

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: P478056

Luminaire Tested: **IFLD-S-SA6C-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478056
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

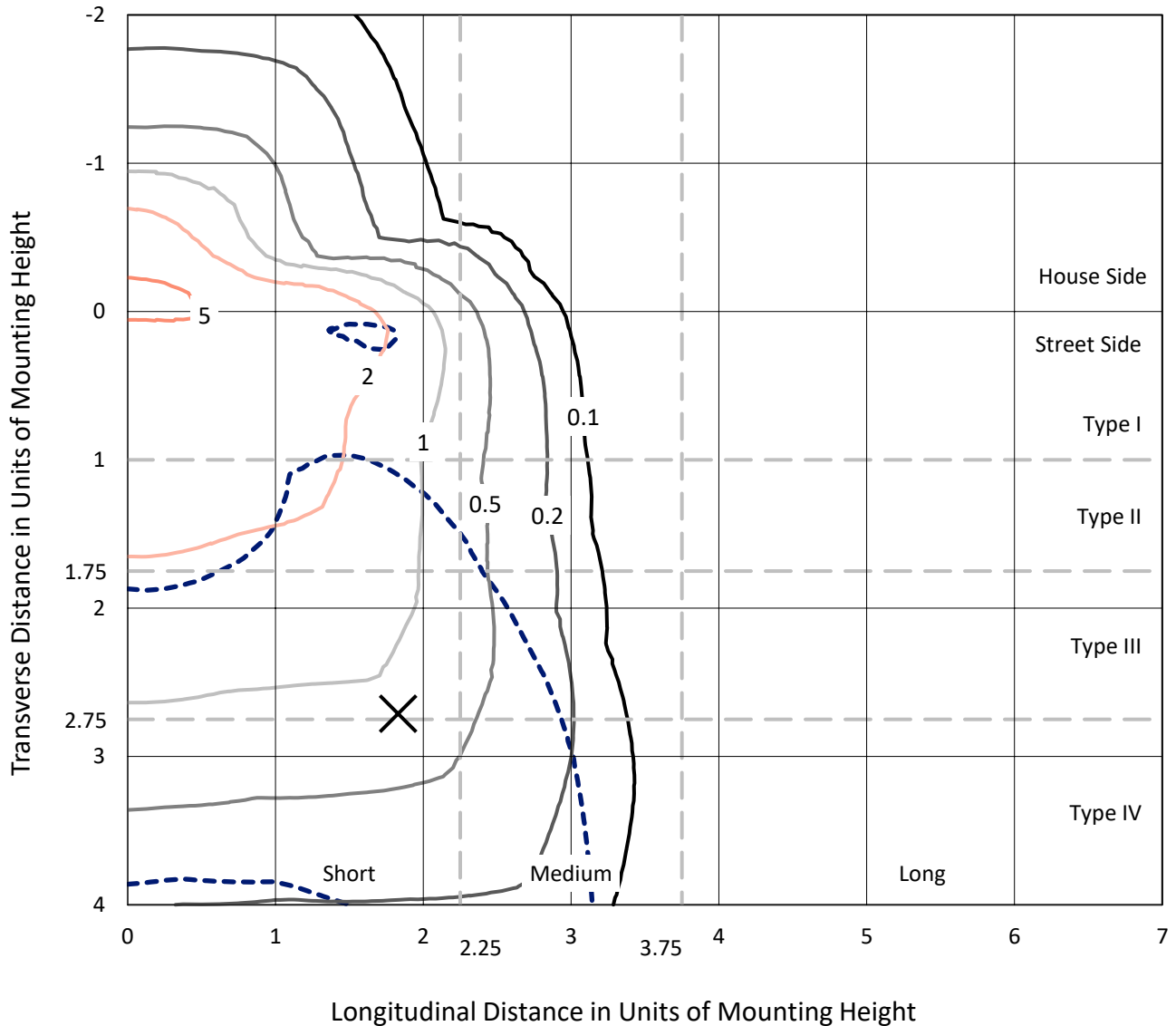
Lumens per Lamp: N/A
Luminaire Lumens: 35600.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

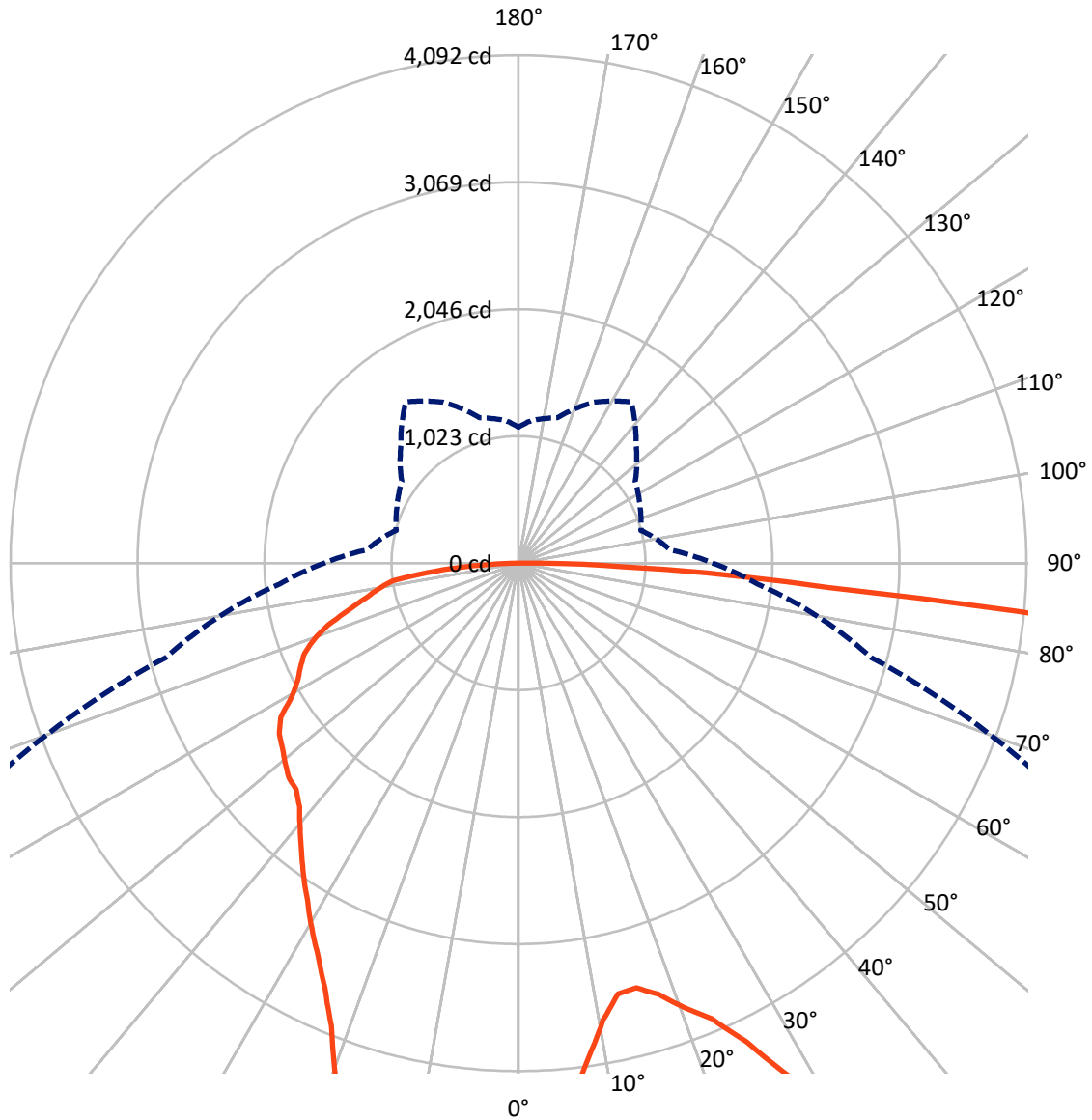
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7690.2	0.0	7690.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27910.6	0.0	27910.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	35600.9	0.0	35600.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.1	1.3
10°-20°	1318.3	3.7
20°-30°	2169.8	6.1
30°-40°	3244.9	9.1
40°-50°	4810.4	13.5
50°-60°	6932.3	19.5
60°-70°	8846.5	24.8
70°-80°	6884.1	19.3
80°-90°	923.5	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°	35600.9	100.0
0°-180°	35600.9	100.0

Coefficient of Utilization



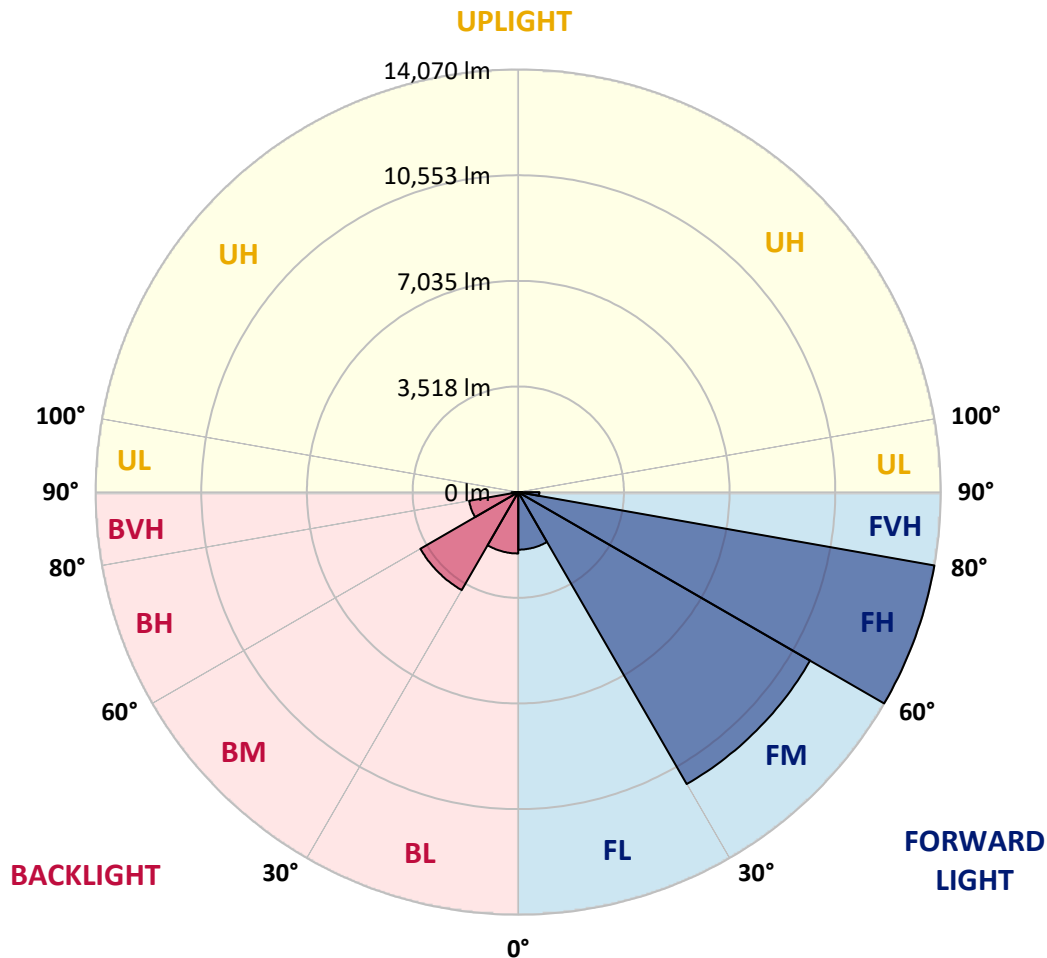
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.9	5.4			
FM (30°-60°)	11221.6	31.5			
FH (60°-80°)	14070.1	39.5			G5
FVH (80°-90°)	703.0	2.0			G4/750
BL (0°-30°)	2043.2	5.7	B3/2500		
BM (30°-60°)	3765.9	10.6	B3/5000		
BH (60°-80°)	1660.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	220.6	0.6			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9
2.5°	4573.2	4588.3	4637.2	4648.5	4701.2	4671.1	4735.1	4848.0	4912.0	5006.1	5119.0
5°	4211.9	4147.9	4178.0	4294.7	4354.9	4370.0	4437.7	4629.7	4750.1	4889.4	5100.2
