

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: P476979

Luminaire Tested: **IFLD-L-SA8C-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476979  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

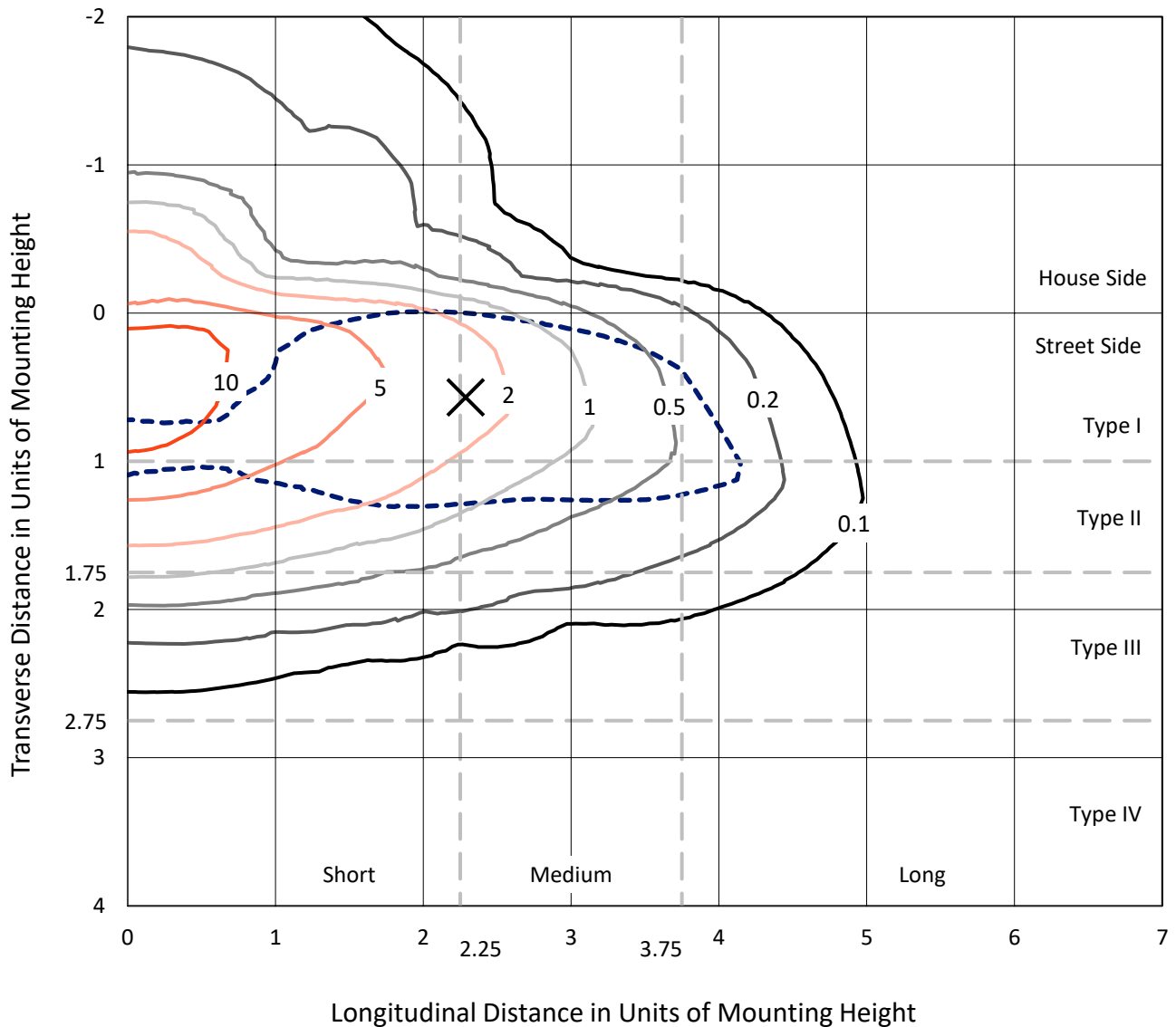
Lumens per Lamp: N/A  
Luminaire Lumens: 50250.7 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

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

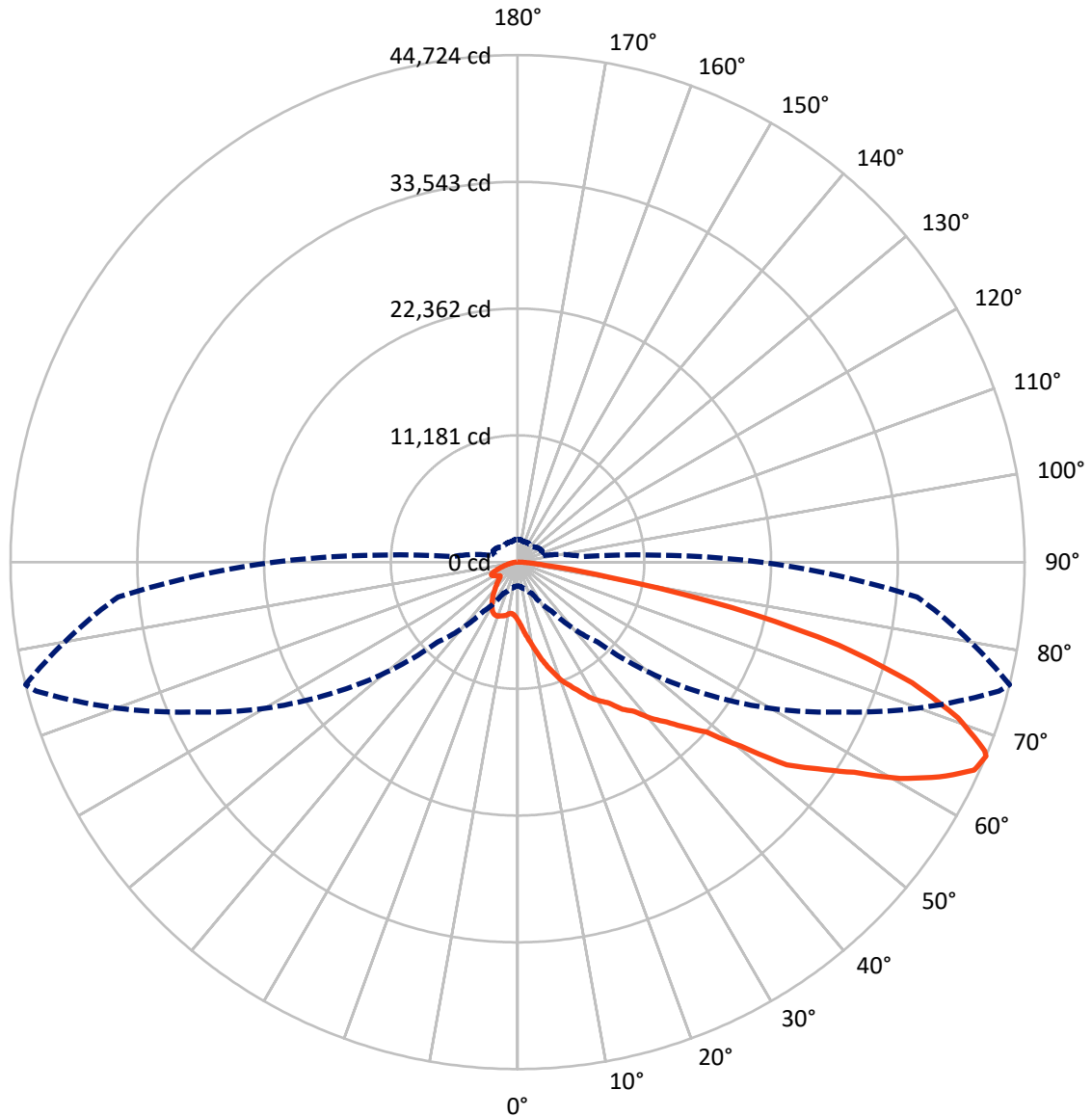
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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	7148.8	0.0	7148.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	43101.9	0.0	43101.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	50250.7	0.0	50250.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.7	1.2
10°-20°	2234.1	4.4
20°-30°	4153.5	8.3
30°-40°	6584.2	13.1
40°-50°	9106.5	18.1
50°-60°	11201.6	22.3
60°-70°	10423.6	20.7
70°-80°	5230.5	10.4
80°-90°	721.2	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°	50250.7	100.0
0°-180°	50250.7	100.0

**Coefficient of Utilization**

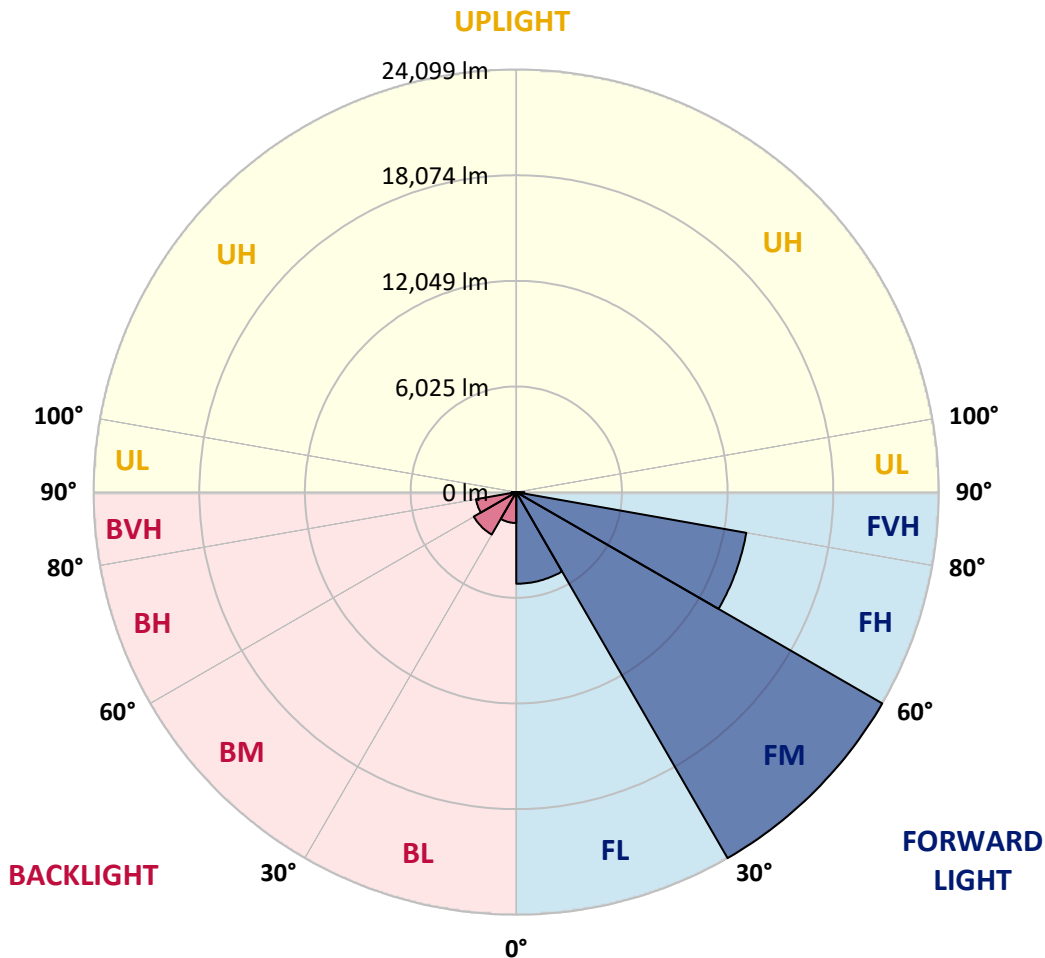


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5222.7	10.4			
FM (30°-60°)	24098.6	48.0			
FH (60°-80°)	13321.1	26.5			G5
FVH (80°-90°)	459.5	0.9			G3/500
BL (0°-30°)	1760.5	3.5	B3/2500		
BM (30°-60°)	2793.6	5.6	B3/5000		
BH (60°-80°)	2333.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	261.7	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°	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4
