

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: P479353

Luminaire Tested: **IFLD-L-SA7C-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479353
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

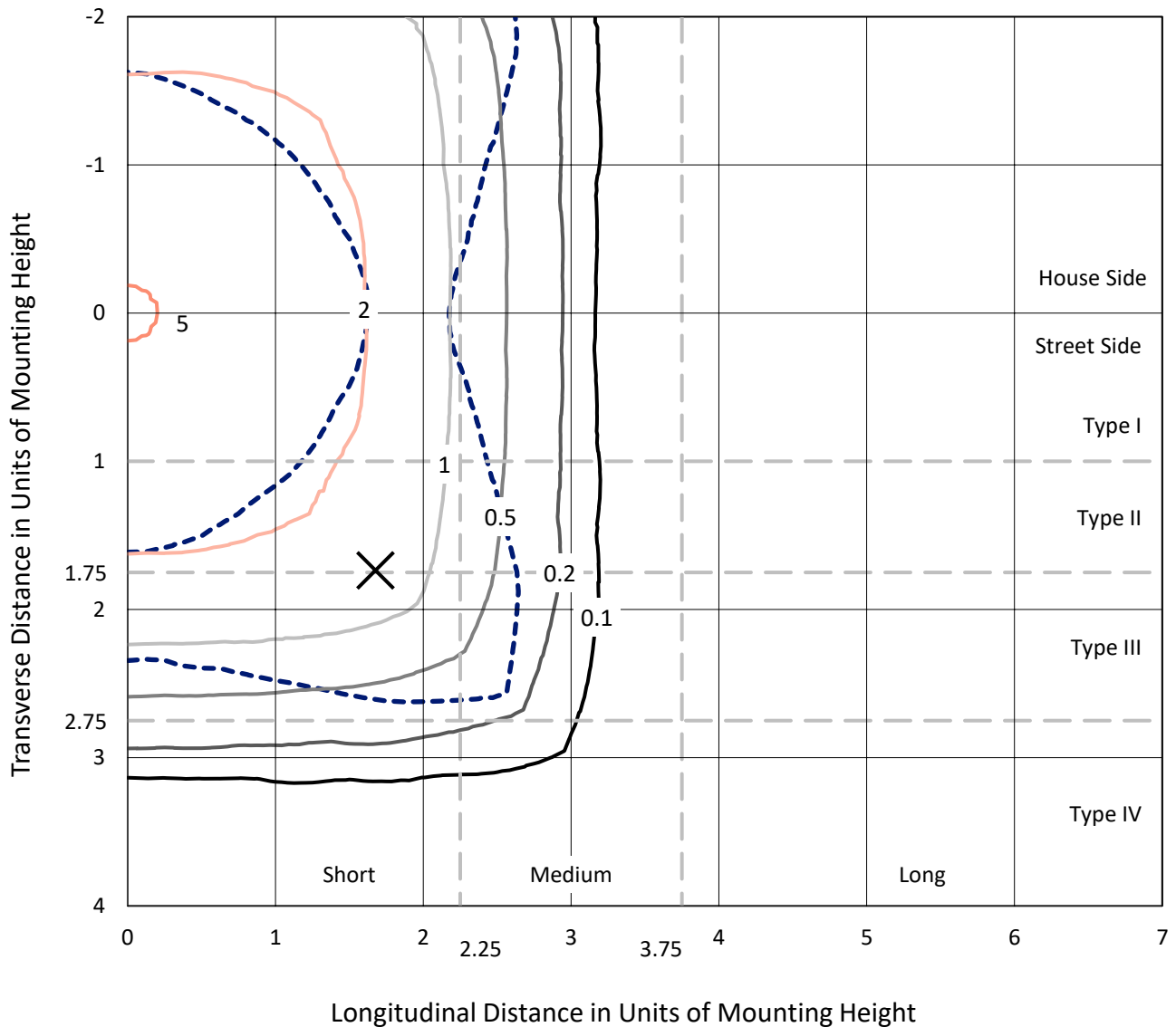
Lumens per Lamp: N/A
Luminaire Lumens: 44748 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

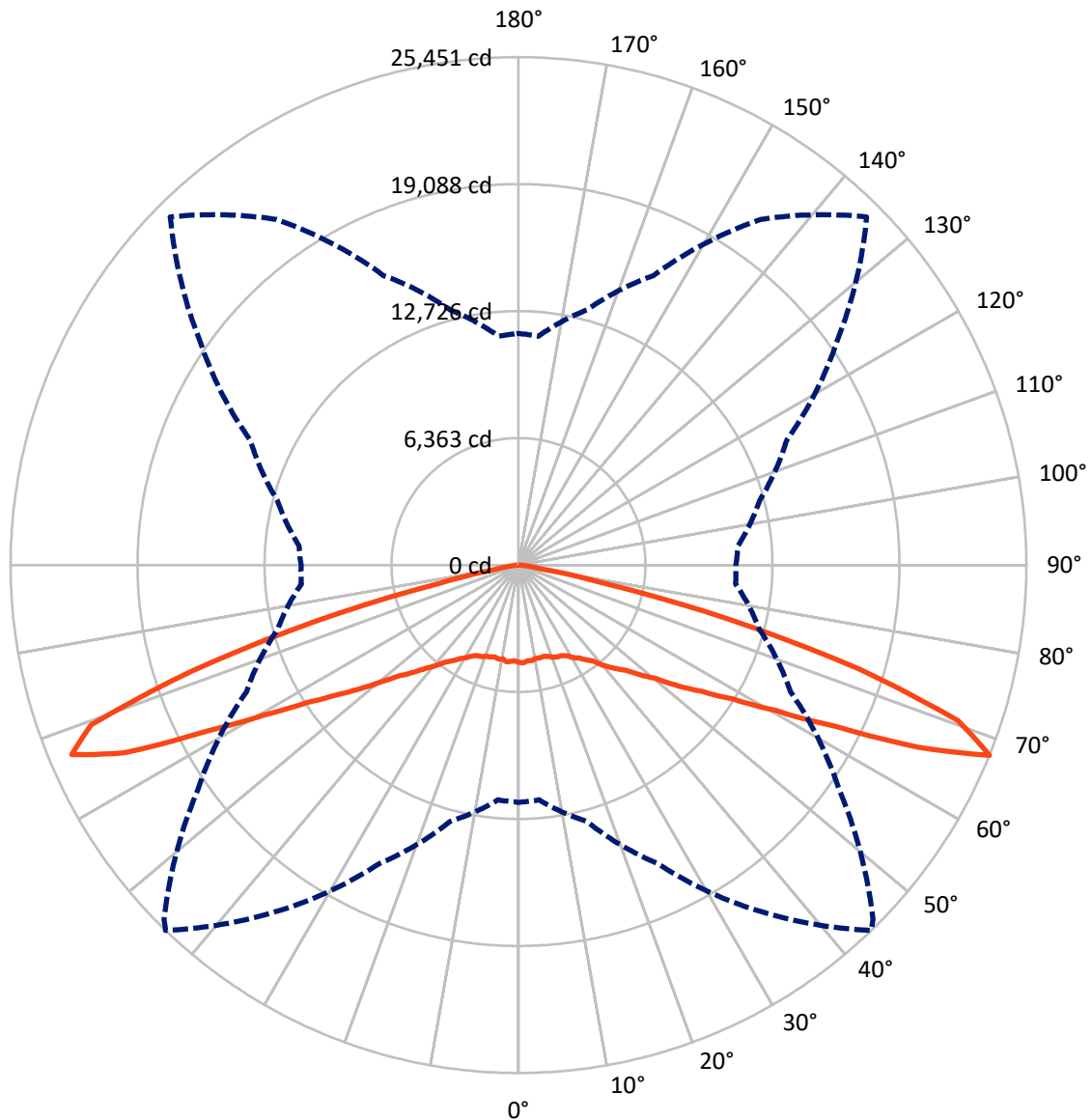
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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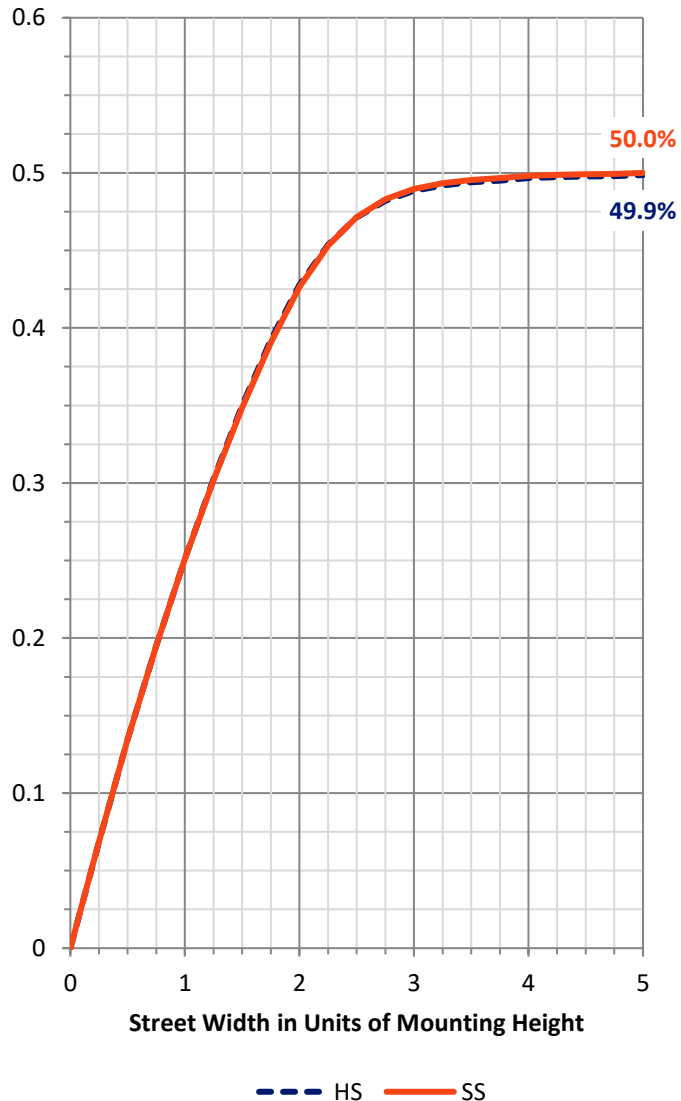
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22316.7	0.0	22316.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	22431.3	0.0	22431.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	44748.0	0.0	44748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.5	1.0
10°-20°	1351.3	3.0
20°-30°	2298.0	5.1
30°-40°	3643.5	8.1
40°-50°	5941.1	13.3
50°-60°	10146.6	22.7
60°-70°	15432.9	34.5
70°-80°	5201.8	11.6
80°-90°	270.1	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°	44748.0	100.0
0°-180°	44748.0	100.0

Coefficient of Utilization



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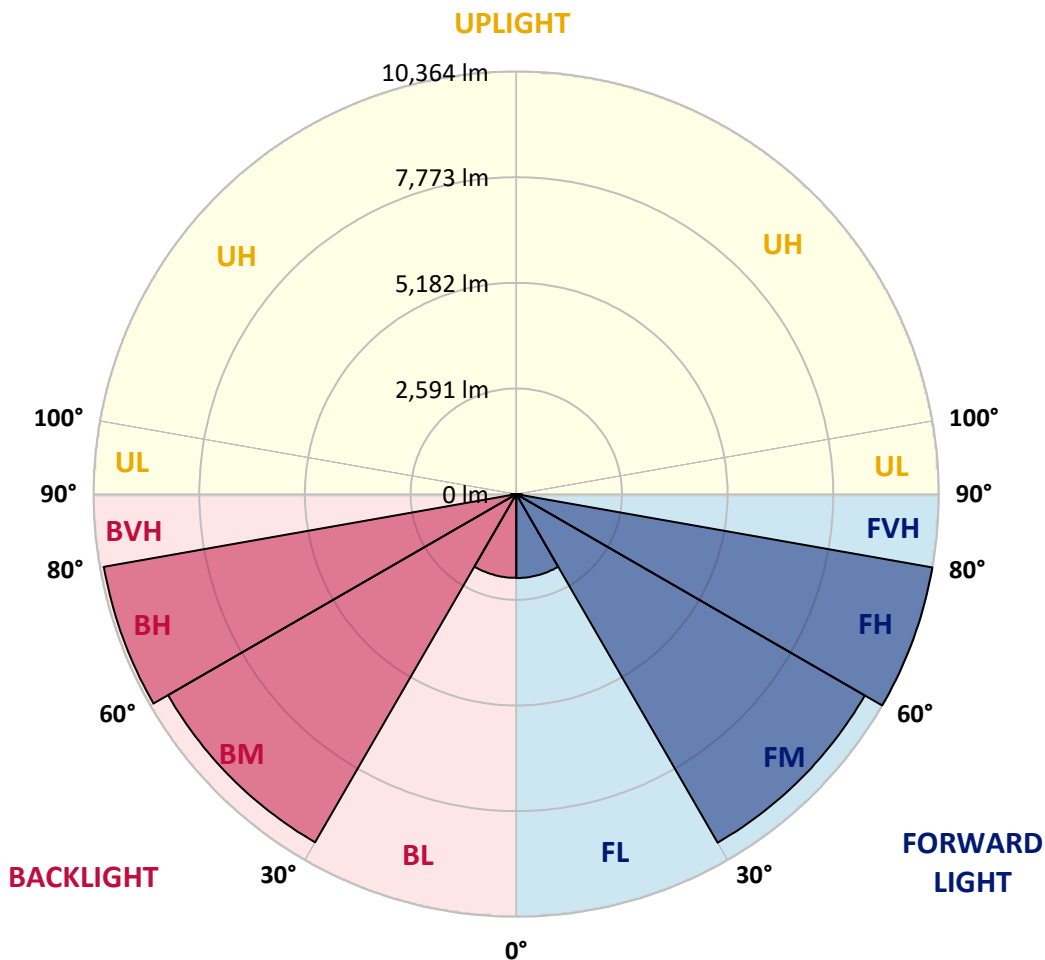
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.0	4.6			
