

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: P478094

Luminaire Tested: **IFLD-S-SA6B-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478094  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-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**

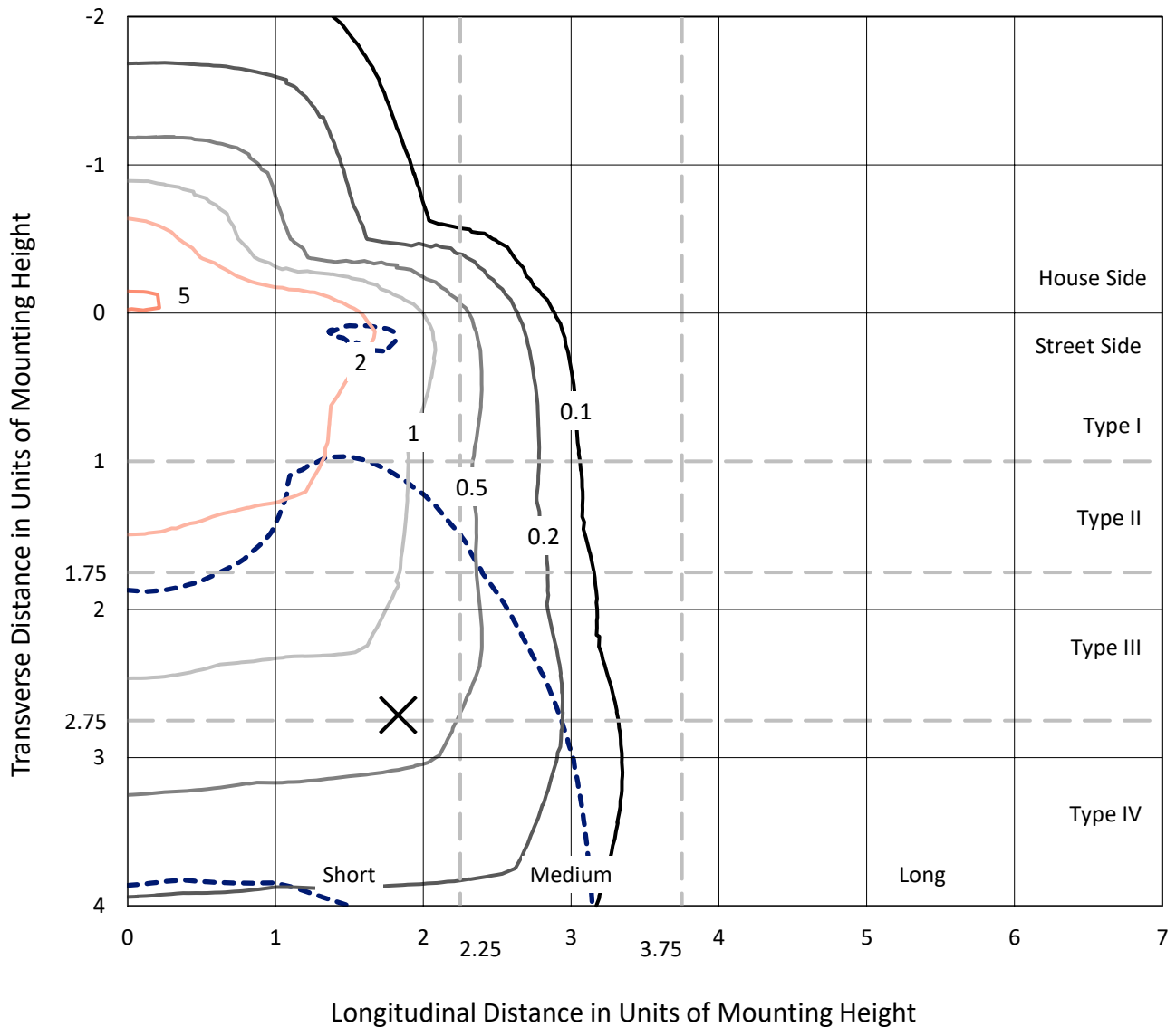
Lumens per Lamp: N/A  
Luminaire Lumens: 31140 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9  
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

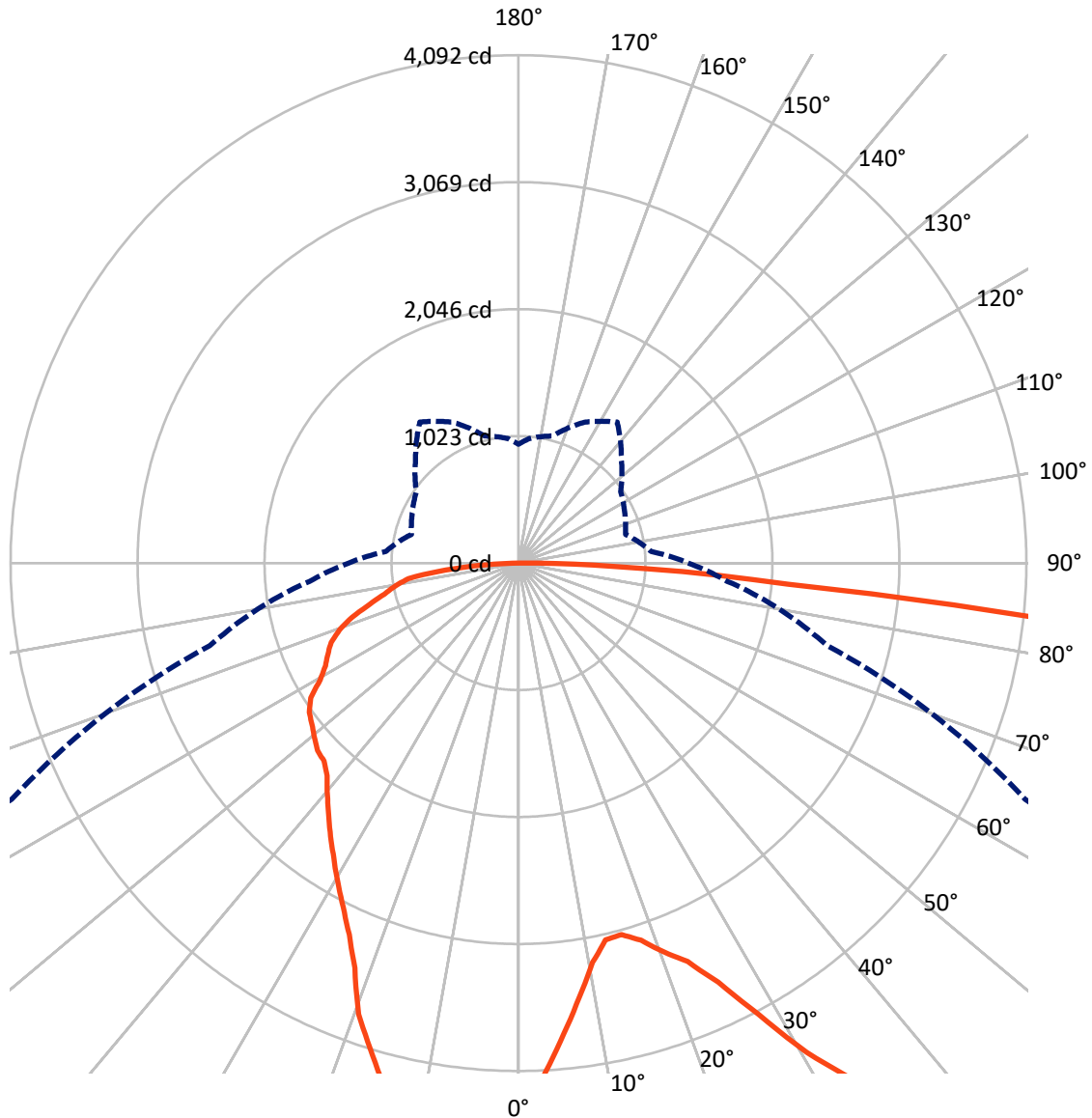
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	6726.6	0.0	6726.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	24413.3	0.0	24413.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	31140.0	0.0	31140.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.0	1.3
10°-20°	1153.1	3.7
20°-30°	1897.9	6.1
30°-40°	2838.3	9.1
40°-50°	4207.6	13.5
50°-60°	6063.6	19.5
60°-70°	7738.0	24.8
70°-80°	6021.5	19.3
80°-90°	807.8	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°	31140.0	100.0
0°-180°	31140.0	100.0

**Coefficient of Utilization**



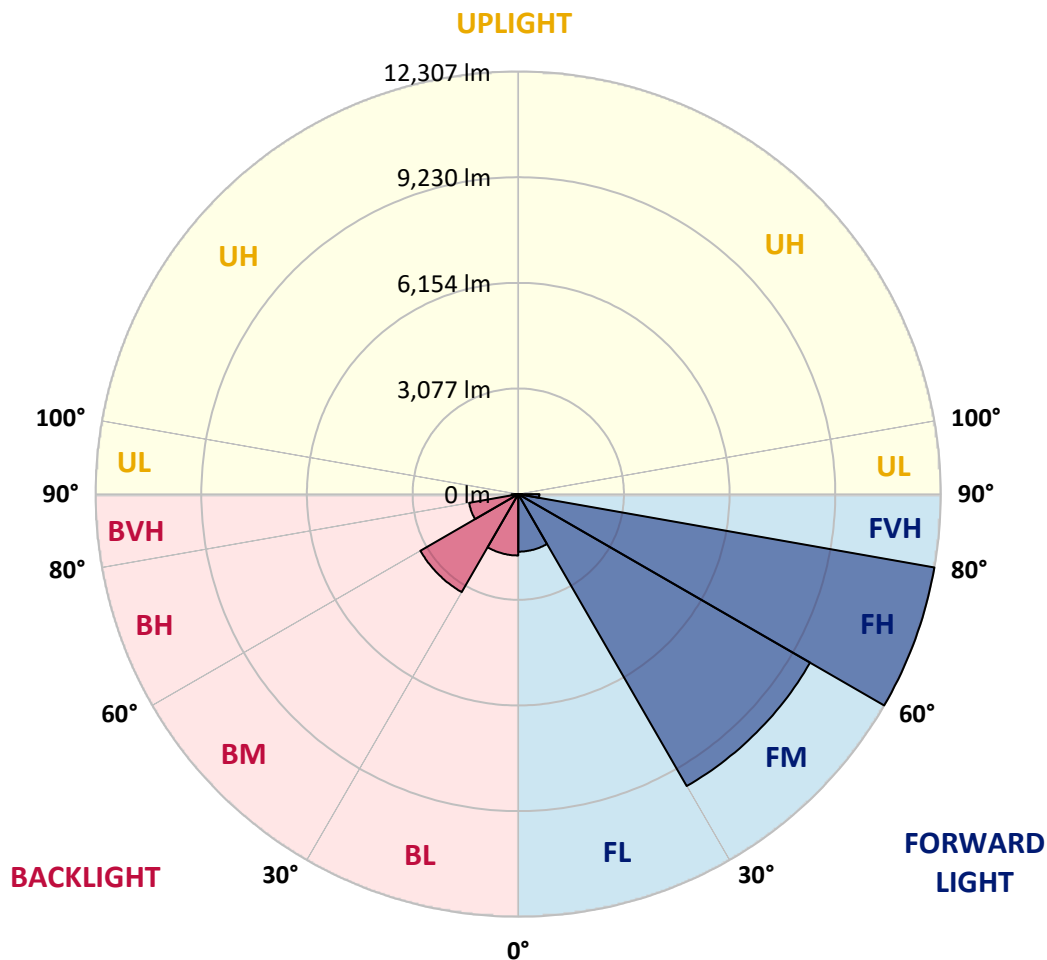
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1675.9	5.4			
FM (30°-60°)	9815.5	31.5			
FH (60°-80°)	12307.1	39.5			G5
FVH (80°-90°)	614.9	2.0			G4/750
BL (0°-30°)	1787.2	5.7	B3/2500		
BM (30°-60°)	3294.0	10.6	B3/5000		
BH (60°-80°)	1452.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	192.9	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°	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4
