

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: P477094

Luminaire Tested: **IFLD-L-SA8A-760-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477094  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-760-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

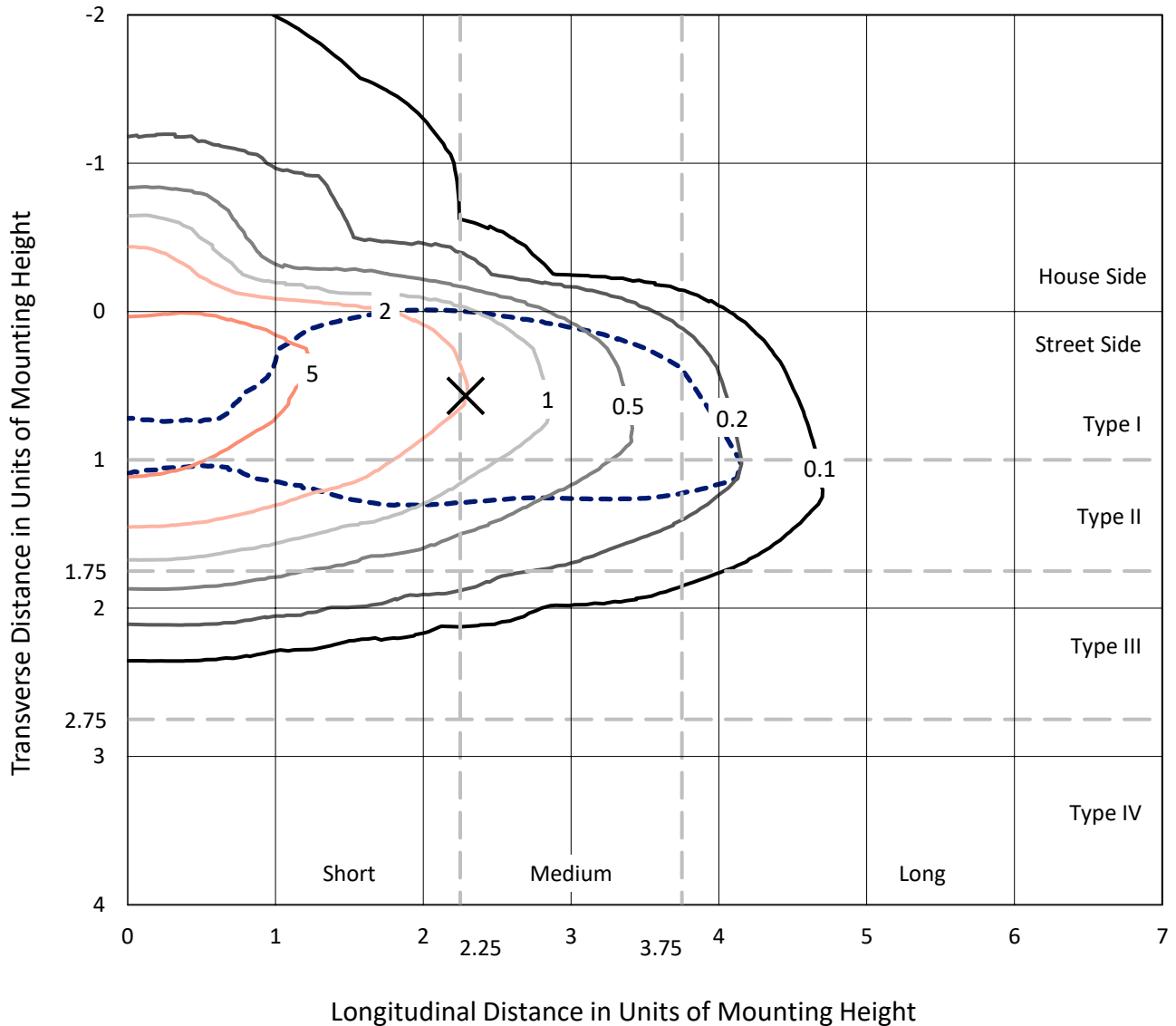
Lumens per Lamp: N/A  
Luminaire Lumens: 35237.7 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

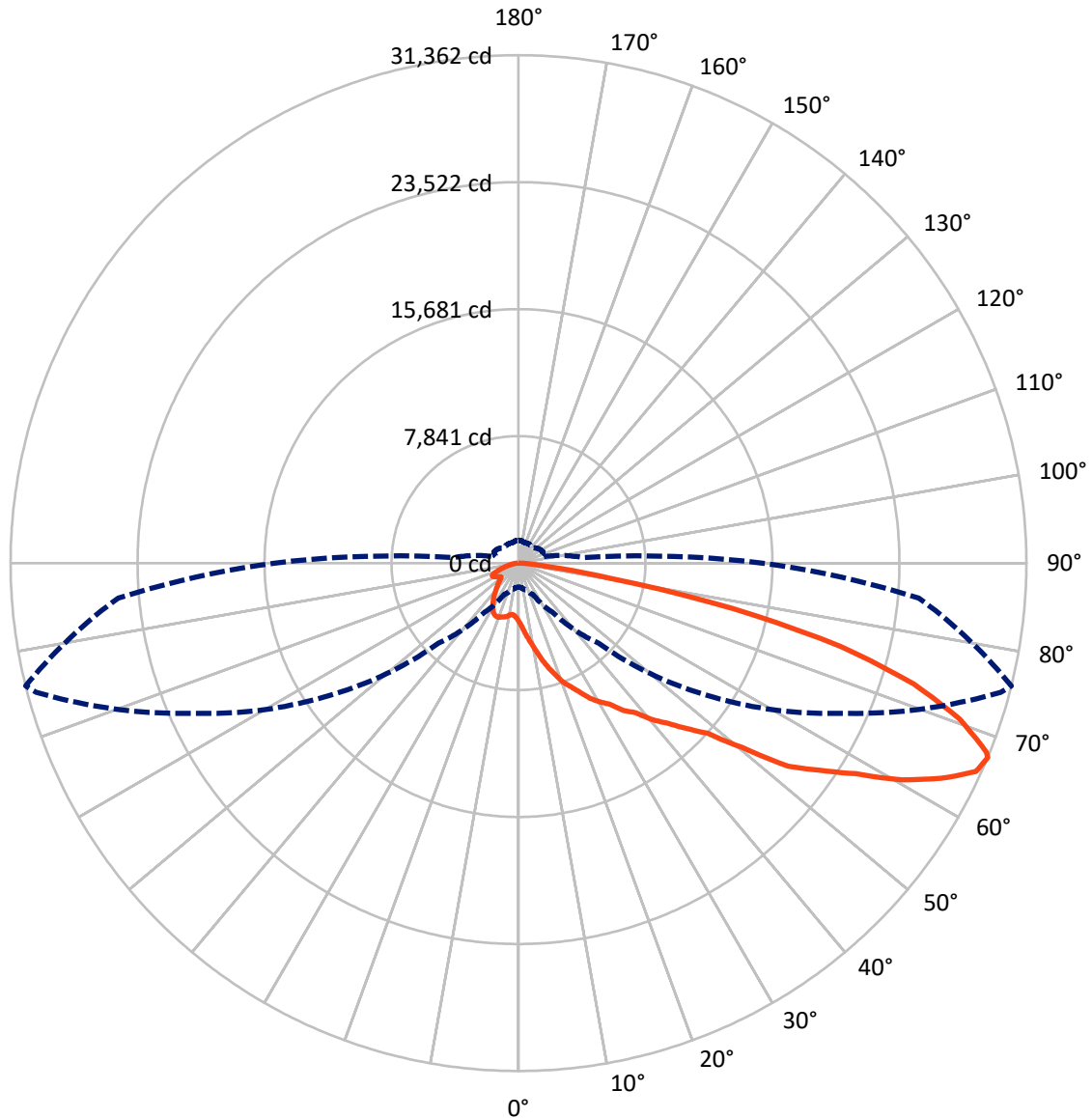
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5013.0	0.0	5013.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	30224.7	0.0	30224.7
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	35237.7	0.0	35237.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.7	1.2
10°-20°	1566.6	4.4
20°-30°	2912.6	8.3
30°-40°	4617.1	13.1
40°-50°	6385.8	18.1
50°-60°	7854.9	22.3
60°-70°	7309.4	20.7
70°-80°	3667.8	10.4
80°-90°	505.7	1.4
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°	35237.7	100.0
0°-180°	35237.7	100.0

**Coefficient of Utilization**



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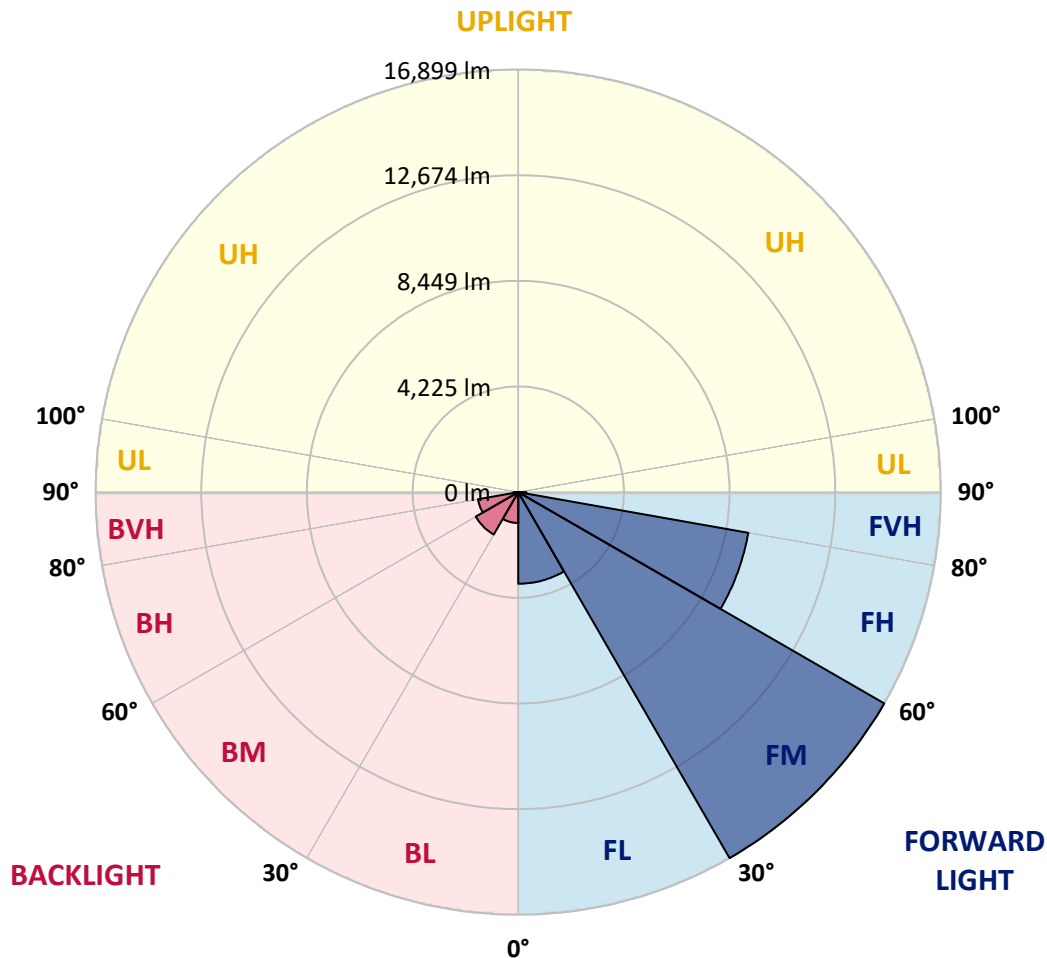
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3662.4	10.4			
FM (30°-60°)	16898.8	48.0			
FH (60°-80°)	9341.2	26.5			G4/12000
FVH (80°-90°)	322.2	0.9			G3/500
BL (0°-30°)	1234.5	3.5	B3/2500		
BM (30°-60°)	1959.0	5.6	B2/2500		
BH (60°-80°)	1636.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	183.5	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0
