

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: P478029

Luminaire Tested: **IFLD-L-SA7E-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478029  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

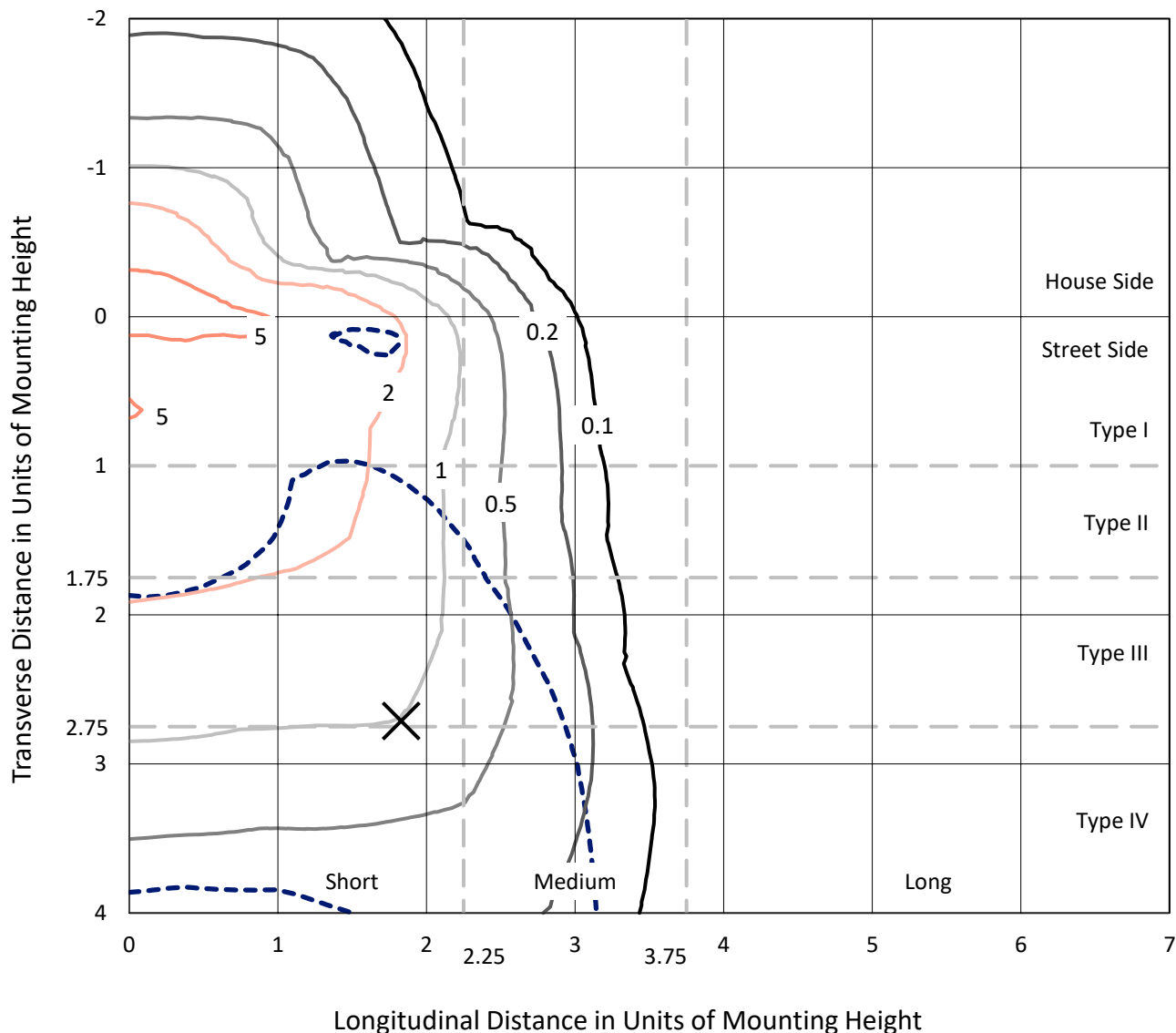
Lumens per Lamp: N/A  
Luminaire Lumens: 42600.5 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7  
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

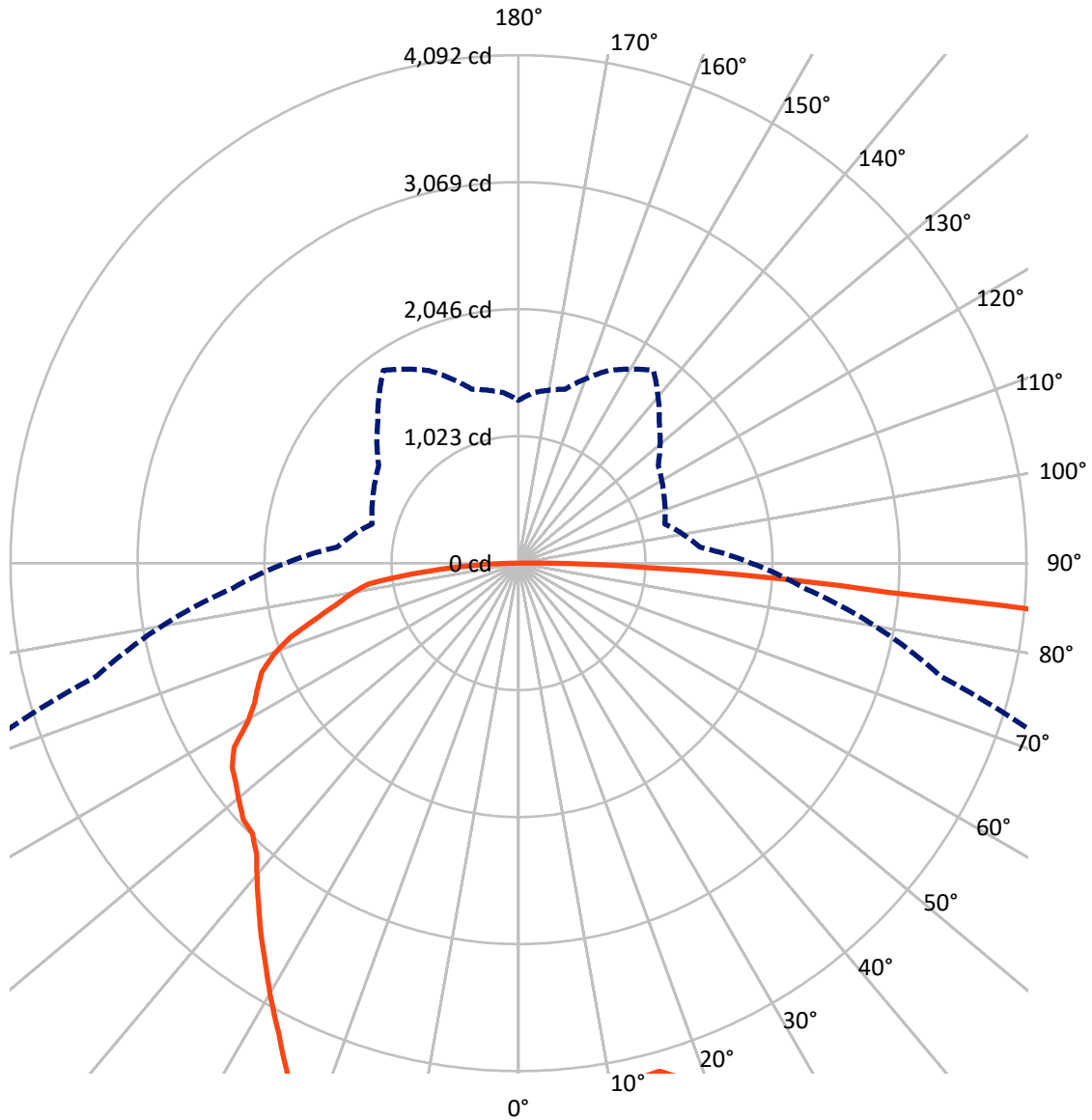
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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
<b>House Side</b>	Lumens	9202.2	0.0	9202.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	33398.3	0.0	33398.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	42600.5	0.0	42600.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.7	1.3
10°-20°	1577.5	3.7
20°-30°	2596.4	6.1
30°-40°	3882.9	9.1
40°-50°	5756.2	13.5
50°-60°	8295.3	19.5
60°-70°	10585.9	24.8
70°-80°	8237.6	19.3
80°-90°	1105.1	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°	42600.5	100.0
0°-180°	42600.5	100.0

**Coefficient of Utilization**



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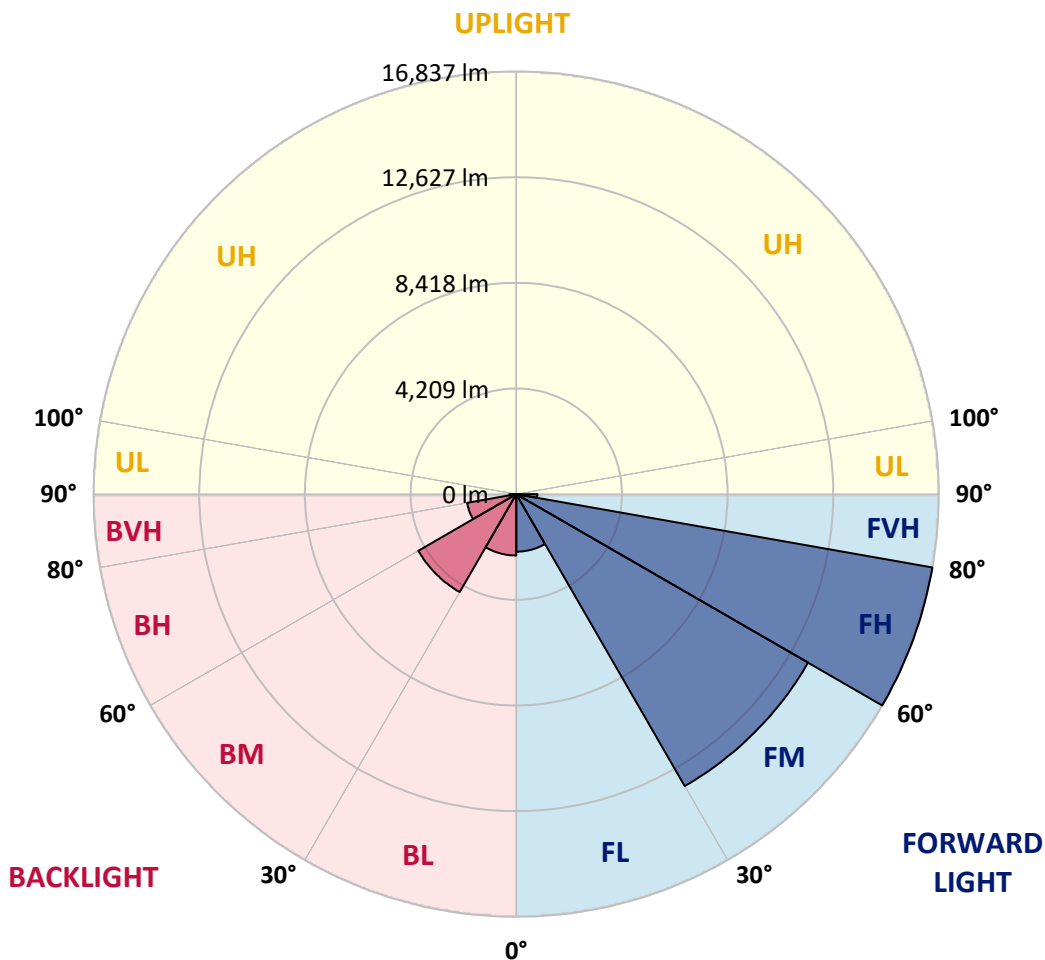
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.6	5.4			
FM (30°-60°)	13428.0	31.5			
FH (60°-80°)	16836.5	39.5			G5
FVH (80°-90°)	841.2	2.0			G5
BL (0°-30°)	2445.0	5.7	B3/2500		
BM (30°-60°)	4506.4	10.6	B3/5000		
BH (60°-80°)	1987.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	263.9	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5
