

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: P477091

Luminaire Tested: **IFLD-L-SA7C-760-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-760-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

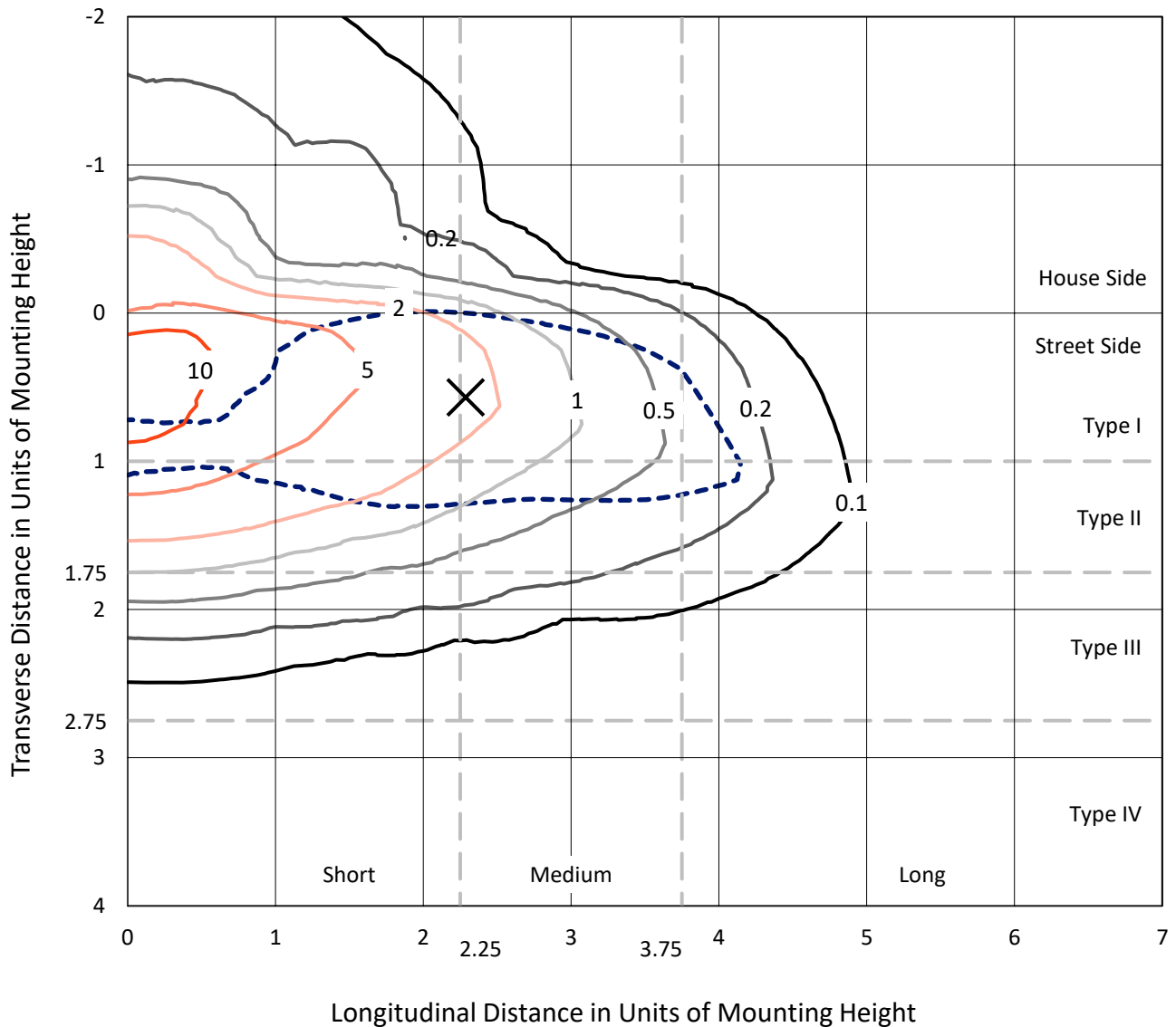
Lumens per Lamp: N/A
Luminaire Lumens: 45600.9 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

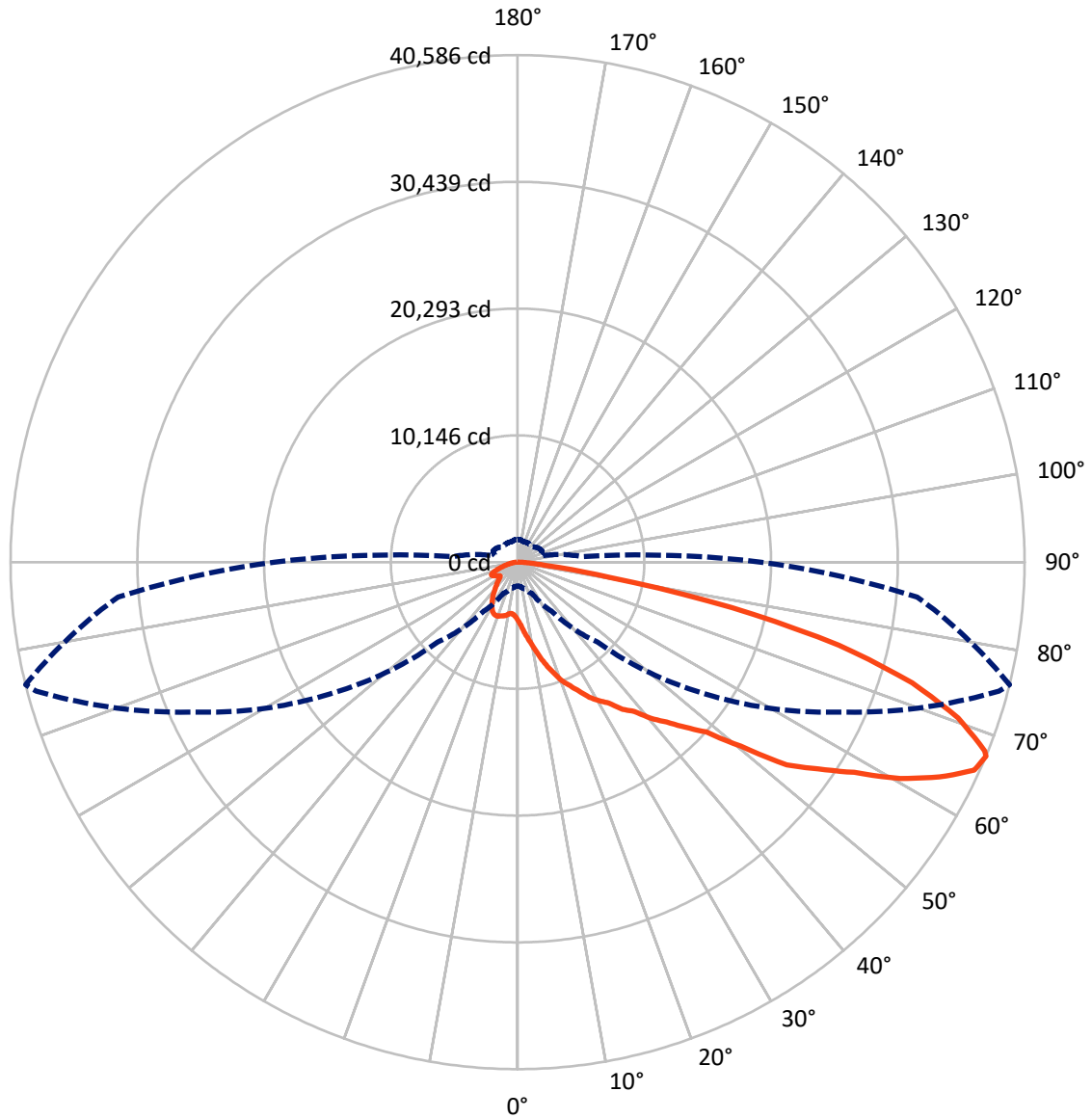
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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	6487.3	0.0	6487.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39113.6	0.0	39113.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	45600.9	0.0	45600.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.5	1.2
10°-20°	2027.4	4.4
20°-30°	3769.1	8.3
30°-40°	5974.9	13.1
40°-50°	8263.8	18.1
50°-60°	10165.1	22.3
60°-70°	9459.1	20.7
70°-80°	4746.5	10.4
80°-90°	654.5	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°	45600.9	100.0
0°-180°	45600.9	100.0

Coefficient of Utilization

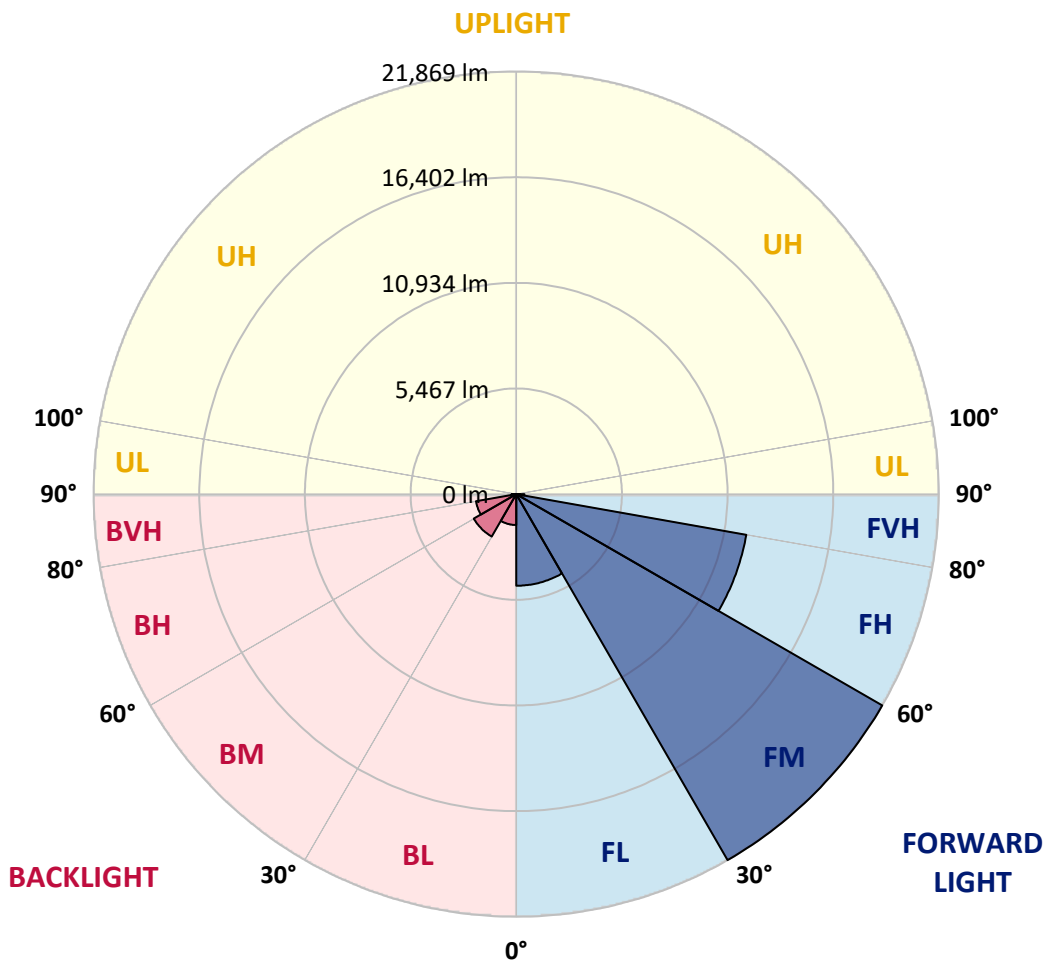


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4739.5	10.4			
FM (30°-60°)	21868.7	48.0			
FH (60°-80°)	12088.4	26.5			G5
FVH (80°-90°)	417.0	0.9			G3/500
BL (0°-30°)	1597.6	3.5	B3/2500		
BM (30°-60°)	2535.1	5.6	B3/5000		
BH (60°-80°)	2117.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	237.5	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°	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6
2.5°	6475.0	6397.0	6319.1	6152.8	6095.6	5939.7	5653.9	5336.9	5077.1	5040.7	4858.8
