

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: P476660

Luminaire Tested: **IFLD-L-SA7A-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476660  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

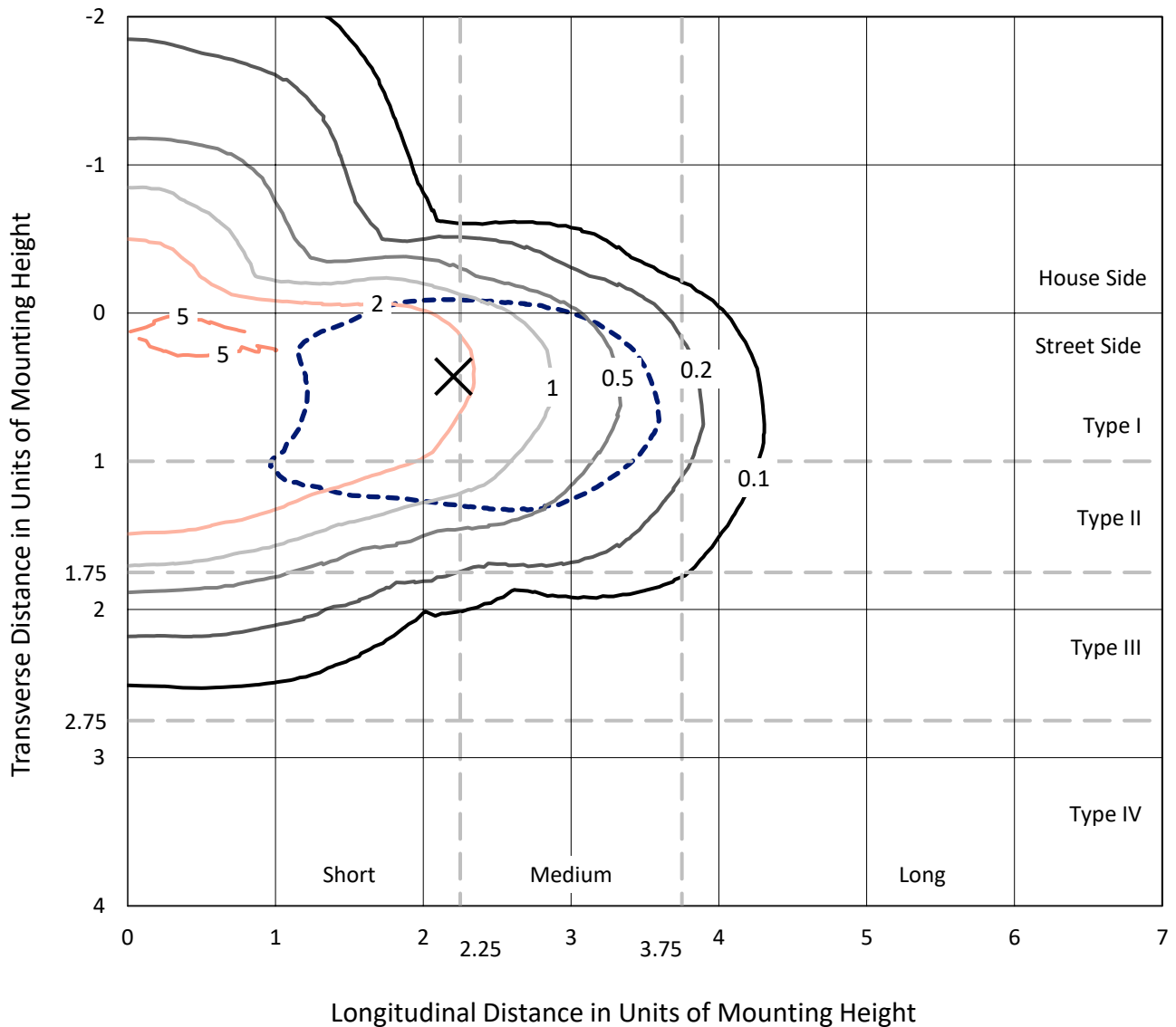
Lumens per Lamp: N/A  
Luminaire Lumens: 31978.7 lumens  
Efficiency: N/A  
Efficacy: 147.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
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

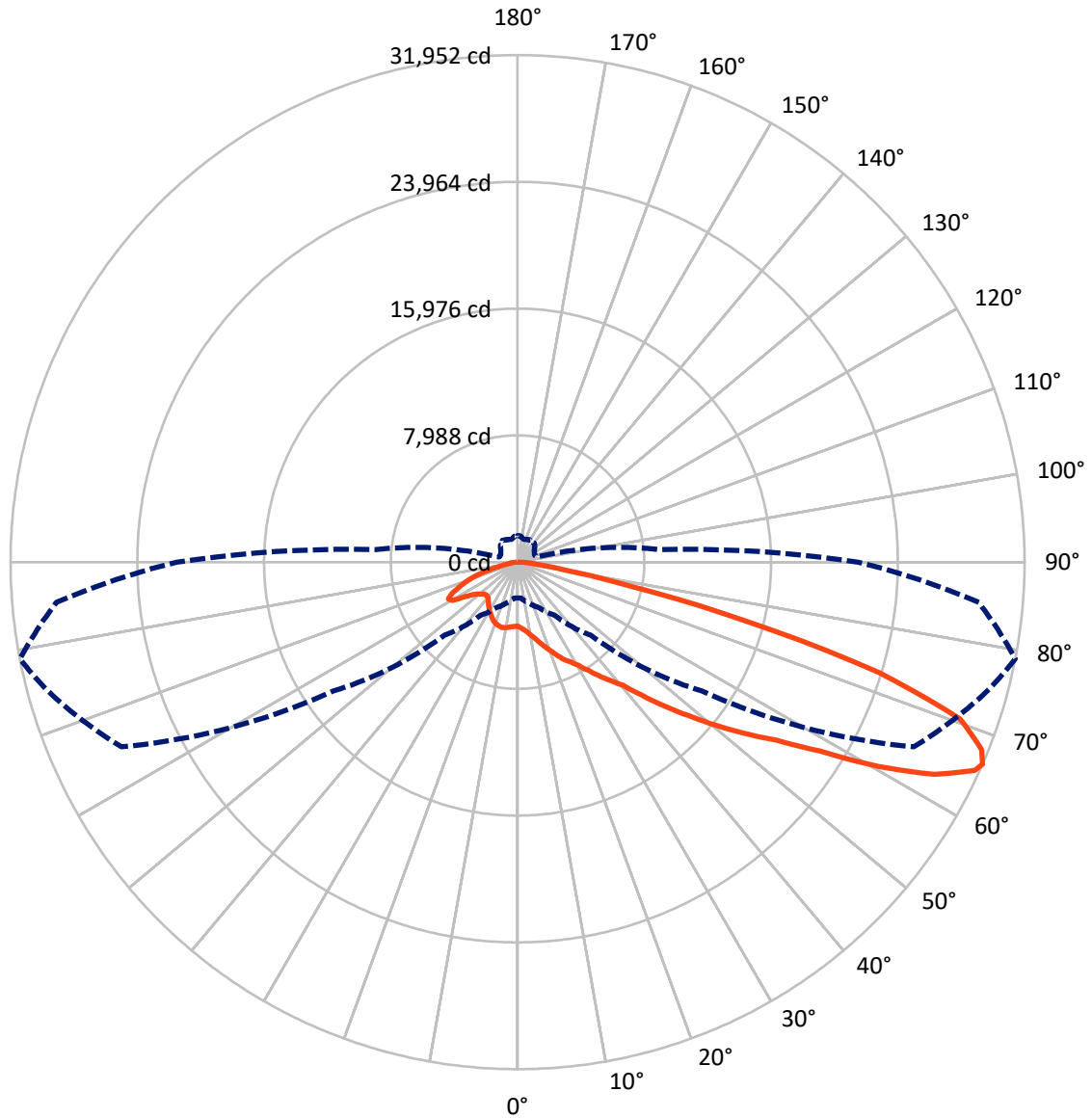
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6457.6	0.0	6457.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	25521.0	0.0	25521.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	31978.7	0.0	31978.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.1	1.2
10°-20°	1226.1	3.8
20°-30°	2104.6	6.6
30°-40°	3251.2	10.2
40°-50°	5207.6	16.3
50°-60°	7775.4	24.3
60°-70°	7989.2	25.0
70°-80°	3541.5	11.1
80°-90°	485.9	1.5
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°	31978.7	100.0
0°-180°	31978.7	100.0

**Coefficient of Utilization**



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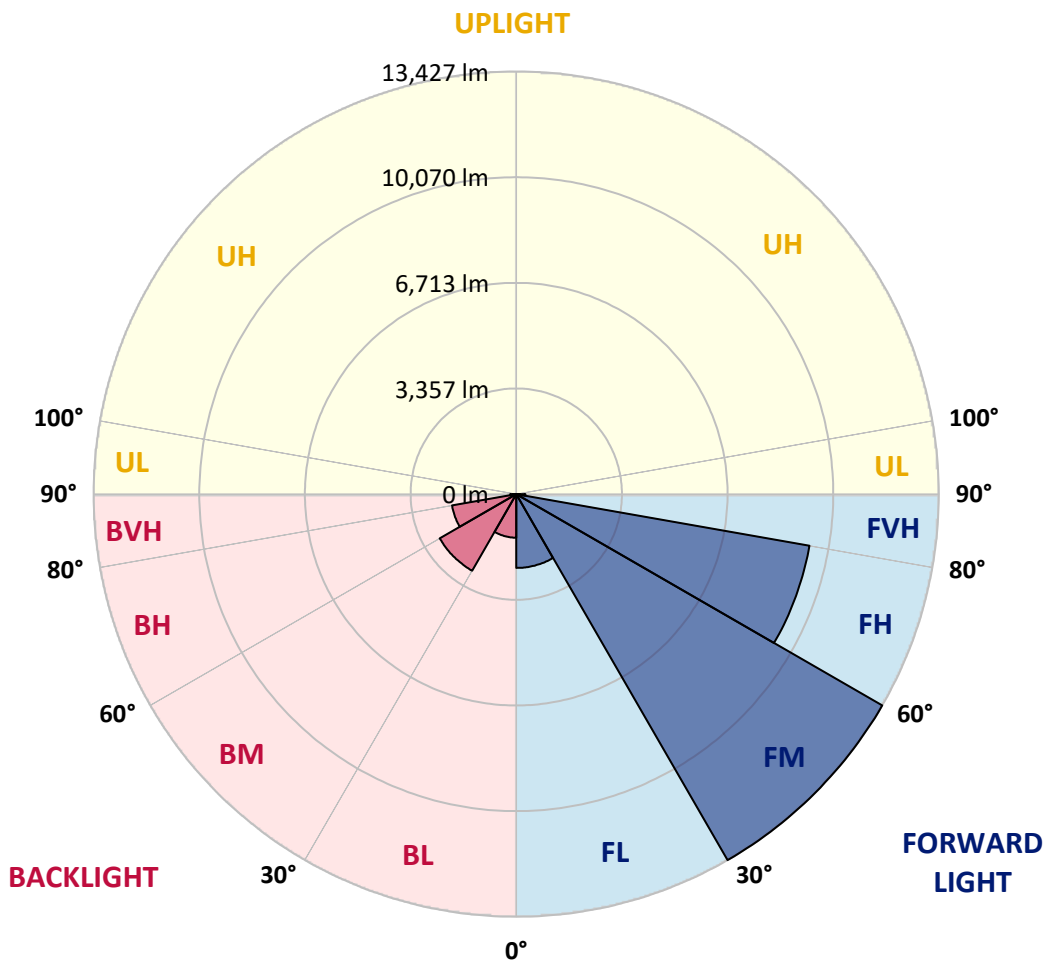
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.2	7.3			
FM (30°-60°)	13426.8	42.0			
FH (60°-80°)	9458.6	29.6			G4/12000
FVH (80°-90°)	291.4	0.9			G3/500
BL (0°-30°)	1383.5	4.3	B3/2500		
BM (30°-60°)	2807.5	8.8	B3/5000		
BH (60°-80°)	2072.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	194.5	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0