2.5°	7135.2	7049.3	6963.4	6780.2	6717.2	6545.4	6230.4	5881.1	5594.8	5554.7	5354.3
5°	8853.2	8727.2	8698.5	8595.5	8269.1	7936.9	7421.5	6860.3	6161.7	6213.2	5526.1
7.5°	10141.6	10067.2	9912.6	9815.2	9620.5	9179.6	8647.0	7902.6	7015.0	6843.2	5909.7
10°	11115.1	11012.1	11006.3	10920.4	10817.3	10365.0	9958.4	8956.2	7816.7	7581.9	6379.3
12.5°	11607.6	11590.4	11893.9	11893.9	11853.8	11664.9	10966.2	10050.0	8578.3	8498.1	6923.3
15°	12140.2	11997.0	12260.4	12460.9	12563.9	12661.3	12082.9	11115.1	9551.8	9397.2	7507.4
17.5°	12140.2	12128.7	12392.1	12724.3	13262.6	13388.5	13073.6	12094.4	10359.2	10244.7	8148.8
20°	11934.0	12100.1	12283.3	12730.0	13314.1	13823.8	13915.4	13096.5	11252.6	11160.9	8876.1
22.5°	12896.1	12735.7	12924.7	13096.5	13548.9	14322.0	14573.9	13978.4	12191.7	11842.4	9534.6
25°	14510.9	14402.1	14264.7	14012.7	14201.7	14539.6	14923.2	14631.2	12993.4	12604.0	10170.3
27.5°	16085.7	16091.5	15793.7	15243.9	14837.3	14906.1	15358.5	15203.8	13669.1	13497.3	10605.5
30°	18324.8	18187.3	17855.2	17110.8	16314.8	15662.0	15587.5	15736.4	14528.1	14196.0	11229.7
32.5°	20002.6	20031.3	19561.7	18490.9	17402.8	16870.3	16217.4	16280.4	15072.1	14825.9	11727.9
35°	21359.8	21325.5	20993.3	20105.7	18817.3	18175.9	17294.0	16933.2	16337.7	15948.3	12489.5
37.5°	22825.8	22545.2	22006.9	21004.8	20180.2	19292.6	18433.6	17620.4	17179.5	16709.9	13142.3
40°	23415.6	23415.6	22694.1	22236.0	21256.8	20586.8	20031.3	18525.2	18204.5	18112.9	13978.4
42.5°	22997.6	23255.3	22957.5	22436.4	22035.6	21188.0	21039.1	19464.4	19470.1	19286.8	14980.5
45°	22957.5	22602.5	22356.2	22487.9	22299.0	22253.2	22631.1	20764.3	20798.6	20775.7	16326.2
