

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: P478097

Luminaire Tested: **IFLD-S-SA6E-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478097  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

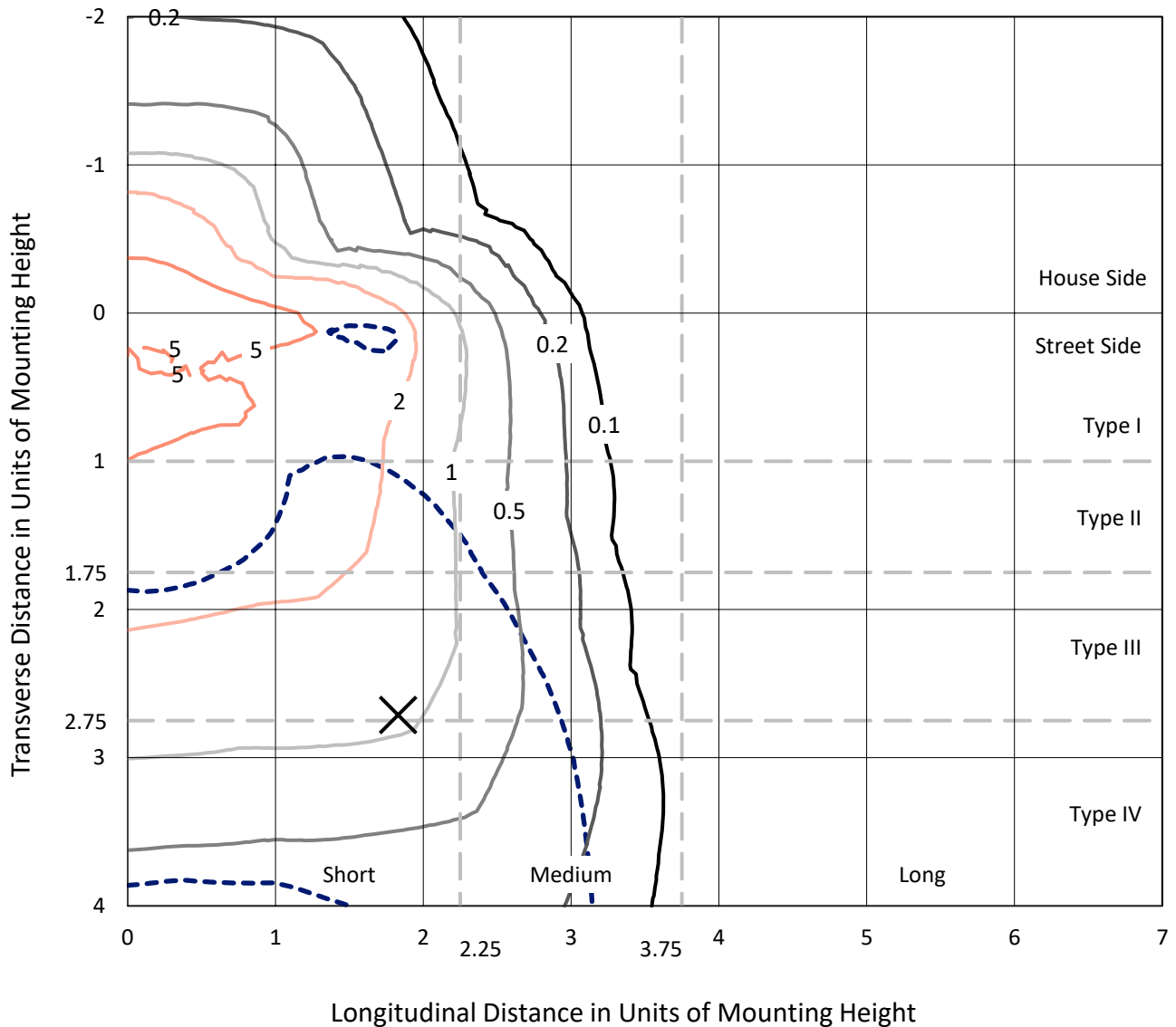
Lumens per Lamp: N/A  
Luminaire Lumens: 49362.6 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2  
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

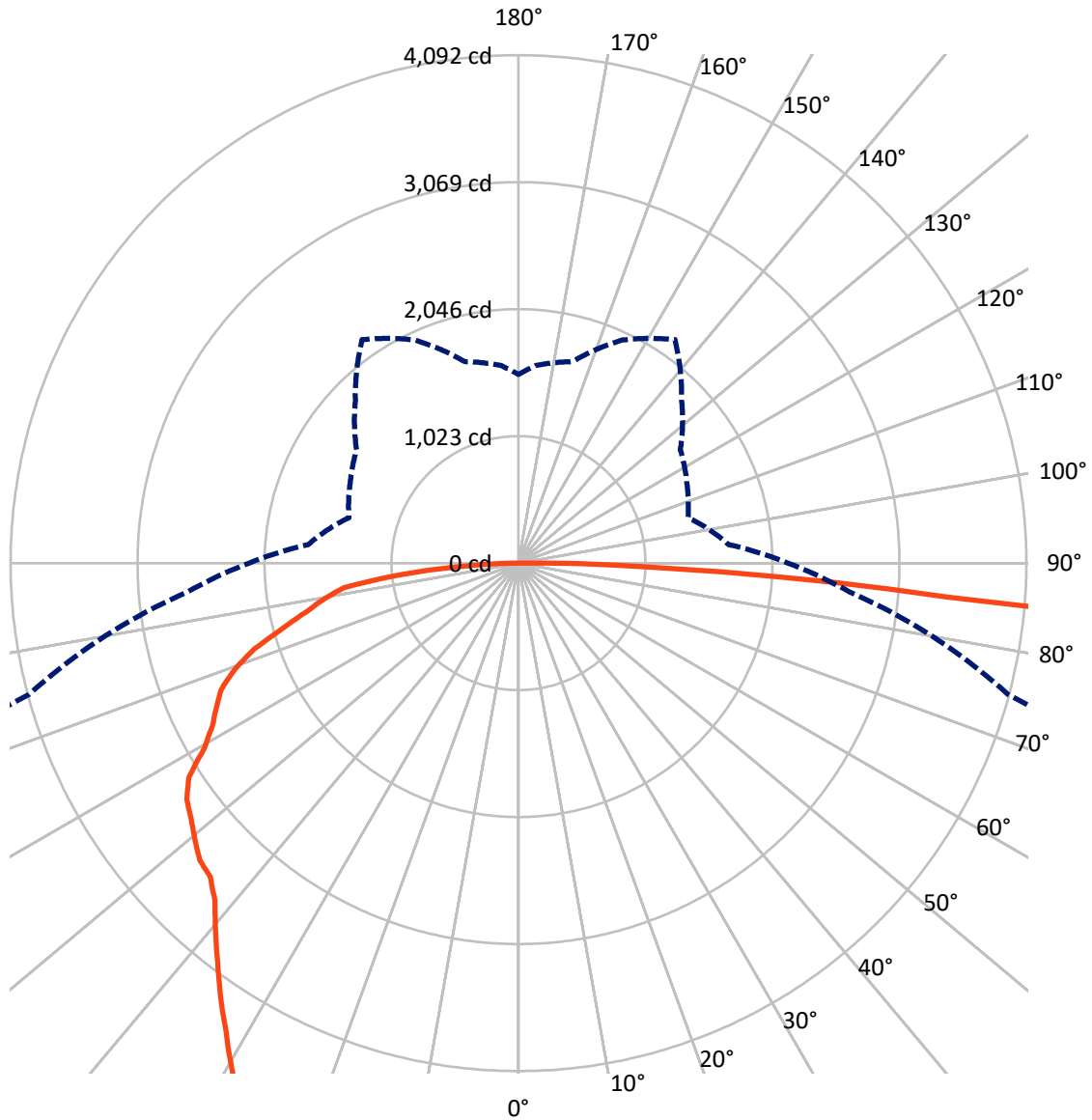
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 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	10662.9	0.0	10662.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	38699.7	0.0	38699.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	49362.6	0.0	49362.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.2	1.3
10°-20°	1827.9	3.7
20°-30°	3008.5	6.1
30°-40°	4499.2	9.1
40°-50°	6669.9	13.5
50°-60°	9612.0	19.5
60°-70°	12266.2	24.8
70°-80°	9545.1	19.3
80°-90°	1280.5	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°	49362.6	100.0
0°-180°	49362.6	100.0

**Coefficient of Utilization**



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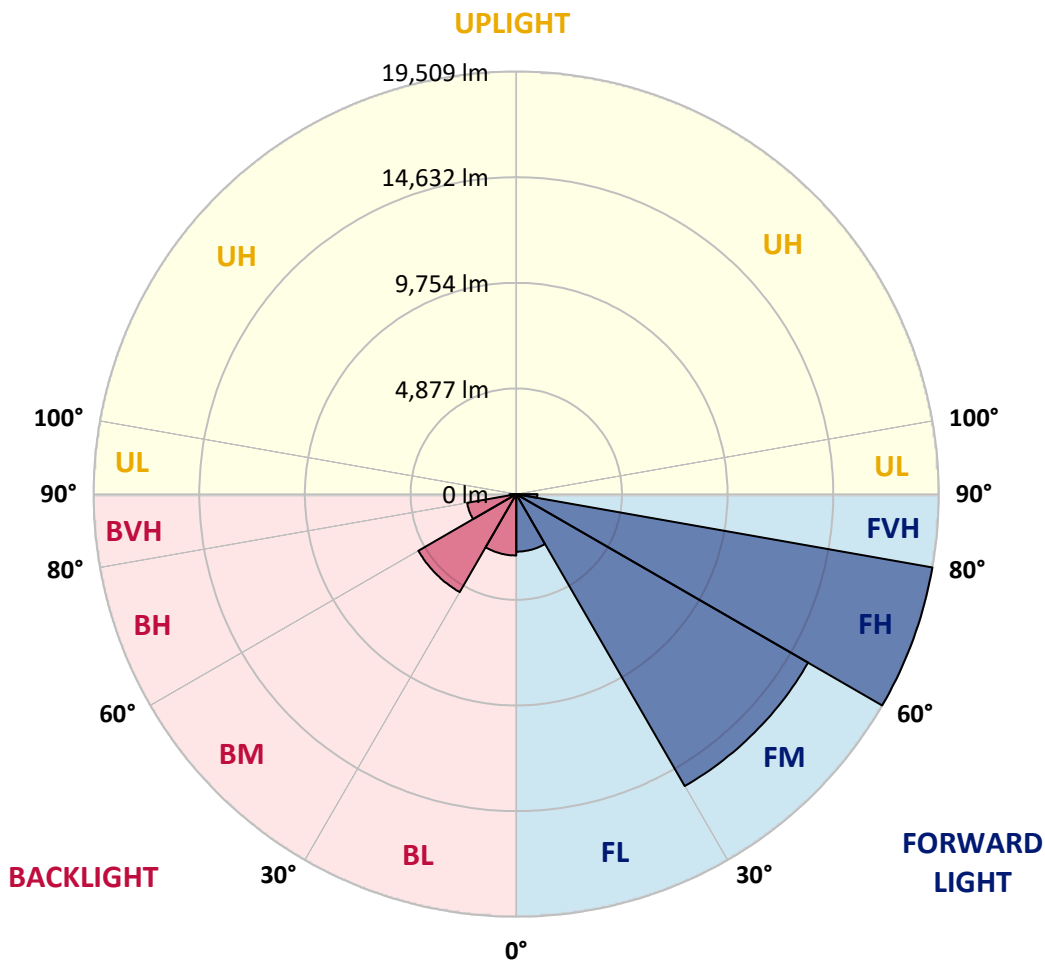
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.5	5.4			
FM (30°-60°)	15559.4	31.5			
FH (60°-80°)	19509.0	39.5			G5
FVH (80°-90°)	974.7	2.0			G5
BL (0°-30°)	2833.1	5.7	B4/5000		
BM (30°-60°)	5221.7	10.6	B4/8500		
BH (60°-80°)	2302.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	305.8	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°	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9
