

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: P477053

Luminaire Tested: **IFLD-L-SA7D-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

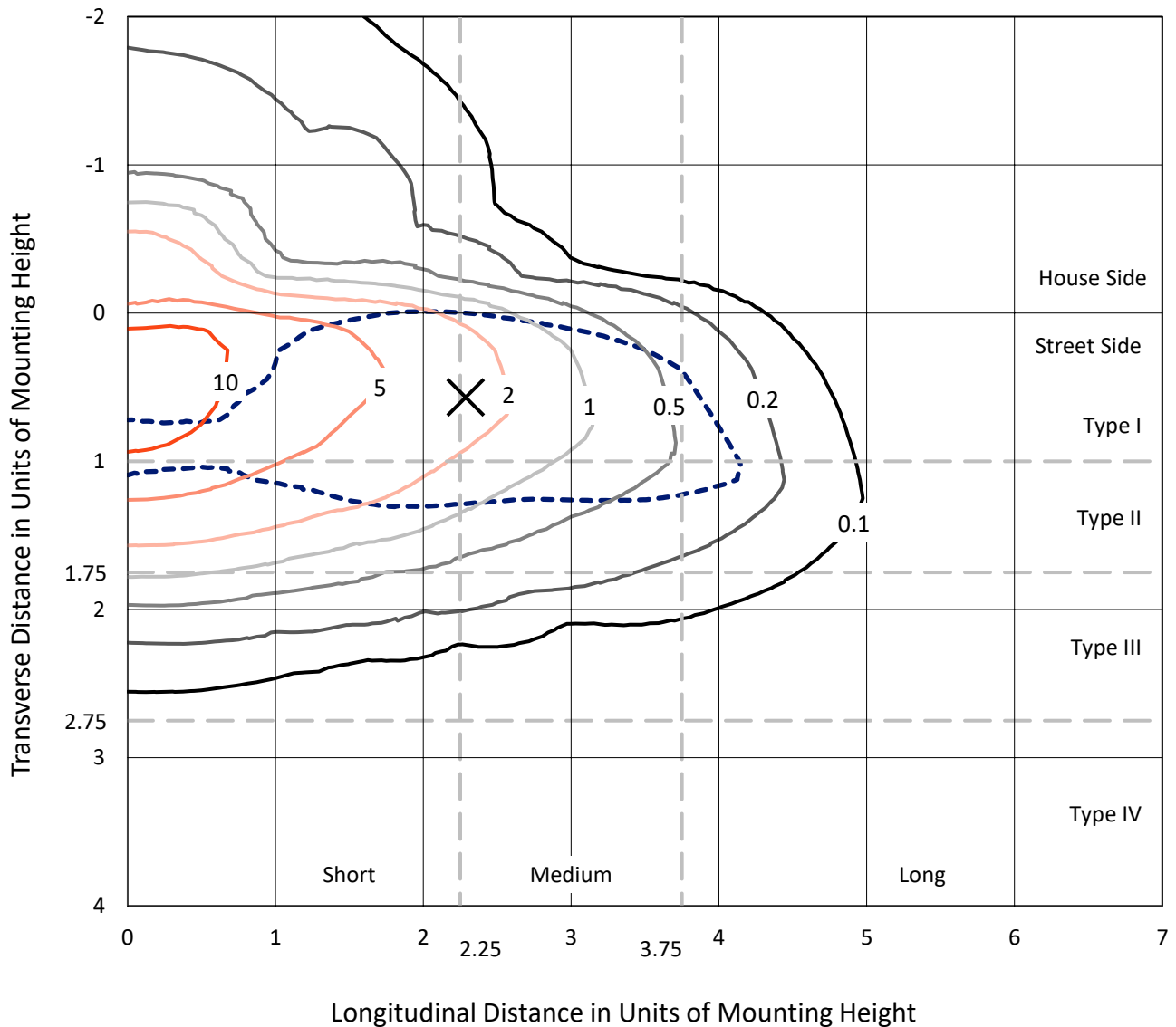
Lumens per Lamp: N/A
Luminaire Lumens: 50176.5 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

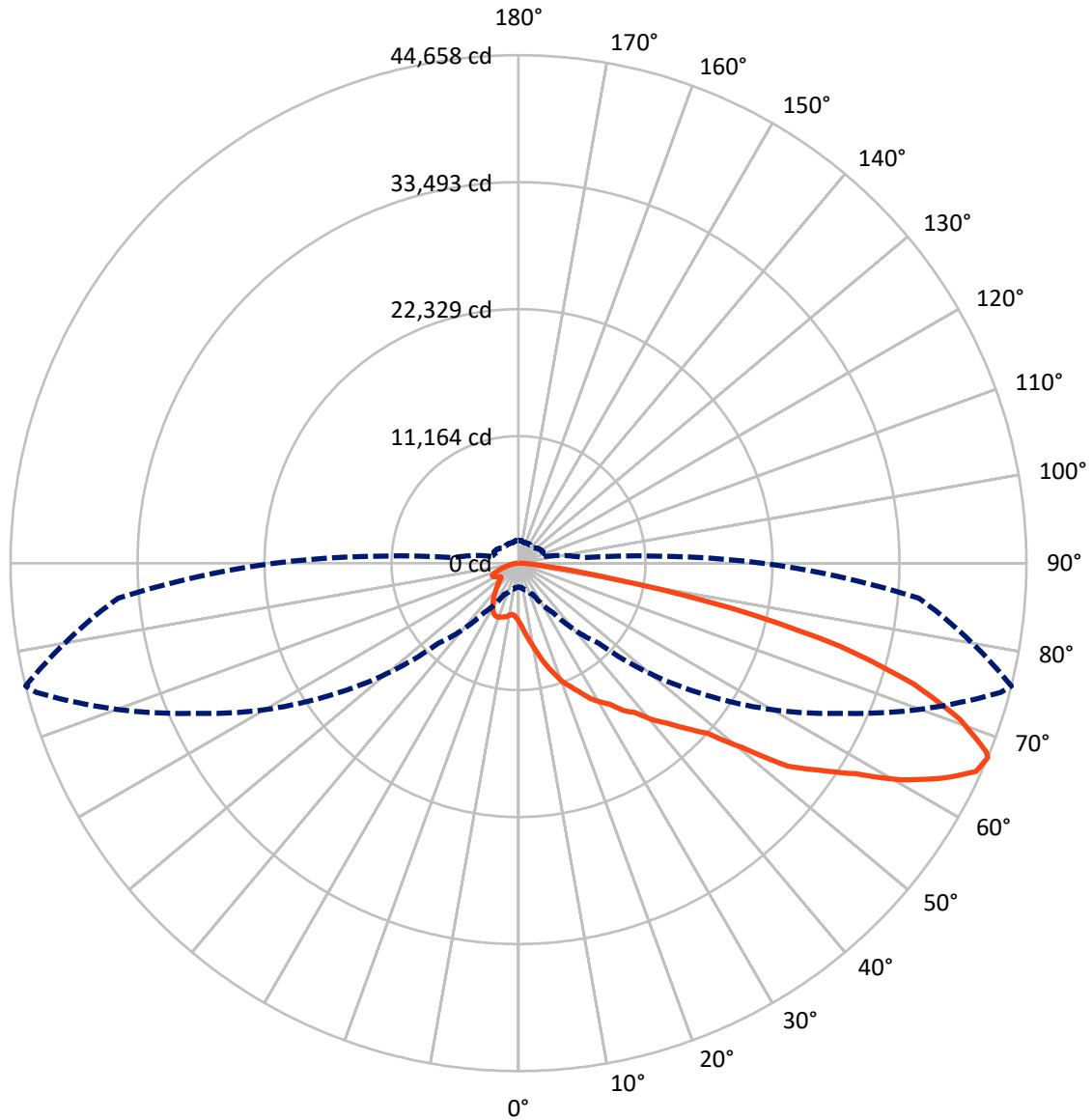
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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
House Side	Lumens	7138.2	0.0	7138.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	43038.3	0.0	43038.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	50176.5	0.0	50176.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.8	1.2
10°-20°	2230.8	4.4
20°-30°	4147.3	8.3
30°-40°	6574.5	13.1
40°-50°	9093.1	18.1
50°-60°	11185.0	22.3
60°-70°	10408.2	20.7
70°-80°	5222.8	10.4
80°-90°	720.1	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°	50176.5	100.0
0°-180°	50176.5	100.0

Coefficient of Utilization



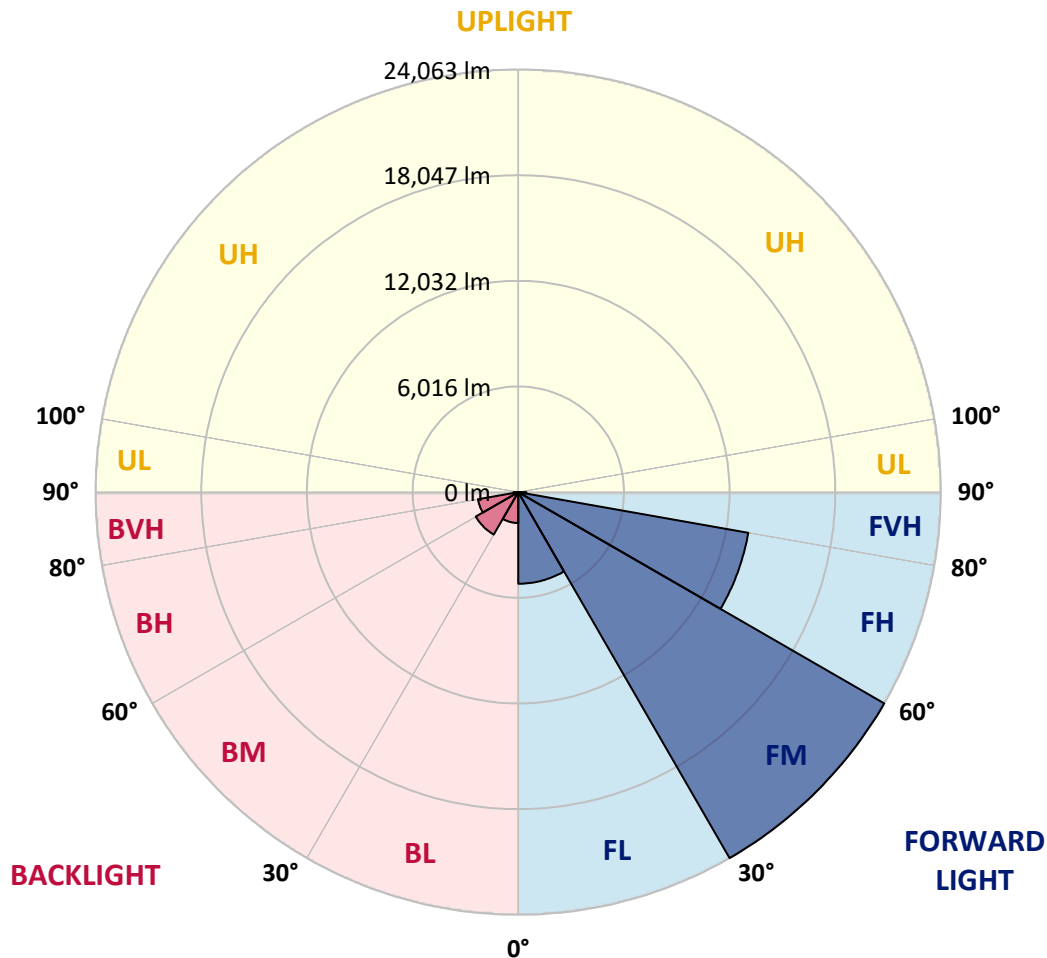
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5215.0	10.4			
FM (30°-60°)	24063.1	48.0			
FH (60°-80°)	13301.4	26.5			G5
FVH (80°-90°)	458.8	0.9			G3/500
BL (0°-30°)	1757.9	3.5	B3/2500		
BM (30°-60°)	2789.5	5.6	B3/5000		
BH (60°-80°)	2329.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	261.3	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°	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8
2.5°	7124.7	7038.9	6953.1	6770.2	6707.3	6535.7	6221.2	5872.4	5586.5	5546.5	5346.4
