

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: P477057

Luminaire Tested: **IFLD-L-SA8C-750-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477057  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-750-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

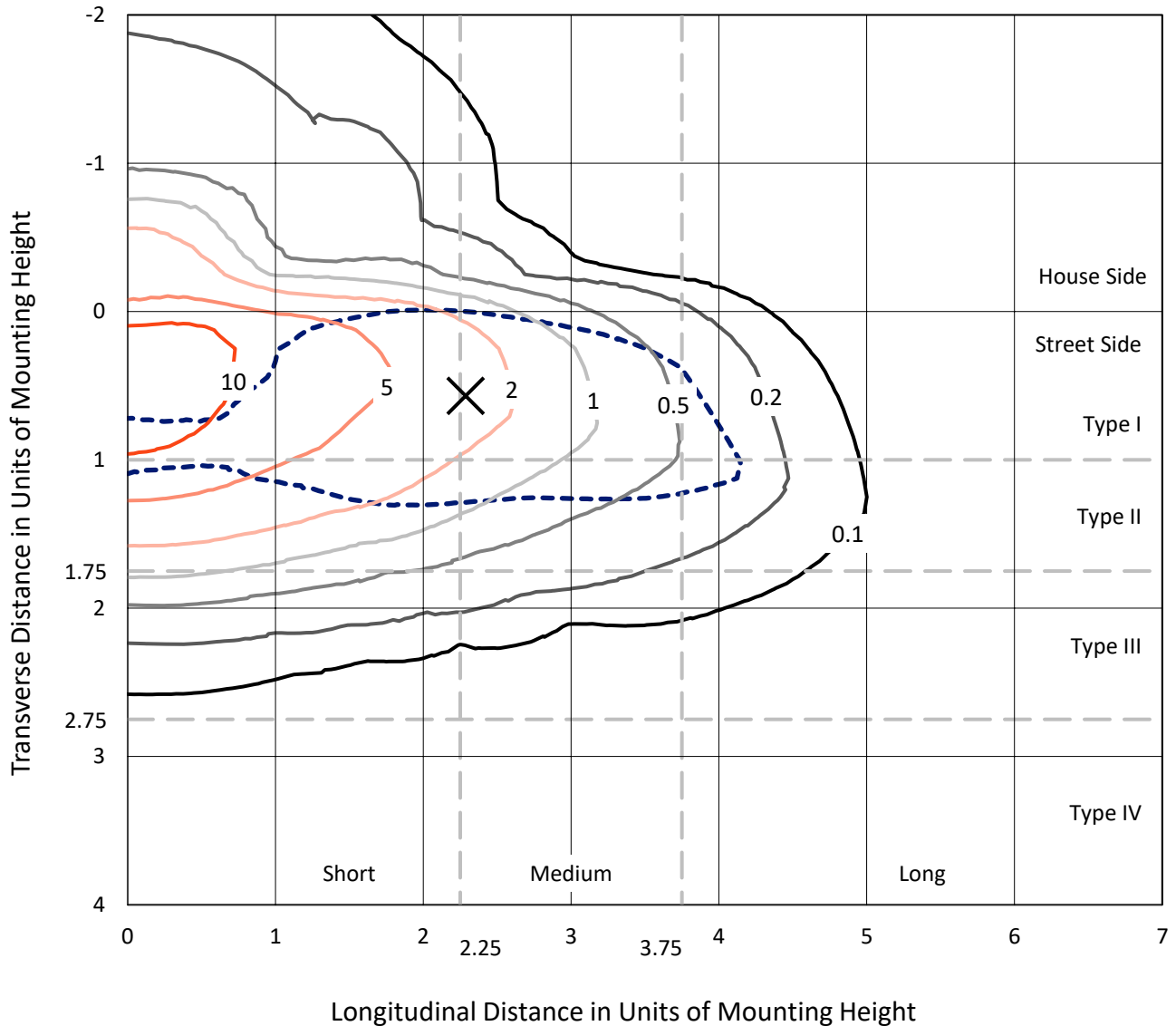
Lumens per Lamp: N/A  
Luminaire Lumens: 52115.4 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

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

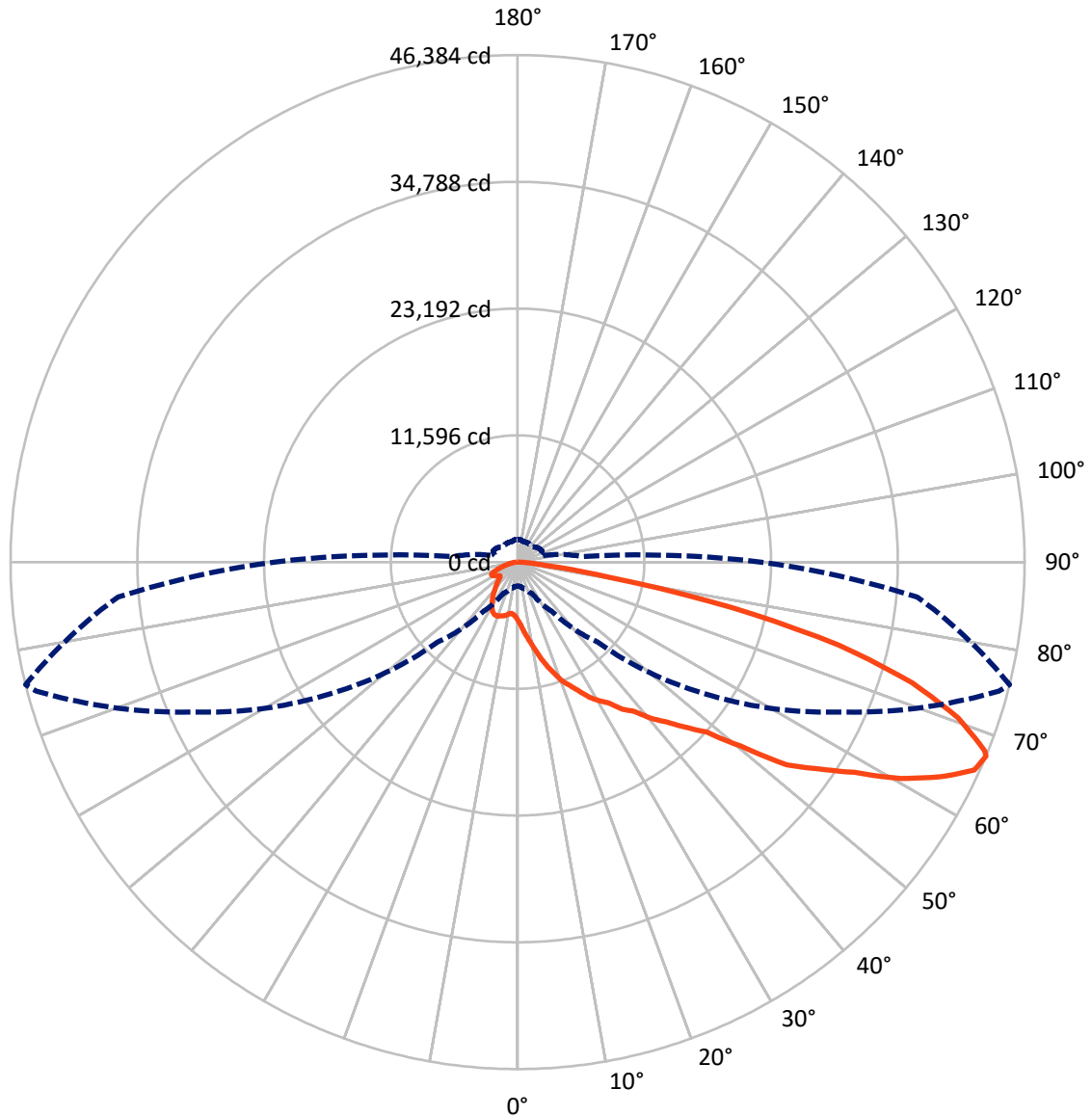
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 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	7414.1	0.0	7414.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	44701.4	0.0	44701.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	52115.4	0.0	52115.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.8	1.2
10°-20°	2317.0	4.4
20°-30°	4307.6	8.3
30°-40°	6828.5	13.1
40°-50°	9444.4	18.1
50°-60°	11617.2	22.3
60°-70°	10810.4	20.7
70°-80°	5424.6	10.4
80°-90°	748.0	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°	52115.4	100.0
0°-180°	52115.4	100.0

**Coefficient of Utilization**

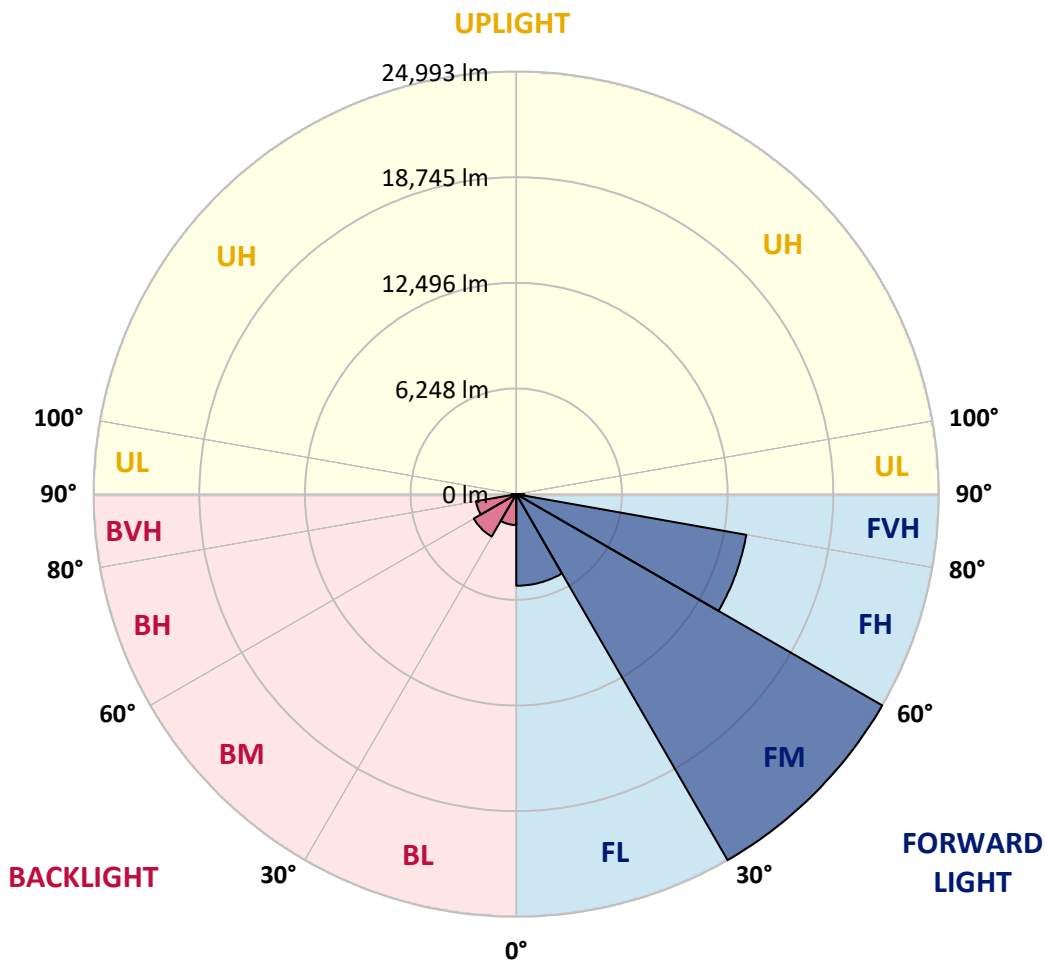


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5416.6	10.4			
FM (30°-60°)	24992.9	48.0			
FH (60°-80°)	13815.4	26.5			G5
FVH (80°-90°)	476.5	0.9			G3/500
BL (0°-30°)	1825.8	3.5	B3/2500		
BM (30°-60°)	2897.3	5.6	B3/5000		
BH (60°-80°)	2419.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	271.4	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°	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2
