

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: P478104

Luminaire Tested: **IFLD-L-SA7B-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478104  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

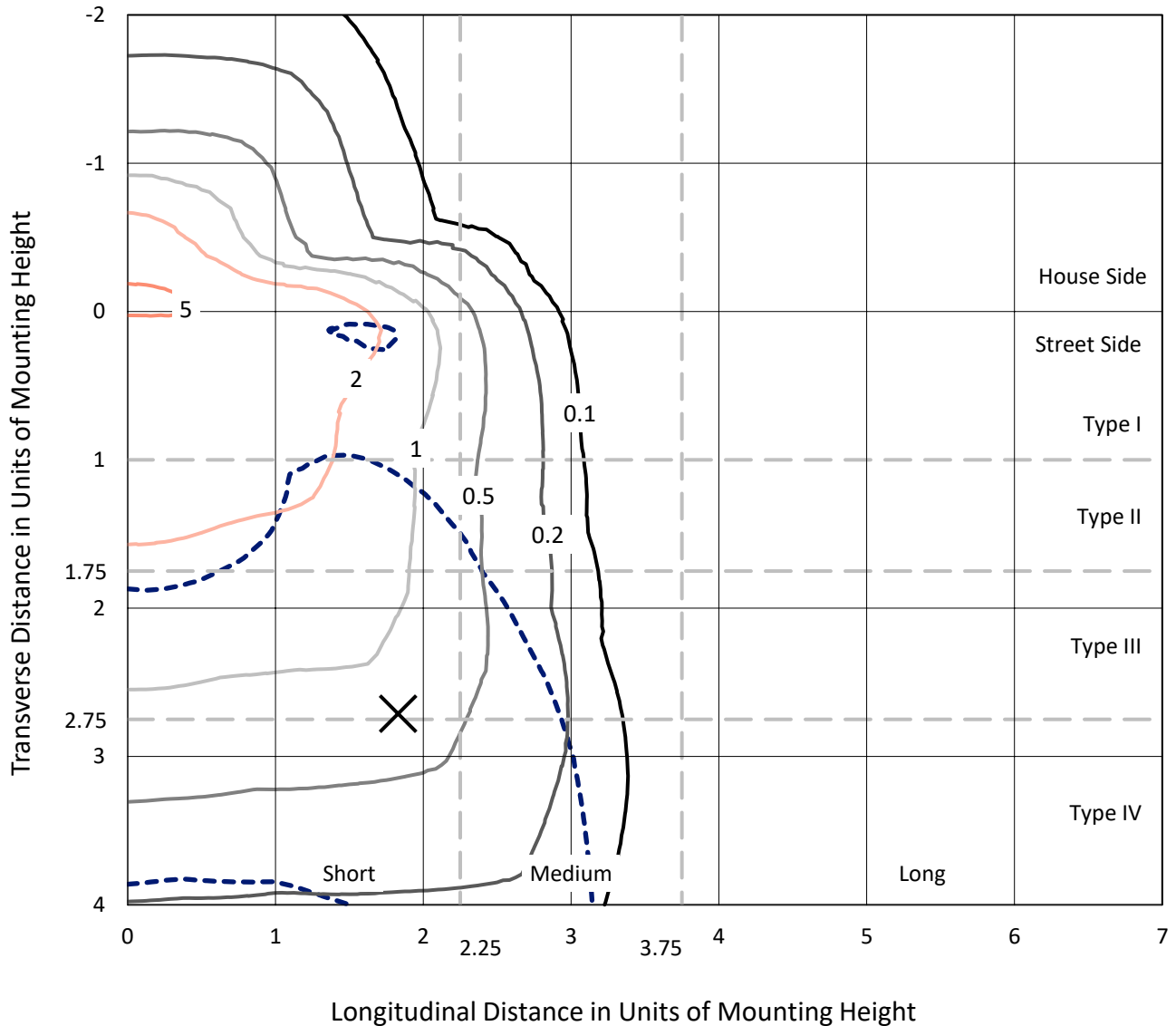
Lumens per Lamp: N/A  
Luminaire Lumens: 33222.6 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

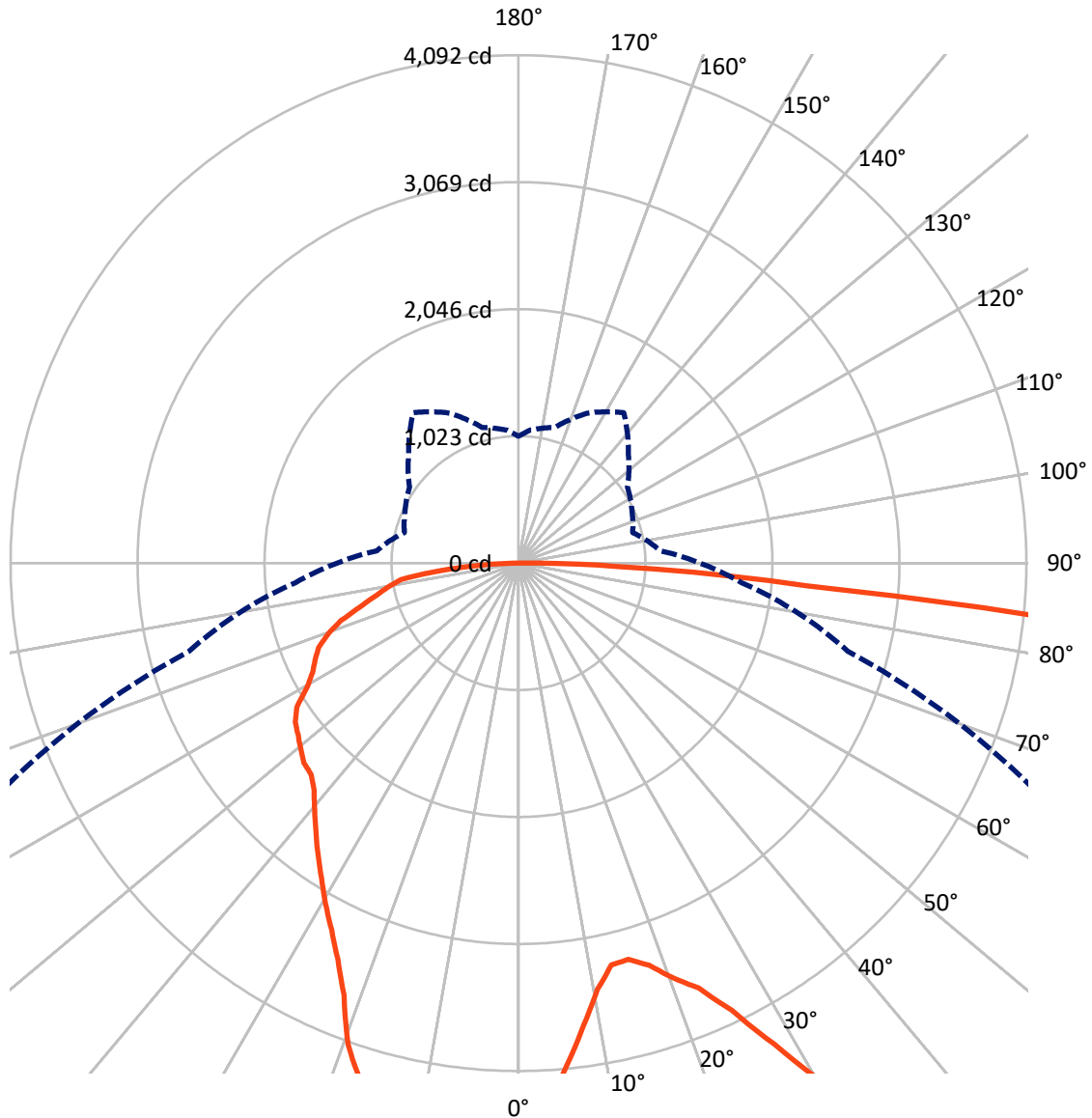
× Max cd  
 - - - 1/2 Max cd



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7176.5	0.0	7176.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	26046.1	0.0	26046.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	33222.6	0.0	33222.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.6	1.3
10°-20°	1230.3	3.7
20°-30°	2024.8	6.1
30°-40°	3028.1	9.1
40°-50°	4489.0	13.5
50°-60°	6469.2	19.5
60°-70°	8255.5	24.8
70°-80°	6424.2	19.3
80°-90°	861.8	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°	33222.6	100.0
0°-180°	33222.6	100.0

**Coefficient of Utilization**



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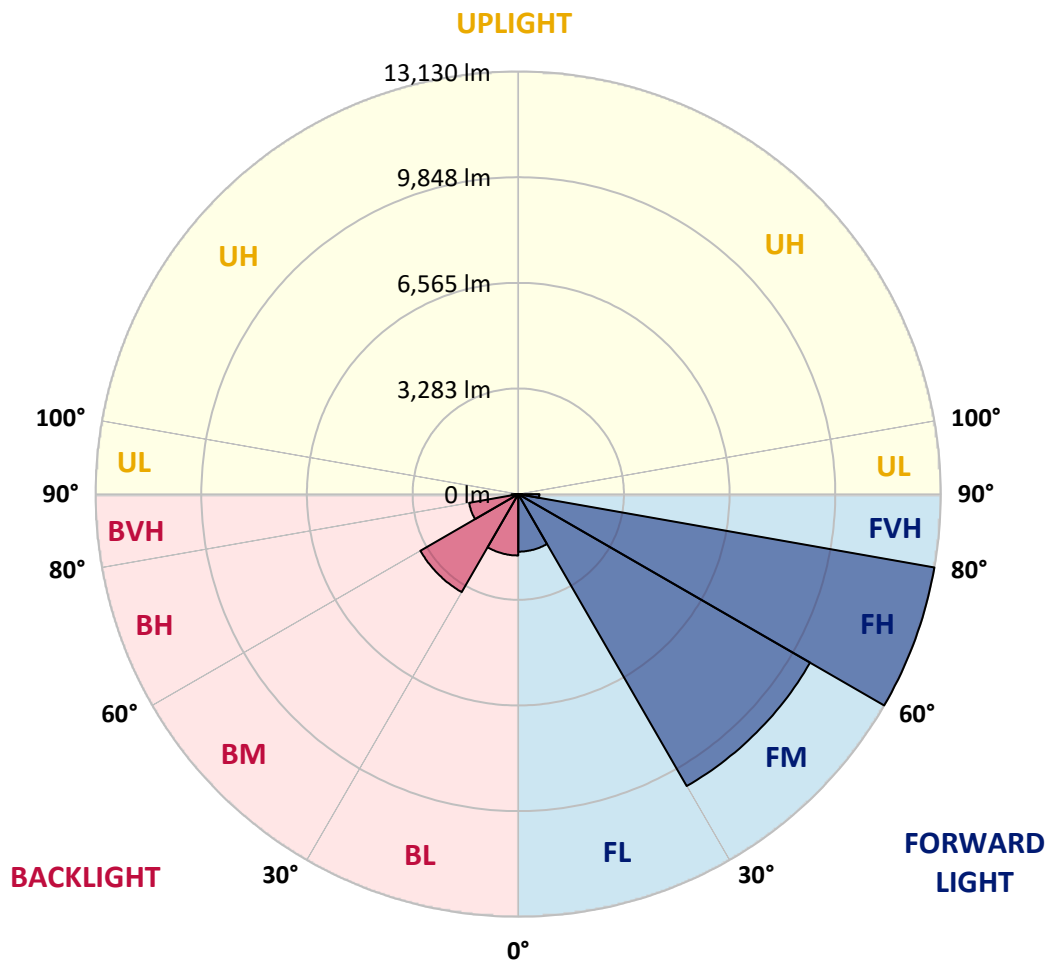
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.9	5.4			
FM (30°-60°)	10472.0	31.5			
FH (60°-80°)	13130.2	39.5			G5
FVH (80°-90°)	656.0	2.0			G4/750
BL (0°-30°)	1906.7	5.7	B3/2500		
BM (30°-60°)	3514.4	10.6	B3/5000		
BH (60°-80°)	1549.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	205.8	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°	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0
