

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: P478183

Luminaire Tested: **IFLD-L-SA7C-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478183
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

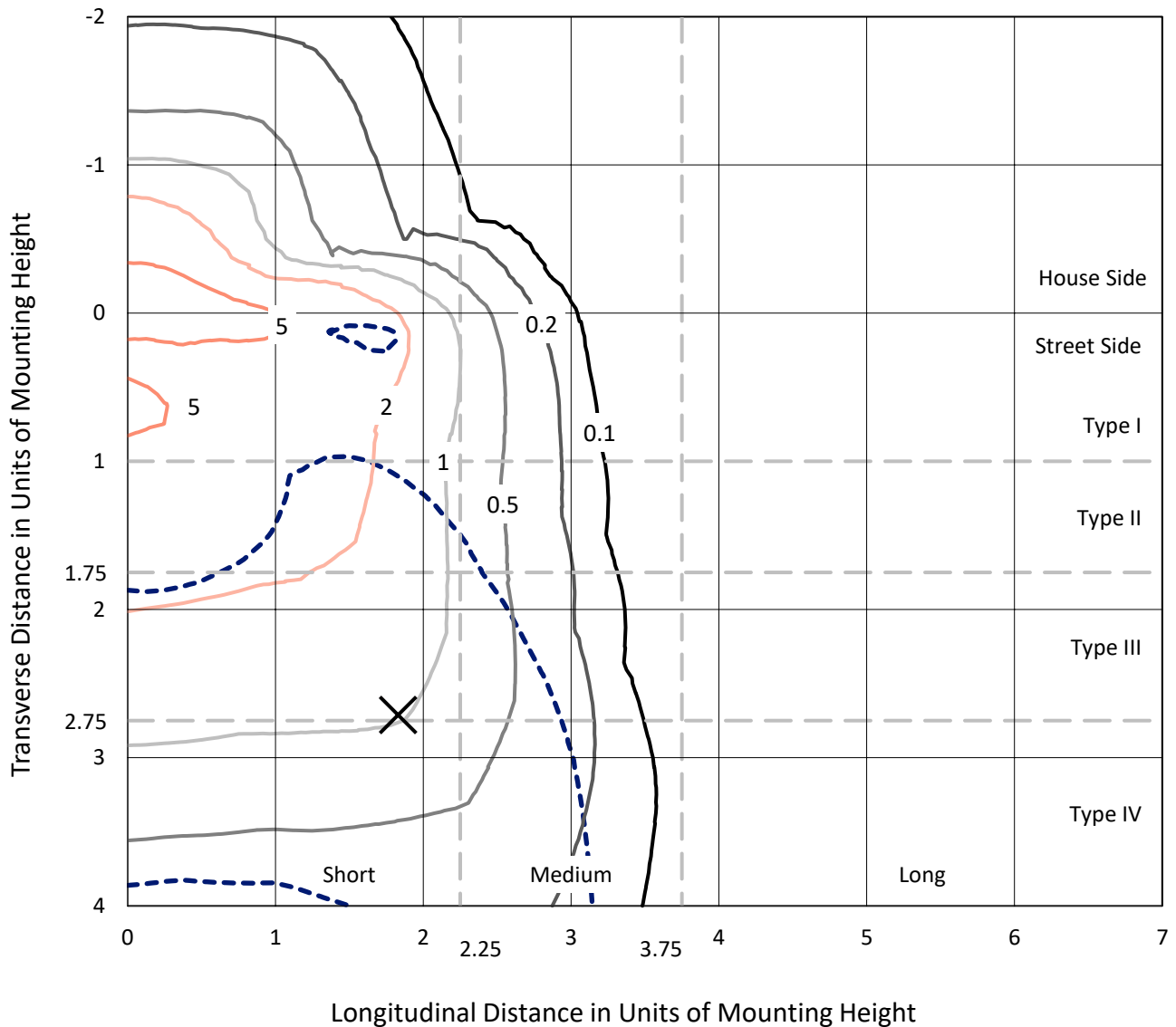
Lumens per Lamp: N/A
Luminaire Lumens: 45416.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

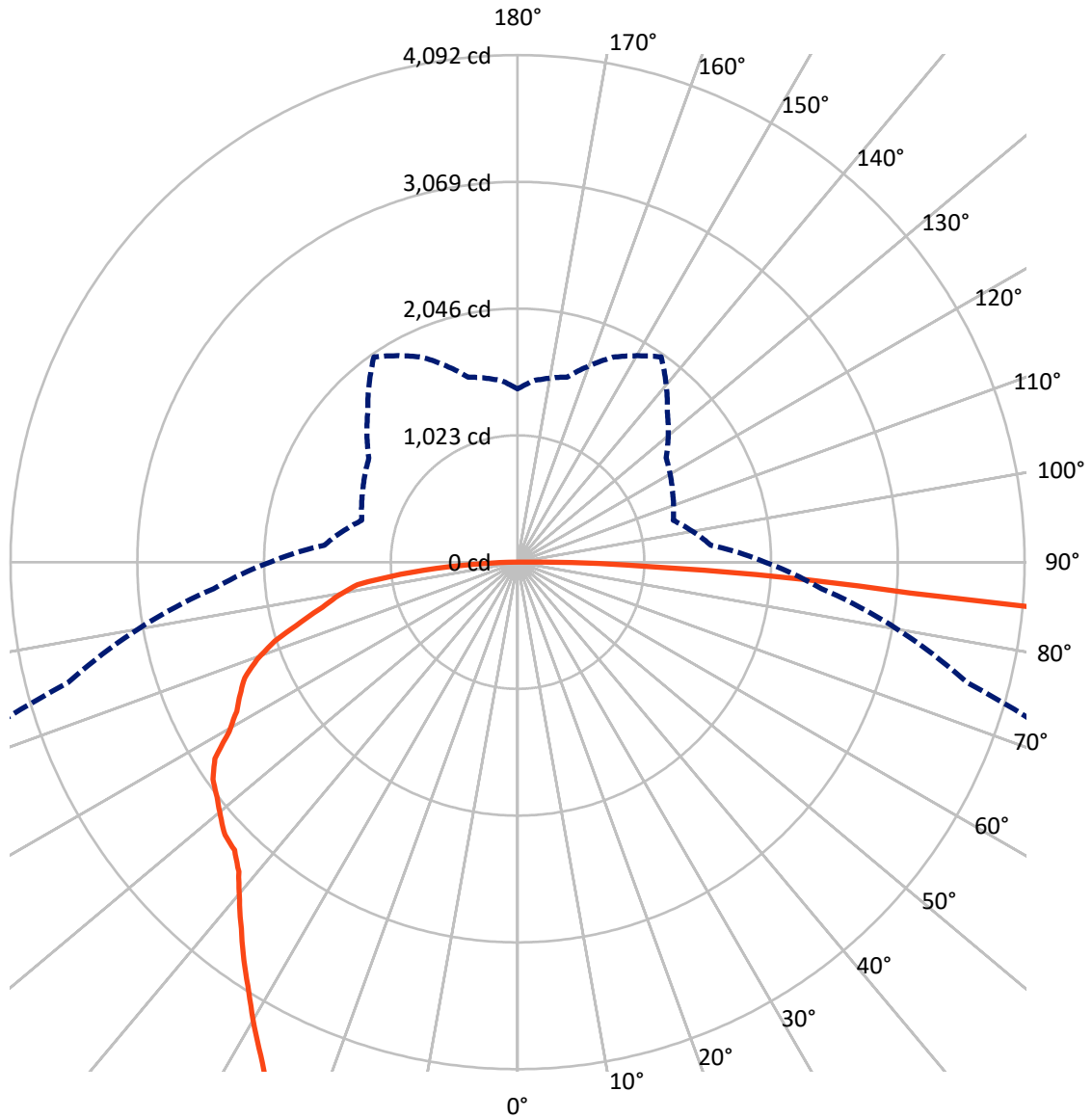
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	9810.6	0.0	9810.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	35606.0	0.0	35606.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	45416.6	0.0	45416.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.0	1.3
10°-20°	1681.8	3.7
20°-30°	2768.0	6.1
30°-40°	4139.5	9.1
40°-50°	6136.7	13.5
50°-60°	8843.6	19.5
60°-70°	11285.7	24.8
70°-80°	8782.1	19.3
80°-90°	1178.2	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°	45416.6	100.0
0°-180°	45416.6	100.0

Coefficient of Utilization



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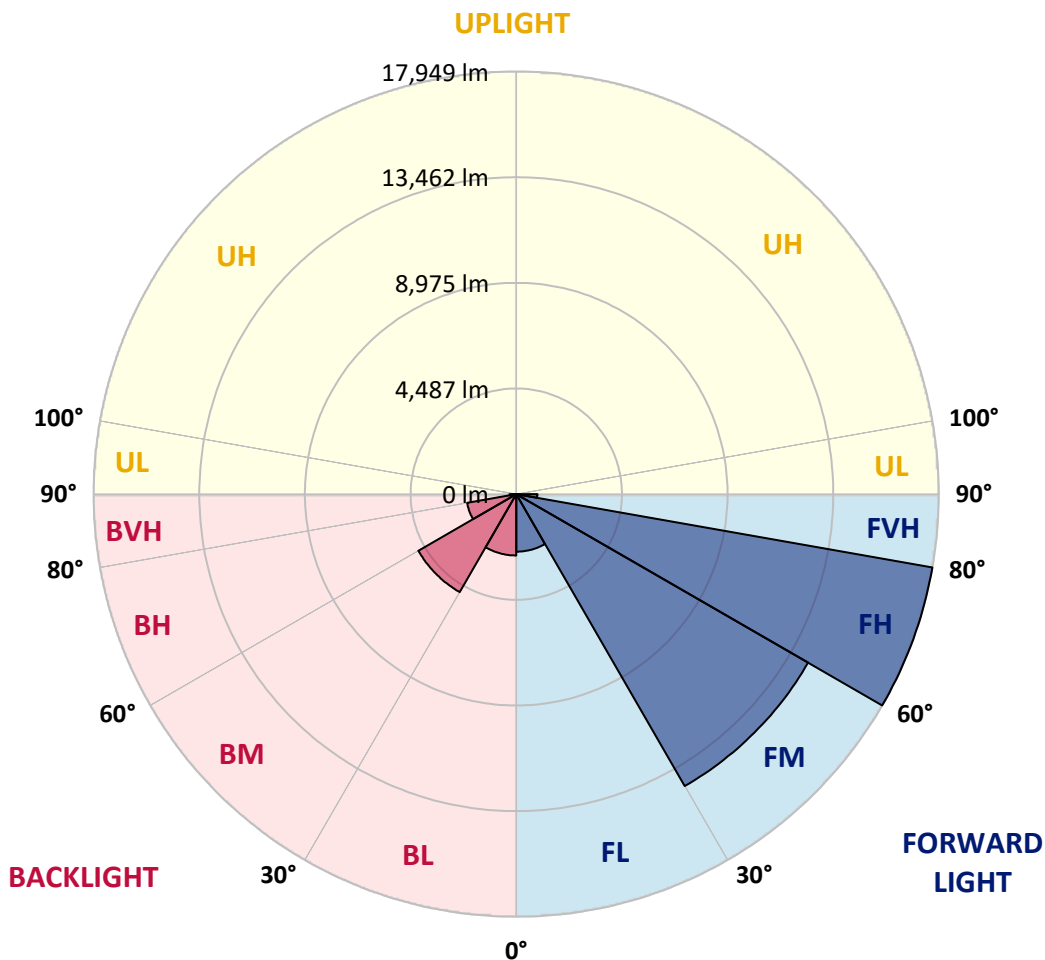
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2444.2	5.4			
FM (30°-60°)	14315.6	31.5			
FH (60°-80°)	17949.5	39.5			G5
FVH (80°-90°)	896.8	2.0			G5
BL (0°-30°)	2606.6	5.7	B4/5000		
BM (30°-60°)	4804.3	10.6	B3/5000		
BH (60°-80°)	2118.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	281.4	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2
2.5°	5834.1	5853.3	5915.8	5930.2	5997.4	5959.0	6040.6	6184.7	6266.3	6386.3	6530.4
5°	5373.2	5291.5	5329.9	5478.8	5555.6	5574.8	5661.3	5906.2	6059.8	6237.5	6506.4