2.5°	7400.0	7310.9	7221.8	7031.8	6966.4	6788.3	6461.6	6099.3	5802.4	5760.8	5553.0
5°	9181.7	9051.0	9021.3	8914.4	8575.9	8231.4	7696.9	7114.9	6390.4	6443.8	5731.1
7.5°	10518.0	10440.8	10280.4	10179.4	9977.5	9520.2	8967.9	8195.8	7275.3	7097.1	6129.0
10°	11527.6	11420.7	11414.8	11325.7	11218.8	10749.6	10327.9	9288.6	8106.7	7863.2	6616.0
12.5°	12038.3	12020.5	12335.3	12335.3	12293.7	12097.7	11373.2	10422.9	8896.6	8813.5	7180.2
15°	12590.7	12442.2	12715.4	12923.3	13030.2	13131.1	12531.3	11527.6	9906.2	9745.9	7786.0
17.5°	12590.7	12578.8	12852.0	13196.5	13754.7	13885.4	13558.7	12543.2	10743.6	10624.9	8451.2
20°	12376.9	12549.1	12739.1	13202.4	13808.2	14336.7	14431.8	13582.5	11670.1	11575.1	9205.4
22.5°	13374.6	13208.3	13404.3	13582.5	14051.7	14853.4	15114.7	14497.1	12644.1	12281.8	9888.4
25°	15049.4	14936.6	14794.0	14532.7	14728.7	15079.1	15477.0	15174.1	13475.6	13071.7	10547.7
27.5°	16682.6	16688.6	16379.8	15809.6	15387.9	15459.2	15928.4	15768.0	14176.4	13998.2	10999.0
30°	19004.8	18862.3	18517.8	17745.7	16920.2	16243.2	16165.9	16320.4	15067.2	14722.8	11646.4
32.5°	20744.9	20774.6	20287.6	19177.0	18048.6	17496.3	16819.2	16884.6	15631.4	15376.1	12163.1
35°	22152.5	22116.8	21772.4	20851.8	19515.5	18850.4	17935.8	17561.6	16944.0	16540.1	12953.0
37.5°	23672.8	23381.8	22823.6	21784.2	20929.0	20008.5	19117.6	18274.3	17817.0	17330.0	13630.0
40°	24284.6	24284.6	23536.2	23061.1	22045.6	21350.7	20774.6	19212.7	18880.1	18785.0	14497.1
42.5°	23851.0	24118.3	23809.4	23269.0	22853.3	21974.3	21819.9	20186.6	20192.6	20002.5	15536.4