2.5°	4267.7	4281.8	4327.4	4338.0	4387.1	4359.0	4418.8	4524.1	4583.8	4671.7	4777.0
5°	3930.5	3870.8	3898.9	4007.8	4064.0	4078.0	4141.3	4320.4	4432.8	4562.8	4759.5
7.5°	3533.6	3523.1	3579.3	3649.5	3761.9	3772.4	3912.9	4071.0	4302.8	4590.9	4822.7
10°	3263.1	3308.8	3340.4	3414.2	3491.4	3491.4	3670.6	3944.6	4208.0	4485.5	4836.7
12.5°	3249.1	3221.0	3228.0	3266.6	3322.8	3393.1	3561.7	3807.6	4141.3	4464.4	4896.5
15°	3294.7	3305.3	3242.1	3291.2	3312.3	3336.9	3523.1	3800.5	4099.1	4538.2	4998.3
17.5°	3537.1	3477.4	3379.0	3333.4	3407.1	3407.1	3533.6	3751.4	4106.1	4576.8	5145.8
20°	3726.8	3726.8	3565.2	3516.0	3568.7	3558.2	3646.0	3807.6	4141.3	4654.1	5310.9
22.5°	4046.4	4092.1	3825.1	3723.3	3719.8	3747.9	3825.1	3962.1	4239.6	4763.0	5469.0
25°	4506.6	4517.1	4208.0	4102.6	3990.2	4035.9	4049.9	4186.9	4327.4	4889.4	5648.1
27.5°	5019.4	5012.4	4727.9	4464.4	4390.7	4401.2	4323.9	4415.2	4457.4	4928.1	5904.5
30°	5588.4	5525.2	5310.9	4938.6	4878.9	4812.2	4643.6	4640.0	4727.9	5145.8	6259.3
32.5°	5960.7	5880.0	5732.4	5465.5	5300.4	5307.4	5040.5	5037.0	4959.7	5384.7	6568.4
35°	6326.0	6203.1	6164.5	5890.5	5725.4	5743.0	5528.7	5500.6	5360.1	5746.5	7077.7
37.5°	6765.1	6656.2	6715.9	6508.7	6305.0	6220.7	6122.3	6087.2	5904.5	6255.8	7773.2
40°	7249.8	7214.7	7176.1	7074.2	6951.3	6958.3	6852.9	6817.8	6547.3	6870.5	8440.6
42.5°	7903.2	7769.7	7569.5	7636.2	7699.4	7766.2	7731.1	7639.7	7358.7	7495.7	9185.2
45°	8510.8	8335.2	7966.4	7987.5	8247.4	8300.1	8725.1	8714.6	8149.0	8289.5	10031.8
47.5°	8921.8	8841.0	8619.7	8595.1	8967.5	8964.0	9729.7	9729.7	8981.5	9079.9	10941.5