5°	8840.1	8714.3	8685.7	8582.8	8256.9	7925.2	7410.6	6850.2	6152.6	6204.1	5517.9
7.5°	10126.7	10052.3	9897.9	9800.7	9606.3	9166.0	8634.2	7890.9	7004.6	6833.1	5901.0
10°	11098.7	10995.8	10990.1	10904.3	10801.4	10349.7	9943.7	8943.0	7805.1	7570.7	6369.9
12.5°	11590.5	11573.3	11876.4	11876.4	11836.3	11647.7	10950.1	10035.2	8565.6	8485.6	6913.1
15°	12122.2	11979.3	12242.3	12442.5	12545.4	12642.6	12065.1	11098.7	9537.7	9383.3	7496.4
17.5°	12122.2	12110.8	12373.8	12705.5	13243.0	13368.8	13054.3	12076.5	10343.9	10229.6	8136.8
20°	11916.4	12082.2	12265.2	12711.2	13294.4	13803.4	13894.8	13077.2	11236.0	11144.5	8863.0
22.5°	12877.0	12716.9	12905.6	13077.2	13528.9	14300.8	14552.4	13957.7	12173.7	11824.9	9520.5
25°	14489.5	14380.9	14243.6	13992.0	14180.7	14518.1	14901.2	14609.6	12974.2	12585.4	10155.2
27.5°	16062.0	16067.7	15770.4	15221.4	14815.4	14884.1	15335.8	15181.4	13649.0	13477.4	10589.8
30°	18297.7	18160.5	17828.9	17085.5	16290.7	15638.8	15564.5	15713.2	14506.7	14175.0	11213.1
32.5°	19973.1	20001.7	19532.8	18463.6	17377.1	16845.4	16193.5	16256.4	15049.9	14804.0	11710.5
35°	21328.3	21294.0	20962.3	20076.0	18789.5	18149.1	17268.5	16908.2	16313.6	15924.7	12471.0
37.5°	22792.1	22511.9	21974.4	20973.8	20150.4	19264.1	18406.4	17594.4	17154.1	16685.2	13122.9
40°	23381.1	23381.1	22660.6	22203.2	21225.4	20556.4	20001.7	18497.9	18177.7	18086.2	13957.7
42.5°	22963.7	23221.0	22923.6	22403.3	22003.0	21156.8	21008.1	19435.6	19441.3	19258.4	14958.4
45°	22923.6	22569.1	22323.2	22454.8	22266.1	22220.3	22597.7	20733.6	20767.9	20745.1	16302.1