7.5°	4830.6	4816.2	4893.0	4989.0	5142.7	5157.1	5349.2	5565.2	5882.2	6275.9	6592.8
10°	4460.8	4523.3	4566.5	4667.3	4772.9	4772.9	5017.8	5392.4	5752.5	6131.8	6612.0
12.5°	4441.6	4403.2	4412.8	4465.6	4542.5	4638.5	4869.0	5205.1	5661.3	6103.0	6693.6
15°	4504.0	4518.5	4432.0	4499.2	4528.1	4561.7	4816.2	5195.5	5603.6	6203.9	6832.9
17.5°	4835.4	4753.7	4619.3	4556.9	4657.7	4657.7	4830.6	5128.3	5613.3	6256.7	7034.6
20°	5094.7	5094.7	4873.8	4806.6	4878.6	4864.2	4984.2	5205.1	5661.3	6362.3	7260.3
22.5°	5531.6	5594.0	5229.1	5089.9	5085.1	5123.5	5229.1	5416.4	5795.7	6511.2	7476.3
25°	6160.7	6175.1	5752.5	5608.4	5454.8	5517.2	5536.4	5723.7	5915.8	6684.0	7721.2
27.5°	6861.7	6852.1	6463.2	6103.0	6002.2	6016.6	5911.0	6035.8	6093.4	6736.9	8071.8
30°	7639.6	7553.2	7260.3	6751.3	6669.6	6578.4	6347.9	6343.1	6463.2	7034.6	8556.7
32.5°	8148.6	8038.1	7836.5	7471.5	7245.8	7255.5	6890.5	6885.7	6780.1	7361.1	8979.3
35°	8648.0	8479.9	8427.1	8052.5	7826.9	7850.9	7558.0	7519.5	7327.5	7855.7	9675.5
37.5°	9248.2	9099.3	9181.0	8897.7	8619.2	8503.9	8369.5	8321.4	8071.8	8551.9	10626.3
40°	9910.8	9862.8	9810.0	9670.7	9502.7	9512.3	9368.2	9320.2	8950.5	9392.2	11538.6
42.5°	10803.9	10621.5	10347.8	10439.0	10525.4	10616.7	10568.7	10443.8	10059.7	10246.9	12556.6
45°	11634.7	11394.6	10890.4	10919.2	11274.5	11346.5	11927.6	11913.2	11140.1	11332.1	13713.8
47.5°	12196.5	12086.0	11783.5	11749.9	12258.9	12254.1	13300.9	13300.9	12278.1	12412.5	14957.5
50°	13032.0	12743.9	12614.2	12782.3	13041.6	13219.2	14703.0	14794.2	13396.9	13540.9	16585.3
