

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: P481303

Luminaire Tested: **IFLD-L-SA7C-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481303
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

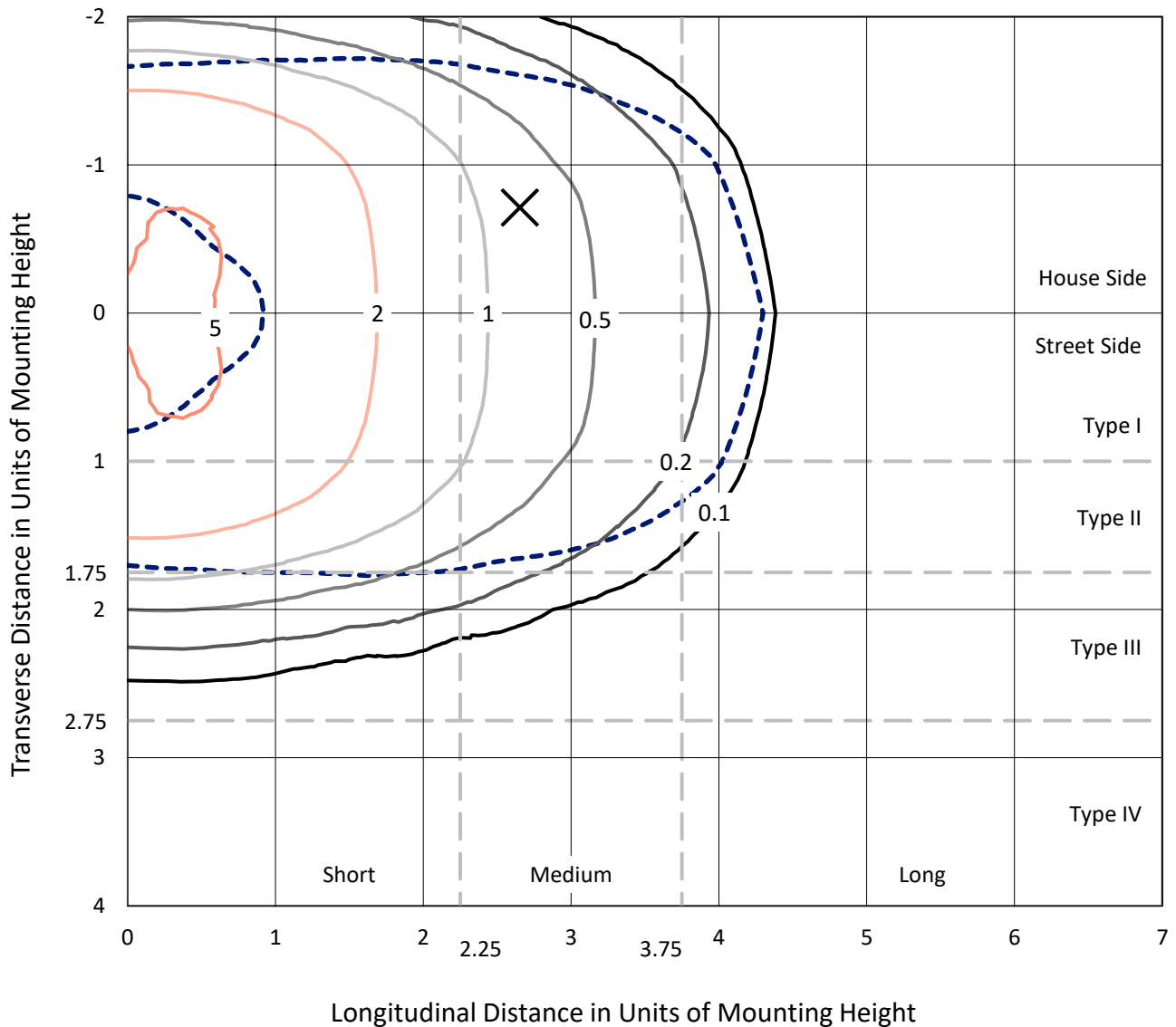
Lumens per Lamp: N/A
Luminaire Lumens: 45662 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 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

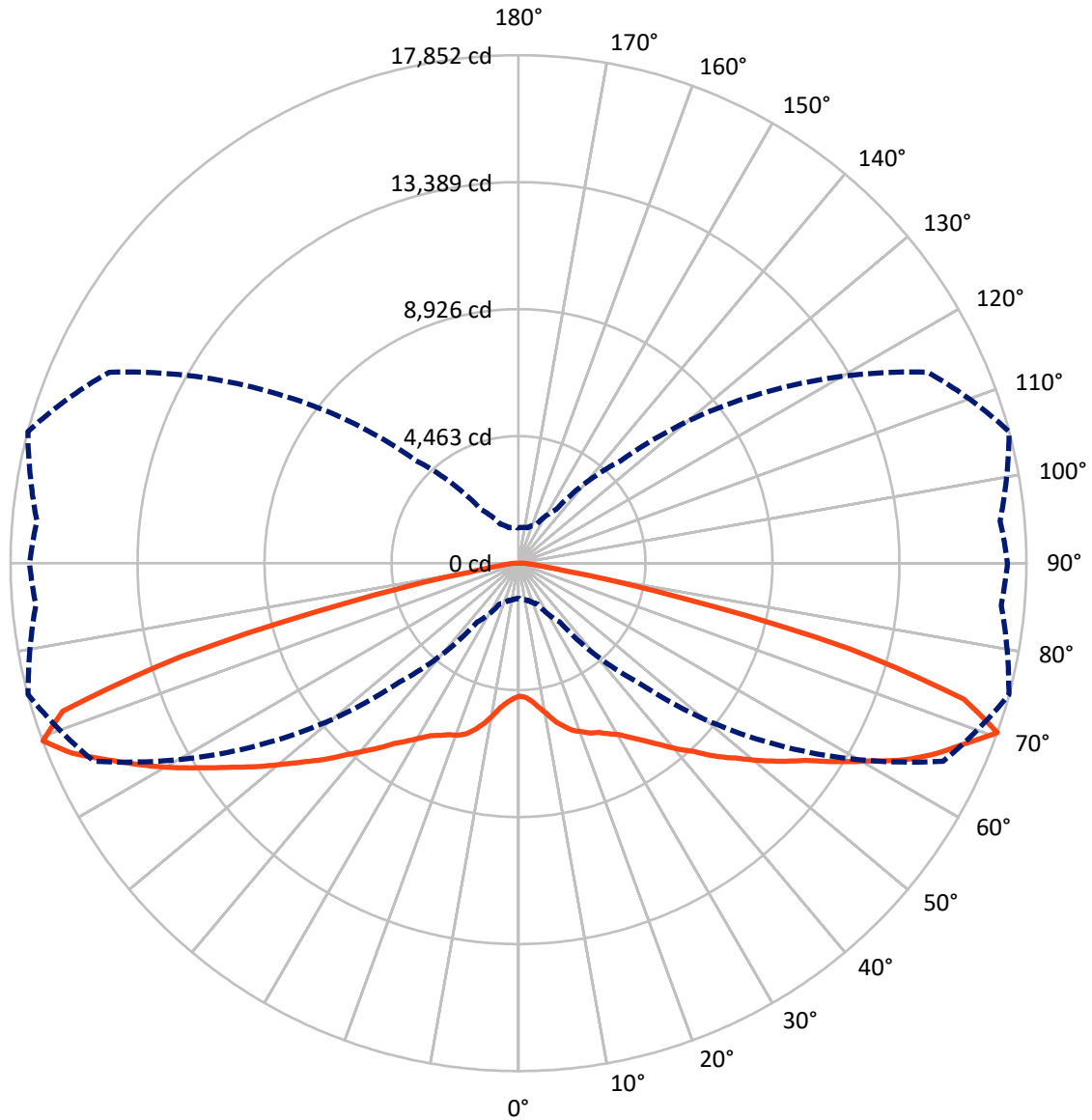
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	22668.6	0.0	22668.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	22993.4	0.0	22993.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	45662.0	0.0	45662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.4	1.0
10°-20°	1584.6	3.5
20°-30°	3068.4	6.7
30°-40°	5189.9	11.4
40°-50°	8279.4	18.1
50°-60°	11332.7	24.8
60°-70°	10681.8	23.4
70°-80°	4705.7	10.3
80°-90°	354.1	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°	45662.0	100.0
0°-180°	45662.0	100.0

Coefficient of Utilization



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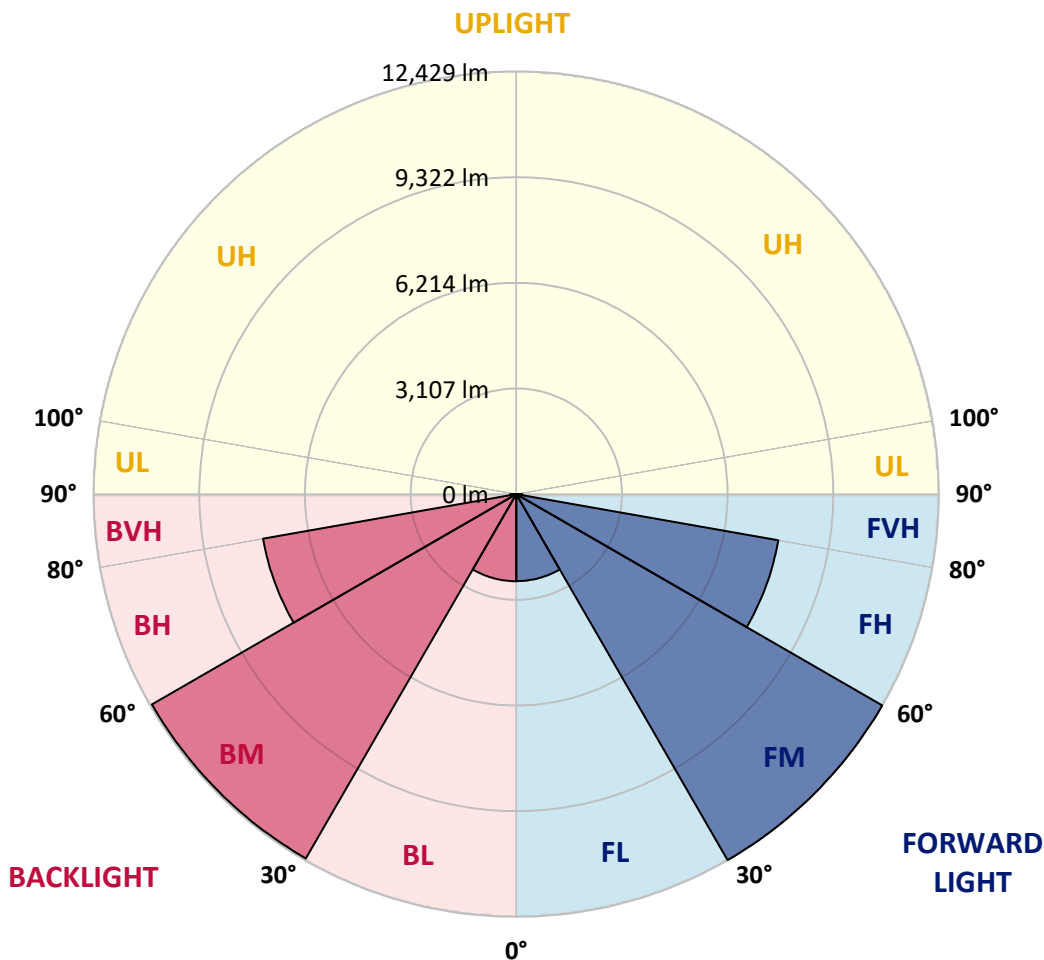
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2557.8	5.6			
FM (30°-60°)	12428.8	27.2			
FH (60°-80°)	7826.0	17.1			G4/12000
FVH (80°-90°)	180.9	0.4			G2/225
BL (0°-30°)	2560.6	5.6	B4/5000		
BM (30°-60°)	12373.2	27.1	B5		
BH (60°-80°)	7561.5	16.6	B5		G5
BVH (80°-90°)	173.2	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°	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7
