

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: P477014

Luminaire Tested: **IFLD-L-SA7D-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477014
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

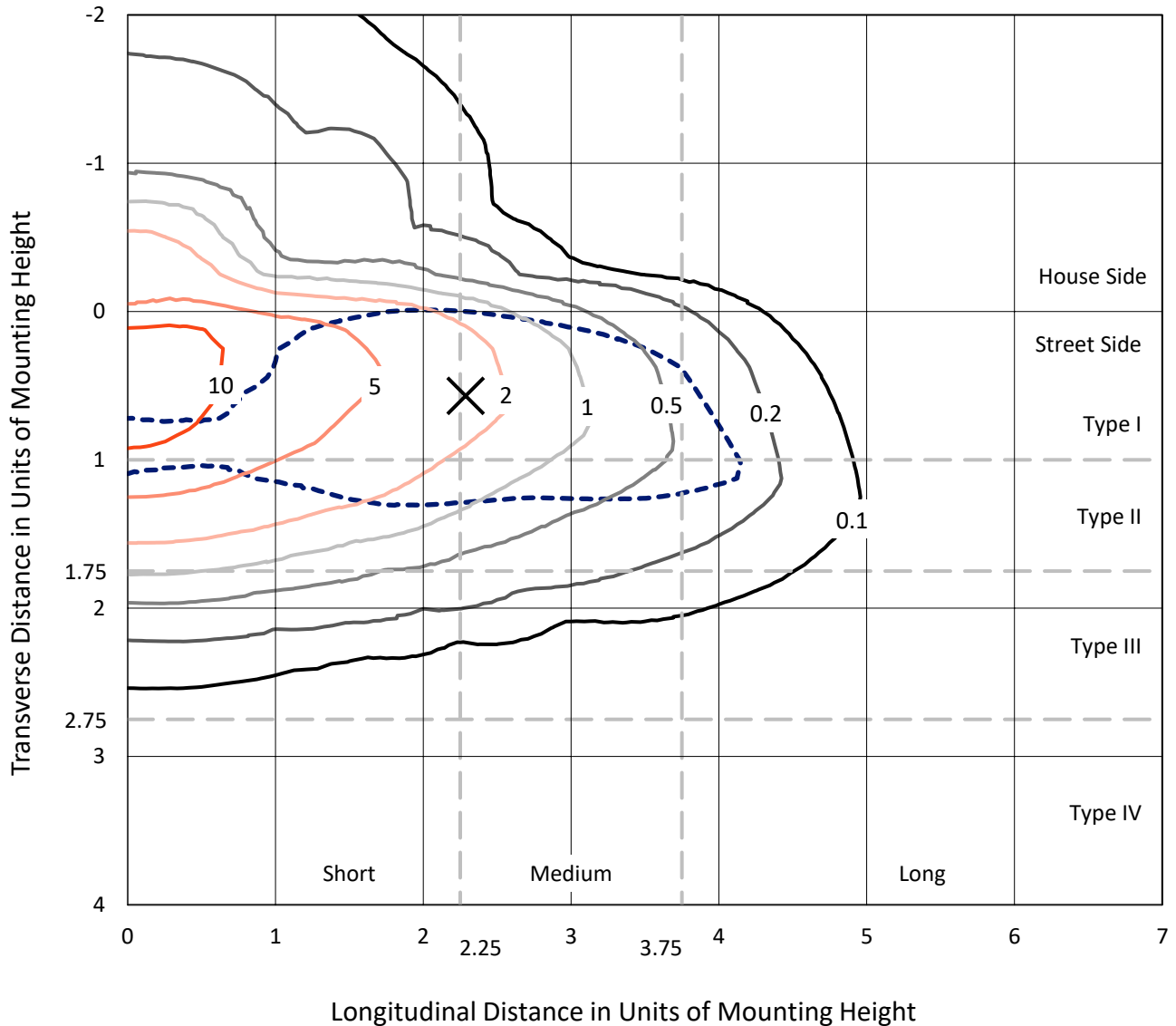
Lumens per Lamp: N/A
Luminaire Lumens: 49053.2 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

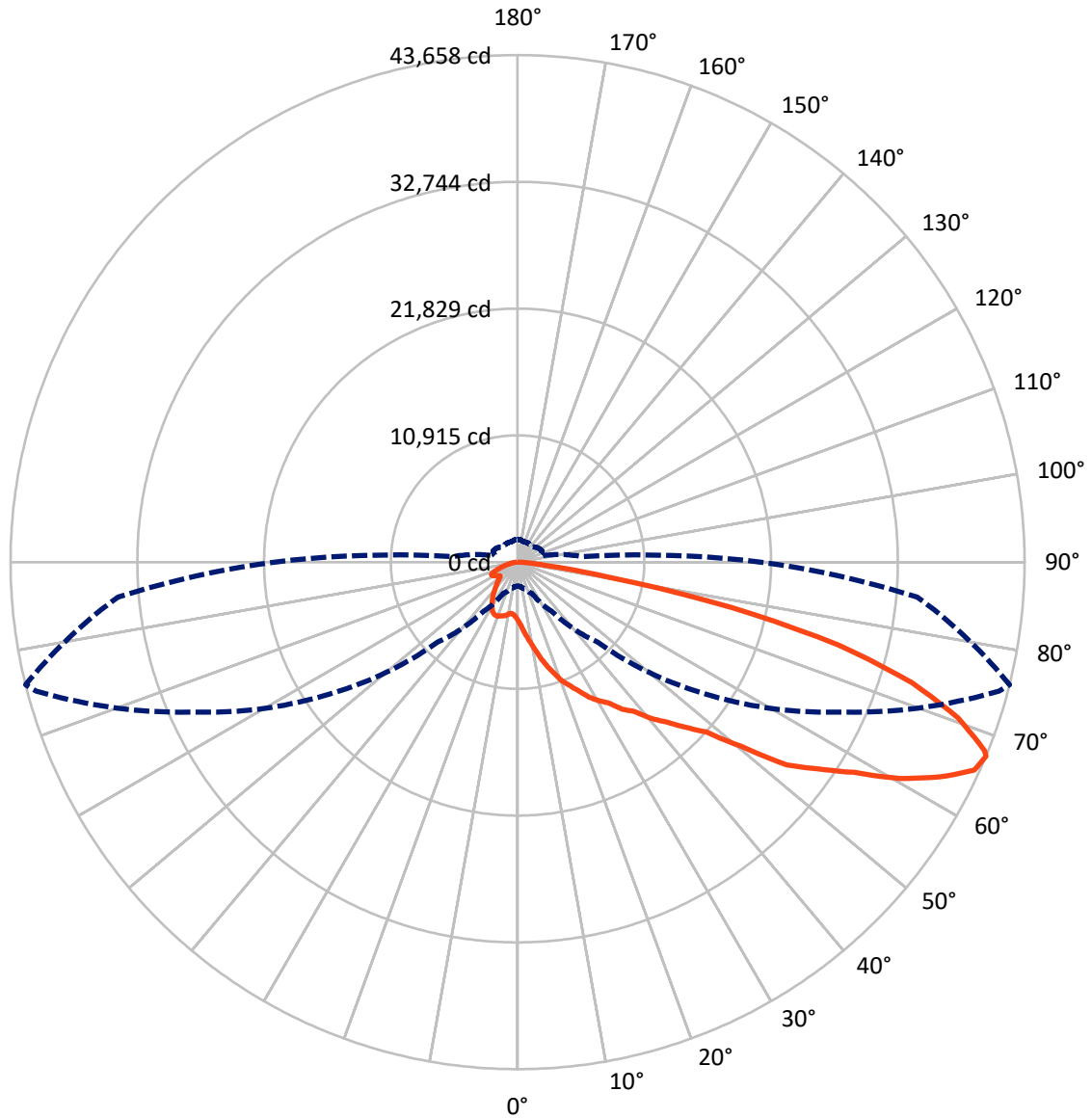
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 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
House Side	Lumens	6978.4	0.0	6978.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	42074.8	0.0	42074.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	49053.2	0.0	49053.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.5	1.2
10°-20°	2180.8	4.4
20°-30°	4054.5	8.3
30°-40°	6427.3	13.1
40°-50°	8889.5	18.1
50°-60°	10934.6	22.3
60°-70°	10175.2	20.7
70°-80°	5105.8	10.4
80°-90°	704.0	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°	49053.2	100.0
0°-180°	49053.2	100.0

Coefficient of Utilization



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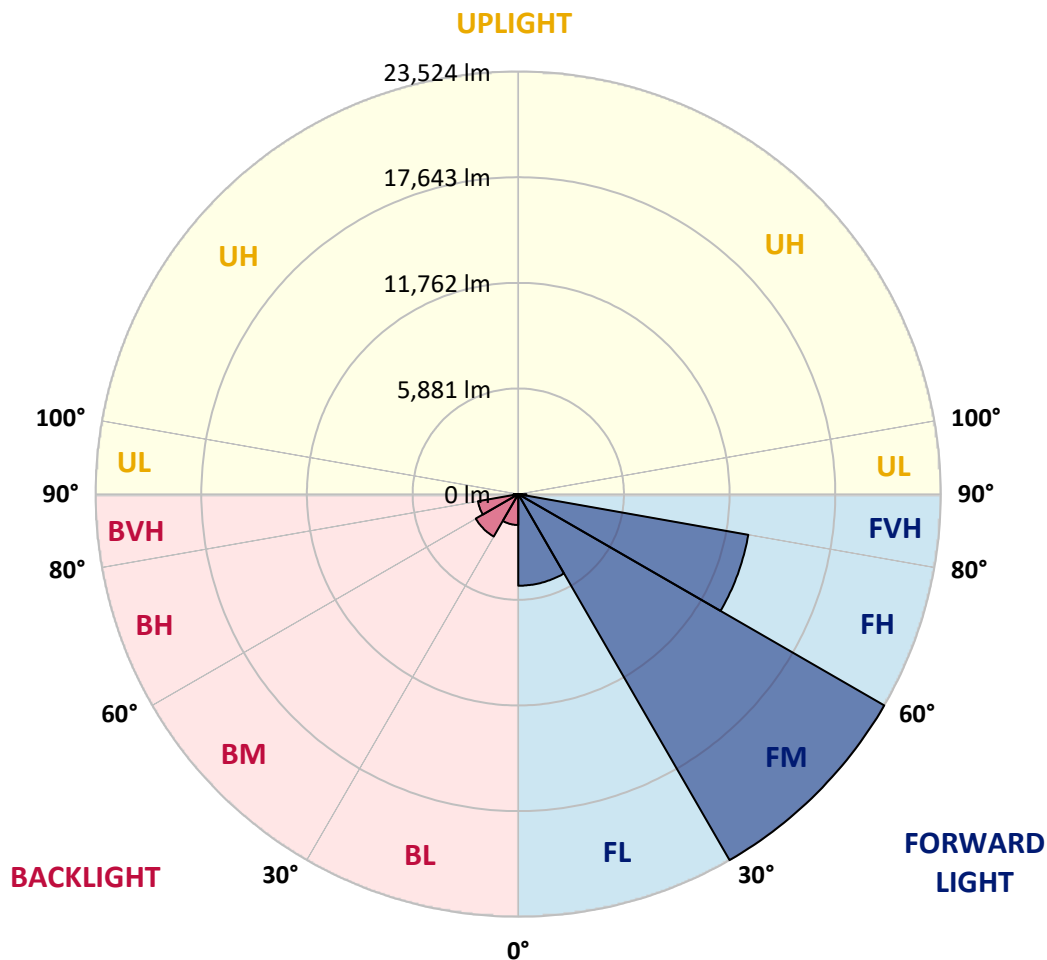
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5098.3	10.4			
FM (30°-60°)	23524.3	48.0			
FH (60°-80°)	13003.6	26.5			G5
FVH (80°-90°)	448.5	0.9			G3/500
BL (0°-30°)	1718.5	3.5	B3/2500		
BM (30°-60°)	2727.0	5.6	B3/5000		
BH (60°-80°)	2277.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	255.5	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°	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8