5°	8034.0	7919.6	7893.6	7800.1	7503.9	7202.5	6734.8	6225.5	5591.5	5638.3	5014.7
7.5°	9203.2	9135.6	8995.3	8907.0	8730.3	8330.2	7846.9	7171.3	6365.8	6209.9	5362.9
10°	10086.6	9993.1	9987.9	9909.9	9816.4	9405.9	9036.9	8127.5	7093.4	6880.3	5789.0
12.5°	10533.5	10517.9	10793.4	10793.4	10757.0	10585.5	9951.5	9120.0	7784.5	7711.8	6282.7
15°	11016.8	10886.9	11125.9	11307.8	11401.4	11489.7	10964.8	10086.6	8667.9	8527.6	6812.8
17.5°	11016.8	11006.4	11245.5	11546.9	12035.3	12149.7	11863.9	10975.2	9400.7	9296.7	7394.8
20°	10829.7	10980.4	11146.7	11552.1	12082.1	12544.6	12627.8	11884.6	10211.3	10128.2	8054.7
22.5°	11702.8	11557.3	11728.7	11884.6	12295.2	12996.7	13225.4	12684.9	11063.6	10746.6	8652.4
25°	13168.2	13069.5	12944.7	12716.1	12887.6	13194.2	13542.4	13277.3	11791.1	11437.7	9229.2
27.5°	14597.3	14602.5	14332.2	13833.4	13464.4	13526.8	13937.3	13797.0	12404.3	12248.4	9624.1
30°	16629.1	16504.4	16203.0	15527.5	14805.1	14212.7	14145.2	14280.3	13183.8	12882.4	10190.5
32.5°	18151.8	18177.7	17751.6	16779.8	15792.5	15309.2	14716.8	14774.0	13677.5	13454.0	10642.7
35°	19383.3	19352.2	19050.8	18245.3	17076.1	16494.0	15693.8	15366.4	14825.9	14472.6	11333.8
37.5°	20713.7	20459.0	19970.6	19061.2	18312.8	17507.4	16727.9	15990.0	15589.8	15163.7	11926.2
40°	21248.9	21248.9	20594.2	20178.4	19289.8	18681.8	18177.7	16811.0	16520.0	16436.9	12684.9
42.5°	20869.6	21103.4	20833.2	20360.3	19996.5	19227.4	19092.3	17663.3	17668.5	17502.2	13594.3
45°	20833.2	20511.0	20287.6	20407.1	20235.6	20194.0	20537.0	18842.9	18874.1	18853.3	14815.5