2.5°	4000.2	4013.4	4056.2	4066.0	4112.1	4085.8	4141.8	4240.5	4296.5	4378.8	4477.6
5°	3684.1	3628.2	3654.5	3756.6	3809.2	3822.4	3881.7	4049.6	4154.9	4276.7	4461.1
7.5°	3312.1	3302.2	3354.9	3420.7	3526.1	3536.0	3667.7	3815.8	4033.1	4303.1	4520.4
10°	3058.6	3101.4	3131.0	3200.1	3272.6	3272.6	3440.5	3697.3	3944.2	4204.3	4533.5
12.5°	3045.4	3019.1	3025.7	3061.9	3114.5	3180.4	3338.4	3568.9	3881.7	4184.6	4589.5
15°	3088.2	3098.1	3038.8	3084.9	3104.7	3127.7	3302.2	3562.3	3842.2	4253.7	4685.0
17.5°	3315.4	3259.4	3167.2	3124.4	3193.6	3193.6	3312.1	3516.2	3848.7	4289.9	4823.3
20°	3493.2	3493.2	3341.7	3295.6	3345.0	3335.1	3417.4	3568.9	3881.7	4362.3	4978.0
22.5°	3792.8	3835.6	3585.3	3489.9	3486.6	3512.9	3585.3	3713.8	3973.8	4464.4	5126.2
25°	4224.1	4233.9	3944.2	3845.4	3740.1	3782.9	3796.1	3924.5	4056.2	4582.9	5294.1
27.5°	4704.7	4698.2	4431.5	4184.6	4115.4	4125.3	4052.9	4138.5	4178.0	4619.1	5534.4
30°	5238.1	5178.8	4978.0	4629.0	4573.0	4510.5	4352.5	4349.2	4431.5	4823.3	5866.9
32.5°	5587.1	5511.4	5373.1	5122.9	4968.1	4974.7	4724.5	4721.2	4648.8	5047.1	6156.7
35°	5929.5	5814.3	5778.0	5521.2	5366.5	5383.0	5182.1	5155.8	5024.1	5386.3	6634.0
37.5°	6341.0	6239.0	6294.9	6100.7	5909.7	5830.7	5738.5	5705.6	5534.4	5863.6	7285.9
40°	6795.4	6762.5	6726.2	6630.8	6515.5	6522.1	6423.3	6390.4	6136.9	6439.8	7911.5
42.5°	7407.7	7282.6	7095.0	7157.5	7216.8	7279.3	7246.4	7160.8	6897.4	7025.8	8609.4
45°	7977.3	7812.7	7467.0	7486.8	7730.4	7779.8	8178.2	8168.3	7638.2	7769.9	9402.9
47.5°	8362.5	8286.8	8079.4	8056.3	8405.3	8402.0	9119.8	9119.8	8418.5	8510.7	10255.6