2.5°	6965.2	6881.3	6797.5	6618.6	6557.1	6389.4	6082.0	5741.0	5461.5	5422.3	5226.7
5°	8642.2	8519.2	8491.3	8390.6	8072.0	7747.8	7244.7	6696.9	6014.9	6065.2	5394.4
7.5°	9899.9	9827.3	9676.3	9581.3	9391.3	8960.8	8440.9	7714.2	6847.8	6680.1	5768.9
10°	10850.2	10749.6	10744.0	10660.2	10559.6	10118.0	9721.1	8742.8	7630.4	7401.2	6227.3
12.5°	11331.0	11314.2	11610.5	11610.5	11571.4	11386.9	10704.9	9810.5	8373.9	8295.6	6758.3
15°	11850.9	11711.1	11968.3	12163.9	12264.5	12359.6	11795.0	10850.2	9324.2	9173.2	7328.5
17.5°	11850.9	11839.7	12096.8	12421.0	12946.5	13069.5	12762.0	11806.1	10112.4	10000.6	7954.6
20°	11649.6	11811.7	11990.6	12426.6	12996.8	13494.3	13583.8	12784.4	10984.4	10895.0	8664.5
22.5°	12588.7	12432.2	12616.7	12784.4	13226.0	13980.7	14226.6	13645.3	11901.2	11560.2	9307.4
25°	14165.1	14058.9	13924.8	13678.8	13863.3	14193.1	14567.6	14282.5	12683.8	12303.7	9927.9
27.5°	15702.4	15708.0	15417.3	14880.7	14483.8	14550.8	14992.5	14841.5	13343.4	13175.7	10352.7
30°	17888.1	17753.9	17429.7	16703.0	15926.0	15288.7	15216.1	15361.4	14181.9	13857.7	10962.0
32.5°	19526.0	19553.9	19095.5	18050.2	16988.1	16468.2	15831.0	15892.5	14713.0	14472.6	11448.4
35°	20850.8	20817.3	20493.1	19626.6	18368.8	17742.8	16881.9	16529.7	15948.4	15568.2	12191.9
37.5°	22281.9	22007.9	21482.5	20504.2	19699.3	18832.8	17994.3	17200.5	16770.1	16311.7	12829.1
40°	22857.6	22857.6	22153.3	21706.1	20750.2	20096.2	19553.9	18083.7	17770.7	17681.3	13645.3
42.5°	22449.6	22701.1	22410.4	21901.7	21510.4	20683.1	20537.8	19000.5	19006.1	18827.2	14623.5
45°	22410.4	22063.8	21823.5	21952.0	21767.6	21722.9	22091.8	20269.4	20303.0	20280.6	15937.2