2.5°	5472.4	5490.4	5549.0	5562.5	5625.5	5589.5	5666.1	5801.2	5877.8	5990.4	6125.5
5°	5040.0	4963.4	4999.5	5139.1	5211.2	5229.2	5310.2	5539.9	5684.1	5850.7	6103.0
7.5°	4531.0	4517.5	4589.6	4679.7	4823.8	4837.3	5017.5	5220.2	5517.4	5886.8	6184.0
10°	4184.2	4242.8	4283.3	4377.9	4477.0	4477.0	4706.7	5058.0	5395.8	5751.6	6202.0
12.5°	4166.2	4130.2	4139.2	4188.7	4260.8	4350.9	4567.1	4882.4	5310.2	5724.6	6278.6
15°	4224.8	4238.3	4157.2	4220.3	4247.3	4278.8	4517.5	4873.4	5256.2	5819.2	6409.2
17.5°	4535.6	4459.0	4332.9	4274.3	4368.9	4368.9	4531.0	4810.3	5265.2	5868.7	6598.4
20°	4778.8	4778.8	4571.6	4508.5	4576.1	4562.6	4675.2	4882.4	5310.2	5967.8	6810.1
22.5°	5188.6	5247.2	4904.9	4774.3	4769.8	4805.8	4904.9	5080.5	5436.4	6107.5	7012.8
25°	5778.7	5792.2	5395.8	5260.7	5116.6	5175.1	5193.1	5368.8	5549.0	6269.6	7242.5
27.5°	6436.2	6427.2	6062.4	5724.6	5630.0	5643.5	5544.5	5661.6	5715.6	6319.1	7571.3
30°	7165.9	7084.8	6810.1	6332.7	6256.1	6170.5	5954.3	5949.8	6062.4	6598.4	8026.2
32.5°	7643.3	7539.7	7350.6	7008.3	6796.6	6805.6	6463.3	6458.8	6359.7	6904.7	8422.5
35°	8111.7	7954.1	7904.6	7553.2	7341.6	7364.1	7089.3	7053.3	6873.1	7368.6	9075.6
37.5°	8674.7	8535.1	8611.7	8346.0	8084.7	7976.6	7850.5	7805.5	7571.3	8021.7	9967.4
40°	9296.3	9251.3	9201.7	9071.1	8913.5	8922.5	8787.3	8742.3	8395.5	8809.9	10823.2
42.5°	10134.1	9962.9	9706.2	9791.7	9872.8	9958.4	9913.4	9796.3	9435.9	9611.6	11778.0
45°	10913.2	10688.0	10215.1	10242.1	10575.4	10643.0	11188.0	11174.5	10449.3	10629.5	12863.5
47.5°	11440.2	11336.6	11052.9	11021.3	11498.8	11494.3	12476.1	12476.1	11516.8	11642.9	14030.0