50°	8935.4	8737.8	8649.0	8764.2	8942.0	9063.8	10081.1	10143.7	9185.6	9284.4	11371.7
52.5°	9607.0	9360.1	9136.2	9432.5	9748.6	9827.6	11032.6	11006.3	9774.9	10183.2	12678.8
55°	10163.4	10038.3	9883.6	10054.8	10571.7	10670.4	11987.4	11743.7	10364.3	10927.3	13307.6
57.5°	10812.0	10887.7	10920.7	10877.9	11493.5	11648.3	13077.1	12379.2	10871.3	11427.7	13676.3
60°	11789.8	11835.9	11878.7	11980.8	12632.7	12850.0	13939.7	13175.9	11190.6	11717.4	13706.0
62.5°	13278.0	13100.2	13195.7	13547.9	14071.4	14318.4	15210.6	13735.6	11434.3	11891.9	12738.0
65°	14980.1	14739.8	14641.0	15095.3	16451.8	16254.2	16797.5	14153.7	11082.0	11240.0	10802.1
67.5°	16705.3	16731.6	16478.1	17390.1	19052.7	19052.7	18272.4	14354.6	10127.2	9109.9	7575.7
70°	18074.9	18157.2	18295.5	20063.5	22697.3	23095.7	20099.7	13531.5	8181.4	6064.5	4141.8
72.5°	18055.1	17808.2	18516.1	21772.2	26009.4	25676.9	20481.6	10700.1	5106.4	2969.7	1899.7
73°	17650.2	17442.8	18216.5	21755.7	26144.4	25831.6	20201.8	9863.8	4503.9	2574.6	1689.0
75°	14413.8	14038.5	15355.4	19704.6	24188.8	24429.1	17162.9	6433.2	2469.2	1586.9	1188.5
77.5°	6571.5	6736.1	8451.4	13218.7	18641.2	18924.3	11282.8	2782.0	1353.1	1112.8	875.8
80°	2110.4	2215.7	3289.0	6571.5	11684.5	12194.8	5215.1	1264.3	964.7	852.7	655.2
82.5°	806.6	803.3	1379.5	2732.6	5537.7	5863.6	1906.3	770.4	717.7	628.8	464.2
85°	283.1	296.3	520.2	1079.9	2179.5	2281.6	661.8	428.0	497.1	421.4	266.7
87.5°	98.8	102.1	184.4	391.8	750.7	793.5	184.4	171.2	246.9	243.6	135.0
