

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: P481386

Luminaire Tested: **IFLD-L-SA8C-760-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481386
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-760-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

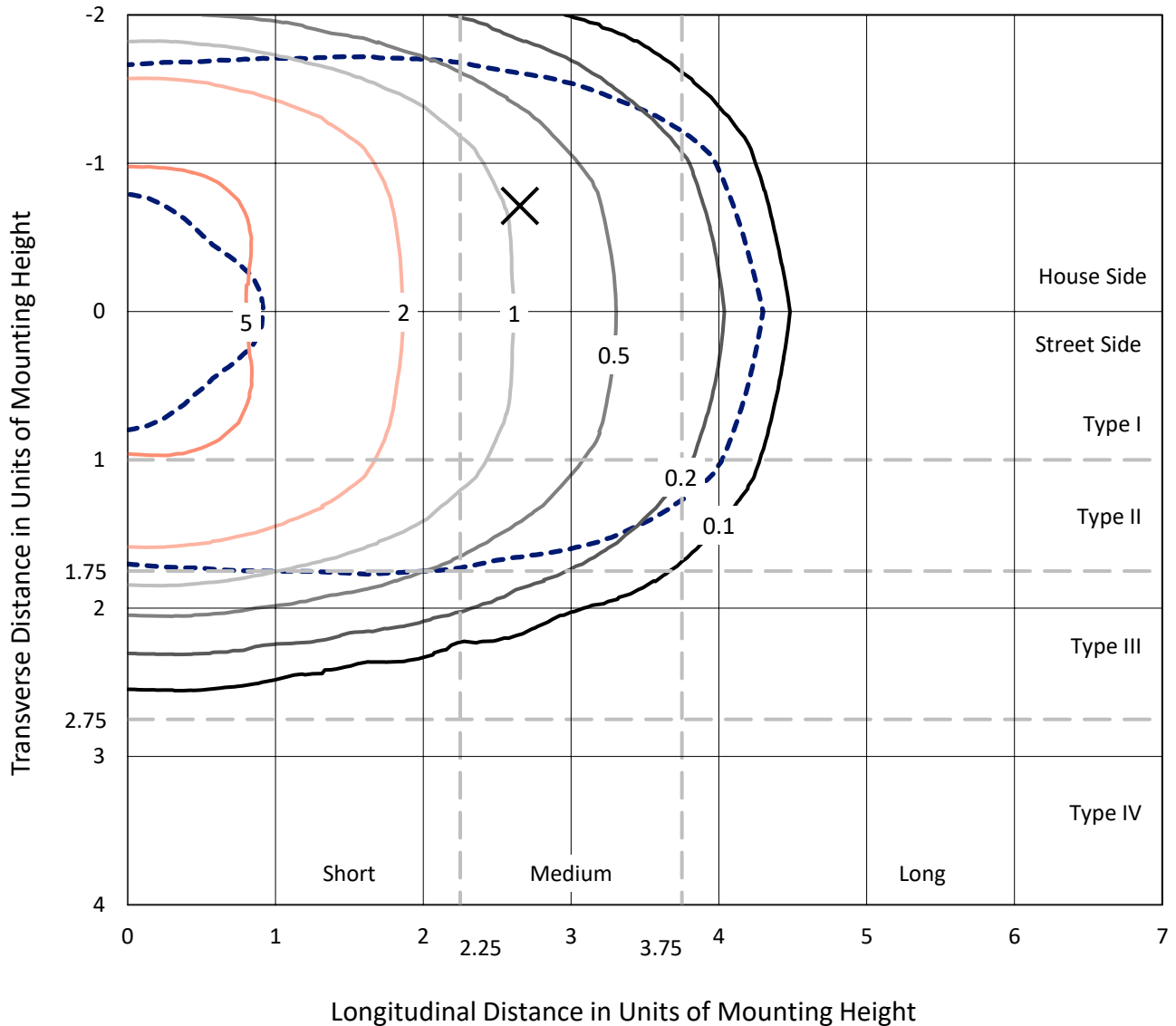
Lumens per Lamp: N/A
Luminaire Lumens: 53380.3 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

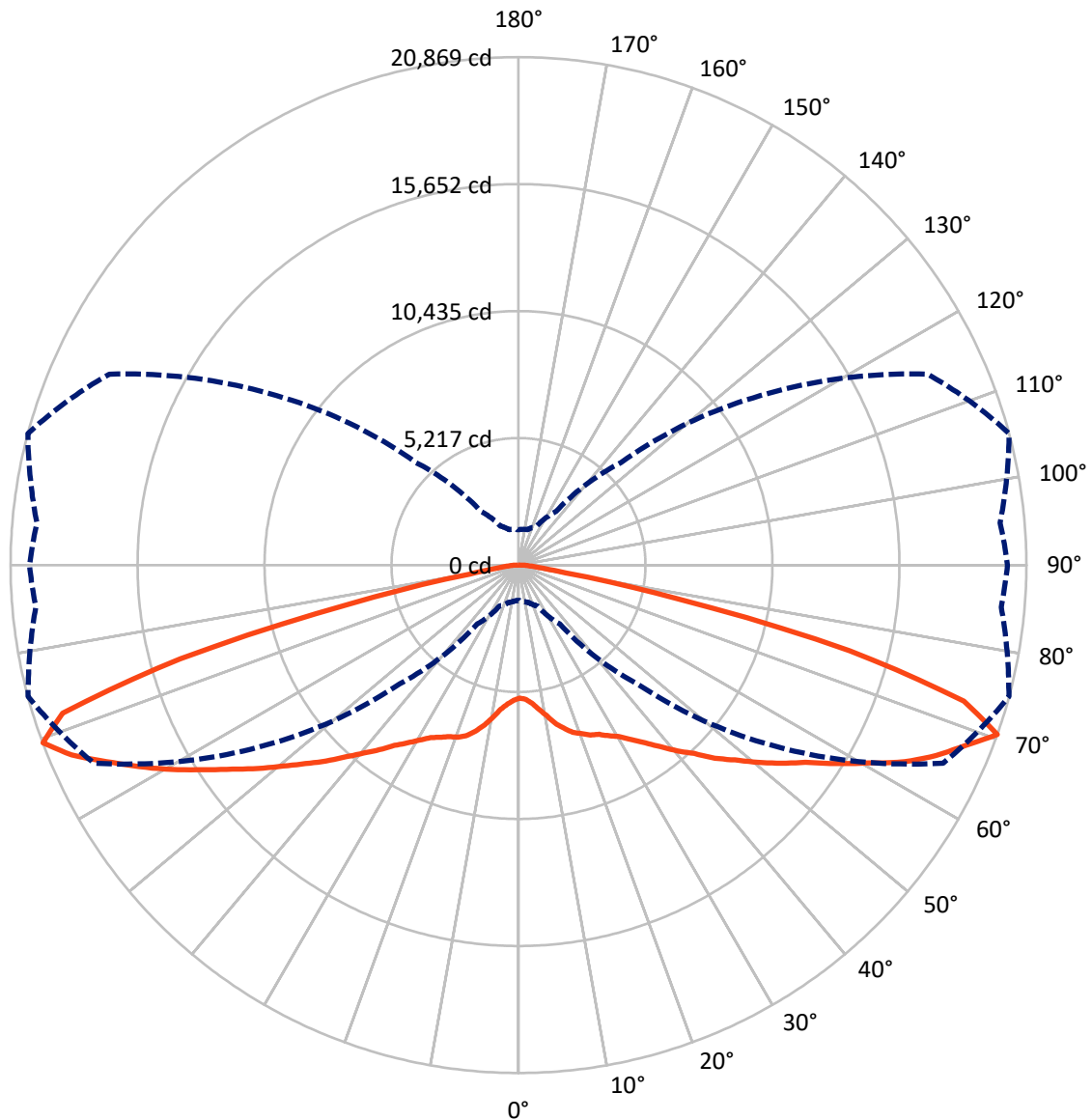
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	26500.3	0.0	26500.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	26880.0	0.0	26880.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	53380.3	0.0	53380.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.1	1.0
10°-20°	1852.5	3.5
20°-30°	3587.0	6.7
30°-40°	6067.2	11.4
40°-50°	9678.9	18.1
50°-60°	13248.3	24.8
60°-70°	12487.4	23.4
70°-80°	5501.1	10.3
80°-90°	413.9	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°	53380.3	100.0
0°-180°	53380.3	100.0

Coefficient of Utilization

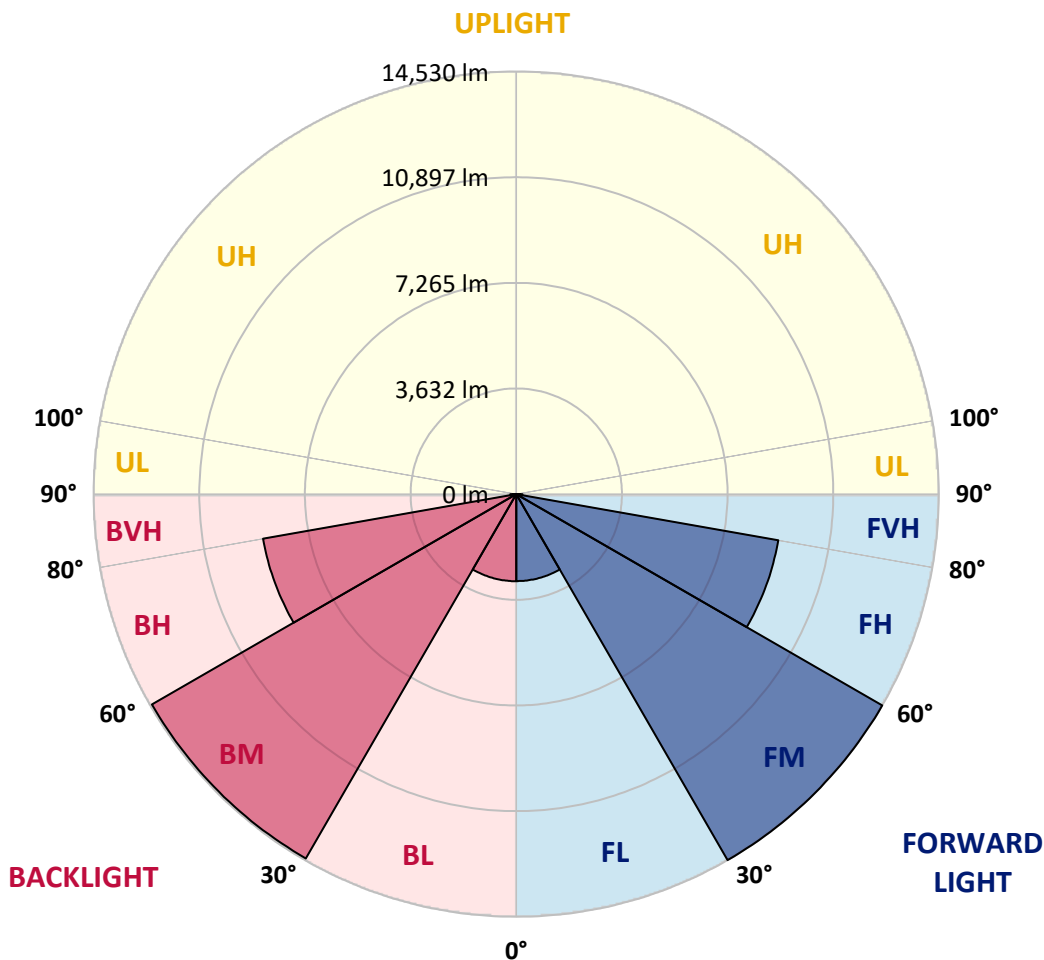


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2990.2	5.6			
FM (30°-60°)	14529.6	27.2			
FH (60°-80°)	9148.8	17.1			G4/12000
FVH (80°-90°)	211.4	0.4			G2/225
BL (0°-30°)	2993.4	5.6	B4/5000		
BM (30°-60°)	14464.7	27.1	B5		
BH (60°-80°)	8839.7	16.6	B5		G5
BVH (80°-90°)	202.5	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°	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1