50°	9533.0	9322.2	9227.4	9350.3	9540.0	9670.0	10755.3	10822.1	9799.9	9905.3	12132.2
52.5°	10249.5	9986.1	9747.2	10063.4	10400.6	10484.9	11770.5	11742.4	10428.7	10864.2	13526.7
55°	10843.2	10709.7	10544.6	10727.2	11278.7	11384.1	12789.1	12529.2	11057.4	11658.1	14197.6
57.5°	11535.1	11615.9	11651.0	11605.4	12262.2	12427.3	13951.7	13207.1	11598.3	12192.0	14591.0
60°	12578.3	12627.5	12673.2	12782.1	13477.5	13709.4	14872.0	14057.1	11939.1	12501.1	14622.6
62.5°	14166.0	13976.3	14078.2	14454.0	15012.5	15276.0	16227.8	14654.2	12199.0	12687.2	13589.9
65°	15982.0	15725.6	15620.2	16104.9	17552.1	17341.3	17920.9	15100.3	11823.1	11991.7	11524.6
67.5°	17822.5	17850.6	17580.2	18553.1	20327.0	20327.0	19494.5	15314.6	10804.5	9719.1	8082.3
70°	19283.7	19371.6	19519.1	21405.3	24215.3	24640.3	21443.9	14436.5	8728.6	6470.1	4418.8
72.5°	19262.7	18999.2	19754.4	23228.3	27748.9	27394.1	21851.4	11415.7	5447.9	3168.3	2026.7
73°	18830.6	18609.3	19434.8	23210.7	27892.9	27559.2	21552.8	10523.5	4805.1	2746.8	1801.9
75°	15377.8	14977.4	16382.4	21022.4	25806.5	26062.9	18310.8	6863.5	2634.4	1693.0	1268.0
77.5°	7011.0	7186.6	9016.6	14102.8	19887.9	20190.0	12037.4	2968.1	1443.6	1187.2	934.3
80°	2251.5	2363.9	3509.0	7011.0	12465.9	13010.4	5563.8	1348.8	1029.2	909.7	699.0
82.5°	860.6	857.1	1471.7	2915.4	5908.1	6255.8	2033.7	821.9	765.7	670.9	495.3
85°	302.1	316.1	555.0	1152.1	2325.3	2434.2	706.0	456.6	530.4	449.6	284.5
87.5°	105.4	108.9	196.7	418.0	800.9	846.5	196.7	182.7	263.4	259.9	144.0