47.5°	21286.8	21130.3	21488.1	21700.5	21851.4	22544.6	23606.7	21784.3	22024.7	21857.0	17452.1
50°	20168.8	20140.9	20364.5	21135.9	21789.9	22930.3	25048.9	24121.0	24909.2	24898.0	20196.8
52.5°	17105.5	17401.8	18279.4	19911.7	21527.2	23455.8	26139.0	27106.1	28609.8	29017.8	22471.9
55°	14176.3	14019.8	15316.7	17686.9	20381.3	23662.6	27357.6	28900.5	31114.1	31410.4	24808.6
57.5°	11029.1	11319.8	12342.8	14617.9	18011.1	22639.6	28252.0	30672.5	33942.7	34171.9	27519.7
60°	8228.5	8267.7	9391.3	11224.8	14858.3	20330.9	28542.7	32489.3	37184.9	37838.9	30359.5
62.5°	5176.4	5411.1	6266.4	8072.0	11185.7	17099.9	27240.2	33590.5	40583.6	40756.9	33221.5
65°	2789.4	2940.4	3583.2	4718.0	7814.9	12935.3	23785.6	32930.9	42182.4	43210.9	34496.1
67°	2062.7	2090.7	2386.9	3013.0	5226.7	9737.8	19833.4	30543.9	42909.1	43658.1	34546.4
67.5°	1934.2	1973.3	2208.1	2705.6	4634.1	8966.4	18799.3	29694.2	42584.9	43389.8	34155.1
70°	1654.6	1665.8	1721.7	1861.5	2599.4	5394.4	12801.2	24333.4	39471.2	40242.6	31410.4
72.5°	1470.2	1481.4	1503.7	1531.7	1760.9	3119.2	7786.9	18726.6	34306.0	35535.8	27100.5
75°	1291.3	1330.4	1341.6	1319.2	1498.1	2029.2	4142.2	13762.7	27983.7	28581.8	21074.4
77.5°	1095.6	1112.4	1134.8	1157.1	1336.0	1514.9	1990.1	9290.6	19207.3	18844.0	11398.1
80°	922.4	927.9	944.7	961.5	1157.1	1157.1	1129.2	5019.8	8390.6	8021.7	3851.5
82.5°	659.6	698.8	737.9	782.6	961.5	777.0	737.9	2236.0	2655.3	2526.7	1302.5
85°	257.1	313.0	486.3	536.6	609.3	419.3	491.9	967.1	1106.8	1095.6	486.3
87.5°	44.7	50.3	134.2	206.8	223.6	145.3	234.8	346.6	413.7	447.2	178.9