52.5°	14011.5	13651.4	13324.9	13757.0	14218.0	14333.2	16090.7	16052.3	14256.4	14851.8	18491.6
55°	14823.0	14640.6	14414.9	14664.6	15418.4	15562.5	17483.2	17127.9	15115.9	15937.0	19408.7
57.5°	15769.0	15879.4	15927.4	15865.0	16762.9	16988.6	19072.6	18054.6	15855.4	16666.9	19946.5
60°	17195.1	17262.3	17324.7	17473.6	18424.3	18741.3	20330.6	19216.6	16321.2	17089.4	19989.7
62.5°	19365.5	19106.2	19245.4	19759.2	20522.7	20882.8	22184.1	20032.9	16676.5	17343.9	18578.0
65°	21848.0	21497.5	21353.4	22016.0	23994.4	23706.3	24498.6	20642.7	16162.7	16393.2	15754.6
67.5°	24364.1	24402.5	24032.8	25362.9	27787.8	27787.8	26649.7	20935.7	14770.2	13286.5	11048.8
70°	26361.6	26481.7	26683.4	29261.9	33103.3	33684.3	29314.7	19735.2	11932.4	8844.8	6040.6
72.5°	26332.8	25972.7	27005.1	31754.0	37933.9	37448.9	29871.7	15605.7	7447.5	4331.2	2770.6
73°	25742.2	25439.7	26568.1	31730.0	38130.7	37674.6	29463.6	14386.1	6568.8	3755.0	2463.3
75°	21022.1	20474.7	22395.4	28738.5	35278.5	35629.0	25031.5	9382.6	3601.3	2314.4	1733.4
77.5°	9584.3	9824.4	12326.1	19279.0	27187.5	27600.5	16455.6	4057.5	1973.5	1623.0	1277.3
80°	3077.9	3231.6	4797.0	9584.3	17041.4	17785.7	7606.0	1843.9	1406.9	1243.7	955.5
82.5°	1176.4	1171.6	2011.9	3985.5	8076.6	8551.9	2780.2	1123.6	1046.8	917.1	677.0
85°	413.0	432.2	758.7	1575.0	3178.8	3327.6	965.2	624.2	725.1	614.6	388.9
87.5°	144.1	148.9	268.9	571.4	1094.8	1157.2	268.9	249.7	360.1	355.3	196.9
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°	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2	6511.2
