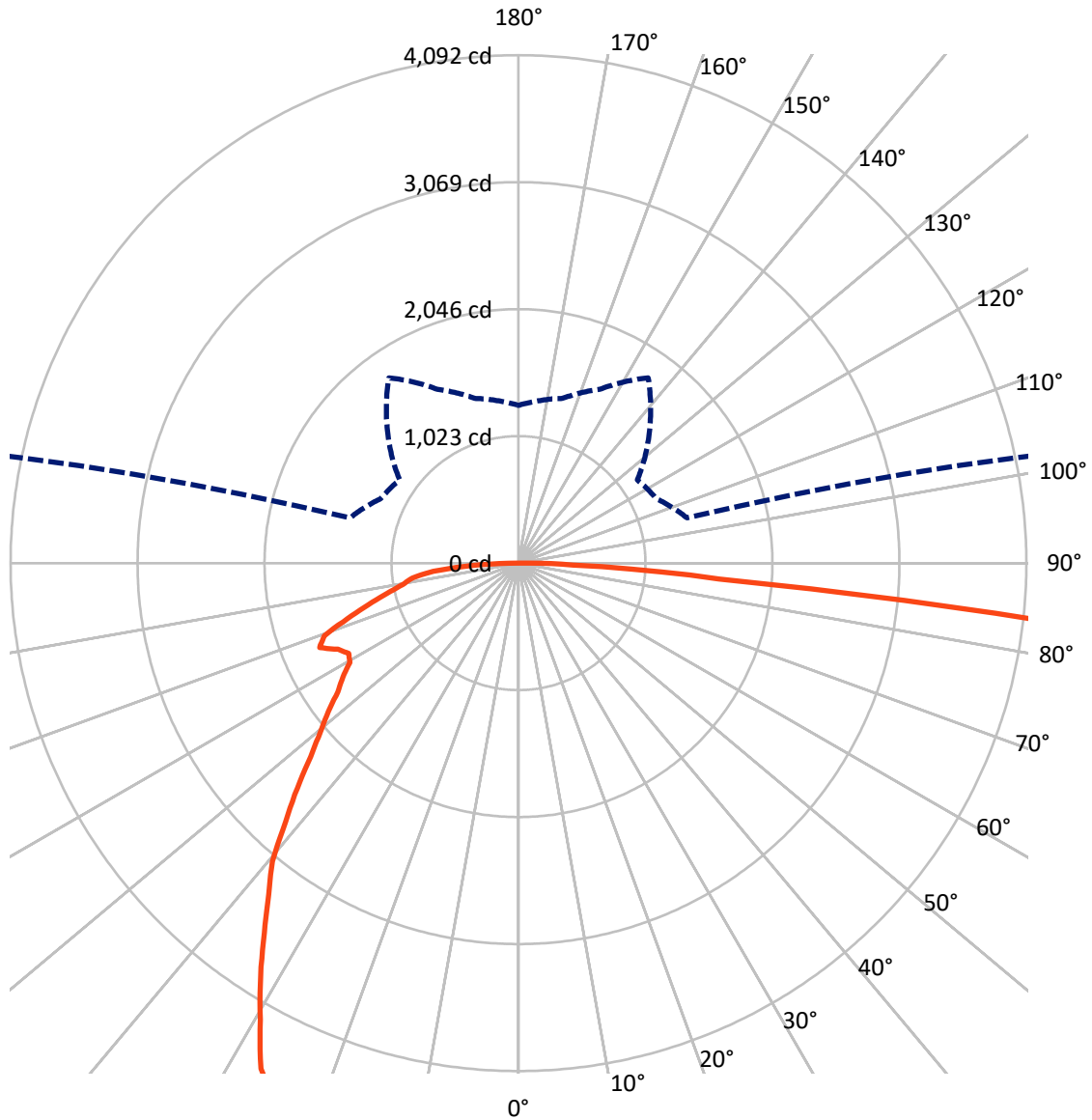
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	9239.6	0.0	9239.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32266.8	0.0	32266.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	41506.4	0.0	41506.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.4	1.1
10°-20°	1455.2	3.5
20°-30°	2457.5	5.9
30°-40°	3400.7	8.2
40°-50°	4864.4	11.7
50°-60°	7845.8	18.9
60°-70°	11571.4	27.9
70°-80°	8402.8	20.2
80°-90°	1071.2	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°	41506.4	100.0
0°-180°	41506.4	100.0

Coefficient of Utilization



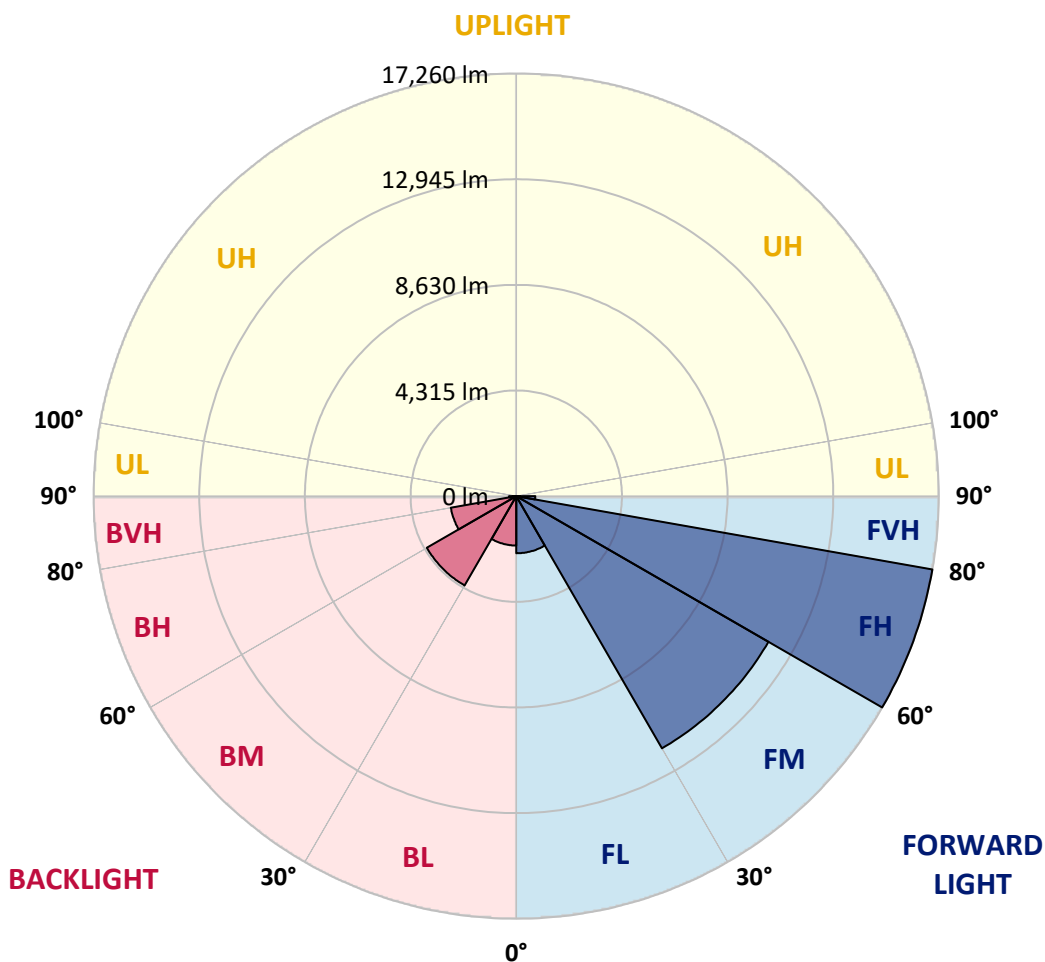
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2332.7	5.6			
FM (30°-60°)	11894.3	28.7			
FH (60°-80°)	17260.2	41.6			G5
FVH (80°-90°)	779.6	1.9			G5
BL (0°-30°)	2017.4	4.9	B3/2500		
BM (30°-60°)	4216.7	10.2	B3/5000		
BH (60°-80°)	2714.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	291.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4
2.5°	4502.7	4529.5	4502.7	4498.2	4453.4	4422.1	4449.0	4408.7	4363.9	4346.0	4305.7
5°	4914.4	4918.9	4869.7	4874.2	4780.2	4681.7	4699.6	4578.8	4449.0	4399.7	4319.2
7.5°	5335.2	5285.9	5214.3	5191.9	5044.2	4936.8	4923.4	4816.0	4614.6	4502.7	4390.8
10°	5608.2	5626.1	5509.7	5411.3	5285.9	5156.1	5151.7	4950.3	4833.9	4668.3	4525.1
12.5°	5849.9	5854.4	5755.9	5599.2	5442.6	5281.5	5303.8	5214.3	5017.4	4860.7	4717.5
15°	6037.9	6011.0	5903.6	5760.4	5594.8	5469.4	5456.0	5379.9	5214.3	5084.5	4847.3
17.5°	6091.6	6078.2	5970.7	5818.6	5657.4	5563.4	5599.2	5473.9	5406.8	5290.4	5062.1
20°	5988.6	5957.3	5939.4	5769.3	5653.0	5644.0	5612.7	5639.5	5527.6	5420.2	5254.6
22.5°	5800.7	5787.2	5778.3	5644.0	5590.3	5630.6	5684.3	5724.6	5706.7	5603.7	5415.7
25°	5608.2	5670.9	5612.7	5550.0	5626.1	5729.0	5715.6	5845.4	5845.4	5814.1	5657.4
