

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: P479046

Luminaire Tested: **IFLD-L-SA8C-760-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479046  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

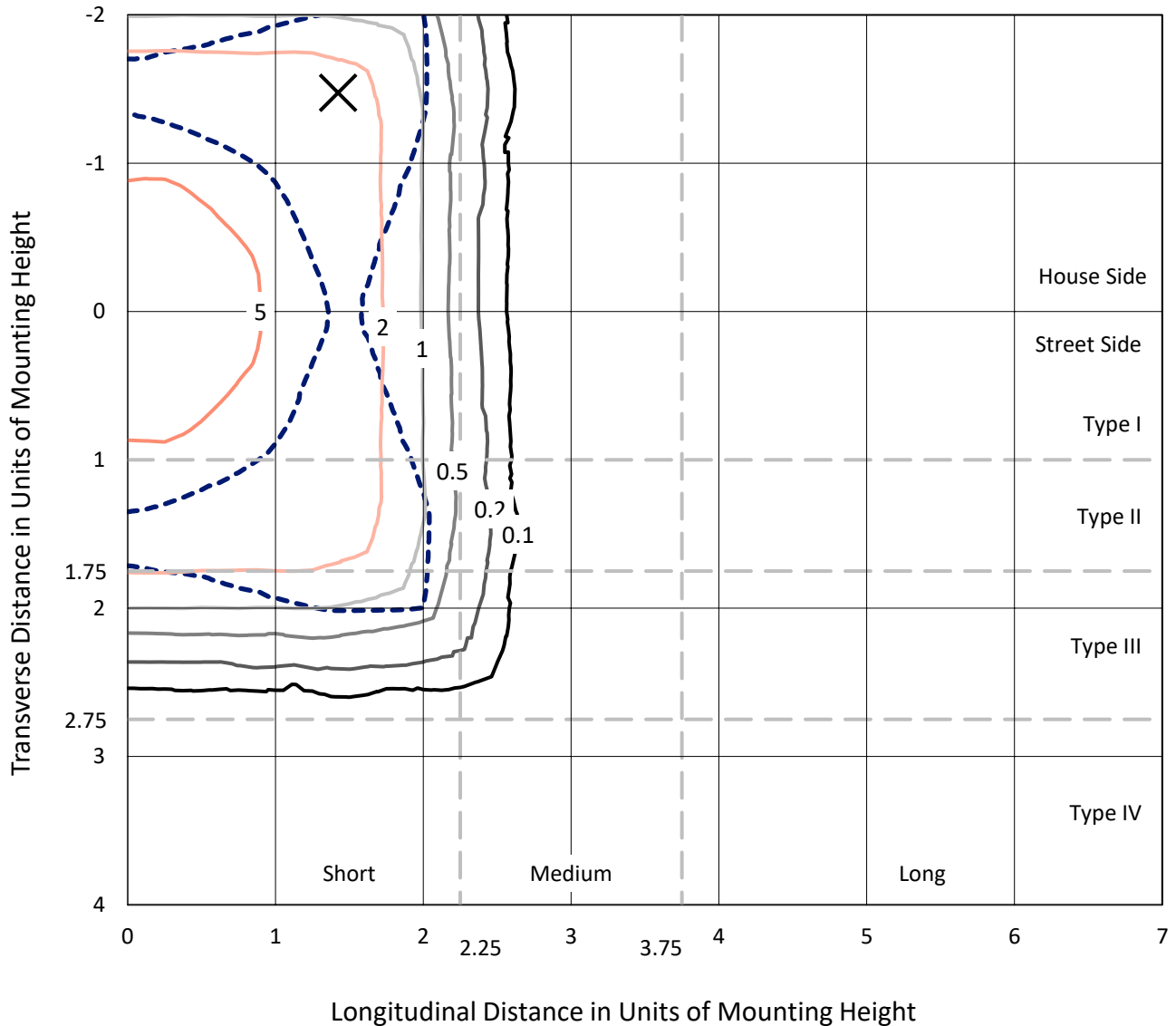
Lumens per Lamp: N/A  
Luminaire Lumens: 51688 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 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