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°	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0	4763.0
2.5°	4812.2	4843.8	4854.3	4980.8	4980.8	4980.8	5029.9	5029.9	5015.9	4980.8	5065.1
5°	4833.2	4889.4	4998.3	5107.2	5135.3	5159.9	5226.6	5170.4	5191.5	5156.4	5188.0
7.5°	4892.9	4970.2	5173.9	5240.7	5195.0	5247.7	5177.5	5138.8	5100.2	5114.2	5065.1
10°	4994.8	5093.2	5188.0	5310.9	5223.1	5170.4	5026.4	4991.3	4868.4	4826.2	4864.8
12.5°	5121.3	5240.7	5402.3	5356.6	5188.0	5037.0	4882.4	4734.9	4661.1	4555.7	4583.8
15°	5247.7	5384.7	5409.3	5332.0	5121.3	4931.6	4650.6	4443.3	4369.6	4274.7	4323.9
17.5°	5384.7	5514.7	5472.5	5272.3	4987.8	4699.8	4380.1	4176.4	4021.8	3962.1	3962.1
20°	5588.4	5651.6	5584.9	5173.9	4826.2	4446.9	4137.7	3905.9	3751.4	3726.8	3688.1
22.5°	5746.5	5848.3	5549.8	5029.9	4590.9	4116.7	3761.9	3674.1	3628.4	3589.8	3540.6
25°	5950.2	5946.7	5486.6	4896.5	4186.9	3723.3	3509.0	3502.0	3480.9	3466.9	3533.6
27.5°	6143.4	6062.6	5412.8	4566.3	3768.9	3424.7	3308.8	3386.1	3417.7	3396.6	3424.7
30°	6449.0	6315.5	5307.4	4215.0	3400.1	3122.6	3143.7	3249.1	3301.8	3333.4	3291.2
32.5°	6772.1	6568.4	5089.6	3849.7	3073.5	2933.0	2982.1	3091.0	3154.2	3189.4	3228.0
35°	7239.3	6765.1	4868.4	3372.0	2838.1	2817.0	2845.1	2904.9	2996.2	3020.8	3031.3
37.5°	7815.4	7063.7	4569.8	2989.2	2655.5	2680.1	2708.2	2729.2	2732.7	2778.4	2760.8
40°	8391.4	7316.6	4134.2	2623.9	2465.8	2599.3	2585.2	2546.6	2515.0	2472.8	2462.3
42.5°	8897.2	7537.9	3649.5	2314.8	2297.2	2515.0	2469.3	2371.0	2297.2	2265.6	2212.9