47.5°	19788.7	19643.2	19975.8	20173.2	20313.5	20957.9	21945.3	20251.2	20474.6	20318.7	16223.8
50°	18749.4	18723.4	18931.2	19648.4	20256.4	21316.5	23286.0	22423.4	23156.1	23145.7	18775.3
52.5°	15901.6	16177.0	16992.9	18510.3	20012.1	21805.0	24299.3	25198.4	26596.2	26975.6	20890.4
55°	13178.6	13033.1	14238.7	16442.1	18946.8	21997.2	25432.2	26866.5	28924.3	29199.7	23062.5
57.5°	10252.9	10523.1	11474.1	13589.1	16743.5	21046.3	26263.7	28513.8	31553.8	31766.9	25582.9
60°	7649.4	7685.8	8730.3	10434.8	13812.6	18900.1	26533.9	30202.7	34567.8	35175.8	28222.8
62.5°	4812.1	5030.3	5825.4	7503.9	10398.4	15896.4	25323.1	31226.4	37727.4	37888.5	30883.4
65°	2593.1	2733.4	3331.0	4385.9	7264.9	12024.9	22111.6	30613.2	39213.6	40169.8	32068.3
67°	1917.5	1943.5	2219.0	2801.0	4858.8	9052.5	18437.6	28394.3	39889.2	40585.5	32115.0
67.5°	1798.0	1834.4	2052.7	2515.2	4308.0	8335.4	17476.2	27604.4	39587.8	40336.1	31751.3
70°	1538.2	1548.6	1600.6	1730.5	2416.4	5014.7	11900.2	22620.8	36693.2	37410.4	29199.7
72.5°	1366.7	1377.1	1397.9	1423.9	1636.9	2899.7	7238.9	17408.6	31891.6	33034.8	25193.2
75°	1200.4	1236.8	1247.2	1226.4	1392.7	1886.4	3850.7	12794.0	26014.2	26570.3	19591.2
77.5°	1018.5	1034.1	1054.9	1075.7	1242.0	1408.3	1850.0	8636.8	17855.5	17517.8	10595.9
80°	857.4	862.6	878.2	893.8	1075.7	1075.7	1049.7	4666.6	7800.1	7457.1	3580.5
82.5°	613.2	649.6	686.0	727.5	893.8	722.3	686.0	2078.6	2468.4	2348.9	1210.8
85°	239.0	291.0	452.1	498.9	566.4	389.7	457.3	899.0	1028.9	1018.5	452.1
87.5°	41.6	46.8	124.7	192.3	207.9	135.1	218.3	322.2	384.5	415.7	166.3