2.5°	6341.0	6361.9	6429.8	6445.4	6518.5	6476.7	6565.4	6722.0	6810.7	6941.2	7097.8
5°	5840.0	5751.3	5793.0	5954.8	6038.3	6059.2	6153.2	6419.3	6586.3	6779.4	7071.7
7.5°	5250.3	5234.6	5318.1	5422.5	5589.5	5605.2	5813.9	6048.8	6393.2	6821.2	7165.6
10°	4848.4	4916.3	4963.2	5072.8	5187.6	5187.6	5453.8	5860.9	6252.3	6664.6	7186.5
12.5°	4827.5	4785.8	4796.2	4853.6	4937.1	5041.5	5292.0	5657.3	6153.2	6633.3	7275.2
15°	4895.4	4911.0	4817.1	4890.2	4921.5	4958.0	5234.6	5646.9	6090.5	6742.9	7426.6
17.5°	5255.5	5166.8	5020.6	4952.8	5062.4	5062.4	5250.3	5573.8	6101.0	6800.3	7645.8
20°	5537.3	5537.3	5297.2	5224.2	5302.5	5286.8	5417.3	5657.3	6153.2	6915.1	7891.1
22.5°	6012.2	6080.1	5683.4	5532.1	5526.9	5568.6	5683.4	5887.0	6299.3	7076.9	8125.9
25°	6695.9	6711.6	6252.3	6095.7	5928.7	5996.6	6017.5	6221.0	6429.8	7264.8	8392.1
27.5°	7457.9	7447.5	7024.7	6633.3	6523.7	6539.4	6424.5	6560.2	6622.9	7322.2	8773.1
30°	8303.4	8209.4	7891.1	7337.9	7249.1	7150.0	6899.5	6894.2	7024.7	7645.8	9300.2
32.5°	8856.6	8736.5	8517.3	8120.7	7875.4	7885.8	7489.2	7484.0	7369.2	8000.7	9759.4
35°	9399.3	9216.7	9159.3	8752.2	8506.9	8533.0	8214.6	8172.9	7964.1	8538.2	10516.2
37.5°	10051.7	9889.9	9978.6	9670.7	9368.0	9242.8	9096.6	9044.5	8773.1	9295.0	11549.6
40°	10771.9	10719.7	10662.3	10511.0	10328.3	10338.8	10182.2	10130.0	9728.1	10208.3	12541.2
42.5°	11742.7	11544.3	11246.9	11346.0	11440.0	11539.1	11486.9	11351.2	10933.7	11137.3	13647.6
45°	12645.5	12384.6	11836.6	11867.9	12254.1	12332.4	12963.9	12948.2	12108.0	12316.7	14905.3