50°	12223.9	11953.7	11832.1	11989.7	12232.9	12399.6	13791.3	13876.9	12566.2	12701.3	15556.9
52.5°	13142.7	12804.9	12498.7	12904.0	13336.4	13444.5	15093.0	15056.9	13372.4	13930.9	17345.0
55°	13903.9	13732.8	13521.1	13755.3	14462.4	14597.5	16399.1	16065.9	14178.7	14948.9	18205.3
57.5°	14791.2	14894.8	14939.8	14881.3	15723.5	15935.2	17890.0	16935.1	14872.3	15633.5	18709.7
60°	16128.9	16192.0	16250.5	16390.1	17281.9	17579.2	19070.0	18025.1	15309.2	16029.8	18750.2
62.5°	18164.7	17921.5	18052.1	18534.1	19250.2	19588.0	20808.6	18790.8	15642.5	16268.5	17426.1
65°	20493.3	20164.5	20029.4	20650.9	22506.6	22236.4	22979.5	19362.8	15160.5	15376.7	14777.7
67.5°	22853.4	22889.4	22542.6	23790.3	26064.8	26064.8	24997.3	19637.5	13854.4	12462.6	10363.8
70°	24727.1	24839.7	25028.9	27447.5	31050.7	31595.7	27497.1	18511.5	11192.5	8296.4	5666.1
72.5°	24700.1	24362.3	25330.6	29785.1	35581.8	35126.9	28019.5	14638.1	6985.7	4062.6	2598.8
73°	24146.1	23862.3	24920.8	29762.6	35766.4	35338.6	27636.7	13494.1	6161.5	3522.1	2310.6
75°	19718.6	19205.2	21006.8	26956.6	33091.1	33419.9	23479.5	8800.9	3378.0	2170.9	1626.0
77.5°	8990.0	9215.2	11561.8	18083.7	25501.8	25889.1	15435.3	3805.9	1851.2	1522.4	1198.1
80°	2887.1	3031.2	4499.5	8990.0	15984.8	16682.9	7134.4	1729.5	1319.7	1166.5	896.3
82.5°	1103.5	1099.0	1887.2	3738.3	7575.8	8021.7	2607.8	1053.9	981.9	860.3	635.1
85°	387.3	405.4	711.6	1477.3	2981.7	3121.3	905.3	585.5	680.1	576.5	364.8
87.5°	135.1	139.6	252.2	536.0	1026.9	1085.5	252.2	234.2	337.8	333.3	184.7