47.5°	21774.3	21614.2	21980.2	22197.4	22351.8	23060.9	24147.3	22283.2	22529.1	22357.5	17851.7
50°	20630.7	20602.1	20830.8	21619.9	22288.9	23455.4	25622.5	24673.4	25479.6	25468.2	20659.3
52.5°	17497.2	17800.3	18698.0	20367.7	22020.2	23992.9	26737.6	27726.8	29264.9	29682.4	22986.5
55°	14501.0	14340.8	15667.4	18091.9	20848.0	24204.5	27984.1	29562.3	31826.6	32129.7	25376.7
57.5°	11281.7	11579.0	12625.4	14952.7	18423.5	23158.1	28899.0	31374.9	34720.0	34954.4	28149.9
60°	8417.0	8457.0	9606.3	11481.8	15198.6	20796.5	29196.3	33233.3	38036.4	38705.4	31054.7
62.5°	5294.9	5535.1	6409.9	8256.9	11441.8	17491.5	27864.0	34359.7	41513.0	41690.2	33982.3
65°	2853.3	3007.7	3665.3	4826.0	7993.8	13231.5	24330.3	33685.0	43148.3	44200.5	35286.0
67°	2110.0	2138.5	2441.6	3082.0	5346.4	9960.8	20287.6	31243.4	43891.7	44657.9	35337.5
67.5°	1978.4	2018.5	2258.6	2767.5	4740.3	9171.7	19229.8	30374.2	43560.0	44383.4	34937.2
70°	1692.5	1704.0	1761.2	1904.1	2658.9	5517.9	13094.3	24890.6	40375.1	41164.2	32129.7
72.5°	1503.8	1515.3	1538.2	1566.7	1801.2	3190.7	7965.2	19155.4	35091.6	36349.6	27721.1
75°	1320.9	1360.9	1372.3	1349.5	1532.4	2075.6	4237.1	14077.8	28624.5	29236.3	21557.0
77.5°	1120.7	1137.9	1160.8	1183.6	1366.6	1549.6	2035.6	9503.4	19647.2	19275.5	11659.1
80°	943.5	949.2	966.3	983.5	1183.6	1183.6	1155.0	5134.8	8582.8	8205.4	3939.7
82.5°	674.7	714.8	754.8	800.5	983.5	794.8	754.8	2287.2	2716.1	2584.6	1332.3
85°	263.0	320.2	497.5	548.9	623.3	428.9	503.2	989.2	1132.2	1120.7	497.5
87.5°	45.7	51.5	137.2	211.6	228.7	148.7	240.2	354.5	423.1	457.4	183.0