27.5°	5742.5	5702.2	5657.4	5626.1	5653.0	5814.1	5805.1	5961.8	6020.0	5961.8	5782.8
30°	6078.2	6037.9	5908.1	5769.3	5733.5	5908.1	5952.8	6091.6	6118.4	5975.2	5823.0
32.5°	6709.2	6686.9	6481.0	6073.7	5854.4	5952.8	5975.2	6131.9	6109.5	6020.0	5957.3
35°	7644.7	7568.6	7282.2	6592.9	6109.5	6011.0	5952.8	6078.2	6163.2	6118.4	6060.3
37.5°	8669.7	8584.6	8231.0	7358.2	6570.5	6167.7	6122.9	6225.9	6324.3	6302.0	6181.1
40°	9649.9	9649.9	9332.1	8316.1	7255.3	6548.1	6557.1	6440.7	6530.2	6489.9	6512.3
42.5°	10616.6	10580.8	10451.0	9439.5	7989.3	7183.7	7040.5	6749.5	6910.7	6897.2	6928.6
45°	11596.8	11570.0	11534.2	10486.8	9041.2	8043.0	7967.0	7443.3	7591.0	7528.3	7662.6
47.5°	12380.1	12411.4	12411.4	11655.0	10164.6	9188.9	9077.0	8248.9	8530.9	8562.2	8593.6
50°	13047.0	13060.4	13047.0	12769.5	11417.8	10500.3	10272.0	9430.5	9712.5	9958.7	10245.1
52.5°	13969.0	13986.9	13924.3	13816.8	13118.6	11878.8	11623.7	10688.3	11265.6	11525.2	12039.9
55°	15105.9	14971.6	14855.2	14935.8	14752.3	13396.1	13132.0	11986.2	12854.5	13199.2	14228.6
57.5°	15316.2	15432.6	15728.0	16368.1	16632.1	14873.1	14721.0	13579.6	14649.3	14949.2	16667.9
60°	16059.2	15866.8	16591.9	17979.4	18274.8	16797.7	16641.1	15325.2	16435.2	16748.5	18919.3
62.5°	16547.1	16538.1	17612.3	19259.4	19930.8	18794.0	18476.2	17594.4	18364.3	18668.6	21372.0
65°	16403.9	16533.7	18440.4	20011.4	21313.8	21063.2	20879.7	19545.9	20561.9	20535.0	22969.9
67.5°	15096.9	15463.9	17916.7	20553.0	23372.7	23829.3	23771.1	22289.6	22347.8	21779.3	23681.5
70°	13284.2	13158.9	15701.2	19989.0	24402.2	27110.0	27096.6	24330.5	23954.6	22052.4	21640.6
72°	10204.9	10066.1	12156.3	17164.8	23860.6	28421.4	28824.3	25744.9	23936.7	20920.0	17876.4
72.5°	9264.9	9144.1	11225.3	16157.7	23260.8	28761.6	28573.6	25798.6	23748.7	20387.3	16699.3