2.5°	4646.2	4646.2	4641.3	4665.9	4690.5	4700.4	4720.0	4725.0	4754.5	4729.9	4779.1
5°	4631.4	4626.5	4665.9	4725.0	4725.0	4788.9	4828.3	4882.5	4897.2	4926.8	4936.6
7.5°	4734.8	4725.0	4705.3	4769.3	4823.4	4921.8	4976.0	5069.5	5103.9	5143.3	5187.6
10°	4798.8	4798.8	4779.1	4892.3	4941.5	5074.4	5192.5	5286.1	5418.9	5463.2	5468.2
12.5°	4808.6	4823.4	4882.5	5030.1	5167.9	5340.2	5428.8	5606.0	5738.9	5822.5	5852.1
15°	4956.3	4926.8	4990.7	5192.5	5394.3	5546.9	5704.4	5832.4	6024.3	6132.6	6201.5
17.5°	5089.2	5059.6	5177.8	5418.9	5625.7	5861.9	5999.7	6137.5	6275.3	6373.8	6378.7
20°	5300.8	5325.4	5428.8	5689.6	5960.3	6167.1	6324.6	6349.2	6418.1	6560.8	6536.2
22.5°	5561.7	5542.0	5758.5	6044.0	6339.3	6511.6	6600.2	6536.2	6501.7	6654.3	6688.8
25°	5822.5	5881.6	6078.5	6344.2	6698.6	6929.9	6954.6	6777.4	6649.4	6703.5	6688.8
27.5°	6221.2	6231.0	6437.8	6752.8	7112.1	7313.8	7299.1	7048.1	6802.0	6806.9	6816.7
30°	6733.1	6683.9	6910.3	7195.7	7550.1	7732.2	7756.8	7397.5	7067.8	6969.3	6993.9
32.5°	7225.3	7284.3	7481.2	7806.0	8066.9	8170.2	8116.1	7796.2	7368.0	7235.1	7249.9
35°	7855.2	7845.4	8116.1	8391.7	8588.6	8608.3	8564.0	8096.4	7692.8	7520.6	7451.7
37.5°	8529.5	8618.1	8795.3	9021.7	9228.4	9238.3	8997.1	8623.1	8125.9	7840.5	7924.2
40°	9282.6	9381.0	9509.0	9838.7	9991.3	9833.8	9587.7	9080.8	8564.0	8313.0	8352.4
42.5°	9947.0	9991.3	10252.2	10641.0	10714.8	10645.9	10281.7	9666.5	9066.0	8790.4	8810.1