2.5°	4294.8	4298.3	4298.3	4284.2	4287.8	4298.3	4259.6	4175.2	4175.2	4161.1	4136.5
5°	4558.6	4541.0	4516.4	4519.9	4505.8	4505.8	4463.6	4382.7	4312.4	4284.2	4210.4
7.5°	4593.8	4611.4	4607.8	4650.1	4671.2	4671.2	4692.3	4625.4	4519.9	4453.1	4379.2
10°	4664.1	4618.4	4614.9	4713.4	4745.0	4818.9	4903.3	4868.1	4780.2	4685.2	4586.7
12.5°	4706.3	4734.5	4734.5	4783.7	4857.6	4966.6	5114.4	5181.2	5044.0	4945.5	4794.3
15°	4769.6	4731.0	4843.5	4885.7	5026.4	5103.8	5314.8	5487.2	5395.7	5276.2	5037.0
17.5°	4797.8	4773.2	4836.5	4913.9	5153.0	5269.1	5525.9	5765.1	5687.7	5610.3	5364.1
20°	4942.0	4938.5	4966.6	5029.9	5202.3	5430.9	5751.0	6081.6	6109.8	5969.1	5634.9
22.5°	5293.7	5248.0	5248.0	5223.4	5297.3	5532.9	5965.6	6422.8	6549.5	6384.1	5941.0
25°	5617.3	5680.7	5642.0	5529.4	5501.3	5624.4	6120.3	6785.1	6954.0	6799.2	6356.0
27.5°	6032.4	6053.5	6120.3	5969.1	5775.6	5814.3	6289.2	6989.1	7337.4	7129.8	6591.7
30°	6630.4	6591.7	6577.6	6408.8	6155.5	6102.8	6482.6	7288.1	7840.4	7548.4	6869.6
32.5°	7034.9	7129.8	7126.3	6894.2	6588.2	6472.1	6721.8	7569.5	8378.5	8107.7	7383.1
35°	7836.9	7935.3	7858.0	7516.8	7158.0	6925.8	7066.5	7935.3	8994.1	8783.0	7819.3
37.5°	8860.4	9092.6	8927.3	8297.6	7791.1	7537.9	7544.9	8332.8	9623.7	9451.4	8287.1
40°	9567.4	9880.5	9651.8	9060.9	8522.8	8283.6	8188.6	8804.1	10376.4	10193.5	9018.7
42.5°	10443.3	10703.6	10584.0	10000.1	9370.5	9166.4	8976.5	9592.1	11526.6	11442.2	9957.9
45°	11400.0	11523.1	11484.4	11115.1	10415.1	10344.8	9926.2	10629.7	12880.9	12916.0	11132.7