7.5°	3786.6	3775.3	3835.5	3910.8	4031.2	4042.5	4193.1	4362.4	4610.9	4919.5	5167.9
10°	3496.7	3545.7	3579.5	3658.6	3741.4	3741.4	3933.3	4226.9	4509.2	4806.6	5183.0
12.5°	3481.7	3451.6	3459.1	3500.5	3560.7	3636.0	3816.7	4080.1	4437.7	4784.0	5247.0
15°	3530.6	3541.9	3474.1	3526.8	3549.4	3575.8	3775.3	4072.6	4392.6	4863.0	5356.1
17.5°	3790.3	3726.3	3620.9	3572.0	3651.0	3651.0	3786.6	4019.9	4400.1	4904.5	5514.2
20°	3993.6	3993.6	3820.4	3767.7	3824.2	3812.9	3907.0	4080.1	4437.7	4987.3	5691.1
22.5°	4336.1	4385.0	4099.0	3989.8	3986.0	4016.2	4099.0	4245.8	4543.1	5103.9	5860.5
25°	4829.2	4840.5	4509.2	4396.3	4275.9	4324.8	4339.9	4486.7	4637.2	5239.4	6052.5
27.5°	5378.7	5371.2	5066.3	4784.0	4705.0	4716.3	4633.4	4731.3	4776.5	5280.8	6327.2
30°	5988.5	5920.7	5691.1	5292.1	5228.2	5156.6	4976.0	4972.2	5066.3	5514.2	6707.4
32.5°	6387.5	6300.9	6142.8	5856.7	5679.8	5687.4	5401.3	5397.5	5314.7	5770.2	7038.6
35°	6778.9	6647.2	6605.8	6312.2	6135.3	6154.1	5924.5	5894.4	5743.8	6157.9	7584.4
37.5°	7249.4	7132.7	7196.7	6974.6	6756.3	6666.0	6560.6	6523.0	6327.2	6703.6	8329.7
40°	7768.8	7731.2	7689.8	7580.6	7448.9	7456.4	7343.5	7305.9	7016.0	7362.3	9044.8
42.5°	8468.9	8325.9	8111.4	8182.9	8250.6	8322.1	8284.5	8186.6	7885.5	8032.3	9842.8
45°	9120.1	8931.9	8536.7	8559.3	8837.8	8894.3	9349.7	9338.4	8732.4	8883.0	10749.9
47.5°	9560.5	9473.9	9236.8	9210.4	9609.4	9605.6	10426.2	10426.2	9624.5	9729.9	11724.8
50°	10215.4	9989.6	9887.9	10019.7	10222.9	10362.2	11525.3	11596.8	10501.5	10614.4	13000.7