2.5°	5431.6	5431.6	5425.8	5454.6	5483.4	5494.9	5517.9	5523.6	5558.2	5529.4	5586.9
5°	5414.3	5408.6	5454.6	5523.6	5523.6	5598.4	5644.5	5707.8	5725.0	5759.5	5771.0
7.5°	5535.1	5523.6	5500.6	5575.4	5638.7	5753.8	5817.1	5926.4	5966.7	6012.7	6064.5
10°	5609.9	5609.9	5586.9	5719.3	5776.8	5932.1	6070.2	6179.6	6334.9	6386.7	6392.5
12.5°	5621.4	5638.7	5707.8	5880.4	6041.5	6242.9	6346.4	6553.6	6708.9	6806.7	6841.2
15°	5794.1	5759.5	5834.3	6070.2	6306.1	6484.5	6668.6	6818.2	7042.6	7169.2	7249.8
17.5°	5949.4	5914.9	6053.0	6334.9	6576.6	6852.8	7013.9	7175.0	7336.1	7451.1	7456.9
20°	6196.8	6225.6	6346.4	6651.4	6967.8	7209.5	7393.6	7422.4	7502.9	7669.8	7641.0
22.5°	6501.8	6478.8	6731.9	7065.6	7410.9	7612.3	7715.8	7641.0	7600.7	7779.1	7819.4
25°	6806.7	6875.8	7105.9	7416.6	7830.9	8101.3	8130.1	7923.0	7773.4	7836.7	7819.4
27.5°	7272.8	7284.3	7525.9	7894.2	8314.2	8550.1	8532.9	8239.4	7951.7	7957.5	7969.0
30°	7871.2	7813.6	8078.3	8412.0	8826.3	9039.2	9068.0	8647.9	8262.4	8147.4	8176.1
32.5°	8446.6	8515.6	8745.7	9125.5	9430.4	9551.3	9488.0	9114.0	8613.4	8458.1	8475.3
35°	9183.0	9171.5	9488.0	9810.2	10040.3	10063.4	10011.6	9465.0	8993.2	8791.8	8711.2
37.5°	9971.3	10074.9	10282.0	10546.7	10788.3	10799.8	10517.9	10080.6	9499.5	9165.8	9263.6
40°	10851.6	10966.7	11116.3	11501.8	11680.2	11496.1	11208.4	10615.7	10011.6	9718.1	9764.2
42.5°	11628.4	11680.2	11985.1	12439.7	12526.0	12445.4	12019.6	11300.4	10598.5	10276.3	10299.3
