

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: P479431

Luminaire Tested: **IFLD-L-SA7C-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479431
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

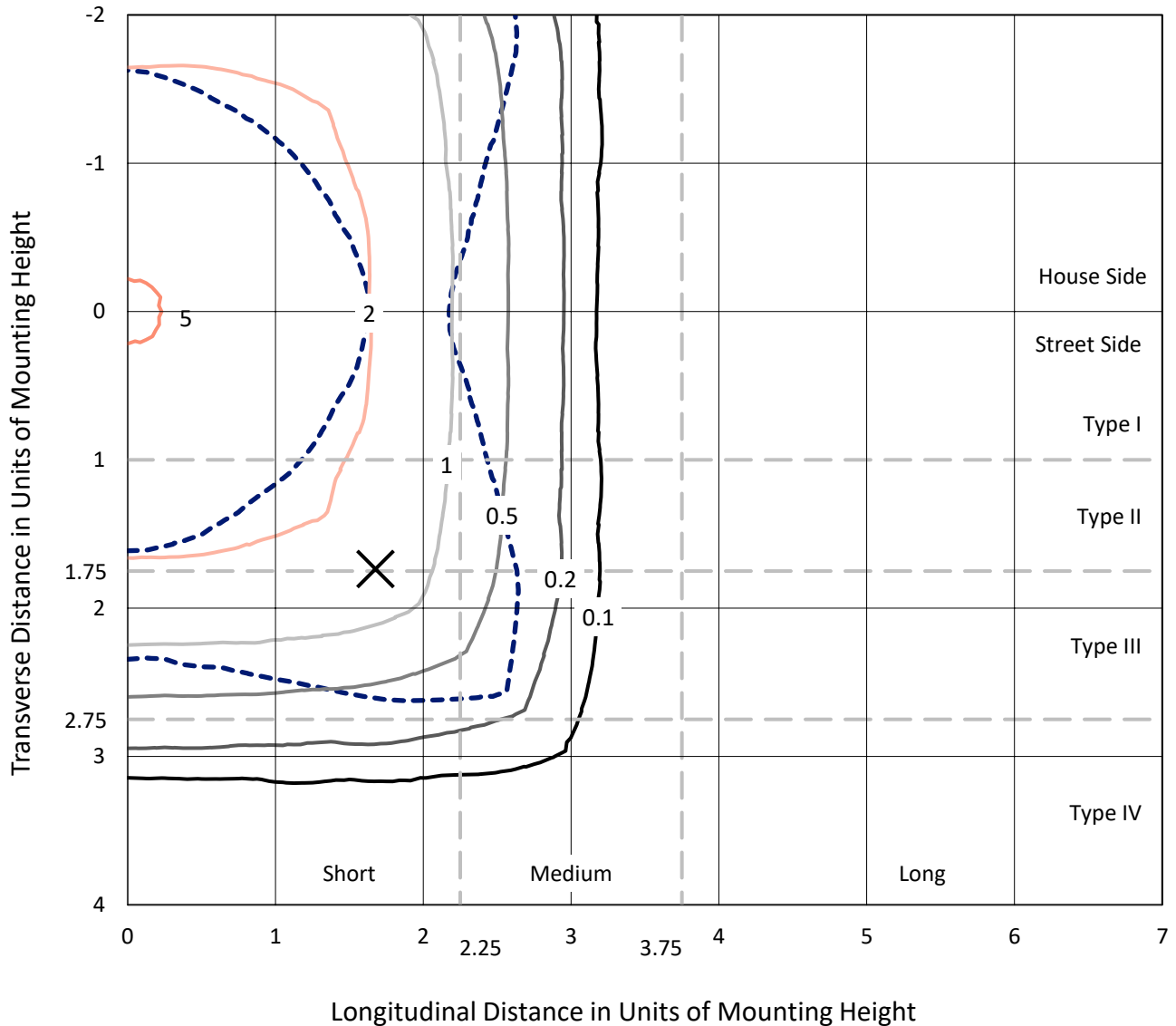
Lumens per Lamp: N/A
Luminaire Lumens: 45772.7 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

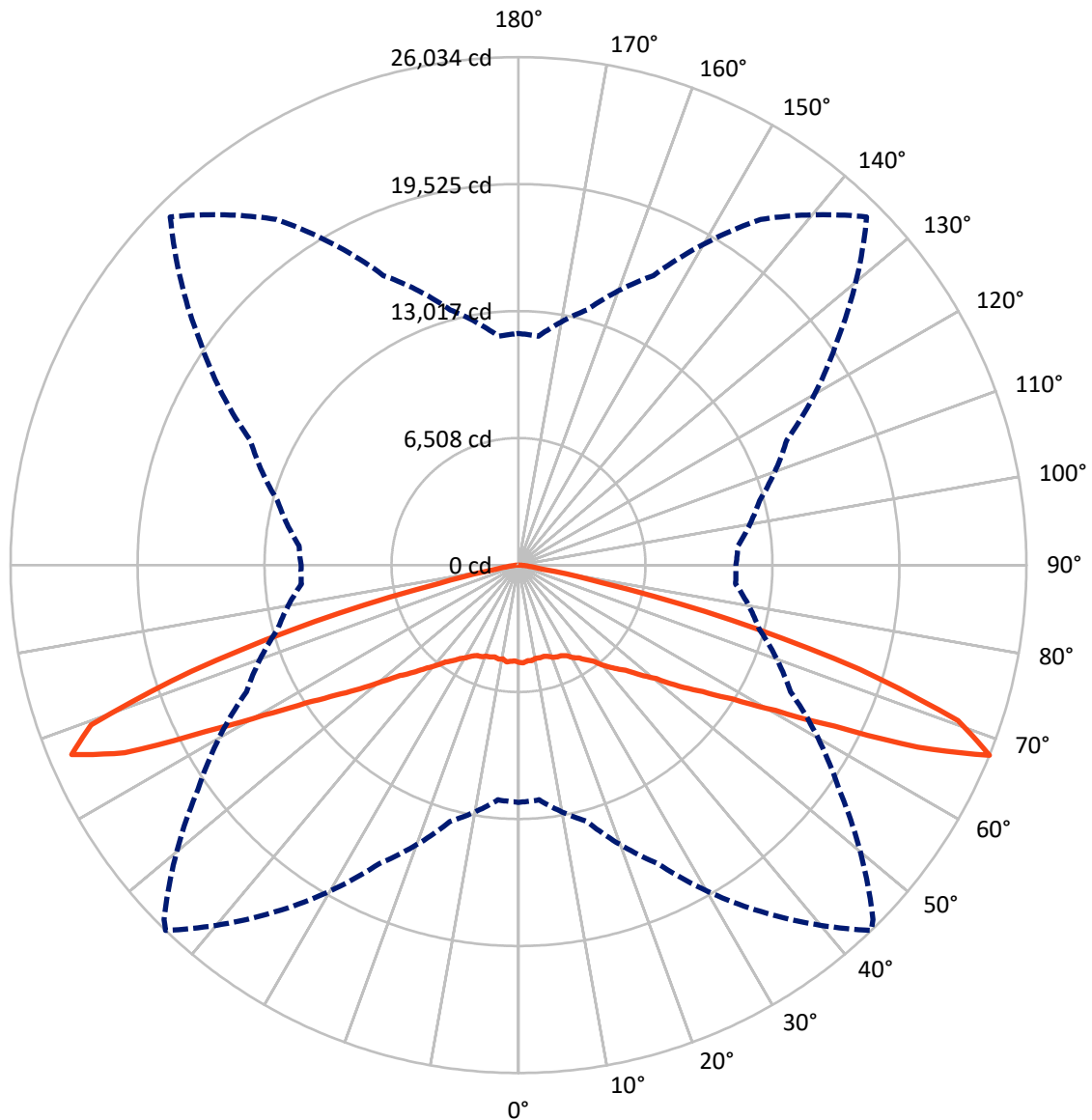
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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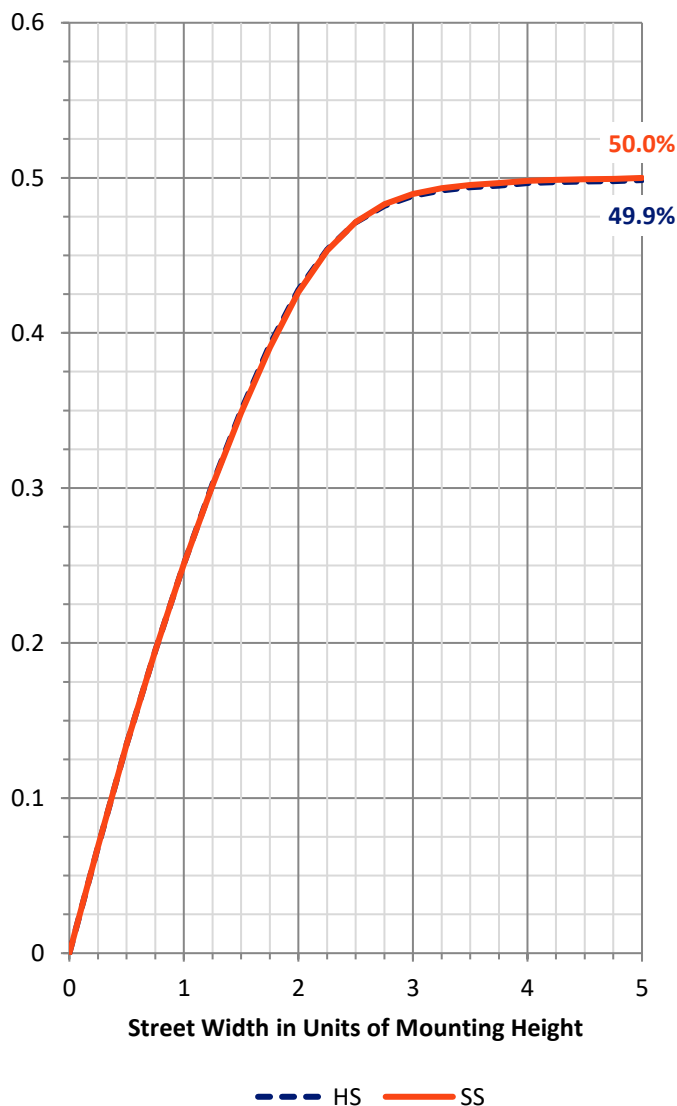
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22827.7	0.0	22827.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	22944.9	0.0	22944.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	45772.7	0.0	45772.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.1	1.0
10°-20°	1382.3	3.0
20°-30°	2350.6	5.1
30°-40°	3727.0	8.1
40°-50°	6077.2	13.3
50°-60°	10379.0	22.7
60°-70°	15786.3	34.5
70°-80°	5321.0	11.6
80°-90°	276.3	0.6
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°	45772.7	100.0
0°-180°	45772.7	100.0

Coefficient of Utilization



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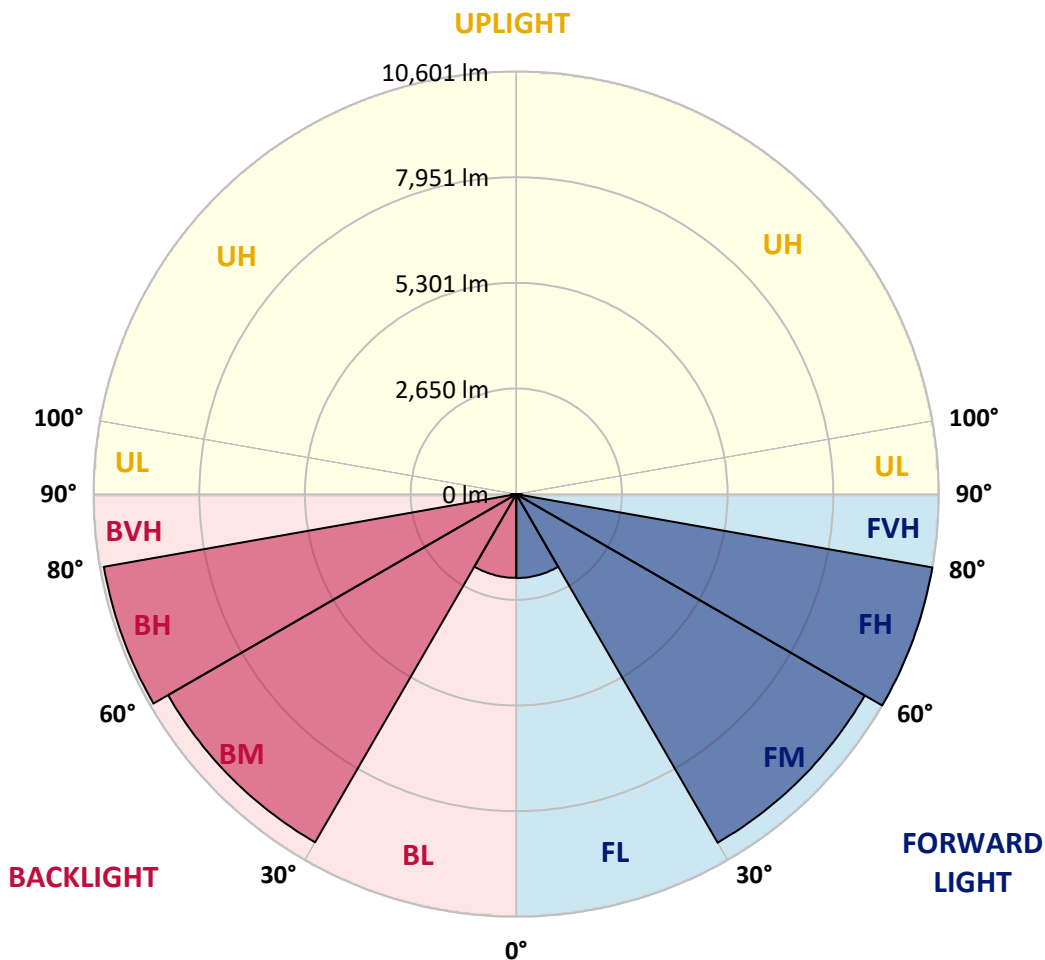
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.2	4.6			