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°	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6
2.5°	4708.1	4547.0	4354.8	4162.5	4037.8	3840.3	3824.7	3705.2	3689.6	3648.0	3668.8
5°	4744.5	4552.2	4162.5	3855.9	3715.6	3601.2	3627.2	3575.3	3559.7	3533.7	3492.1
7.5°	5030.3	4651.0	4068.9	3803.9	3700.0	3648.0	3648.0	3585.7	3538.9	3570.1	3601.2
10°	5217.4	4697.7	4141.7	3876.7	3793.5	3679.2	3720.8	3642.8	3668.8	3606.4	3606.4
12.5°	5518.8	4962.8	4292.4	3985.8	3850.7	3746.8	3788.3	3700.0	3679.2	3684.4	3668.8
15°	5924.1	5139.4	4360.0	4048.2	3954.6	3824.7	3793.5	3715.6	3637.6	3611.6	3642.8
17.5°	6303.5	5357.7	4406.7	4084.5	3933.8	3788.3	3752.0	3653.2	3627.2	3549.3	3486.9
20°	6755.6	5617.5	4469.1	4115.7	3855.9	3710.4	3616.8	3518.1	3429.8	3383.0	3403.8
22.5°	7057.0	5752.6	4500.3	4053.4	3741.6	3606.4	3409.0	3341.4	3216.7	3164.7	3123.2
25°	7550.7	5918.9	4422.3	3881.9	3538.9	3320.6	3143.9	3050.4	2962.1	2894.5	2873.7
27.5°	7675.4	6043.7	4240.4	3590.9	3216.7	2988.0	2837.3	2723.0	2665.9	2561.9	2541.1
30°	8039.2	5918.9	3970.2	3237.5	2910.1	2676.3	2525.6	2442.4	2307.3	2281.3	2224.1
32.5°	8273.0	5955.3	3627.2	2894.5	2556.7	2348.9	2250.1	2167.0	2130.6	2005.9	1974.7
35°	8662.7	5830.6	3279.1	2577.5	2265.7	2104.6	2021.5	1995.5	1876.0	1818.8	1766.8
37.5°	8912.2	5757.8	2930.9	2219.0	1948.7	1881.2	1907.2	1798.0	1652.5	1543.4	1507.0
40°	9348.7	5731.9	2535.9	1922.7	1730.5	1714.9	1798.0	1590.2	1325.1	1231.6	1179.6
42.5°	9977.5	5555.2	2229.3	1657.7	1559.0	1626.5	1642.1	1325.1	1174.4	1096.5	1060.1