52.5°	10983.3	10701.0	10445.0	10783.8	11145.1	11235.4	12613.1	12582.9	11175.2	11642.0	14495.0
55°	11619.4	11476.3	11299.4	11495.2	12086.1	12199.0	13704.6	13426.1	11849.0	12492.6	15214.0
57.5°	12360.9	12447.4	12485.1	12436.2	13140.0	13316.9	14950.5	14152.5	12428.6	13064.7	15635.5
60°	13478.8	13531.5	13580.4	13697.1	14442.3	14690.8	15936.6	15063.4	12793.7	13396.0	15669.4
62.5°	15180.1	14976.8	15086.0	15488.7	16087.2	16369.5	17389.5	15703.3	13072.3	13595.5	14562.8
65°	17126.1	16851.3	16738.4	17257.8	18808.6	18582.7	19203.8	16181.3	12669.5	12850.2	12349.6
67.5°	19098.4	19128.5	18838.7	19881.3	21782.1	21782.1	20890.0	16410.9	11578.0	10414.9	8660.9
70°	20664.2	20758.3	20916.4	22937.6	25948.8	26404.2	22979.0	15469.9	9353.5	6933.2	4735.1
72.5°	20641.6	20359.3	21168.6	24891.1	29735.4	29355.2	23415.7	12232.9	5837.9	3395.1	2171.8
73°	20178.6	19941.5	20826.0	24872.3	29889.7	29532.1	23095.7	11276.9	5149.1	2943.4	1930.9
75°	16478.7	16049.6	17555.2	22527.4	27653.9	27928.6	19621.6	7354.8	2823.0	1814.2	1358.8
77.5°	7512.9	7701.1	9662.1	15112.3	21311.6	21635.3	12899.1	3180.6	1547.0	1272.2	1001.2
80°	2412.7	2533.2	3760.2	7512.9	13358.3	13941.7	5962.1	1445.4	1102.8	974.9	749.0
82.5°	922.2	918.4	1577.1	3124.1	6331.0	6703.6	2179.3	880.8	820.5	718.9	530.7
85°	323.7	338.8	594.7	1234.6	2491.7	2608.4	756.6	489.3	568.4	481.8	304.9
87.5°	112.9	116.7	210.8	447.9	858.2	907.1	210.8	195.7	282.3	278.5	154.3
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°	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9	5103.9