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°	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4
2.5°	4510.5	4540.1	4550.0	4668.5	4668.5	4668.5	4714.6	4714.6	4701.5	4668.5	4747.5
5°	4530.2	4582.9	4685.0	4787.1	4813.4	4836.4	4899.0	4846.3	4866.1	4833.1	4862.8
7.5°	4586.2	4658.7	4849.6	4912.2	4869.4	4918.7	4852.9	4816.7	4780.5	4793.6	4747.5
10°	4681.7	4773.9	4862.8	4978.0	4895.7	4846.3	4711.3	4678.4	4563.2	4523.7	4559.9
12.5°	4800.2	4912.2	5063.6	5020.8	4862.8	4721.2	4576.3	4438.1	4368.9	4270.2	4296.5
15°	4918.7	5047.1	5070.2	4997.8	4800.2	4622.4	4359.0	4164.8	4095.7	4006.8	4052.9
17.5°	5047.1	5169.0	5129.5	4941.8	4675.1	4405.1	4105.5	3914.6	3769.7	3713.8	3713.8
20°	5238.1	5297.4	5234.8	4849.6	4523.7	4168.1	3878.4	3661.1	3516.2	3493.2	3456.9
22.5°	5386.3	5481.7	5201.9	4714.6	4303.1	3858.6	3526.1	3443.8	3401.0	3364.8	3318.7
25°	5577.2	5573.9	5142.6	4589.5	3924.5	3489.9	3289.0	3282.5	3262.7	3249.5	3312.1
27.5°	5758.3	5682.6	5073.5	4280.0	3532.7	3210.0	3101.4	3173.8	3203.4	3183.7	3210.0
30°	6044.7	5919.6	4974.7	3950.8	3187.0	2926.9	2946.6	3045.4	3094.8	3124.4	3084.9
32.5°	6347.6	6156.7	4770.6	3608.4	2880.8	2749.1	2795.2	2897.3	2956.5	2989.4	3025.7
35°	6785.5	6341.0	4563.2	3160.6	2660.2	2640.5	2666.8	2722.8	2808.4	2831.4	2841.3
37.5°	7325.4	6620.9	4283.3	2801.8	2489.0	2512.0	2538.4	2558.1	2561.4	2604.2	2587.8
40°	7865.4	6857.9	3875.1	2459.4	2311.2	2436.3	2423.2	2386.9	2357.3	2317.8	2307.9
42.5°	8339.5	7065.3	3420.7	2169.6	2153.2	2357.3	2314.5	2222.3	2153.2	2123.6	2074.2