47.5°	21806.5	21646.2	22012.6	22230.3	22384.9	23095.0	24183.0	22316.2	22562.4	22390.6	17878.1
50°	20661.2	20632.6	20861.6	21651.9	22321.9	23490.1	25660.4	24709.8	25517.3	25505.8	20689.8
52.5°	17523.1	17826.6	18725.6	20397.8	22052.7	24028.4	26777.1	27767.8	29308.2	29726.2	23020.5
55°	14522.4	14362.1	15690.6	18118.6	20878.8	24240.3	28025.5	29606.0	31873.7	32177.2	25414.2
57.5°	11298.4	11596.2	12644.1	14974.8	18450.8	23192.3	28941.7	31421.3	34771.3	35006.1	28191.5
60°	8429.4	8469.5	9620.5	11498.8	15221.0	20827.3	29239.5	33282.4	38092.6	38762.6	31100.6
62.5°	5302.7	5543.2	6419.4	8269.1	11458.7	17517.3	27905.2	34410.5	41574.4	41751.9	34032.6
65°	2857.5	3012.1	3670.7	4833.2	8005.6	13251.1	24366.2	33734.8	43212.1	44265.8	35338.2
67°	2113.1	2141.7	2445.2	3086.6	5354.3	9975.6	20317.6	31289.6	43956.6	44723.9	35389.7
67.5°	1981.4	2021.5	2262.0	2771.6	4747.3	9185.3	19258.2	30419.1	43624.4	44449.1	34988.9
70°	1695.0	1706.5	1763.8	1906.9	2662.8	5526.1	13113.7	24927.4	40434.8	41225.0	32177.2
72.5°	1506.1	1517.5	1540.4	1569.1	1803.8	3195.4	7977.0	19183.8	35143.5	36403.3	27762.0
75°	1322.8	1362.9	1374.4	1351.5	1534.7	2078.7	4243.3	14098.6	28666.8	29279.6	21588.9
77.5°	1122.4	1139.6	1162.5	1185.4	1368.6	1551.9	2038.6	9517.4	19676.2	19304.0	11676.3
80°	944.9	950.6	967.8	985.0	1185.4	1185.4	1156.8	5142.4	8595.5	8217.5	3945.6
82.5°	675.7	715.8	755.9	801.7	985.0	796.0	755.9	2290.6	2720.1	2588.4	1334.3
85°	263.4	320.7	498.2	549.7	624.2	429.5	503.9	990.7	1133.8	1122.4	498.2
87.5°	45.8	51.5	137.4	211.9	229.1	148.9	240.5	355.0	423.8	458.1	183.2
