

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: P481308

Luminaire Tested: **IFLD-L-SA8C-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481308
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

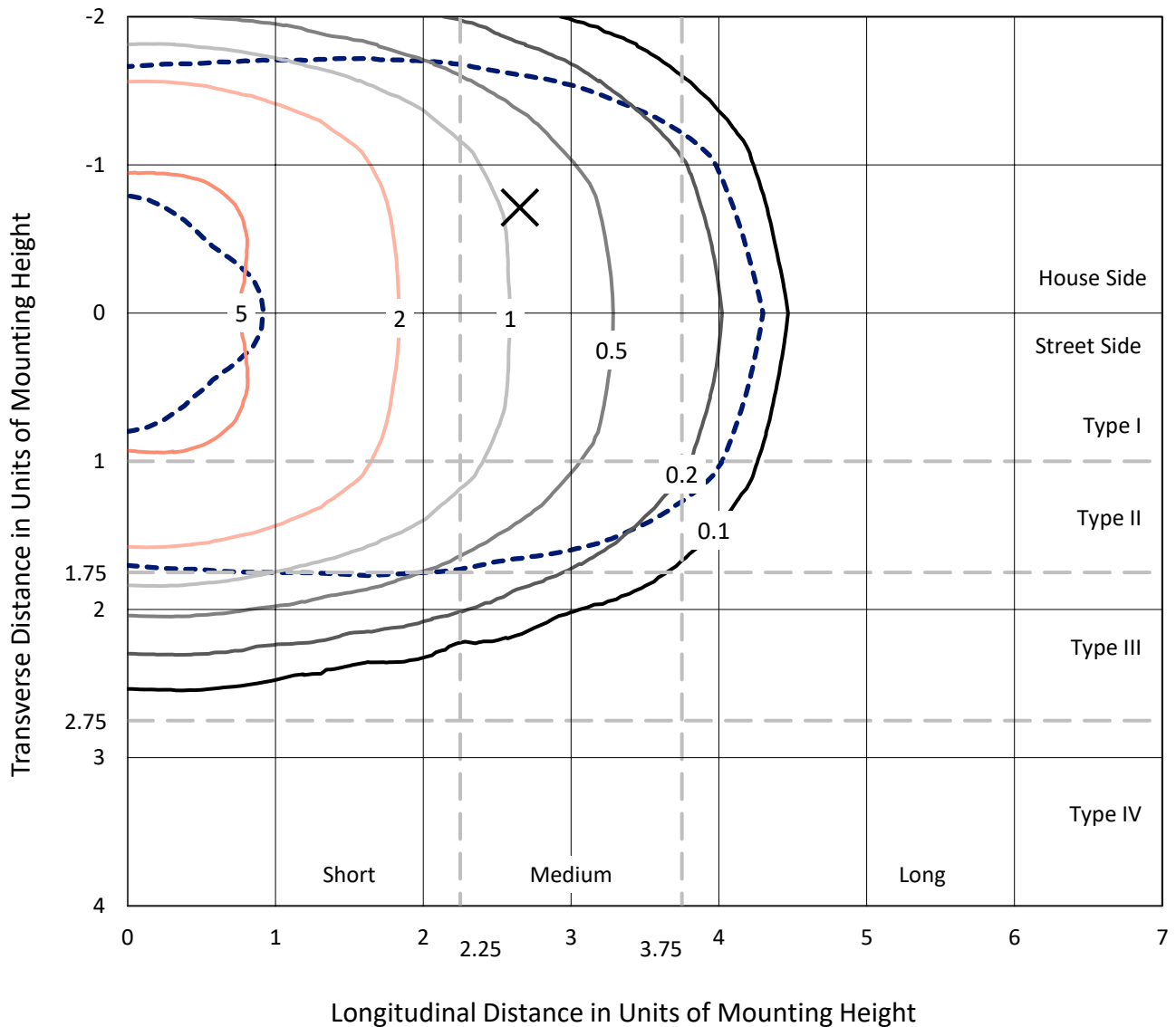
Lumens per Lamp: N/A
Luminaire Lumens: 52185.3 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

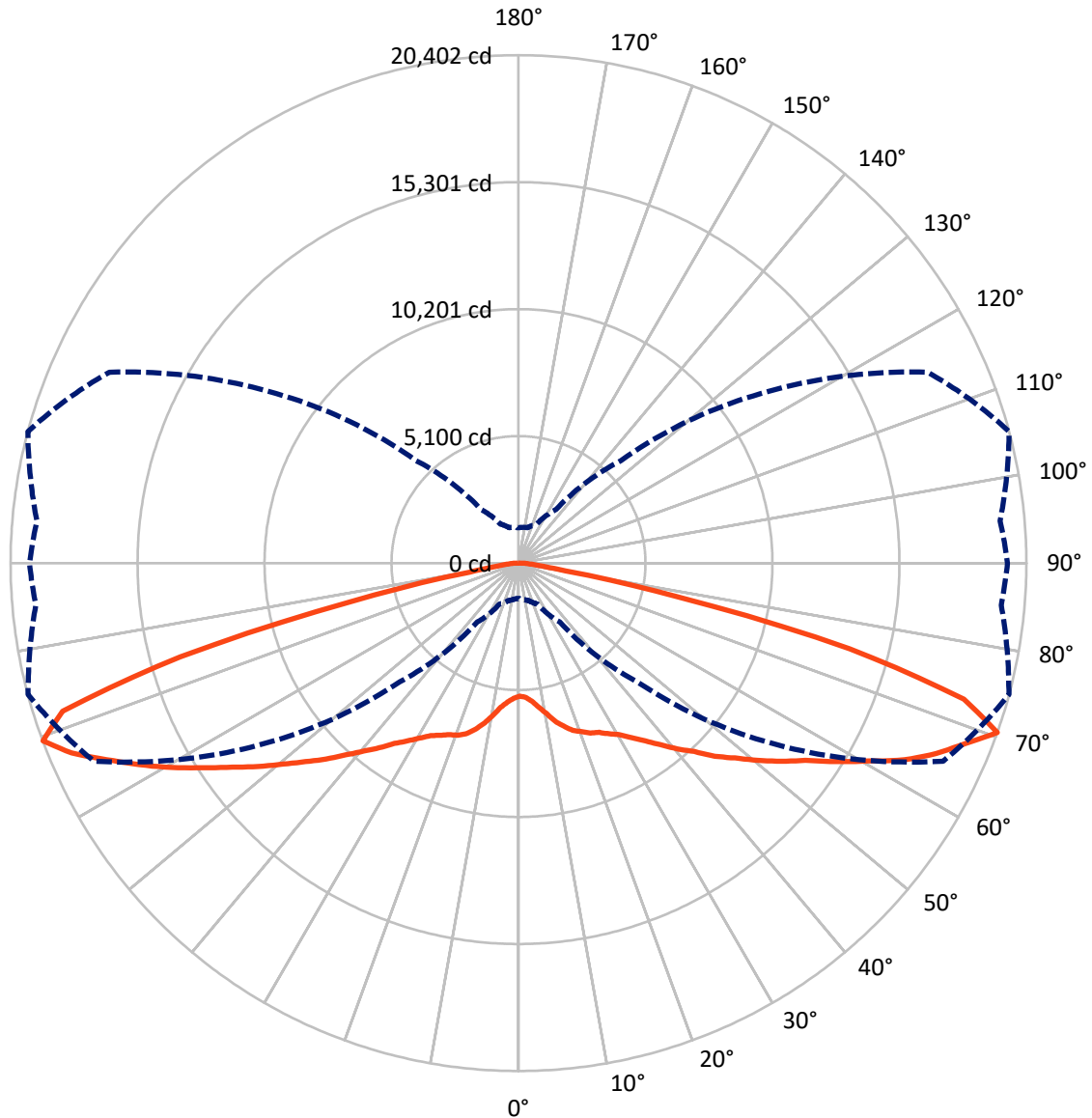
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25907.0	0.0	25907.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	26278.3	0.0	26278.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	52185.3	0.0	52185.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.9	1.0
10°-20°	1811.0	3.5
20°-30°	3506.7	6.7
30°-40°	5931.3	11.4
40°-50°	9462.2	18.1
50°-60°	12951.7	24.8
60°-70°	12207.9	23.4
70°-80°	5377.9	10.3
80°-90°	404.6	0.8
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°	52185.3	100.0
0°-180°	52185.3	100.0

Coefficient of Utilization



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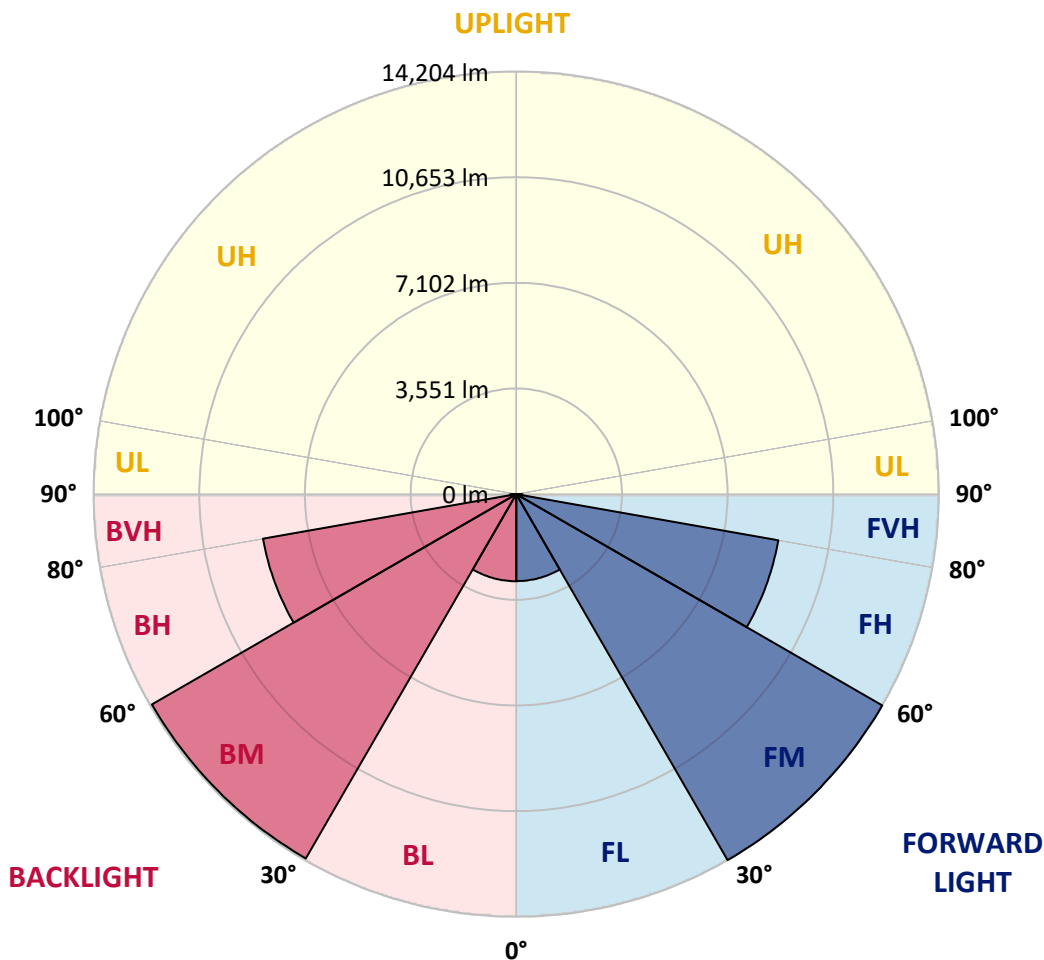
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2923.2	5.6			
FM (30°-60°)	14204.4	27.2			
FH (60°-80°)	8944.0	17.1			G4/12000
FVH (80°-90°)	206.7	0.4			G2/225
BL (0°-30°)	2926.4	5.6	B4/5000		
BM (30°-60°)	14140.9	27.1	B5		
BH (60°-80°)	8641.8	16.6	B5		G5
BVH (80°-90°)	197.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7
2.5°	5310.0	5310.0	5304.3	5332.5	5360.6	5371.8	5394.3	5400.0	5433.7	5405.6	5461.8