45°	12341.9	12410.9	12807.9	13216.4	13417.8	13279.7	12784.9	12100.2	11283.2	11007.0	10897.7
47.5°	12997.8	13135.9	13521.4	13941.4	14252.1	14263.6	13653.7	12825.2	11962.1	11599.6	11593.9
50°	13440.8	13642.2	14022.0	14499.5	14954.1	15132.4	14522.5	13630.7	12704.3	12318.8	12278.6
52.5°	13682.5	13889.6	14269.4	15011.6	15517.9	15794.1	15506.4	14384.5	13573.2	13170.4	13107.1
55°	13389.0	13527.1	14148.5	15190.0	15972.5	16427.0	16237.2	15425.9	14436.2	14108.3	14165.8
57.5°	12140.5	12428.2	13193.4	14493.8	15961.0	17077.2	17060.0	16409.8	15431.6	15120.9	15132.4
60°	9994.3	10236.0	11179.6	12997.8	15316.6	17341.9	17951.8	17364.9	16547.9	16185.4	16173.9
62.5°	7054.1	7359.1	8452.3	10437.4	13417.8	16973.7	18976.0	18567.5	17641.1	17376.4	17474.2
65°	3947.1	4131.2	5143.9	6939.1	10224.5	14948.3	19160.1	19816.0	18751.6	18348.8	18366.1
67.5°	2111.6	2180.7	2652.5	3642.1	6254.4	11524.8	17301.6	20535.2	19954.1	19257.9	19148.6
70°	1450.0	1473.0	1593.8	1864.2	2957.4	6893.0	13049.6	19252.2	20857.5	19908.1	20092.2
72.5°	1225.6	1214.0	1242.8	1271.6	1547.8	3084.0	7658.3	14816.0	19689.4	19332.7	19263.7
75°	1064.4	1058.7	1070.2	1041.4	1076.0	1357.9	3389.0	9234.8	14413.2	16087.6	16346.5
77.5°	880.3	886.1	891.8	863.1	851.6	897.6	1363.6	4056.4	7094.4	7830.9	8446.6
80°	667.4	678.9	725.0	696.2	650.2	655.9	805.5	1357.9	2036.8	1847.0	1904.5
82.5°	454.5	460.3	558.1	523.6	489.1	443.0	517.8	702.0	794.0	604.1	529.3
85°	322.2	316.5	362.5	333.7	310.7	224.4	310.7	397.0	477.6	299.2	270.4