FM (30°-60°)	9871.0	22.1			
FH (60°-80°)	10364.1	23.2			G4/12000
FVH (80°-90°)	138.2	0.3			G2/225
BL (0°-30°)	2053.8	4.6	B3/2500		
BM (30°-60°)	9860.3	22.0	B5		
BH (60°-80°)	10270.6	23.0	B5		G4/12000
BVH (80°-90°)	131.9	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°	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9
2.5°	4775.6	4831.8	4872.6	4867.5	4882.8	4898.2	4877.7	4908.4	4887.9	4923.7	4944.1
5°	4867.5	4852.2	4857.3	4826.7	4898.2	4816.4	4816.4	4857.3	4908.4	4847.1	4882.8
7.5°	4811.3	4801.1	4775.6	4821.5	4836.9	4836.9	4877.7	4801.1	4887.9	4908.4	4913.5
10°	4750.0	4693.9	4770.5	4816.4	4826.7	4744.9	4780.7	4801.1	4775.6	4801.1	4816.4
12.5°	4699.0	4729.6	4729.6	4729.6	4714.3	4770.5	4806.2	4801.1	4750.0	4796.0	4714.3
15°	4693.9	4678.5	4724.5	4765.4	4739.8	4750.0	4765.4	4811.3	4714.3	4734.7	4734.7
17.5°	4688.7	4709.2	4724.5	4719.4	4806.2	4806.2	4790.9	4760.3	4836.9	4796.0	4739.8
20°	4709.2	4693.9	4734.7	4750.0	4811.3	4933.9	4887.9	4862.4	4821.5	4770.5	4770.5
22.5°	4734.7	4724.5	4780.7	4847.1	4964.6	4995.2	4990.1	4959.4	4887.9	4826.7	4816.4
25°	4826.7	4734.7	4796.0	4923.7	4964.6	5025.8	5066.7	5025.8	4928.8	4944.1	4852.2
27.5°	4964.6	4949.2	5031.0	5117.8	5082.0	5138.2	5102.5	5133.1	5138.2	5061.6	4969.7