5°	5293.1	5287.5	5332.5	5400.0	5400.0	5473.1	5518.1	5580.0	5596.8	5630.6	5641.8
7.5°	5411.2	5400.0	5377.5	5450.6	5512.5	5625.0	5686.8	5793.7	5833.1	5878.1	5928.7
10°	5484.3	5484.3	5461.8	5591.2	5647.5	5799.3	5934.3	6041.2	6193.1	6243.7	6249.3
12.5°	5495.6	5512.5	5580.0	5748.7	5906.2	6103.1	6204.3	6406.8	6558.7	6654.3	6688.1
15°	5664.3	5630.6	5703.7	5934.3	6165.0	6339.3	6519.3	6665.6	6885.0	7008.7	7087.5
17.5°	5816.2	5782.5	5917.5	6193.1	6429.3	6699.3	6856.8	7014.3	7171.8	7284.3	7290.0
20°	6058.1	6086.2	6204.3	6502.5	6811.8	7048.1	7228.1	7256.2	7335.0	7498.1	7470.0
22.5°	6356.2	6333.7	6581.2	6907.5	7245.0	7441.8	7543.1	7470.0	7430.6	7605.0	7644.3
25°	6654.3	6721.8	6946.8	7250.6	7655.6	7920.0	7948.1	7745.6	7599.3	7661.2	7644.3
27.5°	7110.0	7121.2	7357.5	7717.5	8128.1	8358.7	8341.8	8055.0	7773.7	7779.3	7790.6
30°	7695.0	7638.7	7897.5	8223.7	8628.7	8836.8	8865.0	8454.3	8077.5	7965.0	7993.1
32.5°	8257.5	8325.0	8550.0	8921.2	9219.3	9337.4	9275.6	8910.0	8420.6	8268.7	8285.6
35°	8977.5	8966.2	9275.6	9590.6	9815.6	9838.1	9787.4	9253.1	8791.8	8595.0	8516.2
37.5°	9748.1	9849.3	10051.8	10310.6	10546.8	10558.1	10282.4	9854.9	9286.8	8960.6	9056.2
40°	10608.7	10721.2	10867.4	11244.3	11418.7	11238.7	10957.4	10378.1	9787.4	9500.6	9545.6
42.5°	11368.1	11418.7	11716.8	12161.2	12245.6	12166.8	11750.6	11047.4	10361.2	10046.2	10068.7
45°	12065.6	12133.1	12521.2	12920.6	13117.4	12982.4	12498.7	11829.3	11030.6	10760.6	10653.7