FM (30°-60°)	10097.0	22.1			
FH (60°-80°)	10601.4	23.2			G4/12000
FVH (80°-90°)	141.3	0.3			G2/225
BL (0°-30°)	2100.8	4.6	B3/2500		
BM (30°-60°)	10086.1	22.0	B5		
BH (60°-80°)	10505.8	23.0	B5		G4/12000
BVH (80°-90°)	134.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9
2.5°	4884.9	4942.4	4984.2	4979.0	4994.7	5010.3	4989.4	5020.8	4999.9	5036.4	5057.3
5°	4979.0	4963.3	4968.5	4937.2	5010.3	4926.7	4926.7	4968.5	5020.8	4958.1	4994.7
7.5°	4921.5	4911.1	4884.9	4932.0	4947.6	4947.6	4989.4	4911.1	4999.9	5020.8	5026.0
10°	4858.8	4801.3	4879.7	4926.7	4937.2	4853.6	4890.2	4911.1	4884.9	4911.1	4926.7
12.5°	4806.6	4837.9	4837.9	4837.9	4822.2	4879.7	4916.3	4911.1	4858.8	4905.8	4822.2
15°	4801.3	4785.7	4832.7	4874.5	4848.4	4858.8	4874.5	4921.5	4822.2	4843.1	4843.1
17.5°	4796.1	4817.0	4832.7	4827.5	4916.3	4916.3	4900.6	4869.3	4947.6	4905.8	4848.4
20°	4817.0	4801.3	4843.1	4858.8	4921.5	5046.9	4999.9	4973.8	4932.0	4879.7	4879.7
22.5°	4843.1	4832.7	4890.2	4958.1	5078.2	5109.6	5104.4	5073.0	4999.9	4937.2	4926.7
25°	4937.2	4843.1	4905.8	5036.4	5078.2	5140.9	5182.7	5140.9	5041.7	5057.3	4963.3
27.5°	5078.2	5062.6	5146.2	5235.0	5198.4	5255.9	5219.3	5250.7	5255.9	5177.5	5083.5
30°	5245.4	5198.4	5250.7	5423.1	5438.7	5501.4	5438.7	5355.1	5381.3	5313.3	5266.3