45°	10557.3	10616.4	10956.0	11305.5	11477.7	11359.6	10936.3	10350.6	9651.7	9415.5	9322.0
47.5°	11118.4	11236.5	11566.3	11925.6	12191.4	12201.2	11679.5	10970.8	10232.5	9922.4	9917.5
50°	11497.4	11669.7	11994.5	12403.0	12791.8	12944.4	12422.7	11659.8	10867.4	10537.6	10503.2
52.5°	11704.1	11881.3	12206.2	12841.1	13274.2	13510.4	13264.3	12304.6	11610.6	11266.1	11211.9
55°	11453.1	11571.2	12102.8	12993.6	13663.0	14051.8	13889.4	13195.4	12348.9	12068.3	12117.6
57.5°	10385.1	10631.2	11285.8	12398.1	13653.2	14608.0	14593.2	14037.1	13200.4	12934.6	12944.4
60°	8549.2	8755.9	9563.1	11118.4	13101.9	14834.4	15356.1	14854.1	14155.2	13845.1	13835.3
62.5°	6034.2	6295.0	7230.2	8928.2	11477.7	14519.4	16232.2	15882.8	15090.3	14863.9	14947.6
65°	3376.4	3533.9	4400.1	5935.7	8746.1	12786.9	16389.7	16950.8	16040.3	15695.7	15710.5
67.5°	1806.3	1865.4	2269.0	3115.5	5350.0	9858.4	14800.0	17566.0	17068.9	16473.4	16379.9
70°	1240.3	1260.0	1363.3	1594.7	2529.8	5896.4	11162.7	16468.5	17841.7	17029.5	17187.0
72.5°	1048.4	1038.5	1063.1	1087.7	1324.0	2638.1	6551.0	12673.7	16842.5	16537.4	16478.3
75°	910.5	905.6	915.5	890.9	920.4	1161.6	2899.0	7899.5	12329.2	13761.4	13982.9
77.5°	753.0	758.0	762.9	738.3	728.4	767.8	1166.5	3469.9	6068.6	6698.6	7225.3
80°	570.9	580.8	620.2	595.5	556.2	561.1	689.1	1161.6	1742.3	1579.9	1629.1
82.5°	388.8	393.7	477.4	447.9	418.4	379.0	443.0	600.5	679.2	516.8	452.8
85°	275.6	270.7	310.1	285.5	265.8	192.0	265.8	339.6	408.5	255.9	231.3