2.5°	5156.6	5190.5	5201.8	5337.3	5337.3	5337.3	5390.0	5390.0	5374.9	5337.3	5427.6
5°	5179.2	5239.4	5356.1	5472.8	5502.9	5529.3	5600.8	5540.6	5563.1	5525.5	5559.4
7.5°	5243.2	5326.0	5544.3	5615.8	5566.9	5623.4	5548.1	5506.7	5465.3	5480.3	5427.6
10°	5352.4	5457.8	5559.4	5691.1	5597.0	5540.6	5386.2	5348.6	5216.9	5171.7	5213.1
12.5°	5487.9	5615.8	5789.0	5740.1	5559.4	5397.5	5231.9	5073.8	4994.8	4881.9	4912.0
15°	5623.4	5770.2	5796.5	5713.7	5487.9	5284.6	4983.5	4761.4	4682.4	4580.8	4633.4
17.5°	5770.2	5909.4	5864.3	5649.7	5344.8	5036.2	4693.7	4475.4	4309.7	4245.8	4245.8
20°	5988.5	6056.2	5984.7	5544.3	5171.7	4765.2	4434.0	4185.5	4019.9	3993.6	3952.2
22.5°	6157.9	6267.0	5947.1	5390.0	4919.5	4411.4	4031.2	3937.1	3888.2	3846.8	3794.1
25°	6376.2	6372.4	5879.3	5247.0	4486.7	3989.8	3760.2	3752.7	3730.1	3715.0	3786.6
27.5°	6583.2	6496.6	5800.3	4893.2	4038.7	3669.9	3545.7	3628.5	3662.3	3639.8	3669.9
30°	6910.6	6767.6	5687.4	4516.8	3643.5	3346.2	3368.8	3481.7	3538.1	3572.0	3526.8
32.5°	7256.9	7038.6	5454.0	4125.3	3293.5	3142.9	3195.6	3312.3	3380.0	3417.7	3459.1
35°	7757.5	7249.4	5216.9	3613.4	3041.3	3018.7	3048.8	3112.8	3210.7	3237.0	3248.3
37.5°	8374.8	7569.3	4896.9	3203.1	2845.6	2871.9	2902.0	2924.6	2928.4	2977.3	2958.5
40°	8992.1	7840.3	4430.2	2811.7	2642.3	2785.3	2770.3	2728.9	2695.0	2649.8	2638.5
42.5°	9534.1	8077.5	3910.8	2480.5	2461.6	2695.0	2646.1	2540.7	2461.6	2427.8	2371.3
45°	10143.9	8412.5	3387.6	2273.4	2322.4	2585.8	2570.8	2408.9	2307.3	2186.9	2171.8