30°	5128.0	5082.0	5133.1	5301.7	5317.0	5378.3	5317.0	5235.3	5260.8	5194.4	5148.4
32.5°	5362.9	5347.6	5444.7	5557.0	5577.5	5546.8	5516.2	5562.1	5454.9	5403.8	5322.1
35°	5516.2	5582.6	5700.0	5786.9	5853.3	5822.6	5837.9	5792.0	5817.5	5710.3	5674.5
37.5°	5970.7	5945.2	5970.7	6118.9	6134.2	6118.9	6134.2	6185.3	6149.5	6057.6	5965.6
40°	6399.8	6358.9	6420.2	6588.8	6578.5	6629.6	6527.5	6583.7	6583.7	6410.0	6374.2
42.5°	6721.6	6859.5	6931.0	7068.9	7119.9	7074.0	7053.6	7063.8	7176.1	6971.8	6895.2
45°	7385.5	7380.4	7595.0	7671.6	7528.6	7518.3	7477.5	7600.1	7676.7	7559.2	7528.6
47.5°	8105.7	8141.5	8264.0	8294.7	8381.5	8223.2	8223.2	8238.5	8509.2	8233.4	8090.4
50°	8754.4	8800.3	9045.5	9285.6	9122.1	8953.6	9020.0	9101.7	9249.8	8989.3	8866.7
52.5°	9540.9	9791.2	9954.6	10082.3	10199.8	10082.3	9929.1	10021.0	10312.2	9964.9	9811.6
55°	10674.8	10874.0	11027.2	11262.2	11359.2	11200.9	11185.6	11175.4	11338.8	10971.1	10761.6
57.5°	11941.5	11859.8	12104.9	12467.6	12820.0	12666.8	12620.8	12631.0	12671.9	12150.9	11992.6
60°	13514.6	13606.6	13897.7	14214.4	14587.2	14801.7	14500.4	14326.7	14362.5	13652.5	13407.4
62.5°	14413.6	14617.9	15276.7	16364.6	17115.5	17784.6	17830.5	16701.7	15945.8	14566.8	13524.8
65°	13979.4	13948.8	15189.9	17202.3	20047.2	21993.2	21702.1	18964.4	16323.8	14132.6	12733.2
