

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: P481225

Luminaire Tested: **IFLD-L-SA7C-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

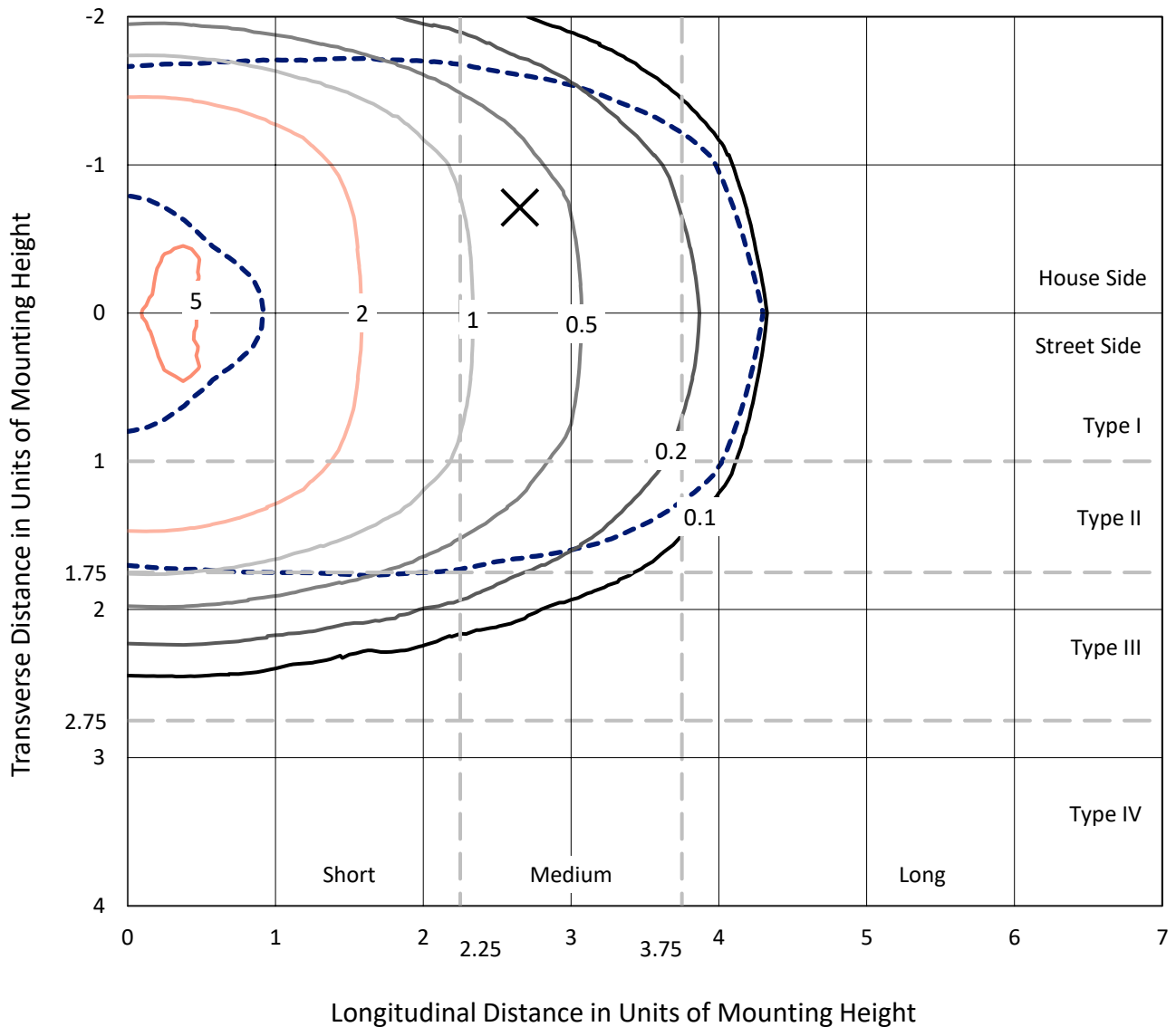
Lumens per Lamp: N/A
Luminaire Lumens: 41579.8 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

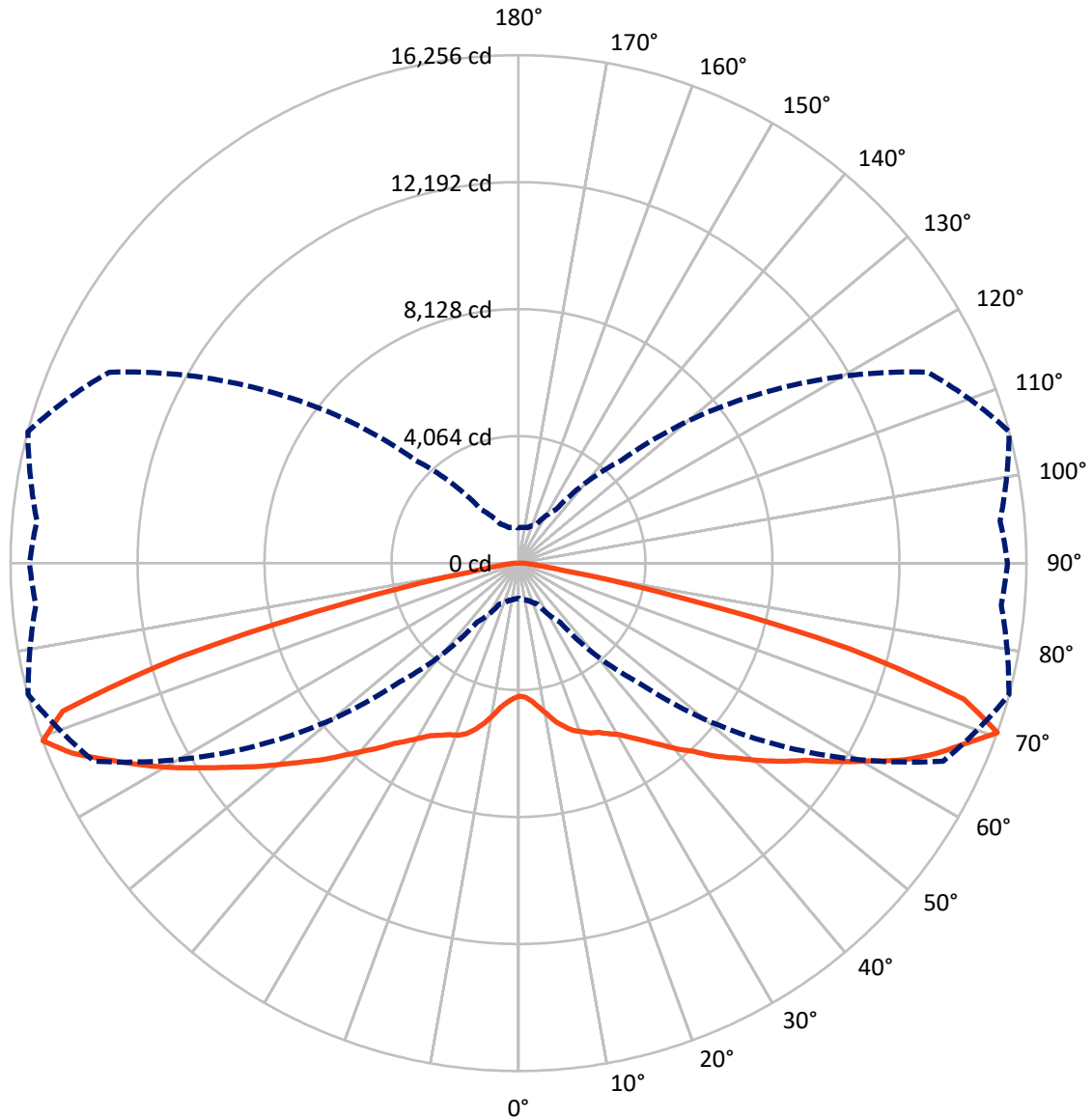
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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	20642.0	0.0	20642.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	20937.8	0.0	20937.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	41579.8	0.0	41579.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.8	1.0
10°-20°	1443.0	3.5
20°-30°	2794.1	6.7
30°-40°	4725.9	11.4
40°-50°	7539.2	18.1
50°-60°	10319.6	24.8
60°-70°	9726.9	23.4
70°-80°	4285.0	10.3
80°-90°	322.4	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°	41579.8	100.0
0°-180°	41579.8	100.0

Coefficient of Utilization

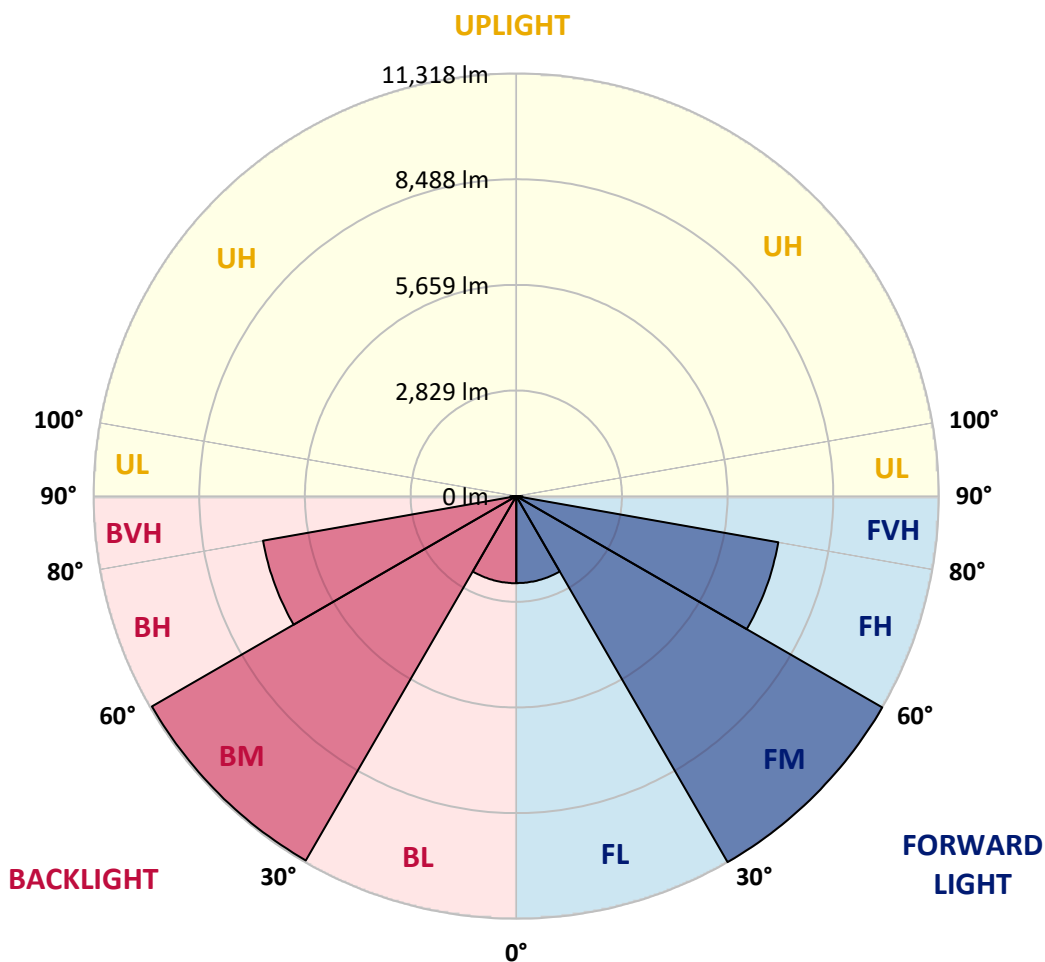


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2329.1	5.6			
FM (30°-60°)	11317.7	27.2			
FH (60°-80°)	7126.3	17.1			G3/7500
FVH (80°-90°)	164.7	0.4			G2/225
BL (0°-30°)	2331.7	5.6	B3/2500		
BM (30°-60°)	11267.1	27.1	B5		
BH (60°-80°)	6885.5	16.6	B5		G5
BVH (80°-90°)	157.7	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°	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7