2.5°	5003.5	4943.2	4883.0	4754.5	4710.3	4589.9	4369.0	4124.0	3923.3	3895.2	3754.6
5°	6208.2	6119.8	6099.7	6027.5	5798.6	5565.7	5204.3	4810.7	4320.8	4357.0	3875.1
7.5°	7111.7	7059.5	6951.1	6882.8	6746.3	6437.1	6063.6	5541.6	4919.1	4798.7	4144.1
10°	7794.3	7722.1	7718.0	7657.8	7585.5	7268.3	6983.2	6280.4	5481.3	5316.7	4473.4
12.5°	8139.7	8127.6	8340.5	8340.5	8312.3	8179.8	7689.9	7047.4	6015.4	5959.2	4854.9
15°	8513.1	8412.7	8597.5	8738.0	8810.3	8878.6	8473.0	7794.3	6698.1	6589.6	5264.5
17.5°	8513.1	8505.1	8689.8	8922.7	9300.2	9388.5	9167.7	8481.0	7264.3	7184.0	5714.2
20°	8368.6	8485.0	8613.5	8926.7	9336.3	9693.7	9758.0	9183.7	7890.7	7826.5	6224.2
22.5°	9043.2	8930.8	9063.3	9183.7	9501.0	10043.1	10219.8	9802.1	8549.3	8304.3	6686.0
25°	10175.6	10099.3	10002.9	9826.2	9958.8	10195.7	10464.7	10259.9	9111.5	8838.4	7131.8
27.5°	11279.9	11283.9	11075.1	10689.6	10404.5	10452.7	10769.9	10661.5	9585.3	9464.8	7436.9
30°	12850.0	12753.6	12520.7	11998.7	11440.5	10982.7	10930.5	11034.9	10187.6	9954.7	7874.6
32.5°	14026.6	14046.7	13717.4	12966.5	12203.5	11830.0	11372.3	11416.4	10569.1	10396.5	8224.0
35°	14978.3	14954.2	14721.3	14098.9	13195.4	12745.6	12127.2	11874.2	11456.6	11183.5	8758.1
37.5°	16006.3	15809.5	15432.1	14729.3	14151.1	13528.7	12926.3	12356.1	12046.9	11717.6	9215.9
40°	16419.9	16419.9	15913.9	15592.7	14906.0	14436.2	14046.7	12990.6	12765.7	12701.4	9802.1
42.5°	16126.8	16307.5	16098.7	15733.2	15452.1	14857.8	14753.4	13649.1	13653.1	13524.6	10504.9
45°	16098.7	15849.7	15677.0	15769.4	15636.9	15604.7	15869.8	14560.7	14584.8	14568.7	11448.6