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°	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8	5134.8
2.5°	5180.5	5003.3	4791.7	4580.2	4442.9	4225.6	4208.5	4077.0	4059.8	4014.1	4036.9
5°	5220.6	5009.0	4580.2	4242.8	4088.4	3962.6	3991.2	3934.0	3916.9	3888.3	3842.5
7.5°	5535.1	5117.6	4477.2	4185.6	4071.2	4014.1	4014.1	3945.4	3894.0	3928.3	3962.6
10°	5740.9	5169.1	4557.3	4265.7	4174.2	4048.4	4094.1	4008.3	4036.9	3968.3	3968.3
12.5°	6072.6	5460.7	4723.1	4385.7	4237.1	4122.7	4168.5	4071.2	4048.4	4054.1	4036.9
15°	6518.6	5655.1	4797.4	4454.4	4351.4	4208.5	4174.2	4088.4	4002.6	3974.0	4008.3
17.5°	6936.0	5895.3	4848.9	4494.4	4328.6	4168.5	4128.4	4019.8	3991.2	3905.4	3836.8
20°	7433.5	6181.2	4917.5	4528.7	4242.8	4082.7	3979.8	3871.1	3773.9	3722.4	3745.3
22.5°	7765.1	6329.9	4951.8	4460.1	4117.0	3968.3	3751.0	3676.7	3539.5	3482.3	3436.5
25°	8308.3	6512.8	4866.1	4271.4	3894.0	3653.8	3459.4	3356.5	3259.3	3184.9	3162.1
27.5°	8445.5	6650.1	4665.9	3951.2	3539.5	3287.9	3122.1	2996.3	2933.4	2819.0	2796.1
30°	8845.8	6512.8	4368.6	3562.3	3202.1	2944.8	2779.0	2687.5	2538.8	2510.2	2447.3
32.5°	9103.1	6552.9	3991.2	3184.9	2813.3	2584.6	2475.9	2384.4	2344.4	2207.2	2172.9
35°	9532.0	6415.6	3608.1	2836.1	2493.1	2315.8	2224.3	2195.7	2064.2	2001.3	1944.1
37.5°	9806.4	6335.6	3225.0	2441.6	2144.3	2069.9	2098.5	1978.4	1818.3	1698.3	1658.2
40°	10286.8	6307.0	2790.4	2115.7	1904.1	1887.0	1978.4	1749.7	1458.1	1355.2	1298.0
42.5°	10978.6	6112.6	2453.0	1824.1	1715.4	1789.7	1806.9	1458.1	1292.3	1206.5	1166.5
45°	11641.9	6152.6	2121.4	1509.6	1492.4	1601.1	1561.0	1235.1	1137.9	1075.0	1109.3