47.5°	10934.3	8762.5	2887.0	2058.9	2190.6	2544.4	2552.0	2345.0	2198.2	2036.3	2013.7
50°	11946.8	9266.9	2506.8	1968.6	2111.6	2484.2	2495.5	2258.4	2066.4	1900.8	1885.7
52.5°	12917.9	9782.6	2190.6	1829.3	2058.9	2412.7	2439.1	2179.3	1957.3	1750.2	1761.5
55°	13407.3	9594.4	1919.6	1727.7	1938.4	2296.0	2393.9	2122.9	1791.6	1648.6	1644.9
57.5°	13516.4	9131.4	1705.1	1622.3	1836.8	2171.8	2318.6	1953.5	1716.4	1595.9	1580.9
60°	13158.8	8322.1	1535.7	1509.4	1708.8	2043.8	2145.5	1863.2	1641.1	1543.2	1520.6
62.5°	12278.1	7482.8	1419.0	1456.7	1599.7	1904.6	2036.3	1799.2	1569.6	1501.8	1452.9
65°	10068.6	6154.1	1324.9	1355.0	1486.8	1769.1	1968.6	1727.7	1505.6	1441.6	1437.8
67.5°	6974.6	4242.0	1249.6	1306.1	1396.4	1671.2	1900.8	1648.6	1422.8	1400.2	1370.1
70°	3572.0	2262.1	1151.8	1196.9	1298.6	1547.0	1780.4	1565.8	1336.2	1332.4	1294.8
72.5°	1810.5	1324.9	1038.9	1106.6	1178.1	1385.1	1629.8	1456.7	1227.1	1185.7	1125.4
73°	1565.8	1227.1	1020.0	1080.3	1148.0	1340.0	1584.6	1430.3	1212.0	1151.8	1095.3
75°	1140.5	967.3	914.6	974.9	1027.6	1208.2	1434.1	1309.9	1114.1	1050.1	997.5
77.5°	854.4	745.3	760.3	828.1	873.2	1042.6	1276.0	1185.7	1008.7	922.2	899.6
80°	628.6	568.4	628.6	692.6	726.4	918.4	1163.1	1027.6	850.7	752.8	734.0
82.5°	447.9	414.0	485.6	527.0	542.0	760.3	1046.4	820.5	643.6	515.7	474.3
85°	255.9	252.2	327.5	323.7	335.0	444.1	688.8	545.8	414.0	316.2	308.6
87.5°	112.9	124.2	165.6	131.7	139.3	210.8	293.6	203.3	169.4	94.1	71.5
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)