47.5°	15291.5	15179.1	15436.1	15588.7	15697.1	16195.0	16958.0	15648.9	15821.6	15701.1	12536.8
50°	14488.4	14468.3	14628.9	15183.1	15652.9	16472.1	17994.0	17327.4	17893.6	17885.6	14508.5
52.5°	12287.8	12500.6	13131.1	14303.7	15464.2	16849.6	18777.1	19471.8	20552.0	20845.1	16142.8
55°	10183.6	10071.2	11002.8	12705.4	14641.0	16998.2	19652.5	20760.8	22351.0	22563.8	17821.4
57.5°	7922.8	8131.6	8866.5	10500.9	12938.4	16263.3	20295.0	22033.8	24382.9	24547.5	19768.9
60°	5911.0	5939.1	6746.3	8063.4	10673.5	14604.8	20503.8	23338.8	26712.0	27181.8	21808.9
62.5°	3718.5	3887.1	4501.5	5798.6	8035.3	12283.8	19568.2	24129.9	29153.5	29277.9	23864.9
65°	2003.8	2112.2	2574.0	3389.2	5613.8	9292.2	17086.5	23656.1	30301.9	31040.8	24780.4
67°	1481.8	1501.8	1714.7	2164.4	3754.6	6995.2	14247.4	21941.4	30824.0	31362.1	24816.6
67.5°	1389.4	1417.5	1586.2	1943.6	3329.0	6441.1	13504.6	21331.0	30591.1	31169.3	24535.5
70°	1188.6	1196.7	1236.8	1337.2	1867.3	3875.1	9195.8	17480.0	28354.3	28908.5	22563.8
72.5°	1056.1	1064.1	1080.2	1100.3	1264.9	2240.7	5593.8	13452.4	24643.9	25527.3	19467.8
75°	927.6	955.7	963.8	947.7	1076.2	1457.7	2975.6	9886.5	20102.2	20531.9	15138.9
77.5°	787.1	799.1	815.2	831.2	959.7	1088.2	1429.6	6674.0	13797.7	13536.7	8187.9
80°	662.6	666.6	678.6	690.7	831.2	831.2	811.2	3606.0	6027.5	5762.4	2766.8
82.5°	473.8	502.0	530.1	562.2	690.7	558.2	530.1	1606.3	1907.4	1815.1	935.6
85°	184.7	224.9	349.4	385.5	437.7	301.2	353.4	694.7	795.1	787.1	349.4
87.5°	32.1	36.1	96.4	148.6	160.6	104.4	168.7	249.0	297.2	321.3	128.5