67.5°	11890.4	11808.7	13310.3	16502.6	21201.5	25451.0	25119.0	19602.8	15046.9	12503.3	10920.0
70°	7661.4	7640.9	9270.2	12579.9	18928.6	23367.1	23489.7	17805.0	12247.9	9157.9	7589.8
72.5°	2783.6	2952.2	3897.1	6762.4	12855.7	17876.5	17953.1	13182.6	7043.3	4234.2	3120.7
75°	1026.6	1057.3	1230.9	2196.3	5858.4	10976.2	11262.2	6394.7	2502.7	1379.0	1123.7
77.5°	592.5	597.6	658.9	817.2	1736.6	4285.2	4458.9	1940.9	970.4	735.5	679.3
80°	403.5	398.4	464.8	531.2	694.6	1215.6	1292.2	812.1	612.9	510.8	429.0
82.5°	234.9	250.3	342.2	378.0	423.9	536.3	546.5	505.6	459.7	378.0	280.9
85°	143.0	117.5	189.0	209.4	245.2	240.1	240.1	275.8	296.2	265.6	158.3
87.5°	35.8	35.8	46.0	51.1	66.4	51.1	56.2	107.3	143.0	132.8	81.7
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°	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9	4887.9
2.5°	4898.2	4882.8	4893.0	4949.2	4913.5	4806.2	4831.8	4887.9	4842.0	4816.4	4811.3
5°	4877.7	4908.4	4872.6	4882.8	4918.6	4831.8	4847.1	4918.6	4887.9	4898.2	4842.0
7.5°	4882.8	4898.2	4867.5	4821.5	4821.5	4893.0	4852.2	4862.4	4816.4	4893.0	4790.9
10°	4852.2	4811.3	4775.6	4801.1	4790.9	4770.5	4755.1	4785.8	4739.8	4806.2	4734.7
12.5°	4760.3	4770.5	4760.3	4750.0	4770.5	4821.5	4739.8	4750.0	4678.5	4688.7	4724.5