2.5°	6578.4	6621.6	6636.0	6808.9	6808.9	6808.9	6876.1	6876.1	6856.9	6808.9	6924.1
5°	6607.2	6684.0	6832.9	6981.8	7020.2	7053.8	7145.0	7068.2	7097.0	7049.0	7092.2
7.5°	6688.8	6794.5	7073.0	7164.2	7101.8	7173.8	7077.8	7025.0	6972.1	6991.4	6924.1
10°	6828.1	6962.5	7092.2	7260.3	7140.2	7068.2	6871.3	6823.3	6655.2	6597.6	6650.4
12.5°	7001.0	7164.2	7385.1	7322.7	7092.2	6885.7	6674.4	6472.8	6371.9	6227.9	6266.3
15°	7173.8	7361.1	7394.7	7289.1	7001.0	6741.7	6357.5	6074.2	5973.4	5843.7	5911.0
17.5°	7361.1	7538.8	7481.1	7207.4	6818.5	6424.7	5987.8	5709.3	5498.0	5416.4	5416.4
20°	7639.6	7726.0	7634.8	7073.0	6597.6	6079.0	5656.5	5339.6	5128.3	5094.7	5041.8
22.5°	7855.7	7994.9	7586.8	6876.1	6275.9	5627.7	5142.7	5022.6	4960.2	4907.4	4840.2
25°	8134.2	8129.4	7500.3	6693.6	5723.7	5089.9	4797.0	4787.3	4758.5	4739.3	4830.6
27.5°	8398.3	8287.8	7399.5	6242.3	5152.3	4681.7	4523.3	4628.9	4672.1	4643.3	4681.7
30°	8816.0	8633.6	7255.5	5762.1	4648.1	4268.8	4297.6	4441.6	4513.6	4556.9	4499.2
32.5°	9257.8	8979.3	6957.7	5262.7	4201.5	4009.5	4076.7	4225.5	4312.0	4360.0	4412.8
35°	9896.4	9248.2	6655.2	4609.7	3879.8	3851.0	3889.4	3971.1	4095.9	4129.5	4143.9
37.5°	10683.9	9656.3	6247.1	4086.3	3630.1	3663.7	3702.2	3731.0	3735.8	3798.2	3774.2
40°	11471.4	10002.1	5651.7	3586.9	3370.8	3553.3	3534.1	3481.3	3438.1	3380.4	3366.0
42.5°	12162.8	10304.6	4989.0	3164.4	3140.3	3438.1	3375.6	3241.2	3140.3	3097.1	3025.1
45°	12940.7	10731.9	4321.6	2900.3	2962.7	3298.8	3279.6	3073.1	2943.5	2789.8	2770.6