47.5°	12289.9	12356.8	12430.6	12163.3	11727.1	11786.9	11020.1	11741.2	14196.4	14428.5	12441.2
50°	12518.6	12747.2	12919.5	13098.9	13193.9	13598.4	12226.6	13106.0	15708.9	16159.1	13897.4
52.5°	12286.4	12268.8	12792.9	13355.7	14305.4	15153.1	13869.3	14801.4	17045.5	17935.4	15230.5
55°	11231.2	11196.0	12040.2	12785.9	14639.6	16018.4	16215.4	17059.6	18660.0	19817.2	17034.9
57.5°	9384.5	9166.4	10088.0	11312.1	13915.0	16113.4	18572.1	20411.7	21143.3	22462.4	19789.1
60°	6306.8	6215.3	7098.2	8557.9	11298.0	14766.2	19982.6	24608.0	24643.2	26127.5	24062.8
62.5°	3883.3	3900.8	4467.1	5561.1	7910.7	11706.0	19374.0	27960.1	27967.1	29455.0	27580.2
65°	2539.6	2550.1	3007.4	3612.4	4942.0	7938.9	16021.9	28223.9	30278.1	31660.5	29191.2
66°	2261.7	2265.2	2659.2	3151.6	4094.3	6496.7	14150.7	27538.0	30798.7	31952.4	29170.1
67.5°	1906.5	1952.2	2268.7	2648.6	3193.8	4667.6	11227.7	25554.2	30531.4	31544.4	28508.8
70°	1491.4	1516.0	1765.8	2152.7	2395.4	2701.4	6672.6	20830.3	27946.0	29588.7	26102.9
72.5°	1195.9	1217.0	1407.0	1748.2	1945.1	1779.8	3633.5	15114.4	22075.4	23827.1	20531.3
75°	1009.5	1013.0	1104.5	1375.3	1600.4	1336.6	1934.6	9701.1	14164.7	14980.8	12578.4
77.5°	816.0	830.1	893.4	1048.2	1287.4	1051.7	1153.7	5434.4	7112.3	7172.1	5814.3
80°	664.8	671.8	710.5	763.3	981.4	777.4	780.9	2652.1	3049.6	2979.3	2363.7
82.5°	524.1	531.1	576.9	566.3	721.1	555.8	485.4	1276.8	1403.5	1375.3	1086.9
85°	295.5	295.5	453.7	453.7	457.3	351.7	295.5	601.5	742.2	692.9	510.0
87.5°	95.0	98.5	137.2	144.2	228.6	158.3	144.2	225.1	351.7	309.5	182.9