45°	8872.8	7358.4	2963.1	1988.6	2031.4	2261.8	2248.7	2107.1	2018.2	1912.8	1899.7
47.5°	9564.2	7664.5	2525.2	1800.9	1916.1	2225.6	2232.2	2051.1	1922.7	1781.2	1761.4
50°	10449.9	8105.7	2192.7	1721.9	1847.0	2172.9	2182.8	1975.4	1807.5	1662.6	1649.5
52.5°	11299.3	8556.8	1916.1	1600.1	1800.9	2110.4	2133.4	1906.3	1712.0	1530.9	1540.8
55°	11727.3	8392.2	1679.1	1511.2	1695.6	2008.3	2093.9	1856.9	1567.2	1442.0	1438.7
57.5°	11822.8	7987.2	1491.4	1419.0	1606.7	1899.7	2028.1	1708.7	1501.3	1395.9	1382.8
60°	11510.0	7279.3	1343.3	1320.2	1494.7	1787.7	1876.6	1629.7	1435.5	1349.9	1330.1
62.5°	10739.6	6545.2	1241.2	1274.1	1399.2	1665.9	1781.2	1573.7	1372.9	1313.6	1270.8
65°	8807.0	5383.0	1158.9	1185.2	1300.5	1547.4	1721.9	1511.2	1316.9	1261.0	1257.7
67.5°	6100.7	3710.5	1093.1	1142.4	1221.5	1461.8	1662.6	1442.0	1244.5	1224.7	1198.4
70°	3124.4	1978.7	1007.5	1047.0	1135.9	1353.1	1557.3	1369.6	1168.8	1165.5	1132.6
72.5°	1583.6	1158.9	908.7	967.9	1030.5	1211.6	1425.6	1274.1	1073.3	1037.1	984.4
73°	1369.6	1073.3	892.2	944.9	1004.2	1172.1	1386.1	1251.1	1060.1	1007.5	958.1
75°	997.6	846.1	800.0	852.7	898.8	1056.8	1254.4	1145.7	974.5	918.6	872.5
77.5°	747.4	651.9	665.1	724.3	763.8	912.0	1116.1	1037.1	882.3	806.6	786.9
80°	549.8	497.1	549.8	605.8	635.4	803.3	1017.3	898.8	744.1	658.5	642.0
82.5°	391.8	362.2	424.7	460.9	474.1	665.1	915.3	717.7	563.0	451.0	414.8
85°	223.9	220.6	286.4	283.1	293.0	388.5	602.5	477.4	362.2	276.6	270.0
87.5°	98.8	108.6	144.9	115.2	121.8	184.4	256.8	177.8	148.2	82.3	62.6
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)