

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: P476940

Luminaire Tested: **IFLD-L-SA8C-730-U-T2R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476940  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

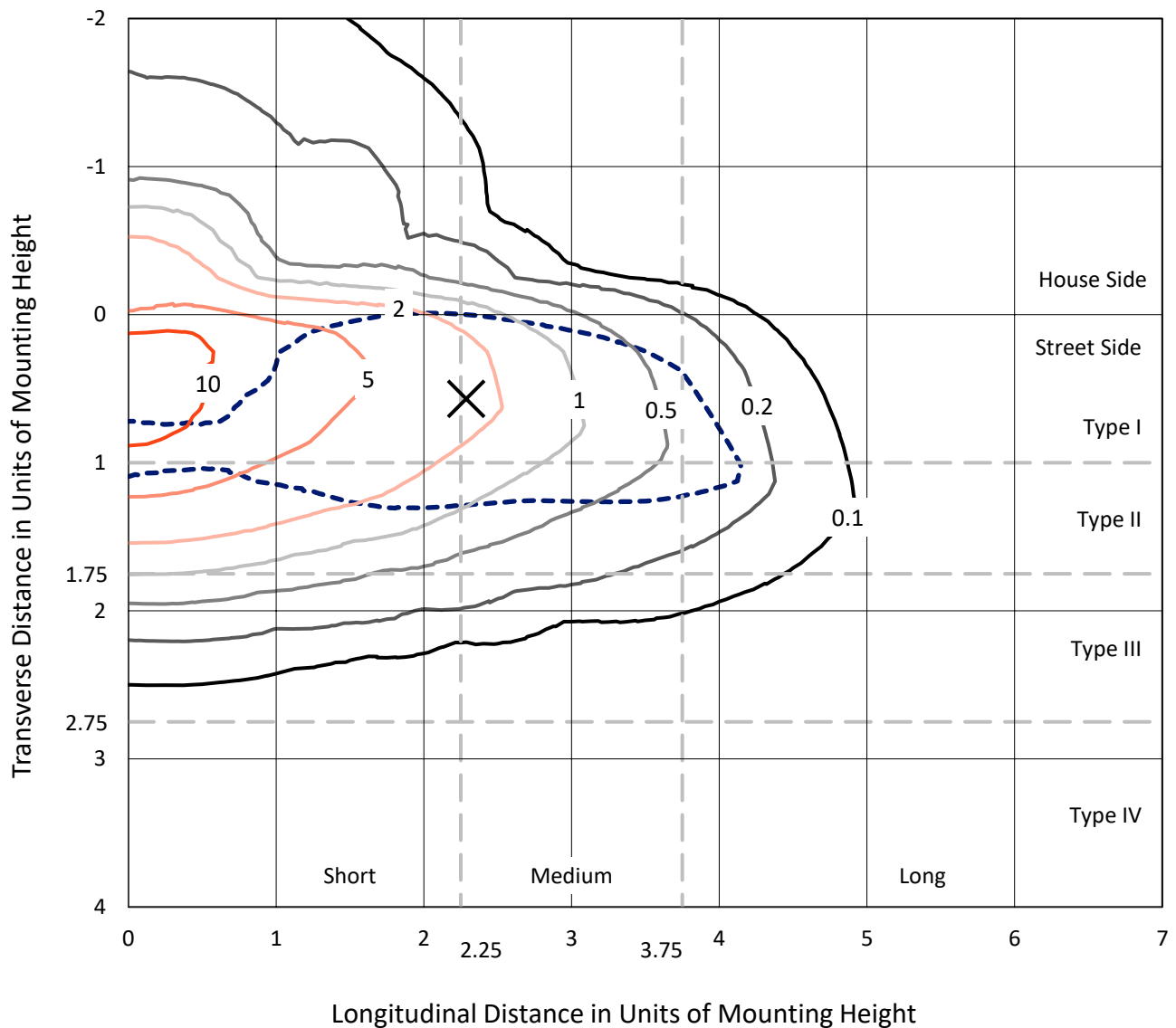
Lumens per Lamp: N/A  
Luminaire Lumens: 46393.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

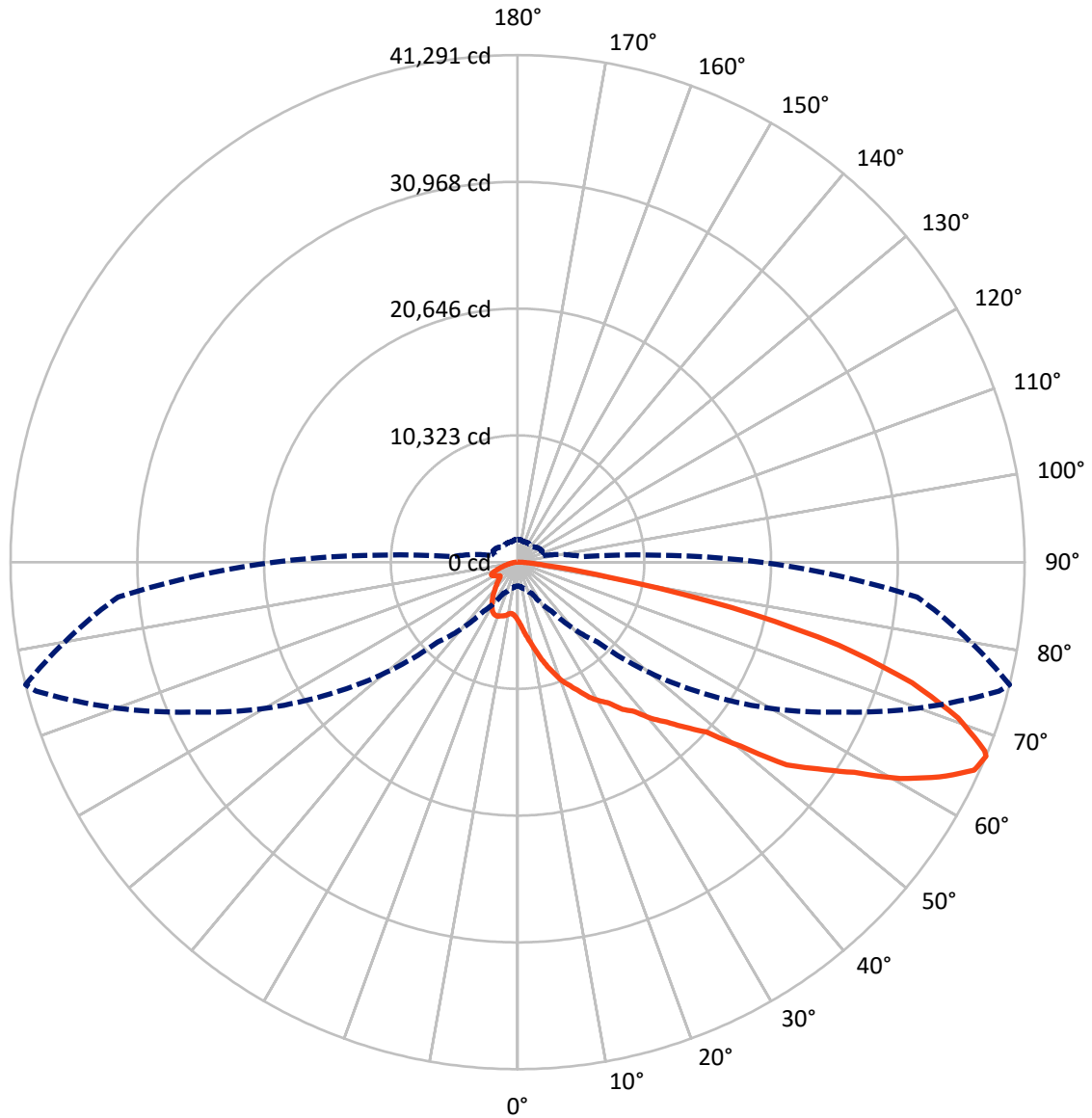
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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	6600.1	0.0	6600.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	39793.8	0.0	39793.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	46393.9	0.0	46393.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.9	1.2
10°-20°	2062.6	4.4
20°-30°	3834.7	8.3
30°-40°	6078.8	13.1
40°-50°	8407.6	18.1
50°-60°	10341.8	22.3
60°-70°	9623.6	20.7
70°-80°	4829.0	10.4
80°-90°	665.9	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°	46393.9	100.0
0°-180°	46393.9	100.0

**Coefficient of Utilization**



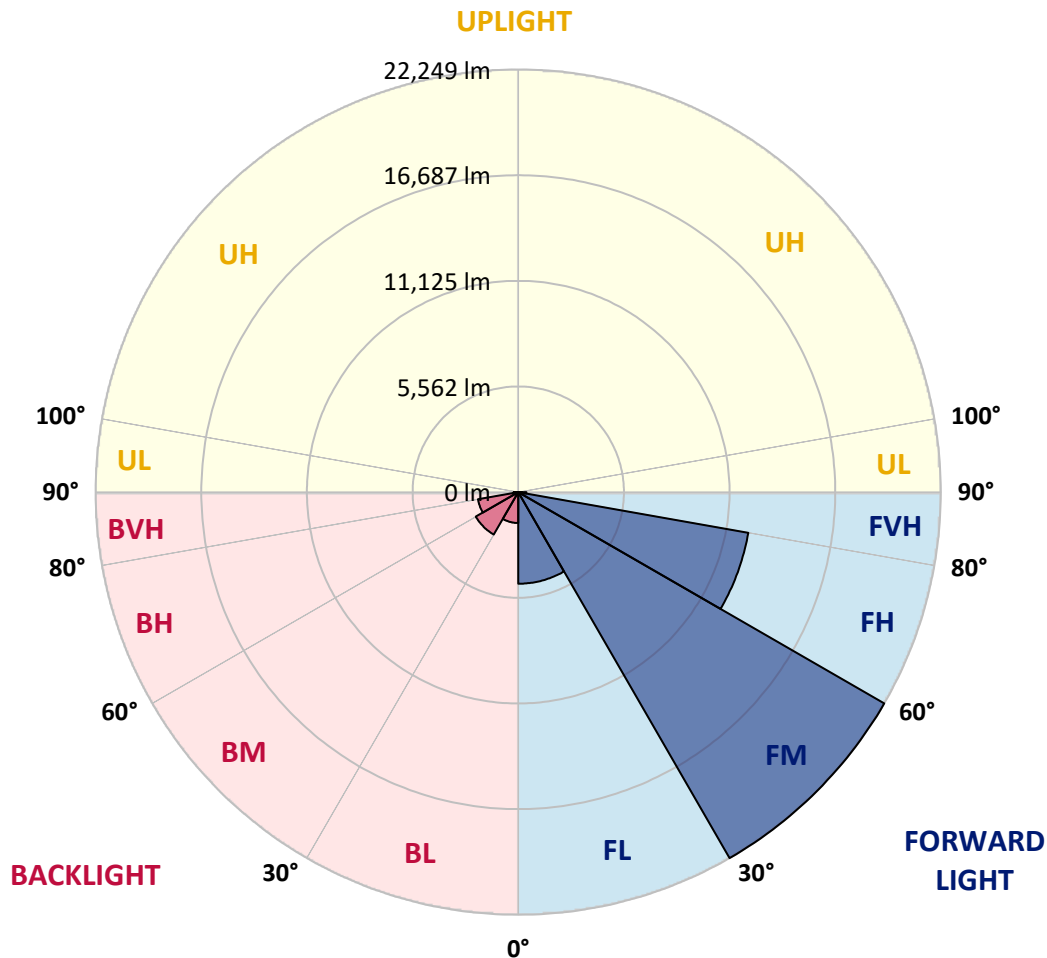
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4821.9	10.4			
FM (30°-60°)	22249.0	48.0			
FH (60°-80°)	12298.6	26.5			G5
FVH (80°-90°)	424.2	0.9			G3/500
BL (0°-30°)	1625.3	3.5	B3/2500		
BM (30°-60°)	2579.2	5.6	B3/5000		
BH (60°-80°)	2154.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	241.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7
2.5°	6587.6	6508.3	6429.0	6259.8	6201.6	6043.0	5752.2	5429.7	5165.4	5128.4	4943.3