45°	23809.4	23441.2	23185.8	23322.4	23126.5	23078.9	23470.9	21534.8	21570.4	21546.7	16932.1
47.5°	22615.7	22449.4	22829.5	23055.2	23215.5	23952.0	25080.4	23144.3	23399.6	23221.5	18541.5
50°	21427.9	21398.2	21635.8	22455.3	23150.2	24361.8	26612.6	25626.8	26464.2	26452.3	21457.6
52.5°	18173.3	18488.1	19420.5	21154.7	22871.1	24920.0	27770.7	28798.2	30395.8	30829.3	23874.8
55°	15061.3	14895.0	16272.9	18791.0	21653.6	25139.8	29065.4	30704.6	33056.5	33371.2	26357.3
57.5°	11717.6	12026.5	13113.3	15530.5	19135.4	24052.9	30015.7	32587.3	36061.6	36305.1	29237.7
60°	8742.2	8783.8	9977.5	11925.5	15785.9	21600.1	30324.5	34517.4	39506.2	40201.1	32254.7
62.5°	5499.5	5748.9	6657.6	8575.9	11883.9	18167.4	28940.7	35687.4	43117.1	43301.2	35295.5
65°	2963.6	3123.9	3806.9	5012.5	8302.7	13742.8	25270.4	34986.6	44815.7	45908.4	36649.5
67°	2191.5	2221.2	2536.0	3201.1	5553.0	10345.7	21071.6	32450.7	45587.7	46383.6	36703.0
67.5°	2054.9	2096.5	2345.9	2874.5	4923.4	9526.2	19972.8	31547.9	45243.3	46098.5	36287.3
70°	1757.9	1769.8	1829.2	1977.7	2761.6	5731.1	13600.3	25852.5	41935.3	42754.8	33371.2
72.5°	1562.0	1573.8	1597.6	1627.3	1870.8	3314.0	8273.0	19895.6	36447.6	37754.2	28792.3
75°	1371.9	1413.5	1425.4	1401.6	1591.7	2155.9	4400.8	14621.8	29730.6	30366.1	22390.0
77.5°	1164.0	1181.9	1205.6	1229.4	1419.4	1609.5	2114.3	9870.6	20406.4	20020.4	12109.6
80°	979.9	985.9	1003.7	1021.5	1229.4	1229.4	1199.7	5333.2	8914.4	8522.5	4092.0
82.5°	700.8	742.4	783.9	831.5	1021.5	825.5	783.9	2375.6	2821.0	2684.4	1383.8
85°	273.2	332.6	516.7	570.1	647.4	445.4	522.6	1027.4	1175.9	1164.0	516.7