47.5°	12917.1	6352.7	1795.5	1258.0	1343.7	1446.7	1212.2	1103.6	1012.1	966.3	972.1
50°	14889.8	6547.2	1509.6	1149.3	1269.4	1309.4	1040.7	1000.7	994.9	903.5	897.7
52.5°	16073.4	6472.8	1458.1	1286.6	1360.9	1309.4	1132.2	1103.6	1057.8	1017.8	972.1
55°	17954.7	6690.1	1566.7	1503.8	1543.9	1258.0	1269.4	1258.0	1223.7	1120.7	1149.3
57.5°	19452.8	6833.1	1709.7	1681.1	1658.2	1309.4	1326.6	1332.3	1309.4	1263.7	1303.7
60°	21511.3	7119.0	1858.4	1864.1	1869.8	1423.8	1452.4	1486.7	1481.0	1463.8	1475.3
62.5°	22775.0	6987.4	2024.2	2115.7	2087.1	1658.2	1652.5	1675.4	1675.4	1704.0	1721.1
65°	22586.3	6501.4	2110.0	2338.7	2190.0	1829.8	1829.8	1841.2	1846.9	1904.1	1909.8
67°	21454.1	5632.3	2064.2	2373.0	2190.0	1898.4	1898.4	1909.8	1869.8	2018.5	1972.7
67.5°	20928.0	5375.0	2024.2	2344.4	2172.9	1892.7	1892.7	1898.4	1864.1	2007.0	1961.3
70°	18200.5	3991.2	1744.0	2075.6	2012.8	1841.2	1841.2	1806.9	1778.3	1967.0	1927.0
72.5°	15535.9	2899.0	1400.9	1766.9	1818.3	1772.6	1784.0	1698.3	1618.2	1749.7	1715.4
75°	11899.2	2132.8	1092.1	1360.9	1538.2	1658.2	1732.6	1515.3	1412.4	1446.7	1383.8
77.5°	6638.6	1389.5	863.4	1006.4	1172.2	1543.9	1664.0	1366.6	1155.0	1115.0	1115.0
80°	2252.9	812.0	634.7	749.1	806.2	1366.6	1555.3	1109.3	909.2	869.1	840.6
82.5°	852.0	497.5	434.6	514.6	514.6	1080.7	1269.4	852.0	686.2	886.3	903.5
85°	388.8	297.3	285.9	297.3	297.3	663.3	897.7	554.7	617.5	531.8	468.9
87.5°	154.4	143.0	131.5	125.8	102.9	114.4	308.8	148.7	280.2	74.3	68.6
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)