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°	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4	5142.4
2.5°	5188.2	5010.7	4798.8	4586.9	4449.5	4231.9	4214.7	4083.0	4065.8	4020.0	4042.9
5°	5228.3	5016.4	4586.9	4249.1	4094.4	3968.5	3997.1	3939.8	3922.6	3894.0	3848.2
7.5°	5543.2	5125.2	4483.8	4191.8	4077.3	4020.0	4020.0	3951.3	3899.7	3934.1	3968.5
10°	5749.4	5176.8	4564.0	4272.0	4180.3	4054.4	4100.2	4014.3	4042.9	3974.2	3974.2
12.5°	6081.5	5468.8	4730.1	4392.2	4243.3	4128.8	4174.6	4077.3	4054.4	4060.1	4042.9
15°	6528.2	5663.5	4804.5	4460.9	4357.9	4214.7	4180.3	4094.4	4008.5	3979.9	4014.3
17.5°	6946.2	5904.0	4856.1	4501.0	4335.0	4174.6	4134.5	4025.7	3997.1	3911.2	3842.5
20°	7444.4	6190.3	4924.8	4535.4	4249.1	4088.7	3985.6	3876.8	3779.5	3727.9	3750.9
22.5°	7776.6	6339.2	4959.1	4466.7	4123.1	3974.2	3756.6	3682.1	3544.7	3487.4	3441.6
25°	8320.6	6522.5	4873.2	4277.7	3899.7	3659.2	3464.5	3361.5	3264.1	3189.7	3166.8
27.5°	8458.0	6659.9	4672.8	3957.0	3544.7	3292.7	3126.7	3000.7	2937.7	2823.2	2800.3
30°	8858.9	6522.5	4375.0	3567.6	3206.8	2949.1	2783.1	2691.5	2542.6	2513.9	2450.9
32.5°	9116.6	6562.6	3997.1	3189.7	2817.4	2588.4	2479.6	2387.9	2347.9	2210.4	2176.1
35°	9546.1	6425.1	3613.4	2840.3	2496.8	2319.2	2227.6	2199.0	2067.3	2004.3	1947.0
37.5°	9820.9	6345.0	3229.7	2445.2	2147.4	2073.0	2101.6	1981.4	1821.0	1700.8	1660.7
40°	10302.0	6316.3	2794.5	2118.8	1906.9	1889.7	1981.4	1752.3	1460.3	1357.2	1299.9
42.5°	10994.9	6121.6	2456.7	1826.8	1717.9	1792.4	1809.6	1460.3	1294.2	1208.3	1168.2