87.5°	74.8	74.8	149.6	120.8	115.1	92.1	120.8	155.4	207.1	132.3	120.8
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°	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1	5466.1
2.5°	5569.7	5517.9	5517.9	5506.4	5460.3	5448.8	5408.6	5420.1	5391.3	5362.5
5°	5765.3	5696.2	5696.2	5598.4	5506.4	5494.9	5448.8	5448.8	5402.8	5414.3
7.5°	6035.7	5972.4	5868.9	5782.6	5656.0	5604.2	5517.9	5506.4	5494.9	5471.8
10°	6357.9	6277.4	6173.8	5995.4	5891.9	5794.1	5707.8	5586.9	5558.2	5563.9
12.5°	6795.2	6668.6	6444.2	6288.9	6156.5	6030.0	5903.4	5725.0	5684.7	5702.0
15°	7105.9	6944.8	6720.4	6662.9	6484.5	6329.2	6122.0	5920.6	5851.6	5834.3
17.5°	7359.1	7226.7	7094.4	7008.1	6864.3	6674.4	6386.7	6156.5	6001.2	5983.9
20°	7566.2	7393.6	7364.8	7416.6	7238.3	7111.7	6760.7	6478.8	6271.6	6185.3
22.5°	7692.8	7583.5	7664.0	7710.1	7698.6	7485.7	7123.2	6795.2	6536.3	6455.7
25°	7830.9	7704.3	7992.0	8147.4	8187.6	7836.7	7554.7	7123.2	6870.0	6818.2
27.5°	7899.9	7946.0	8279.7	8607.7	8578.9	8308.5	7928.7	7543.2	7341.8	7249.8
30°	8101.3	8176.1	8682.5	9050.7	9056.5	8791.8	8504.1	8066.8	7842.4	7802.1
32.5°	8463.8	8555.9	9096.7	9488.0	9557.0	9355.6	9068.0	8797.5	8567.4	8475.3
35°	8740.0	8975.9	9585.8	9942.5	10126.7	10005.8	9844.7	9562.8	9321.1	9240.6
37.5°	9137.0	9465.0	10051.9	10535.2	10742.3	10730.8	10610.0	10305.0	10103.6	10034.6
40°	9706.6	10034.6	10569.7	11208.4	11593.9	11576.6	11507.6	11271.7	10972.5	10937.9
42.5°	10310.8	10581.2	11277.4	12008.1	12560.5	12503.0	12318.8	12042.7	11835.5	11789.5