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°	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5	6107.5
2.5°	6170.5	6211.0	6224.6	6386.7	6386.7	6386.7	6449.8	6449.8	6431.7	6386.7	6494.8
5°	6197.5	6269.6	6409.2	6548.8	6584.9	6616.4	6702.0	6629.9	6656.9	6611.9	6652.4
7.5°	6274.1	6373.2	6634.4	6720.0	6661.5	6729.0	6638.9	6589.4	6539.8	6557.9	6494.8
10°	6404.7	6530.8	6652.4	6810.1	6697.5	6629.9	6445.3	6400.2	6242.6	6188.5	6238.1
12.5°	6566.9	6720.0	6927.2	6868.6	6652.4	6458.8	6260.6	6071.4	5976.8	5841.7	5877.8
15°	6729.0	6904.7	6936.2	6837.1	6566.9	6323.6	5963.3	5697.6	5603.0	5481.4	5544.5
17.5°	6904.7	7071.3	7017.3	6760.5	6395.7	6026.4	5616.5	5355.3	5157.1	5080.5	5080.5
20°	7165.9	7247.0	7161.4	6634.4	6188.5	5702.1	5305.7	5008.5	4810.3	4778.8	4729.2
22.5°	7368.6	7499.2	7116.4	6449.8	5886.8	5278.7	4823.8	4711.2	4652.7	4603.1	4540.1
25°	7629.8	7625.3	7035.3	6278.6	5368.8	4774.3	4499.5	4490.5	4463.5	4445.5	4531.0
27.5°	7877.5	7773.9	6940.7	5855.2	4832.8	4391.4	4242.8	4341.9	4382.4	4355.4	4391.4
30°	8269.4	8098.2	6805.6	5404.8	4359.9	4004.1	4031.1	4166.2	4233.8	4274.3	4220.3
32.5°	8683.8	8422.5	6526.3	4936.4	3941.0	3760.9	3823.9	3963.5	4044.6	4089.7	4139.2
35°	9282.8	8674.7	6242.6	4323.9	3639.3	3612.2	3648.3	3724.8	3841.9	3873.5	3887.0
37.5°	10021.5	9057.6	5859.7	3832.9	3405.0	3436.6	3472.6	3499.6	3504.1	3562.7	3540.2
40°	10760.1	9381.9	5301.2	3364.5	3161.8	3333.0	3315.0	3265.4	3224.9	3170.8	3157.3
42.5°	11408.7	9665.6	4679.7	2968.2	2945.6	3224.9	3166.3	3040.2	2945.6	2905.1	2837.5