87.5°	47.5	53.5	142.5	219.7	237.6	154.4	249.4	368.2	439.5	475.1	190.0
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°	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2	5333.2
2.5°	5380.7	5196.6	4976.9	4757.1	4614.6	4388.9	4371.1	4234.5	4216.7	4169.2	4192.9
5°	5422.3	5202.6	4757.1	4406.7	4246.4	4115.7	4145.4	4086.0	4068.2	4038.5	3991.0
7.5°	5748.9	5315.4	4650.2	4347.3	4228.6	4169.2	4169.2	4097.9	4044.5	4080.1	4115.7
10°	5962.8	5368.9	4733.4	4430.5	4335.5	4204.8	4252.3	4163.2	4192.9	4121.7	4121.7
12.5°	6307.2	5671.7	4905.6	4555.2	4400.8	4282.0	4329.5	4228.6	4204.8	4210.7	4192.9
15°	6770.5	5873.7	4982.8	4626.5	4519.6	4371.1	4335.5	4246.4	4157.3	4127.6	4163.2
17.5°	7204.0	6123.1	5036.3	4668.1	4495.8	4329.5	4288.0	4175.1	4145.4	4056.3	3985.1
20°	7720.7	6420.1	5107.5	4703.7	4406.7	4240.4	4133.5	4020.7	3919.7	3866.3	3890.0
22.5°	8065.2	6574.5	5143.2	4632.4	4276.1	4121.7	3896.0	3818.8	3676.2	3616.8	3569.3
25°	8629.4	6764.5	5054.1	4436.4	4044.5	3795.0	3593.1	3486.2	3385.2	3308.0	3284.3
27.5°	8771.9	6907.1	4846.2	4103.8	3676.2	3414.9	3242.7	3112.0	3046.7	2927.9	2904.2
30°	9187.6	6764.5	4537.4	3700.0	3325.8	3058.6	2886.4	2791.3	2636.9	2607.2	2541.9
32.5°	9454.9	6806.1	4145.4	3308.0	2922.0	2684.4	2571.6	2476.6	2435.0	2292.5	2256.8
35°	9900.3	6663.6	3747.5	2945.7	2589.4	2405.3	2310.3	2280.6	2144.0	2078.6	2019.3
37.5°	10185.4	6580.4	3349.6	2536.0	2227.1	2149.9	2179.6	2054.9	1888.6	1763.9	1722.3
40°	10684.3	6550.7	2898.2	2197.4	1977.7	1959.9	2054.9	1817.3	1514.4	1407.5	1348.2
42.5°	11402.9	6348.8	2547.8	1894.5	1781.7	1858.9	1876.7	1514.4	1342.2	1253.1	1211.6