75°	4265.5	4126.7	5608.2	9891.6	18145.0	25485.3	26125.3	24142.6	20740.9	16229.3	10003.5
77.5°	1271.1	1230.8	1803.8	3992.4	10545.0	18776.1	19022.2	18216.6	14479.3	8889.0	3710.5
80°	707.2	711.7	931.0	1494.9	4636.9	10853.9	11740.1	11252.2	7103.1	2936.1	1235.3
82.5°	393.9	416.3	581.9	886.2	2130.5	4981.6	5362.0	5169.6	2569.1	1378.6	675.8
85°	205.9	214.8	304.4	474.4	1208.5	1575.5	1620.2	1736.6	1333.8	939.9	362.5
87.5°	80.6	80.6	111.9	196.9	447.6	487.9	438.6	532.6	765.4	608.7	179.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4	4274.4
2.5°	4341.5	4305.7	4301.3	4243.1	4261.0	4211.7	4216.2	4207.3	4211.7	4202.8	4180.4
5°	4319.2	4292.3	4216.2	4265.5	4220.7	4283.4	4332.6	4314.7	4328.1	4323.6	4328.1
7.5°	4350.5	4314.7	4305.7	4278.9	4319.2	4346.0	4386.3	4498.2	4489.2	4502.7	4529.5
10°	4444.5	4404.2	4377.3	4417.6	4395.3	4480.3	4525.1	4583.2	4686.2	4690.7	4636.9
12.5°	4628.0	4601.1	4547.4	4556.4	4632.5	4659.3	4686.2	4722.0	4789.1	4775.7	4824.9
15°	4838.4	4780.2	4748.8	4739.9	4757.8	4789.1	4784.6	4820.5	4856.3	4887.6	4874.2
17.5°	4990.5	4914.4	4923.4	4968.2	4963.7	4954.7	4896.5	4878.6	4896.5	4914.4	4905.5
20°	5147.2	5156.1	5089.0	5048.7	5030.8	4941.3	4896.5	4842.8	4789.1	4816.0	4856.3
22.5°	5344.1	5303.8	5205.4	5084.5	4995.0	4941.3	4802.6	4708.6	4708.6	4735.4	4722.0
25°	5567.9	5482.9	5312.8	5093.5	4981.6	4753.3	4654.8	4641.4	4605.6	4645.9	4663.8
27.5°	5742.5	5666.4	5433.6	5062.1	4753.3	4569.8	4511.6	4493.7	4551.9	4556.4	4628.0
30°	5814.1	5791.7	5451.5	4981.6	4520.6	4225.2	4189.4	4269.9	4332.6	4426.6	4431.1
32.5°	5908.1	5917.0	5478.4	4793.6	4216.2	3920.8	3867.1	3965.6	4144.6	4220.7	4278.9
35°	6064.7	6109.5	5456.0	4560.9	3894.0	3612.0	3603.0	3629.9	3804.4	3938.7	4014.8
37.5°	6337.8	6328.8	5451.5	4283.4	3638.8	3343.4	3271.8	3280.8	3397.1	3509.0	3495.6