5°	8173.7	8057.4	8030.9	7935.8	7634.4	7327.8	6851.9	6333.8	5688.8	5736.4	5101.9
7.5°	9363.2	9294.5	9151.8	9061.9	8882.1	8475.0	7983.3	7296.0	6476.5	6317.9	5456.2
10°	10262.0	10166.9	10161.6	10082.3	9987.1	9569.4	9194.1	8268.8	7216.7	7000.0	5889.7
12.5°	10716.7	10700.8	10981.1	10981.1	10944.0	10769.6	10124.6	9278.6	7919.9	7845.9	6392.0
15°	11208.4	11076.2	11319.4	11504.5	11599.6	11689.5	11155.5	10262.0	8818.7	8675.9	6931.2
17.5°	11208.4	11197.8	11441.0	11747.7	12244.6	12361.0	12070.2	11166.1	9564.1	9458.4	7523.4
20°	11018.1	11171.4	11340.6	11753.0	12292.2	12762.8	12847.4	12091.3	10388.9	10304.3	8194.8
22.5°	11906.3	11758.2	11932.7	12091.3	12509.0	13222.7	13455.4	12905.5	11256.0	10933.5	8802.8
25°	13397.2	13296.8	13169.9	12937.2	13111.7	13423.6	13777.9	13508.2	11996.2	11636.6	9389.7
27.5°	14851.1	14856.4	14581.5	14073.9	13698.6	13762.0	14179.7	14036.9	12620.0	12461.4	9791.5
30°	16918.3	16791.4	16484.8	15797.5	15062.6	14459.9	14391.2	14528.6	13413.1	13106.4	10367.8
32.5°	18467.4	18493.9	18060.3	17071.7	16067.1	15575.4	14972.7	15030.9	13915.3	13688.0	10827.7
35°	19720.4	19688.7	19382.1	18562.6	17373.0	16780.9	15966.7	15633.6	15083.7	14724.2	11530.9
37.5°	21073.9	20814.8	20317.9	19392.6	18631.3	17811.8	17018.8	16268.0	15860.9	15427.4	12133.6
40°	21618.5	21618.5	20952.3	20529.3	19625.3	19006.7	18493.9	17103.4	16807.3	16722.7	12905.5
42.5°	21232.5	21470.4	21195.5	20714.4	20344.3	19561.8	19424.4	17970.4	17975.7	17806.5	13830.7
45°	21195.5	20867.7	20640.4	20762.0	20587.5	20545.2	20894.1	19170.6	19202.3	19181.2	15073.2