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°	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0	4038.0
2.5°	4122.4	4066.2	4041.5	3960.6	3939.5	3886.8	3862.1	3830.5	3819.9	3774.2	3816.4
5°	4154.1	4136.5	4038.0	3936.0	3858.6	3823.5	3770.7	3700.3	3693.3	3630.0	3623.0
7.5°	4287.8	4228.0	4055.6	3946.6	3791.8	3703.9	3587.8	3552.6	3506.9	3485.8	3531.5
10°	4495.3	4344.0	4087.3	3812.9	3623.0	3517.4	3433.0	3408.4	3411.9	3397.8	3376.7
12.5°	4643.0	4498.8	4034.5	3700.3	3454.1	3352.1	3345.1	3369.7	3408.4	3390.8	3415.4
15°	4854.1	4583.2	3995.8	3513.9	3316.9	3288.8	3285.3	3359.2	3355.6	3355.6	3352.1
17.5°	5051.0	4667.6	3855.1	3352.1	3172.7	3193.8	3218.5	3214.9	3250.1	3264.2	3288.8
20°	5300.8	4766.1	3658.1	3190.3	3063.7	3056.7	3053.1	3056.7	3091.8	3112.9	3095.3
22.5°	5518.9	4787.2	3492.8	3035.5	2933.5	2905.4	2859.7	2905.4	2887.8	2894.9	2916.0
25°	5708.8	4790.7	3257.1	2919.5	2803.4	2740.1	2704.9	2701.4	2669.7	2666.2	2666.2
27.5°	5867.1	4671.2	3049.6	2757.7	2648.6	2588.8	2585.3	2546.6	2465.7	2413.0	2420.0
30°	5990.2	4579.7	2905.4	2617.0	2511.5	2500.9	2469.2	2381.3	2275.8	2209.0	2209.0
32.5°	6208.3	4396.8	2708.4	2472.8	2420.0	2405.9	2332.1	2254.7	2156.2	2092.9	2082.3
35°	6370.1	4228.0	2578.3	2349.6	2325.0	2296.9	2233.6	2149.2	2121.0	2106.9	2117.5
37.5°	6553.0	4038.0	2420.0	2244.1	2268.7	2216.0	2142.1	2103.4	2201.9	2177.3	2187.8
40°	6844.9	3904.4	2265.2	2180.8	2205.4	2145.6	2050.7	2036.6	2159.7	2071.8	2050.7
42.5°	7379.6	3900.8	2170.3	2085.8	2103.4	2057.7	1973.3	1966.2	2015.5	1910.0	1878.3
45°	8044.4	4023.9	2099.9	2015.5	2001.4	1994.4	1966.2	1934.6	1892.4	1755.2	1720.0