45°	12091.8	6390.4	2203.4	1567.9	1550.1	1662.9	1621.3	1282.8	1181.9	1116.5	1152.2
47.5°	13416.2	6598.2	1864.8	1306.6	1395.7	1502.6	1259.1	1146.2	1051.2	1003.7	1009.6
50°	15465.1	6800.2	1567.9	1193.7	1318.5	1360.0	1080.9	1039.3	1033.4	938.4	932.4
52.5°	16694.5	6722.9	1514.4	1336.3	1413.5	1360.0	1175.9	1146.2	1098.7	1057.1	1009.6
55°	18648.4	6948.6	1627.3	1562.0	1603.5	1306.6	1318.5	1306.6	1270.9	1164.0	1193.7
57.5°	20204.5	7097.1	1775.8	1746.1	1722.3	1360.0	1377.8	1383.8	1360.0	1312.5	1354.1
60°	22342.5	7394.1	1930.2	1936.1	1942.1	1478.8	1508.5	1544.1	1538.2	1520.4	1532.3
62.5°	23655.0	7257.5	2102.4	2197.4	2167.7	1722.3	1716.4	1740.1	1740.1	1769.8	1787.6
65°	23459.0	6752.6	2191.5	2429.0	2274.6	1900.5	1900.5	1912.4	1918.3	1977.7	1983.6
67°	22283.1	5849.9	2144.0	2464.7	2274.6	1971.7	1971.7	1983.6	1942.1	2096.5	2049.0
67.5°	21736.7	5582.7	2102.4	2435.0	2256.8	1965.8	1965.8	1971.7	1936.1	2084.6	2037.1
70°	18903.8	4145.4	1811.4	2155.9	2090.5	1912.4	1912.4	1876.7	1847.0	2043.0	2001.4
72.5°	16136.3	3011.1	1455.1	1835.1	1888.6	1841.1	1853.0	1763.9	1680.7	1817.3	1781.7
75°	12359.1	2215.2	1134.3	1413.5	1597.6	1722.3	1799.5	1573.8	1466.9	1502.6	1437.2
77.5°	6895.2	1443.2	896.8	1045.3	1217.5	1603.5	1728.2	1419.4	1199.7	1158.1	1158.1
80°	2340.0	843.3	659.2	778.0	837.4	1419.4	1615.4	1152.2	944.3	902.7	873.0
82.5°	884.9	516.7	451.4	534.5	534.5	1122.5	1318.5	884.9	712.7	920.5	938.4
85°	403.9	308.8	296.9	308.8	308.8	688.9	932.4	576.1	641.4	552.3	487.0
87.5°	160.4	148.5	136.6	130.7	106.9	118.8	320.7	154.4	291.0	77.2	71.3
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)