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°	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8	5019.8
2.5°	5064.6	4891.3	4684.4	4477.6	4343.5	4131.0	4114.3	3985.7	3968.9	3924.2	3946.6
5°	5103.7	4896.9	4477.6	4147.8	3996.9	3873.9	3901.8	3845.9	3829.2	3801.2	3756.5
7.5°	5411.1	5003.1	4377.0	4091.9	3980.1	3924.2	3924.2	3857.1	3806.8	3840.4	3873.9
10°	5612.4	5053.4	4455.3	4170.2	4080.7	3957.7	4002.5	3918.6	3946.6	3879.5	3879.5
12.5°	5936.6	5338.5	4617.4	4287.6	4142.2	4030.4	4075.1	3980.1	3957.7	3963.3	3946.6
15°	6372.6	5528.5	4690.0	4354.6	4254.0	4114.3	4080.7	3996.9	3913.0	3885.1	3918.6
17.5°	6780.7	5763.3	4740.3	4393.8	4231.7	4075.1	4036.0	3929.8	3901.8	3818.0	3750.9
20°	7267.0	6042.8	4807.4	4427.3	4147.8	3991.3	3890.7	3784.5	3689.4	3639.1	3661.5
22.5°	7591.3	6188.2	4841.0	4360.2	4024.8	3879.5	3667.1	3594.4	3460.2	3404.3	3359.6
25°	8122.3	6367.0	4757.1	4175.8	3806.8	3572.0	3382.0	3281.3	3186.3	3113.6	3091.3
27.5°	8256.5	6501.2	4561.5	3862.7	3460.2	3214.3	3052.2	2929.2	2867.7	2755.9	2733.5
30°	8647.8	6367.0	4270.8	3482.6	3130.4	2878.9	2716.8	2627.3	2482.0	2454.0	2392.5
32.5°	8899.3	6406.2	3901.8	3113.6	2750.3	2526.7	2420.5	2331.0	2291.9	2157.8	2124.2
35°	9318.6	6272.0	3527.3	2772.7	2437.3	2264.0	2174.5	2146.6	2018.0	1956.5	1900.6
37.5°	9586.9	6193.8	3152.8	2386.9	2096.3	2023.6	2051.5	1934.2	1777.6	1660.2	1621.1
40°	10056.5	6165.8	2727.9	2068.3	1861.5	1844.7	1934.2	1710.5	1425.5	1324.8	1268.9
42.5°	10732.9	5975.7	2398.1	1783.2	1677.0	1749.7	1766.4	1425.5	1263.3	1179.5	1140.4