32.5°	5485.8	5470.1	5569.3	5684.3	5705.2	5673.8	5642.5	5689.5	5579.8	5527.6	5444.0
35°	5642.5	5710.4	5830.6	5919.4	5987.3	5956.0	5971.6	5924.6	5950.7	5841.0	5804.5
37.5°	6107.5	6081.4	6107.5	6259.0	6274.7	6259.0	6274.7	6326.9	6290.3	6196.3	6102.3
40°	6546.3	6504.5	6567.2	6739.6	6729.2	6781.4	6677.0	6734.4	6734.4	6556.8	6520.2
42.5°	6875.5	7016.5	7089.7	7230.8	7283.0	7236.0	7215.1	7225.5	7340.5	7131.5	7053.1
45°	7554.7	7549.4	7768.9	7847.2	7701.0	7690.5	7648.7	7774.1	7852.5	7732.3	7701.0
47.5°	8291.3	8327.9	8453.3	8484.6	8573.5	8411.5	8411.5	8427.2	8704.1	8421.9	8275.7
50°	8954.8	9001.9	9252.6	9498.2	9331.0	9158.6	9226.5	9310.1	9461.6	9195.2	9069.8
52.5°	9759.4	10015.4	10182.6	10313.2	10433.4	10313.2	10156.5	10250.5	10548.3	10193.1	10036.3
55°	10919.3	11123.0	11279.8	11520.1	11619.4	11457.4	11441.7	11431.3	11598.5	11222.3	11008.1
57.5°	12215.0	12131.4	12382.1	12753.1	13113.6	12956.8	12909.8	12920.3	12962.1	12429.2	12267.2
60°	13824.1	13918.2	14215.9	14539.9	14921.3	15140.7	14832.4	14654.8	14691.4	13965.2	13714.4
62.5°	14743.6	14952.6	15626.6	16739.4	17507.4	18191.8	18238.8	17084.2	16311.0	14900.4	13834.6
65°	14299.5	14268.2	15537.8	17596.2	20506.3	22496.8	22199.0	19398.7	16697.6	14456.3	13024.8