47.5°	8839.3	4224.4	2085.8	1910.0	1927.6	1987.4	1952.2	1871.3	1762.2	1674.3	1656.7
50°	9803.1	4639.5	2050.7	1832.6	1864.2	1959.2	1931.1	1818.5	1720.0	1663.7	1653.2
52.5°	10868.9	5163.6	2004.9	1713.0	1783.3	1934.6	1948.7	1843.1	1698.9	1649.7	1642.6
55°	12124.6	5937.4	1952.2	1582.8	1688.4	1910.0	1948.7	1772.8	1670.8	1670.8	1663.7
57.5°	14604.4	7330.3	1843.1	1463.3	1604.0	1864.2	1892.4	1776.3	1674.3	1674.3	1660.2
60°	18241.4	9504.1	1635.6	1371.8	1523.1	1800.9	1850.2	1723.5	1635.6	1656.7	1653.2
62.5°	21087.0	10165.4	1459.7	1283.9	1442.1	1684.9	1793.9	1667.3	1589.9	1667.3	1674.3
65°	21695.6	9497.1	1280.3	1188.9	1329.6	1572.3	1713.0	1586.4	1523.1	1674.3	1681.3
66°	21477.5	8976.5	1217.0	1160.8	1280.3	1516.0	1663.7	1558.2	1487.9	1667.3	1670.8
67.5°	20506.7	8195.6	1146.7	1101.0	1213.5	1435.1	1607.5	1519.5	1431.6	1646.2	1614.5
70°	18396.2	6950.5	1027.1	995.4	1118.5	1301.5	1477.3	1421.0	1343.7	1516.0	1459.7
72.5°	14168.2	5554.0	900.5	904.0	1009.5	1164.3	1347.2	1308.5	1241.7	1329.6	1294.4
75°	8628.3	3549.1	784.4	791.4	879.4	1034.1	1224.1	1195.9	1115.0	1164.3	1146.7
77.5°	3823.5	1758.7	661.3	675.3	745.7	911.0	1065.8	1020.1	935.6	946.2	939.2
80°	1484.4	833.6	538.2	555.8	601.5	728.1	882.9	840.7	766.8	752.7	745.7
82.5°	714.0	464.3	415.1	422.1	439.7	580.4	759.8	707.0	608.5	545.2	545.2
85°	358.8	288.4	291.9	267.3	291.9	394.0	513.5	429.1	355.3	316.6	323.6
87.5°	144.2	144.2	144.2	123.1	130.1	186.4	239.2	161.8	147.7	87.9	87.9
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)