47.5°	12706.8	12841.8	13218.7	13629.3	13933.0	13944.3	13348.1	12538.1	11694.3	11339.9	11334.3
50°	13139.9	13336.8	13708.1	14174.9	14619.3	14793.7	14197.4	13325.6	12419.9	12043.1	12003.7
52.5°	13376.2	13578.7	13949.9	14675.5	15170.5	15440.5	15159.3	14062.4	13269.3	12875.6	12813.7
55°	13089.3	13224.3	13831.8	14849.9	15614.9	16059.3	15873.7	15080.5	14113.0	13792.4	13848.7
57.5°	11868.7	12149.9	12898.1	14169.3	15603.7	16694.9	16678.0	16042.4	15086.2	14782.4	14793.7
60°	9770.6	10006.8	10929.3	12706.8	14973.7	16953.7	17549.9	16976.2	16177.4	15823.0	15811.8
62.5°	6896.2	7194.3	8263.1	10203.7	13117.4	16593.7	18551.1	18151.8	17246.2	16987.4	17083.0
65°	3858.7	4038.7	5028.7	6783.7	9995.6	14613.7	18731.1	19372.4	18331.8	17938.0	17954.9
67.5°	2064.4	2131.9	2593.1	3560.6	6114.3	11266.8	16914.3	20075.5	19507.4	18826.8	18719.9
70°	1417.5	1440.0	1558.1	1822.5	2891.2	6738.7	12757.4	18821.1	20390.5	19462.4	19642.4
72.5°	1198.1	1186.9	1215.0	1243.1	1513.1	3015.0	7486.8	14484.3	19248.6	18899.9	18832.4
75°	1040.6	1035.0	1046.2	1018.1	1051.9	1327.5	3313.1	9028.1	14090.5	15727.4	15980.5
77.5°	860.6	866.2	871.9	843.7	832.5	877.5	1333.1	3965.6	6935.6	7655.6	8257.5
80°	652.5	663.7	708.7	680.6	635.6	641.2	787.5	1327.5	1991.2	1805.6	1861.9
82.5°	444.4	450.0	545.6	511.9	478.1	433.1	506.2	686.2	776.2	590.6	517.5
85°	315.0	309.4	354.4	326.2	303.7	219.4	303.7	388.1	466.9	292.5	264.4