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°	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0	3606.0
2.5°	3638.2	3513.7	3365.1	3216.5	3120.1	2967.5	2955.5	2863.1	2851.1	2819.0	2835.0
5°	3666.3	3517.7	3216.5	2979.6	2871.2	2782.8	2802.9	2762.8	2750.7	2730.6	2698.5
7.5°	3887.1	3594.0	3144.2	2939.4	2859.1	2819.0	2819.0	2770.8	2734.6	2758.7	2782.8
10°	4031.7	3630.1	3200.5	2995.7	2931.4	2843.1	2875.2	2815.0	2835.0	2786.8	2786.8
12.5°	4264.6	3834.9	3316.9	3080.0	2975.6	2895.3	2927.4	2859.1	2843.1	2847.1	2835.0
15°	4577.8	3971.5	3369.1	3128.2	3055.9	2955.5	2931.4	2871.2	2810.9	2790.9	2815.0
17.5°	4871.0	4140.1	3405.3	3156.3	3039.8	2927.4	2899.3	2823.0	2802.9	2742.7	2694.5
20°	5220.3	4340.9	3453.4	3180.4	2979.6	2867.2	2794.9	2718.6	2650.3	2614.2	2630.2
22.5°	5453.2	4445.3	3477.5	3132.2	2891.3	2786.8	2634.3	2582.0	2485.7	2445.5	2413.4
25°	5834.7	4573.8	3417.3	2999.7	2734.6	2566.0	2429.5	2357.2	2288.9	2236.7	2220.6
27.5°	5931.1	4670.2	3276.8	2774.8	2485.7	2309.0	2192.5	2104.2	2060.0	1979.7	1963.6
30°	6212.2	4573.8	3067.9	2501.7	2248.8	2068.0	1951.6	1887.3	1782.9	1762.9	1718.7
32.5°	6392.9	4601.9	2802.9	2236.7	1975.7	1815.1	1738.8	1674.5	1646.4	1550.0	1525.9
35°	6694.1	4505.5	2533.9	1991.8	1750.8	1626.3	1562.1	1542.0	1449.6	1405.5	1365.3
37.5°	6886.8	4449.3	2264.8	1714.7	1505.9	1453.7	1473.7	1389.4	1277.0	1192.6	1164.5
40°	7224.1	4429.2	1959.6	1485.8	1337.2	1325.2	1389.4	1228.8	1024.0	951.7	911.5
42.5°	7710.0	4292.7	1722.7	1281.0	1204.7	1256.9	1268.9	1024.0	907.5	847.3	819.2