87.5°	64.0	64.0	128.0	103.4	98.4	78.7	103.4	132.9	177.2	113.2	103.4
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°	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7
2.5°	4764.3	4720.0	4720.0	4710.2	4670.8	4661.0	4626.5	4636.4	4611.8	4587.1
5°	4931.7	4872.6	4872.6	4788.9	4710.2	4700.4	4661.0	4661.0	4621.6	4631.4
7.5°	5163.0	5108.9	5020.3	4946.4	4838.2	4793.9	4720.0	4710.2	4700.4	4680.7
10°	5438.6	5369.7	5281.1	5128.6	5040.0	4956.3	4882.5	4779.1	4754.5	4759.4
12.5°	5812.7	5704.4	5512.5	5379.6	5266.4	5158.1	5049.8	4897.2	4862.8	4877.5
15°	6078.5	5940.7	5748.7	5699.5	5546.9	5414.0	5236.8	5064.6	5005.5	4990.7
17.5°	6295.0	6181.8	6068.6	5994.8	5871.7	5709.3	5463.2	5266.4	5133.5	5118.7
20°	6472.2	6324.6	6299.9	6344.2	6191.7	6083.4	5783.2	5542.0	5364.8	5291.0
22.5°	6580.5	6487.0	6555.9	6595.3	6585.4	6403.3	6093.2	5812.7	5591.2	5522.3
25°	6698.6	6590.3	6836.4	6969.3	7003.8	6703.5	6462.4	6093.2	5876.7	5832.4
27.5°	6757.7	6797.1	7082.5	7363.1	7338.5	7107.1	6782.3	6452.5	6280.3	6201.5
30°	6929.9	6993.9	7427.0	7742.0	7747.0	7520.6	7274.5	6900.4	6708.5	6674.0
32.5°	7240.0	7318.8	7781.4	8116.1	8175.2	8002.9	7756.8	7525.5	7328.6	7249.9
35°	7476.3	7678.1	8199.8	8504.9	8662.4	8559.1	8421.3	8180.1	7973.4	7904.5
37.5°	7815.9	8096.4	8598.4	9011.9	9189.1	9179.2	9075.9	8815.0	8642.7	8583.7
40°	8303.1	8583.7	9041.4	9587.7	9917.5	9902.7	9843.7	9641.9	9385.9	9356.4
42.5°	8819.9	9051.3	9646.8	10271.9	10744.4	10695.1	10537.6	10301.4	10124.2	10084.8