87.5°	73.1	73.1	146.2	118.1	112.5	90.0	118.1	151.9	202.5	129.4	118.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7	5343.7
2.5°	5445.0	5394.3	5394.3	5383.1	5338.1	5326.8	5287.5	5298.7	5270.6	5242.5
5°	5636.2	5568.7	5568.7	5473.1	5383.1	5371.8	5326.8	5326.8	5281.8	5293.1
7.5°	5900.6	5838.7	5737.5	5653.1	5529.3	5478.7	5394.3	5383.1	5371.8	5349.3
10°	6215.6	6136.8	6035.6	5861.2	5760.0	5664.3	5580.0	5461.8	5433.7	5439.3
12.5°	6643.1	6519.3	6300.0	6148.1	6018.7	5895.0	5771.2	5596.8	5557.5	5574.3
15°	6946.8	6789.3	6570.0	6513.7	6339.3	6187.5	5985.0	5788.1	5720.6	5703.7
17.5°	7194.3	7065.0	6935.6	6851.2	6710.6	6525.0	6243.7	6018.7	5866.8	5850.0
20°	7396.8	7228.1	7200.0	7250.6	7076.2	6952.5	6609.3	6333.7	6131.2	6046.8
22.5°	7520.6	7413.7	7492.5	7537.5	7526.2	7318.1	6963.7	6643.1	6390.0	6311.2
25°	7655.6	7531.8	7813.1	7965.0	8004.3	7661.2	7385.6	6963.7	6716.2	6665.6
27.5°	7723.1	7768.1	8094.3	8415.0	8386.8	8122.5	7751.2	7374.3	7177.5	7087.5
30°	7920.0	7993.1	8488.1	8848.1	8853.7	8595.0	8313.7	7886.2	7666.8	7627.5
32.5°	8274.3	8364.3	8893.1	9275.6	9343.1	9146.2	8865.0	8600.6	8375.6	8285.6
35°	8544.3	8775.0	9371.2	9719.9	9899.9	9781.8	9624.3	9348.7	9112.5	9033.7
37.5°	8932.5	9253.1	9826.8	10299.3	10501.8	10490.6	10372.4	10074.3	9877.4	9809.9
40°	9489.3	9809.9	10333.1	10957.4	11334.3	11317.4	11249.9	11019.3	10726.8	10693.1
42.5°	10079.9	10344.3	11024.9	11739.3	12279.3	12223.1	12043.1	11773.1	11570.6	11525.6