2.5°	4230.8	4230.8	4226.4	4248.8	4271.2	4280.1	4298.1	4302.5	4329.4	4307.0	4351.8
5°	4217.4	4212.9	4248.8	4302.5	4302.5	4360.8	4396.7	4446.0	4459.4	4486.3	4495.3
7.5°	4311.5	4302.5	4284.6	4342.9	4392.2	4481.8	4531.1	4616.3	4647.7	4683.5	4723.8
10°	4369.8	4369.8	4351.8	4454.9	4499.7	4620.8	4728.3	4813.5	4934.5	4974.8	4979.3
12.5°	4378.7	4392.2	4446.0	4580.4	4705.9	4862.8	4943.5	5104.8	5225.8	5302.0	5328.9
15°	4513.2	4486.3	4544.6	4728.3	4912.1	5051.0	5194.4	5311.0	5485.8	5584.4	5647.1
17.5°	4634.2	4607.3	4714.9	4934.5	5122.7	5337.9	5463.3	5588.8	5714.3	5804.0	5808.4
20°	4826.9	4849.3	4943.5	5181.0	5427.5	5615.7	5759.1	5781.6	5844.3	5974.3	5951.9
22.5°	5064.5	5046.5	5243.7	5503.7	5772.6	5929.5	6010.1	5951.9	5920.5	6059.4	6090.8
25°	5302.0	5355.8	5535.1	5777.1	6099.8	6310.4	6332.8	6171.5	6054.9	6104.2	6090.8
27.5°	5665.0	5674.0	5862.2	6149.1	6476.2	6660.0	6646.5	6418.0	6193.9	6198.4	6207.3
30°	6131.1	6086.3	6292.5	6552.4	6875.1	7040.9	7063.4	6736.2	6435.9	6346.3	6368.7
32.5°	6579.3	6633.1	6812.4	7108.2	7345.7	7439.8	7390.5	7099.2	6709.3	6588.3	6601.7
35°	7153.0	7144.0	7390.5	7641.5	7820.8	7838.7	7798.4	7372.6	7005.1	6848.2	6785.5
37.5°	7767.0	7847.7	8009.0	8215.2	8403.4	8412.4	8192.8	7852.2	7399.5	7139.5	7215.7
40°	8452.7	8542.4	8658.9	8959.2	9098.1	8954.7	8730.6	8269.0	7798.4	7569.8	7605.7
42.5°	9057.8	9098.1	9335.6	9689.7	9756.9	9694.2	9362.5	8802.3	8255.5	8004.5	8022.5
45°	9613.5	9667.3	9976.5	10294.7	10451.6	10344.0	9958.6	9425.3	8788.9	8573.7	8488.6