15°	4724.5	4755.1	4744.9	4801.1	4826.7	4750.0	4811.3	4750.0	4693.9	4663.2	4719.4
17.5°	4739.8	4785.8	4770.5	4811.3	4765.4	4821.5	4831.8	4806.2	4739.8	4714.3	4739.8
20°	4755.1	4739.8	4760.3	4831.8	4898.2	4842.0	4842.0	4826.7	4765.4	4729.6	4729.6
22.5°	4790.9	4765.4	4796.0	4852.2	4872.6	4959.4	4882.8	4847.1	4744.9	4653.0	4739.8
25°	4862.4	4877.7	4898.2	4877.7	4990.1	4979.9	4969.7	4944.1	4785.8	4790.9	4775.6
27.5°	5000.3	4913.5	4939.0	5061.6	5076.9	5117.8	5066.7	5112.7	4944.1	4949.2	4847.1
30°	5168.9	5076.9	5158.6	5265.9	5260.8	5337.4	5311.9	5322.1	5204.6	5138.2	5000.3
32.5°	5352.7	5342.5	5393.6	5460.0	5485.5	5526.4	5521.3	5521.3	5449.8	5276.1	5301.7
35°	5557.0	5628.5	5689.8	5761.3	5771.6	5822.6	5751.1	5761.3	5689.8	5562.1	5603.0
37.5°	5960.5	5955.4	6021.8	6108.7	6118.9	6078.0	6134.2	6108.7	6011.6	5924.8	5858.4
40°	6430.4	6328.3	6389.6	6593.9	6609.2	6537.7	6532.6	6527.5	6456.0	6267.0	6226.1
42.5°	6839.0	6971.8	6961.6	7028.0	6982.0	6946.3	7074.0	7002.5	6946.3	6747.1	6711.3
45°	7365.1	7406.0	7538.8	7753.3	7533.7	7533.7	7620.5	7564.3	7533.7	7385.5	7247.6
47.5°	8018.9	8054.6	8320.2	8335.6	8192.5	8095.5	8366.2	8376.4	8248.7	8136.4	7967.8
50°	8785.0	8800.3	9040.4	9285.6	9127.2	8943.4	9219.2	9326.4	9040.4	8887.2	8677.8
52.5°	9627.8	9581.8	9781.0	10240.7	10087.4	10031.3	10327.5	10353.0	9964.9	9724.8	9781.0