47.5°	20132.8	19984.8	20323.1	20524.0	20666.8	21322.4	22326.9	20603.4	20830.7	20672.1	16505.9
50°	19075.4	19049.0	19260.5	19990.1	20608.6	21687.2	23690.9	22813.3	23558.8	23548.2	19101.9
52.5°	16178.2	16458.4	17288.4	18832.2	20360.2	22184.2	24721.9	25636.6	27058.8	27444.7	21253.7
55°	13407.8	13259.7	14486.3	16728.0	19276.3	22379.8	25874.5	27333.7	29427.3	29707.5	23463.6
57.5°	10431.2	10706.1	11673.6	13825.4	17034.6	21412.3	26720.4	29009.7	32102.5	32319.3	26027.8
60°	7782.4	7819.4	8882.1	10616.3	14052.8	19228.7	26995.3	30727.9	35169.0	35787.6	28713.6
62.5°	4895.7	5117.8	5926.7	7634.4	10579.2	16172.9	25763.4	31769.5	38383.5	38547.4	31420.5
65°	2638.2	2781.0	3389.0	4462.2	7391.2	12234.1	22496.1	31145.6	39895.5	40868.3	32625.9
67°	1950.9	1977.3	2257.5	2849.7	4943.3	9209.9	18758.2	28888.0	40582.8	41291.3	32673.5
67.5°	1829.3	1866.3	2088.4	2558.9	4382.9	8480.3	17780.1	28084.4	40276.2	41037.5	32303.4
70°	1564.9	1575.5	1628.4	1760.6	2458.4	5101.9	12107.2	23014.2	37331.4	38061.0	29707.5
72.5°	1390.5	1401.0	1422.2	1448.6	1665.4	2950.1	7364.8	17711.4	32446.2	33609.3	25631.3
75°	1221.3	1258.3	1268.9	1247.7	1416.9	1919.2	3917.7	13016.5	26466.6	27032.3	19931.9
77.5°	1036.2	1052.1	1073.3	1094.4	1263.6	1432.8	1882.2	8787.0	18166.1	17822.4	10780.1
80°	872.4	877.6	893.5	909.4	1094.4	1094.4	1068.0	4747.7	7935.8	7586.8	3642.7
82.5°	623.9	660.9	697.9	740.2	909.4	734.9	697.9	2114.8	2511.3	2389.7	1231.9
85°	243.2	296.1	460.0	507.5	576.3	396.5	465.3	914.6	1046.8	1036.2	460.0
87.5°	42.3	47.6	126.9	195.6	211.5	137.5	222.1	327.8	391.2	423.0	169.2