47.5°	13949.1	11178.5	3682.9	2626.6	2794.6	3246.0	3255.6	2991.5	2804.2	2597.7	2568.9
50°	15240.8	11821.9	3198.0	2511.3	2693.8	3169.2	3183.6	2881.1	2636.2	2424.9	2405.7
52.5°	16479.6	12479.8	2794.6	2333.7	2626.6	3077.9	3111.5	2780.2	2496.9	2232.8	2247.2
55°	17103.9	12239.7	2448.9	2204.0	2472.9	2929.1	3053.9	2708.2	2285.6	2103.2	2098.4
57.5°	17243.1	11649.1	2175.2	2069.6	2343.3	2770.6	2957.9	2492.1	2189.6	2035.9	2016.7
60°	16786.9	10616.7	1959.1	1925.5	2180.0	2607.4	2737.0	2376.9	2093.6	1968.7	1939.9
62.5°	15663.3	9545.9	1810.3	1858.3	2040.7	2429.7	2597.7	2295.2	2002.3	1915.9	1853.5
65°	12844.7	7850.9	1690.2	1728.6	1896.7	2256.8	2511.3	2204.0	1920.7	1839.1	1834.3
67.5°	8897.7	5411.6	1594.2	1666.2	1781.5	2132.0	2424.9	2103.2	1815.1	1786.3	1747.8
70°	4556.9	2885.9	1469.3	1527.0	1656.6	1973.5	2271.2	1997.5	1704.6	1699.8	1651.8
72.5°	2309.6	1690.2	1325.3	1411.7	1502.9	1767.0	2079.2	1858.3	1565.4	1512.6	1435.7
73°	1997.5	1565.4	1301.3	1378.1	1464.5	1709.4	2021.5	1824.7	1546.2	1469.3	1397.3
75°	1454.9	1234.1	1166.8	1243.7	1310.9	1541.4	1829.5	1671.0	1421.3	1339.7	1272.5
77.5°	1090.0	950.7	970.0	1056.4	1114.0	1330.1	1627.8	1512.6	1286.9	1176.4	1147.6
80°	801.9	725.1	801.9	883.5	926.7	1171.6	1483.7	1310.9	1085.2	960.4	936.3
82.5°	571.4	528.2	619.4	672.2	691.5	970.0	1334.9	1046.8	821.1	657.8	605.0
85°	326.5	321.7	417.8	413.0	427.4	566.6	878.7	696.3	528.2	403.3	393.7
87.5°	144.1	158.5	211.3	168.1	177.7	268.9	374.5	259.3	216.1	120.0	91.2
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)