45°	8175.8	4320.8	1489.8	1060.1	1048.1	1124.4	1096.3	867.4	799.1	754.9	779.0
47.5°	9071.3	4461.4	1260.9	883.4	943.7	1016.0	851.3	775.0	710.8	678.6	682.7
50°	10456.7	4597.9	1060.1	807.1	891.5	919.6	730.8	702.7	698.7	634.5	630.5
52.5°	11287.9	4545.7	1024.0	903.5	955.7	919.6	795.1	775.0	742.9	714.8	682.7
55°	12609.1	4698.3	1100.3	1056.1	1084.2	883.4	891.5	883.4	859.3	787.1	807.1
57.5°	13661.2	4798.7	1200.7	1180.6	1164.5	919.6	931.6	935.6	919.6	887.5	915.6
60°	15106.8	4999.5	1305.1	1309.1	1313.1	999.9	1020.0	1044.1	1040.0	1028.0	1036.0
62.5°	15994.2	4907.1	1421.5	1485.8	1465.7	1164.5	1160.5	1176.6	1176.6	1196.7	1208.7
65°	15861.7	4565.8	1481.8	1642.4	1538.0	1285.0	1285.0	1293.0	1297.0	1337.2	1341.2
67°	15066.6	3955.4	1449.6	1666.5	1538.0	1333.2	1333.2	1341.2	1313.1	1417.5	1385.4
67.5°	14697.2	3774.7	1421.5	1646.4	1525.9	1329.2	1329.2	1333.2	1309.1	1409.5	1377.4
70°	12781.7	2802.9	1224.8	1457.7	1413.5	1293.0	1293.0	1268.9	1248.9	1381.4	1353.3
72.5°	10910.5	2035.9	983.8	1240.8	1277.0	1244.8	1252.9	1192.6	1136.4	1228.8	1204.7
75°	8356.5	1497.8	767.0	955.7	1080.2	1164.5	1216.7	1064.1	991.9	1016.0	971.8
77.5°	4662.1	975.8	606.4	706.8	823.2	1084.2	1168.5	959.7	811.2	783.0	783.0
80°	1582.2	570.2	445.7	526.0	566.2	959.7	1092.3	779.0	638.5	610.4	590.3
82.5°	598.3	349.4	305.2	361.4	361.4	759.0	891.5	598.3	481.9	622.4	634.5
85°	273.1	208.8	200.8	208.8	208.8	465.8	630.5	389.5	433.7	373.5	329.3
87.5°	108.4	100.4	92.4	88.3	72.3	80.3	216.8	104.4	196.8	52.2	48.2
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)