55°	10598.2	10536.9	11078.3	11389.9	11292.8	11190.7	11323.5	11384.8	11073.2	10679.9	10817.8
57.5°	11854.7	11885.3	12156.0	12462.5	12620.8	12646.3	12707.6	12646.3	12329.7	11931.3	11803.6
60°	13111.1	13203.1	13729.1	14306.3	14357.4	14806.8	14725.1	14418.7	13969.2	13402.3	13427.8
62.5°	13575.9	13499.3	14347.2	15756.8	16957.1	17779.4	17416.8	16328.9	15286.9	14255.2	14331.8
65°	12641.2	12830.2	13984.5	16191.0	18795.8	22049.4	20118.7	17110.4	15006.0	13673.0	13524.8
67.5°	10894.4	11037.5	12503.3	14832.4	19454.7	24674.7	21140.2	16007.1	13233.7	11507.3	11599.3
70°	7589.8	7661.4	9096.6	12150.9	17641.5	23285.4	19071.7	12293.9	9137.4	7283.4	7385.5
72.5°	3054.3	3228.0	4172.9	7319.1	13024.3	17692.6	12840.4	6450.9	3789.8	2819.4	2558.9
75°	1128.8	1133.9	1333.1	2518.0	6185.3	11119.2	5792.0	2073.7	1210.5	990.9	944.9
77.5°	653.8	648.7	694.6	909.1	1792.8	4341.4	1644.6	812.1	658.9	592.5	566.9
80°	408.6	403.5	475.0	602.7	786.6	1190.1	694.6	505.6	444.4	383.1	383.1
82.5°	260.5	265.6	372.9	444.4	480.1	526.1	403.5	357.5	332.0	219.6	214.5
85°	168.5	153.2	260.5	296.2	265.6	234.9	224.7	189.0	173.7	107.3	117.5
87.5°	76.6	81.7	132.8	148.1	97.0	56.2	56.2	40.9	40.9	25.5	25.5
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)