45°	10897.7	11317.7	11962.1	12900.0	13314.2	13458.1	13239.5	12767.6	12531.7	12503.0
47.5°	11634.1	11967.9	12773.4	13613.4	14229.1	14252.1	13878.1	13440.8	13009.3	13101.4
50°	12290.1	12733.1	13550.2	14470.8	15207.2	14942.6	14465.0	13918.4	13607.7	13486.9
52.5°	12992.0	13532.9	14482.3	15420.1	15828.7	15564.0	14787.2	14177.3	13705.5	13653.7
55°	14016.2	14298.1	15541.0	16260.2	16392.5	15834.4	14689.4	13826.3	13216.4	13066.8
57.5°	15057.6	15385.6	16473.1	17094.5	16956.4	15684.8	14056.5	12721.6	11921.8	11708.9
60°	16110.6	16513.4	17428.2	17997.8	17284.4	14654.9	12267.1	10546.7	9614.6	9424.7
62.5°	17284.4	17808.0	18625.0	18826.4	16312.0	12618.0	9735.4	7612.3	6668.6	6352.2
65°	18325.8	18860.9	19867.8	18653.8	14246.4	9413.2	6294.6	4349.9	3653.7	3400.5
67.5°	19183.1	19787.3	20282.1	16507.6	10431.6	5512.1	3279.7	2290.0	2031.1	1939.0
70°	19862.1	20869.0	18555.9	12134.7	5960.9	2687.0	1772.2	1507.5	1473.0	1450.0
72.5°	19269.4	19137.1	13855.1	7002.4	2612.2	1478.7	1283.1	1242.8	1237.1	1242.8
75°	15759.6	14056.5	8285.4	3043.8	1311.9	1070.2	1064.4	1047.2	1076.0	1076.0
77.5°	7646.8	6685.9	3463.8	1306.1	863.1	840.1	868.8	868.8	868.8	868.8
80°	1772.2	1962.0	1237.1	794.0	627.2	627.2	690.5	696.2	667.4	655.9
82.5°	604.1	805.5	678.9	500.6	414.3	466.1	523.6	535.1	443.0	448.8
85°	299.2	471.8	368.2	287.7	212.9	287.7	339.5	356.7	305.0	293.4
87.5°	138.1	207.1	138.1	97.8	74.8	103.6	97.8	80.6	46.0	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)