45°	12138.3	10066.5	4053.6	2720.4	2779.0	3094.3	3076.2	2882.6	2761.0	2616.8	2598.8
47.5°	13084.2	10485.4	3454.6	2463.7	2621.3	3044.7	3053.7	2806.0	2630.3	2436.7	2409.7
50°	14295.8	11088.9	2999.7	2355.6	2526.8	2972.7	2986.2	2702.4	2472.7	2274.5	2256.5
52.5°	15457.8	11706.0	2621.3	2189.0	2463.7	2887.1	2918.6	2607.8	2342.1	2094.4	2107.9
55°	16043.3	11480.8	2297.1	2067.3	2319.6	2747.5	2864.6	2540.3	2143.9	1972.8	1968.3
57.5°	16173.9	10926.8	2040.3	1941.2	2198.0	2598.8	2774.5	2337.6	2053.8	1909.7	1891.7
60°	15746.1	9958.4	1837.6	1806.1	2044.8	2445.7	2567.3	2229.5	1963.8	1846.6	1819.6
62.5°	14692.1	8954.0	1698.0	1743.1	1914.2	2279.0	2436.7	2152.9	1878.2	1797.1	1738.6
65°	12048.3	7364.1	1585.4	1621.4	1779.1	2116.9	2355.6	2067.3	1801.6	1725.0	1720.5
67.5°	8346.0	5076.0	1495.3	1562.9	1671.0	1999.8	2274.5	1972.8	1702.5	1675.5	1639.5
70°	4274.3	2706.9	1378.2	1432.3	1553.9	1851.2	2130.4	1873.7	1598.9	1594.4	1549.4
72.5°	2166.4	1585.4	1243.1	1324.2	1409.8	1657.5	1950.2	1743.1	1468.3	1418.8	1346.7
73°	1873.7	1468.3	1220.6	1292.7	1373.7	1603.4	1896.2	1711.5	1450.3	1378.2	1310.7
75°	1364.7	1157.5	1094.5	1166.5	1229.6	1445.8	1716.0	1567.4	1333.2	1256.6	1193.6
77.5°	1022.4	891.8	909.8	990.9	1044.9	1247.6	1526.9	1418.8	1207.1	1103.5	1076.5
80°	752.2	680.1	752.2	828.7	869.3	1099.0	1391.7	1229.6	1017.9	900.8	878.3
82.5°	536.0	495.4	581.0	630.6	648.6	909.8	1252.1	981.9	770.2	617.1	567.5
85°	306.3	301.8	391.9	387.3	400.9	531.5	824.2	653.1	495.4	378.3	369.3
87.5°	135.1	148.6	198.2	157.6	166.6	252.2	351.3	243.2	202.7	112.6	85.6
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)