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°	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7	4747.7
2.5°	4790.0	4626.1	4430.5	4234.9	4108.0	3907.1	3891.2	3769.6	3753.8	3711.5	3732.6
5°	4827.0	4631.4	4234.9	3922.9	3780.2	3663.9	3690.3	3637.4	3621.6	3595.1	3552.8
7.5°	5117.8	4731.8	4139.7	3870.1	3764.3	3711.5	3711.5	3648.0	3600.4	3632.2	3663.9
10°	5308.1	4779.4	4213.7	3944.1	3859.5	3743.2	3785.5	3706.2	3732.6	3669.2	3669.2
12.5°	5614.8	5049.1	4367.0	4055.1	3917.7	3811.9	3854.2	3764.3	3743.2	3748.5	3732.6
15°	6027.2	5228.8	4435.8	4118.6	4023.4	3891.2	3859.5	3780.2	3700.9	3674.4	3706.2
17.5°	6413.1	5450.9	4483.4	4155.6	4002.2	3854.2	3817.2	3716.7	3690.3	3611.0	3547.6
20°	6873.1	5715.2	4546.8	4187.3	3922.9	3774.9	3679.7	3579.3	3489.4	3441.8	3463.0
22.5°	7179.7	5852.7	4578.5	4123.8	3806.6	3669.2	3468.3	3399.5	3272.6	3219.8	3177.5
25°	7682.0	6021.9	4499.2	3949.4	3600.4	3378.4	3198.6	3103.5	3013.6	2944.8	2923.7
27.5°	7808.9	6148.8	4314.2	3653.3	3272.6	3040.0	2886.7	2770.4	2712.2	2606.5	2585.3
30°	8179.0	6021.9	4039.3	3293.8	2960.7	2722.8	2569.5	2484.9	2347.4	2321.0	2262.8
32.5°	8416.9	6058.9	3690.3	2944.8	2601.2	2389.7	2289.3	2204.7	2167.7	2040.8	2009.1
35°	8813.4	5932.0	3336.1	2622.3	2305.1	2141.2	2056.6	2030.2	1908.6	1850.4	1797.6
37.5°	9067.2	5858.0	2981.9	2257.5	1982.6	1913.9	1940.3	1829.3	1681.3	1570.2	1533.2
40°	9511.3	5831.5	2580.0	1956.2	1760.6	1744.7	1829.3	1617.8	1348.2	1253.0	1200.1
42.5°	10151.0	5651.8	2268.1	1686.5	1586.1	1654.8	1670.7	1348.2	1194.9	1115.6	1078.5