47.5°	13256.2	13136.1	12807.3	12770.8	13324.0	13318.8	14456.5	14456.5	13344.9	13491.0	16257.1
50°	14164.2	13851.1	13710.2	13892.9	14174.7	14367.8	15980.4	16079.6	14560.9	14717.5	18026.3
52.5°	15228.9	14837.5	14482.6	14952.3	15453.3	15578.6	17488.7	17447.0	15495.1	16142.2	20098.2
55°	16110.9	15912.6	15667.3	15938.7	16758.1	16914.6	19002.2	18616.0	16429.3	17321.7	21095.0
57.5°	17139.1	17259.1	17311.3	17243.4	18219.4	18464.7	20729.7	19623.3	17233.0	18115.0	21679.5
60°	18689.1	18762.1	18830.0	18991.8	20025.1	20369.6	22097.1	20886.3	17739.2	18574.3	21726.5
62.5°	21048.1	20766.2	20917.6	21476.0	22305.8	22697.2	24111.6	21773.5	18125.4	18850.9	20192.1
65°	23746.3	23365.3	23208.7	23928.9	26079.1	25766.0	26627.1	22436.3	17567.0	17817.5	17123.4
67.5°	26481.0	26522.7	26120.9	27566.5	30202.1	30202.1	28965.2	22754.7	16053.5	14440.9	12008.8
70°	28652.1	28782.5	29001.7	31804.3	35979.5	36611.0	31861.7	21449.9	12969.1	9613.3	6565.4
72.5°	28620.8	28229.3	29351.4	34513.0	41229.8	40702.6	32467.1	16961.6	8094.6	4707.5	3011.3
73°	27978.8	27650.0	28876.5	34486.9	41443.7	40947.9	32023.5	15636.0	7139.5	4081.2	2677.3
75°	22848.6	22253.6	24341.2	31235.5	38343.7	38724.7	27206.4	10197.8	3914.2	2515.5	1884.0
77.5°	10417.0	10678.0	13397.1	20954.1	29549.7	29998.6	17885.4	4410.0	2145.0	1764.0	1388.2
80°	3345.4	3512.4	5213.7	10417.0	18522.1	19331.0	8266.8	2004.1	1529.2	1351.7	1038.6
82.5°	1278.6	1273.4	2186.7	4331.7	8778.3	9295.0	3021.8	1221.2	1137.7	996.8	735.9
85°	448.8	469.7	824.6	1711.8	3454.9	3616.7	1049.0	678.5	788.1	668.0	422.7
87.5°	156.6	161.8	292.3	621.1	1189.9	1257.8	292.3	271.4	391.4	386.2	214.0