67.5°	12162.7	12079.1	13615.1	16880.5	21687.0	26033.8	25694.2	20051.7	15391.5	12789.7	11170.0
70°	7836.8	7815.9	9482.5	12868.0	19362.1	23902.2	24027.6	18212.7	12528.4	9367.6	7763.7
72.5°	2847.4	3019.8	3986.3	6917.3	13150.1	18285.9	18364.2	13484.5	7204.6	4331.1	3192.2
75°	1050.1	1081.5	1259.1	2246.5	5992.5	11227.5	11520.1	6541.1	2560.0	1410.6	1149.4
77.5°	606.0	611.3	674.0	835.9	1776.3	4383.4	4561.0	1985.3	992.7	752.3	694.9
80°	412.7	407.5	475.4	543.4	710.5	1243.4	1321.8	830.7	626.9	522.5	438.9
82.5°	240.3	256.0	350.0	386.6	433.6	548.6	559.0	517.2	470.2	386.6	287.3
85°	146.3	120.2	193.3	214.2	250.8	245.6	245.6	282.1	303.0	271.7	162.0
87.5°	36.6	36.6	47.0	52.2	67.9	52.2	57.5	109.7	146.3	135.8	83.6
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°	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9	4999.9
2.5°	5010.3	4994.7	5005.1	5062.6	5026.0	4916.3	4942.4	4999.9	4952.9	4926.7	4921.5
5°	4989.4	5020.8	4984.2	4994.7	5031.2	4942.4	4958.1	5031.2	4999.9	5010.3	4952.9
7.5°	4994.7	5010.3	4979.0	4932.0	4932.0	5005.1	4963.3	4973.8	4926.7	5005.1	4900.6
10°	4963.3	4921.5	4884.9	4911.1	4900.6	4879.7	4864.0	4895.4	4848.4	4916.3	4843.1
12.5°	4869.3	4879.7	4869.3	4858.8	4879.7	4932.0	4848.4	4858.8	4785.7	4796.1	4832.7