45°	11381.3	6014.9	2073.9	1475.8	1459.0	1565.2	1526.1	1207.4	1112.4	1050.9	1084.5
47.5°	12627.9	6210.5	1755.3	1229.8	1313.7	1414.3	1185.1	1078.9	989.4	944.7	950.3
50°	14556.4	6400.6	1475.8	1123.6	1241.0	1280.1	1017.4	978.3	972.7	883.2	877.6
52.5°	15713.6	6327.9	1425.5	1257.8	1330.4	1280.1	1106.8	1078.9	1034.2	995.0	950.3
55°	17552.7	6540.3	1531.7	1470.2	1509.3	1229.8	1241.0	1229.8	1196.3	1095.6	1123.6
57.5°	19017.3	6680.1	1671.4	1643.5	1621.1	1280.1	1296.9	1302.5	1280.1	1235.4	1274.5
60°	21029.7	6959.6	1816.8	1822.3	1827.9	1391.9	1419.9	1453.4	1447.8	1431.0	1442.2
62.5°	22265.1	6831.0	1978.9	2068.3	2040.4	1621.1	1615.5	1637.9	1637.9	1665.8	1682.6
65°	22080.6	6355.9	2062.7	2286.3	2141.0	1788.8	1788.8	1800.0	1805.6	1861.5	1867.1
67°	20973.8	5506.2	2018.0	2319.9	2141.0	1855.9	1855.9	1867.1	1827.9	1973.3	1928.6
67.5°	20459.5	5254.6	1978.9	2291.9	2124.2	1850.3	1850.3	1855.9	1822.3	1962.1	1917.4
70°	17793.1	3901.8	1705.0	2029.2	1967.7	1800.0	1800.0	1766.4	1738.5	1923.0	1883.8
72.5°	15188.1	2834.1	1369.6	1727.3	1777.6	1732.9	1744.1	1660.2	1582.0	1710.5	1677.0
75°	11632.9	2085.1	1067.7	1330.4	1503.7	1621.1	1693.8	1481.4	1380.7	1414.3	1352.8
77.5°	6490.0	1358.4	844.1	983.8	1146.0	1509.3	1626.7	1336.0	1129.2	1090.1	1090.1
80°	2202.5	793.8	620.5	732.3	788.2	1336.0	1520.5	1084.5	888.8	849.7	821.7
82.5°	832.9	486.3	424.8	503.1	503.1	1056.5	1241.0	832.9	670.8	866.5	883.2
85°	380.1	290.7	279.5	290.7	290.7	648.4	877.6	542.2	603.7	519.9	458.4
87.5°	150.9	139.8	128.6	123.0	100.6	111.8	301.9	145.3	273.9	72.7	67.1
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)