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°	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9	7076.9
2.5°	7150.0	7196.9	7212.6	7400.5	7400.5	7400.5	7473.5	7473.5	7452.7	7400.5	7525.7
5°	7181.3	7264.8	7426.6	7588.4	7630.1	7666.6	7765.8	7682.3	7713.6	7661.4	7708.4
7.5°	7270.0	7384.8	7687.5	7786.7	7718.8	7797.1	7692.7	7635.3	7577.9	7598.8	7525.7
10°	7421.4	7567.5	7708.4	7891.1	7760.6	7682.3	7468.3	7416.1	7233.5	7170.8	7228.3
12.5°	7609.2	7786.7	8026.8	7958.9	7708.4	7484.0	7254.4	7035.2	6925.6	6769.0	6810.7
15°	7797.1	8000.7	8037.2	7922.4	7609.2	7327.4	6909.9	6602.0	6492.4	6351.5	6424.5
17.5°	8000.7	8193.8	8131.1	7833.7	7410.9	6983.0	6508.0	6205.3	5975.7	5887.0	5887.0
20°	8303.4	8397.3	8298.1	7687.5	7170.8	6607.2	6147.9	5803.5	5573.8	5537.3	5479.9
22.5°	8538.2	8689.6	8246.0	7473.5	6821.2	6116.6	5589.5	5459.0	5391.2	5333.8	5260.7
25°	8840.9	8835.7	8152.0	7275.2	6221.0	5532.1	5213.7	5203.3	5172.0	5151.1	5250.3
27.5°	9128.0	9007.9	8042.4	6784.6	5599.9	5088.5	4916.3	5031.1	5078.0	5046.7	5088.5
30°	9582.0	9383.7	7885.8	6262.7	5052.0	4639.7	4671.0	4827.5	4905.8	4952.8	4890.2
32.5°	10062.1	9759.4	7562.3	5720.0	4566.6	4357.8	4430.9	4592.7	4686.6	4738.8	4796.2
35°	10756.3	10051.7	7233.5	5010.2	4216.9	4185.6	4227.4	4316.1	4451.8	4488.3	4504.0
37.5°	11612.2	10495.3	6789.9	4441.3	3945.5	3982.1	4023.8	4055.1	4060.3	4128.2	4102.1
40°	12468.1	10871.1	6142.7	3898.6	3663.7	3862.0	3841.2	3783.7	3736.8	3674.1	3658.5
42.5°	13219.6	11199.9	5422.5	3439.3	3413.2	3736.8	3668.9	3522.8	3413.2	3366.2	3287.9