45°	10764.3	5688.8	1961.5	1395.8	1379.9	1480.4	1443.3	1142.0	1052.1	994.0	1025.7
47.5°	11943.3	5873.8	1660.1	1163.1	1242.4	1337.6	1120.8	1020.4	935.8	893.5	898.8
50°	13767.3	6053.6	1395.8	1062.7	1173.7	1210.7	962.2	925.2	919.9	835.3	830.1
52.5°	14861.7	5984.9	1348.2	1189.6	1258.3	1210.7	1046.8	1020.4	978.1	941.1	898.8
55°	16601.1	6185.8	1448.6	1390.5	1427.5	1163.1	1173.7	1163.1	1131.4	1036.2	1062.7
57.5°	17986.3	6317.9	1580.8	1554.4	1533.2	1210.7	1226.6	1231.9	1210.7	1168.4	1205.4
60°	19889.6	6582.3	1718.3	1723.6	1728.8	1316.5	1342.9	1374.6	1369.3	1353.5	1364.0
62.5°	21058.0	6460.7	1871.6	1956.2	1929.7	1533.2	1527.9	1549.1	1549.1	1575.5	1591.4
65°	20883.6	6011.3	1950.9	2162.4	2024.9	1691.8	1691.8	1702.4	1707.7	1760.6	1765.9
67°	19836.7	5207.7	1908.6	2194.1	2024.9	1755.3	1755.3	1765.9	1728.8	1866.3	1824.0
67.5°	19350.3	4969.8	1871.6	2167.7	2009.1	1750.0	1750.0	1755.3	1723.6	1855.7	1813.4
70°	16828.5	3690.3	1612.5	1919.2	1861.0	1702.4	1702.4	1670.7	1644.3	1818.7	1781.7
72.5°	14364.7	2680.5	1295.3	1633.7	1681.3	1639.0	1649.5	1570.2	1496.2	1617.8	1586.1
75°	11002.2	1972.0	1009.8	1258.3	1422.2	1533.2	1602.0	1401.0	1305.9	1337.6	1279.4
77.5°	6138.2	1284.7	798.3	930.5	1083.8	1427.5	1538.5	1263.6	1068.0	1031.0	1031.0
80°	2083.1	750.8	586.9	692.6	745.5	1263.6	1438.1	1025.7	840.6	803.6	777.2
82.5°	787.8	460.0	401.8	475.8	475.8	999.2	1173.7	787.8	634.4	819.5	835.3
85°	359.5	274.9	264.3	274.9	274.9	613.3	830.1	512.8	571.0	491.7	433.5
87.5°	142.7	132.2	121.6	116.3	95.2	105.7	285.5	137.5	259.1	68.7	63.4
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)