45°	10580.3	5591.5	1927.9	1371.9	1356.3	1455.1	1418.7	1122.5	1034.1	977.0	1008.1
47.5°	11739.1	5773.4	1631.7	1143.3	1221.2	1314.7	1101.7	1002.9	919.8	878.2	883.4
50°	13532.0	5950.1	1371.9	1044.5	1153.6	1190.0	945.8	909.4	904.2	821.1	815.9
52.5°	14607.7	5882.6	1325.1	1169.2	1236.8	1190.0	1028.9	1002.9	961.4	925.0	883.4
55°	16317.3	6080.0	1423.9	1366.7	1403.1	1143.3	1153.6	1143.3	1112.1	1018.5	1044.5
57.5°	17678.9	6209.9	1553.8	1527.8	1507.0	1190.0	1205.6	1210.8	1190.0	1148.5	1184.8
60°	19549.6	6469.8	1688.9	1694.1	1699.3	1294.0	1319.9	1351.1	1345.9	1330.3	1340.7
62.5°	20698.1	6350.3	1839.6	1922.7	1896.8	1507.0	1501.8	1522.6	1522.6	1548.6	1564.2
65°	20526.6	5908.5	1917.5	2125.4	1990.3	1662.9	1662.9	1673.3	1678.5	1730.5	1735.7
67°	19497.7	5118.7	1876.0	2156.6	1990.3	1725.3	1725.3	1735.7	1699.3	1834.4	1792.8
67.5°	19019.6	4884.8	1839.6	2130.6	1974.7	1720.1	1720.1	1725.3	1694.1	1824.0	1782.4
70°	16540.8	3627.2	1585.0	1886.4	1829.2	1673.3	1673.3	1642.1	1616.1	1787.6	1751.3
72.5°	14119.2	2634.7	1273.2	1605.8	1652.5	1610.9	1621.3	1543.4	1470.6	1590.2	1559.0
75°	10814.1	1938.3	992.6	1236.8	1397.9	1507.0	1574.6	1377.1	1283.6	1314.7	1257.6
77.5°	6033.3	1262.8	784.7	914.6	1065.3	1403.1	1512.2	1242.0	1049.7	1013.3	1013.3
80°	2047.5	737.9	576.8	680.8	732.7	1242.0	1413.5	1008.1	826.3	789.9	763.9
82.5°	774.3	452.1	394.9	467.7	467.7	982.2	1153.6	774.3	623.6	805.5	821.1
85°	353.4	270.2	259.8	270.2	270.2	602.8	815.9	504.1	561.2	483.3	426.1
87.5°	140.3	129.9	119.5	114.3	93.5	103.9	280.6	135.1	254.6	67.6	62.4
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)