45°	14065.1	11664.4	4697.1	3152.2	3220.1	3585.4	3564.5	3340.1	3199.2	3032.2	3011.3
47.5°	15161.1	12149.7	4002.9	2854.8	3037.4	3528.0	3538.5	3251.4	3047.9	2823.5	2792.1
50°	16565.0	12849.1	3475.8	2729.5	2927.8	3444.5	3460.2	3131.4	2865.2	2635.6	2614.7
52.5°	17911.5	13564.1	3037.4	2536.4	2854.8	3345.4	3381.9	3021.8	2713.9	2426.8	2442.5
55°	18589.9	13303.1	2661.7	2395.5	2687.8	3183.6	3319.3	2943.5	2484.2	2285.9	2280.7
57.5°	18741.3	12661.2	2364.2	2249.4	2546.9	3011.3	3214.9	2708.6	2379.8	2212.8	2192.0
60°	18245.5	11539.1	2129.3	2092.8	2369.4	2833.9	2974.8	2583.4	2275.5	2139.8	2108.5
62.5°	17024.2	10375.3	1967.5	2019.7	2218.1	2640.8	2823.5	2494.7	2176.3	2082.4	2014.5
65°	13960.7	8533.0	1837.1	1878.8	2061.5	2452.9	2729.5	2395.5	2087.6	1998.9	1993.6
67.5°	9670.7	5881.8	1732.7	1811.0	1936.2	2317.2	2635.6	2285.9	1972.8	1941.5	1899.7
70°	4952.8	3136.6	1597.0	1659.6	1800.5	2145.0	2468.6	2171.1	1852.7	1847.5	1795.3
72.5°	2510.3	1837.1	1440.4	1534.4	1633.5	1920.6	2259.8	2019.7	1701.4	1644.0	1560.5
73°	2171.1	1701.4	1414.3	1497.8	1591.8	1857.9	2197.2	1983.2	1680.5	1597.0	1518.7
75°	1581.3	1341.3	1268.2	1351.7	1424.8	1675.3	1988.4	1816.2	1544.8	1456.1	1383.0
77.5°	1184.7	1033.4	1054.2	1148.2	1210.8	1445.7	1769.2	1644.0	1398.7	1278.6	1247.3
80°	871.6	788.1	871.6	960.3	1007.3	1273.4	1612.7	1424.8	1179.5	1043.8	1017.7
82.5°	621.1	574.1	673.2	730.7	751.5	1054.2	1450.9	1137.7	892.4	715.0	657.6
85°	354.9	349.7	454.0	448.8	464.5	615.8	955.1	756.7	574.1	438.4	428.0
87.5°	156.6	172.2	229.6	182.7	193.1	292.3	407.1	281.8	234.9	130.5	99.2
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)