45°	10653.7	11064.3	11694.3	12611.2	13016.2	13156.8	12943.1	12481.8	12251.2	12223.1
47.5°	11373.7	11699.9	12487.4	13308.7	13910.5	13933.0	13567.4	13139.9	12718.1	12808.1
50°	12014.9	12448.1	13246.8	14146.8	14866.8	14608.0	14141.2	13606.8	13303.1	13184.9
52.5°	12701.2	13229.9	14158.0	15074.9	15474.3	15215.5	14456.2	13859.9	13398.7	13348.1
55°	13702.4	13978.0	15193.0	15896.2	16025.5	15479.9	14360.5	13516.8	12920.6	12774.3
57.5°	14720.5	15041.2	16104.3	16711.8	16576.8	15333.7	13741.8	12436.8	11654.9	11446.8
60°	15749.9	16143.7	17038.0	17594.9	16897.4	14326.8	11992.4	10310.6	9399.3	9213.7
62.5°	16897.4	17409.3	18208.0	18404.9	15946.8	12335.6	9517.4	7441.8	6519.3	6210.0
65°	17915.5	18438.6	19423.0	18236.2	13927.4	9202.5	6153.7	4252.5	3571.9	3324.4
67.5°	18753.6	19344.3	19828.0	16138.0	10198.1	5388.7	3206.2	2238.7	1985.6	1895.6
70°	19417.4	20401.8	18140.5	11863.1	5827.5	2626.9	1732.5	1473.7	1440.0	1417.5
72.5°	18838.0	18708.6	13544.9	6845.6	2553.7	1445.6	1254.4	1215.0	1209.4	1215.0
75°	15406.8	13741.8	8100.0	2975.6	1282.5	1046.2	1040.6	1023.7	1051.9	1051.9
77.5°	7475.6	6536.2	3386.2	1276.9	843.7	821.2	849.4	849.4	849.4	849.4
80°	1732.5	1918.1	1209.4	776.2	613.1	613.1	675.0	680.6	652.5	641.2
82.5°	590.6	787.5	663.7	489.4	405.0	455.6	511.9	523.1	433.1	438.7
85°	292.5	461.2	360.0	281.2	208.1	281.2	331.9	348.7	298.1	286.9
87.5°	135.0	202.5	135.0	95.6	73.1	101.2	95.6	78.7	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)