40°	6704.8	6669.0	5438.1	3920.8	3307.6	3115.2	2994.3	2949.6	2940.6	2909.3	2918.2
42.5°	7206.1	7134.5	5433.6	3553.8	3007.7	2801.9	2716.8	2600.4	2515.4	2354.3	2363.2
45°	7904.3	7779.0	5317.3	3209.2	2712.3	2542.3	2412.5	2327.4	2143.9	1942.5	1942.5
47.5°	8983.0	8575.7	5321.7	2828.7	2425.9	2287.1	2197.6	2049.9	1853.0	1691.9	1674.0
50°	10571.9	9640.9	5169.6	2528.8	2193.2	2099.2	2005.2	1835.1	1647.1	1535.2	1548.6
52.5°	12621.8	11229.8	5165.1	2260.3	2009.6	1942.5	1839.6	1687.4	1548.6	1477.0	1450.2
55°	15065.6	13333.5	5326.2	2041.0	1821.7	1785.9	1741.1	1615.8	1481.5	1418.8	1414.4
57.5°	17567.6	15387.9	5585.8	1884.3	1660.5	1687.4	1656.1	1557.6	1450.2	1378.6	1369.6
60°	19792.1	17017.1	5062.1	1696.3	1517.3	1575.5	1620.2	1535.2	1477.0	1472.5	1441.2
62.5°	21470.5	17715.3	3849.2	1553.1	1441.2	1548.6	1669.5	1723.2	1696.3	1732.1	1736.6
65°	22083.7	17294.6	2649.7	1477.0	1383.0	1611.3	1879.8	1861.9	1705.3	1638.1	1674.0
67.5°	21224.3	15589.3	1964.9	1387.5	1342.7	1741.1	2000.7	1776.9	1539.7	1530.7	1503.9
70°	18252.4	13212.6	1602.3	1293.5	1275.6	1669.5	1947.0	1647.1	1450.2	1392.0	1365.1
72°	14541.9	10289.9	1405.4	1226.4	1168.2	1490.4	1821.7	1544.2	1374.1	1302.5	1271.1
72.5°	13275.3	9538.0	1378.6	1195.0	1145.8	1450.2	1759.0	1512.8	1356.2	1293.5	1244.3
75°	7282.2	4883.1	1212.9	1096.6	966.8	1253.2	1629.2	1418.8	1280.1	1190.6	1181.6
77.5°	2707.9	1893.3	1047.3	971.3	837.0	1083.1	1481.5	1347.2	1163.7	1051.8	1029.4
80°	1038.4	998.1	854.9	819.1	702.7	948.9	1365.1	1208.5	989.2	877.3	841.5
82.5°	631.1	581.9	649.0	640.0	537.1	863.8	1284.6	1132.4	877.3	711.7	689.3
85°	344.6	344.6	452.1	434.2	376.0	689.3	971.3	751.9	555.0	456.5	465.5
87.5°	152.2	179.0	241.7	228.3	205.9	389.4	474.4	398.3	277.5	188.0	201.4
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)