45°	9322.0	9681.2	10232.5	11034.8	11389.1	11512.2	11325.1	10921.6	10719.8	10695.1
47.5°	9951.9	10237.4	10926.5	11645.1	12171.7	12191.4	11871.5	11497.4	11128.3	11207.0
50°	10513.0	10892.0	11590.9	12378.4	13008.4	12782.0	12373.5	11905.9	11640.1	11536.8
52.5°	11113.5	11576.2	12388.3	13190.5	13540.0	13313.6	12649.1	12127.4	11723.8	11679.5
55°	11989.6	12230.8	13293.9	13909.1	14022.3	13544.9	12565.4	11827.2	11305.5	11177.5
57.5°	12880.4	13161.0	14091.2	14622.8	14504.6	13416.9	12024.0	10882.2	10198.0	10015.9
60°	13781.1	14125.7	14908.2	15395.5	14785.2	12535.9	10493.4	9021.7	8224.4	8062.0
62.5°	14785.2	15233.1	15932.0	16104.2	13953.4	10793.6	8327.7	6511.6	5704.4	5433.7
65°	15676.0	16133.8	16995.1	15956.6	12186.5	8052.1	5384.5	3720.9	3125.4	2908.8
67.5°	16409.4	16926.2	17349.5	14120.7	8923.3	4715.1	2805.4	1958.9	1737.4	1658.7
70°	16990.2	17851.5	15872.9	10380.1	5099.0	2298.5	1515.9	1289.5	1260.0	1240.3
72.5°	16483.2	16370.0	11851.8	5989.9	2234.5	1264.9	1097.6	1063.1	1058.2	1063.1
75°	13480.9	12024.0	7087.4	2603.7	1122.2	915.5	910.5	895.8	920.4	920.4
77.5°	6541.1	5719.2	2962.9	1117.3	738.3	718.6	743.2	743.2	743.2	743.2
80°	1515.9	1678.3	1058.2	679.2	536.5	536.5	590.6	595.5	570.9	561.1
82.5°	516.8	689.1	580.8	428.2	354.4	398.7	447.9	457.7	379.0	383.9
85°	255.9	403.6	315.0	246.1	182.1	246.1	290.4	305.2	260.9	251.0
87.5°	118.1	177.2	118.1	83.7	64.0	88.6	83.7	68.9	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)