45°	11659.1	6161.7	2124.5	1511.8	1494.6	1603.4	1563.3	1236.9	1139.6	1076.6	1110.9
47.5°	12936.2	6362.1	1798.1	1259.8	1345.7	1448.8	1214.0	1105.2	1013.6	967.8	973.5
50°	14911.8	6556.8	1511.8	1151.0	1271.3	1311.4	1042.2	1002.1	996.4	904.8	899.1
52.5°	16097.2	6482.4	1460.3	1288.5	1362.9	1311.4	1133.8	1105.2	1059.4	1019.3	973.5
55°	17981.2	6700.0	1569.1	1506.1	1546.2	1259.8	1271.3	1259.8	1225.5	1122.4	1151.0
57.5°	19481.5	6843.2	1712.2	1683.6	1660.7	1311.4	1328.5	1334.3	1311.4	1265.6	1305.6
60°	21543.1	7129.5	1861.1	1866.8	1872.6	1425.9	1454.5	1488.9	1483.2	1466.0	1477.4
62.5°	22808.6	6997.8	2027.2	2118.8	2090.2	1660.7	1655.0	1677.9	1677.9	1706.5	1723.7
65°	22619.7	6511.0	2113.1	2342.1	2193.2	1832.5	1832.5	1843.9	1849.7	1906.9	1912.6
67°	21485.8	5640.6	2067.3	2376.5	2193.2	1901.2	1901.2	1912.6	1872.6	2021.5	1975.6
67.5°	20959.0	5382.9	2027.2	2347.9	2176.1	1895.5	1895.5	1901.2	1866.8	2010.0	1964.2
70°	18227.4	3997.1	1746.6	2078.7	2015.7	1843.9	1843.9	1809.6	1780.9	1969.9	1929.8
72.5°	15558.9	2903.3	1403.0	1769.5	1821.0	1775.2	1786.7	1700.8	1620.6	1752.3	1717.9
75°	11916.8	2136.0	1093.8	1362.9	1540.4	1660.7	1735.1	1517.5	1414.4	1448.8	1385.8
77.5°	6648.5	1391.5	864.7	1007.9	1173.9	1546.2	1666.4	1368.6	1156.8	1116.7	1116.7
80°	2256.2	813.2	635.6	750.2	807.4	1368.6	1557.6	1110.9	910.5	870.4	841.8
82.5°	853.2	498.2	435.2	515.4	515.4	1082.3	1271.3	853.2	687.2	887.6	904.8
85°	389.4	297.8	286.3	297.8	297.8	664.3	899.1	555.5	618.5	532.6	469.6
87.5°	154.6	143.2	131.7	126.0	103.1	114.5	309.2	148.9	280.6	74.4	68.7
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)