47.5°	10124.4	10232.0	10532.3	10859.5	11101.5	11110.4	10635.4	9990.0	9317.7	9035.4	9030.9
50°	10469.5	10626.4	10922.2	11294.2	11648.3	11787.2	11312.1	10617.4	9895.9	9595.6	9564.2
52.5°	10657.8	10819.1	11114.9	11693.1	12087.5	12302.6	12078.5	11204.6	10572.6	10258.9	10209.6
55°	10429.2	10536.8	11020.8	11832.0	12441.5	12795.6	12647.7	12015.8	11244.9	10989.4	11034.2
57.5°	9456.6	9680.7	10276.8	11289.7	12432.6	13302.0	13288.6	12782.2	12020.2	11778.2	11787.2
60°	7784.9	7973.2	8708.2	10124.4	11930.6	13508.2	13983.3	13526.1	12889.7	12607.4	12598.4
62.5°	5494.7	5732.3	6583.8	8130.0	10451.6	13221.4	14781.1	14462.8	13741.3	13535.1	13611.3
65°	3074.5	3217.9	4006.7	5405.1	7964.2	11643.8	14924.5	15435.4	14606.3	14292.5	14306.0
67.5°	1644.8	1698.6	2066.1	2837.0	4871.7	8977.1	13476.8	15995.6	15543.0	15000.7	14915.5
70°	1129.4	1147.3	1241.5	1452.1	2303.7	5369.2	10164.8	14996.2	16246.6	15507.1	15650.5
72.5°	954.6	945.7	968.1	990.5	1205.6	2402.3	5965.3	11540.7	15336.8	15058.9	15005.1
75°	829.1	824.7	833.6	811.2	838.1	1057.7	2639.8	7193.3	11227.0	12531.2	12732.9
77.5°	685.7	690.2	694.7	672.3	663.3	699.2	1062.2	3159.7	5526.1	6099.8	6579.3
80°	519.9	528.9	564.7	542.3	506.4	510.9	627.5	1057.7	1586.6	1438.7	1483.5
82.5°	354.1	358.5	434.7	407.8	381.0	345.1	403.4	546.8	618.5	470.6	412.3
85°	251.0	246.5	282.4	259.9	242.0	174.8	242.0	309.2	372.0	233.1	210.6
87.5°	58.3	58.3	116.5	94.1	89.6	71.7	94.1	121.0	161.3	103.1	94.1