15°	4832.7	4864.0	4853.6	4911.1	4937.2	4858.8	4921.5	4858.8	4801.3	4770.0	4827.5
17.5°	4848.4	4895.4	4879.7	4921.5	4874.5	4932.0	4942.4	4916.3	4848.4	4822.2	4848.4
20°	4864.0	4848.4	4869.3	4942.4	5010.3	4952.9	4952.9	4937.2	4874.5	4837.9	4837.9
22.5°	4900.6	4874.5	4905.8	4963.3	4984.2	5073.0	4994.7	4958.1	4853.6	4759.5	4848.4
25°	4973.8	4989.4	5010.3	4989.4	5104.4	5093.9	5083.5	5057.3	4895.4	4900.6	4884.9
27.5°	5114.8	5026.0	5052.1	5177.5	5193.2	5235.0	5182.7	5229.8	5057.3	5062.6	4958.1
30°	5287.2	5193.2	5276.8	5386.5	5381.3	5459.6	5433.5	5444.0	5323.8	5255.9	5114.8
32.5°	5475.3	5464.9	5517.1	5585.0	5611.1	5652.9	5647.7	5647.7	5574.6	5396.9	5423.1
35°	5684.3	5757.4	5820.1	5893.3	5903.7	5956.0	5882.8	5893.3	5820.1	5689.5	5731.3
37.5°	6097.0	6091.8	6159.7	6248.5	6259.0	6217.2	6274.7	6248.5	6149.3	6060.5	5992.5
40°	6577.7	6473.2	6535.9	6744.9	6760.5	6687.4	6682.2	6677.0	6603.8	6410.5	6368.7
42.5°	6995.6	7131.5	7121.0	7189.0	7141.9	7105.4	7236.0	7162.8	7105.4	6901.6	6865.0
45°	7533.8	7575.6	7711.4	7930.8	7706.2	7706.2	7795.0	7737.5	7706.2	7554.7	7413.6
47.5°	8202.5	8239.1	8510.8	8526.4	8380.1	8280.9	8557.8	8568.2	8437.6	8322.7	8150.3
50°	8986.2	9001.9	9247.4	9498.2	9336.2	9148.2	9430.3	9540.0	9247.4	9090.7	8876.5
52.5°	9848.2	9801.2	10005.0	10475.2	10318.4	10261.0	10564.0	10590.1	10193.1	9947.5	10005.0