45°	9466.2	7850.5	3161.3	2121.6	2167.2	2413.1	2399.1	2248.0	2153.2	2040.8	2026.7
47.5°	10203.9	8177.1	2694.1	1921.3	2044.3	2374.5	2381.5	2188.3	2051.3	1900.3	1879.2
50°	11148.7	8647.8	2339.3	1837.0	1970.5	2318.3	2328.8	2107.5	1928.4	1773.8	1759.8
52.5°	12055.0	9129.0	2044.3	1707.1	1921.3	2251.5	2276.1	2033.7	1826.5	1633.3	1643.9
55°	12511.6	8953.4	1791.4	1612.2	1808.9	2142.6	2234.0	1981.1	1672.0	1538.5	1535.0
57.5°	12613.5	8521.4	1591.2	1513.9	1714.1	2026.7	2163.7	1823.0	1601.7	1489.3	1475.3
60°	12279.8	7766.2	1433.1	1408.5	1594.7	1907.3	2002.1	1738.7	1531.5	1440.1	1419.1
62.5°	11457.8	6982.9	1324.2	1359.3	1492.8	1777.3	1900.3	1679.0	1464.7	1401.5	1355.8
65°	9396.0	5743.0	1236.4	1264.5	1387.4	1650.9	1837.0	1612.2	1405.0	1345.3	1341.8
67.5°	6508.7	3958.6	1166.2	1218.8	1303.1	1559.6	1773.8	1538.5	1327.7	1306.7	1278.6
70°	3333.4	2111.0	1074.8	1117.0	1211.8	1443.6	1661.4	1461.2	1246.9	1243.4	1208.3
72.5°	1689.5	1236.4	969.5	1032.7	1099.4	1292.6	1520.9	1359.3	1145.1	1106.4	1050.2
73°	1461.2	1145.1	951.9	1008.1	1071.3	1250.5	1478.8	1334.8	1131.0	1074.8	1022.1
75°	1064.3	902.7	853.5	909.7	958.9	1127.5	1338.3	1222.4	1039.7	980.0	930.8
77.5°	797.3	695.5	709.5	772.8	814.9	973.0	1190.7	1106.4	941.4	860.6	839.5
80°	586.6	530.4	586.6	646.3	677.9	857.1	1085.4	958.9	793.8	702.5	684.9
82.5°	418.0	386.4	453.1	491.8	505.8	709.5	976.5	765.7	600.6	481.2	442.6
85°	238.9	235.3	305.6	302.1	312.6	414.5	642.8	509.3	386.4	295.1	288.0
87.5°	105.4	115.9	154.6	122.9	130.0	196.7	274.0	189.7	158.1	87.8	66.7
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)