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°	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7
2.5°	4338.4	4298.1	4298.1	4289.1	4253.2	4244.3	4212.9	4221.9	4199.5	4177.1
5°	4490.8	4437.0	4437.0	4360.8	4289.1	4280.1	4244.3	4244.3	4208.4	4217.4
7.5°	4701.4	4652.1	4571.5	4504.2	4405.6	4365.3	4298.1	4289.1	4280.1	4262.2
10°	4952.4	4889.7	4809.0	4670.1	4589.4	4513.2	4446.0	4351.8	4329.4	4333.9
12.5°	5293.0	5194.4	5019.6	4898.6	4795.6	4697.0	4598.4	4459.4	4428.0	4441.5
15°	5535.1	5409.6	5234.8	5190.0	5051.0	4930.0	4768.7	4611.8	4558.0	4544.6
17.5°	5732.3	5629.2	5526.1	5458.9	5346.8	5198.9	4974.8	4795.6	4674.5	4661.1
20°	5893.6	5759.1	5736.7	5777.1	5638.1	5539.5	5266.1	5046.5	4885.2	4818.0
22.5°	5992.2	5907.0	5969.8	6005.6	5996.7	5830.9	5548.5	5293.0	5091.4	5028.6
25°	6099.8	6001.2	6225.3	6346.3	6377.6	6104.2	5884.6	5548.5	5351.3	5311.0
27.5°	6153.5	6189.4	6449.3	6704.8	6682.4	6471.8	6176.0	5875.7	5718.8	5647.1
30°	6310.4	6368.7	6763.1	7049.9	7054.4	6848.2	6624.1	6283.5	6108.7	6077.4
32.5°	6592.8	6664.5	7085.8	7390.5	7444.3	7287.4	7063.4	6852.7	6673.4	6601.7
35°	6807.9	6991.6	7466.7	7744.6	7888.0	7793.9	7668.4	7448.8	7260.6	7197.8
37.5°	7117.1	7372.6	7829.7	8206.2	8367.6	8358.6	8264.5	8026.9	7870.1	7816.3
40°	7560.8	7816.3	8233.1	8730.6	9030.9	9017.4	8963.6	8779.9	8546.8	8519.9
42.5°	8031.4	8242.1	8784.4	9353.6	9783.8	9739.0	9595.6	9380.5	9219.1	9183.3