55°	10840.9	10778.2	11332.0	11650.7	11551.4	11446.9	11582.8	11645.5	11326.8	10924.5	11065.6
57.5°	12126.1	12157.5	12434.4	12747.9	12909.8	12935.9	12998.6	12935.9	12612.0	12204.5	12073.9
60°	13411.4	13505.4	14043.5	14633.9	14686.2	15145.9	15062.3	14748.9	14289.1	13709.2	13735.3
62.5°	13886.8	13808.4	14675.7	16117.7	17345.4	18186.6	17815.7	16702.8	15637.0	14581.7	14660.0
65°	12930.7	13124.0	14304.8	16561.8	19226.3	22554.3	20579.4	17502.2	15349.7	13986.1	13834.6
67.5°	11143.9	11290.2	12789.7	15172.0	19900.2	25239.7	21624.3	16373.7	13536.8	11770.9	11864.9
70°	7763.7	7836.8	9304.9	12429.2	18045.5	23818.6	19508.4	12575.4	9346.7	7450.2	7554.7
72.5°	3124.3	3301.9	4268.4	7486.8	13322.6	18097.8	13134.5	6598.6	3876.6	2883.9	2617.5
75°	1154.6	1159.8	1363.6	2575.7	6326.9	11373.8	5924.6	2121.2	1238.2	1013.6	966.5
77.5°	668.7	663.5	710.5	930.0	1833.8	4440.9	1682.3	830.7	674.0	606.0	579.9
80°	418.0	412.7	485.9	616.5	804.6	1217.3	710.5	517.2	454.5	391.8	391.8
82.5°	266.5	271.7	381.4	454.5	491.1	538.1	412.7	365.7	339.6	224.7	219.4
85°	172.4	156.7	266.5	303.0	271.7	240.3	229.9	193.3	177.6	109.7	120.2
87.5°	78.4	83.6	135.8	151.5	99.3	57.5	57.5	41.8	41.8	26.1	26.1
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)