45°	8488.6	8815.7	9317.7	10048.2	10370.9	10483.0	10312.7	9945.2	9761.4	9739.0
47.5°	9062.2	9322.2	9949.6	10604.0	11083.5	11101.5	10810.2	10469.5	10133.4	10205.1
50°	9573.2	9918.3	10554.7	11271.8	11845.5	11639.3	11267.3	10841.5	10599.5	10505.4
52.5°	10120.0	10541.2	11280.7	12011.3	12329.5	12123.3	11518.3	11043.2	10675.7	10635.4
55°	10917.7	11137.3	12105.4	12665.6	12768.7	12334.0	11442.1	10769.8	10294.7	10178.2
57.5°	11728.9	11984.4	12831.5	13315.5	13207.9	12217.4	10949.1	9909.3	9286.3	9120.5
60°	12549.1	12862.8	13575.4	14019.1	13463.4	11415.2	9555.2	8215.2	7489.1	7341.2
62.5°	13463.4	13871.2	14507.7	14664.5	12706.0	9828.6	7583.2	5929.5	5194.4	4947.9
65°	14274.6	14691.4	15475.7	14530.1	11097.0	7332.3	4903.1	3388.3	2846.0	2648.8
67.5°	14942.4	15413.0	15798.4	12858.3	8125.5	4293.6	2554.6	1783.8	1582.1	1510.4
70°	15471.3	16255.6	14453.9	9452.2	4643.2	2093.0	1380.4	1174.2	1147.3	1129.4
72.5°	15009.6	14906.5	10792.2	5454.4	2034.7	1151.8	999.4	968.1	963.6	968.1
75°	12275.7	10949.1	6453.8	2370.9	1021.9	833.6	829.1	815.7	838.1	838.1
77.5°	5956.3	5207.9	2698.1	1017.4	672.3	654.3	676.8	676.8	676.8	676.8
80°	1380.4	1528.3	963.6	618.5	488.5	488.5	537.8	542.3	519.9	510.9
82.5°	470.6	627.5	528.9	389.9	322.7	363.0	407.8	416.8	345.1	349.6
85°	233.1	367.5	286.8	224.1	165.8	224.1	264.4	277.9	237.5	228.6
87.5°	107.6	161.3	107.6	76.2	58.3	80.7	76.2	62.7	35.9	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)