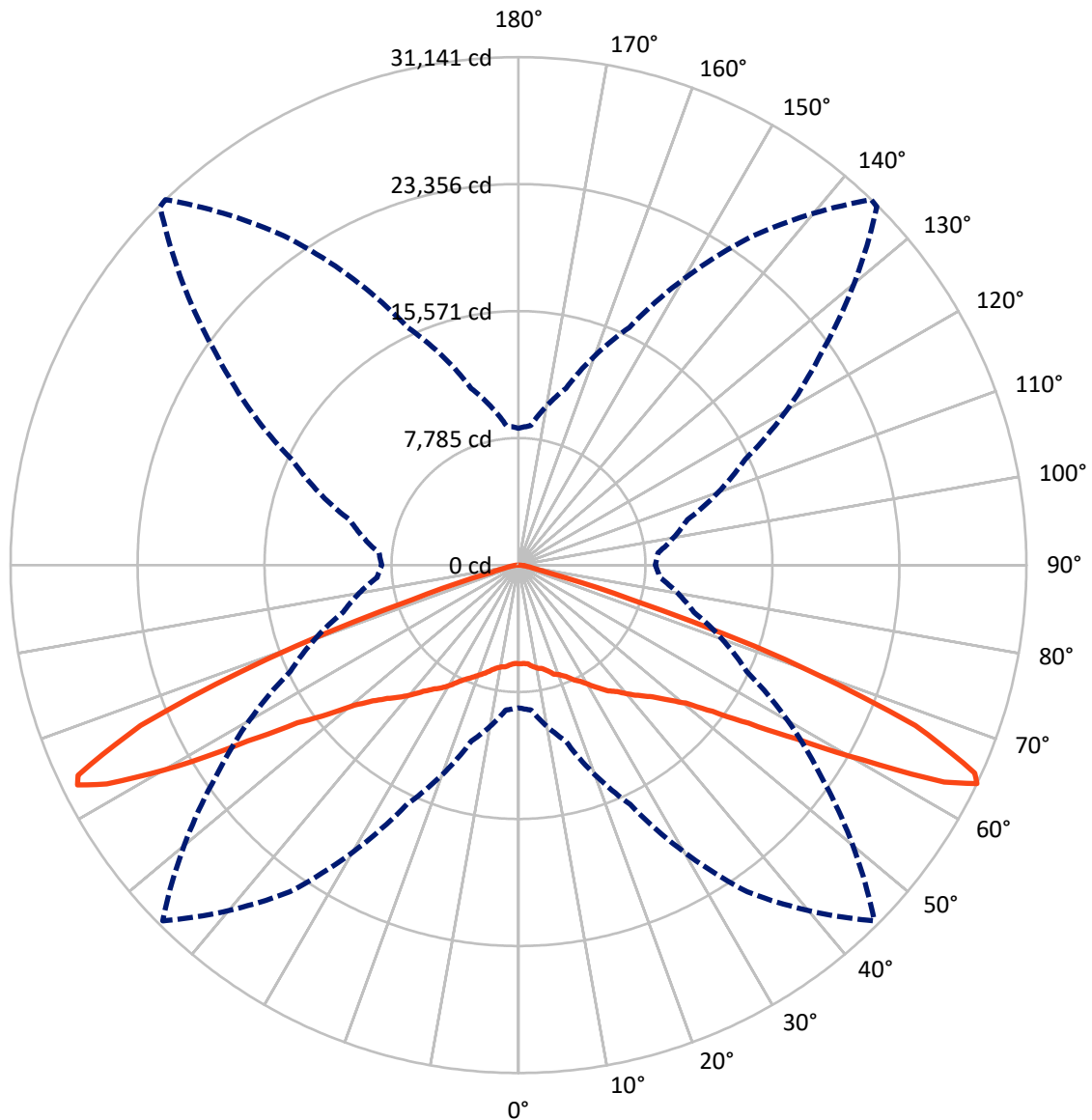
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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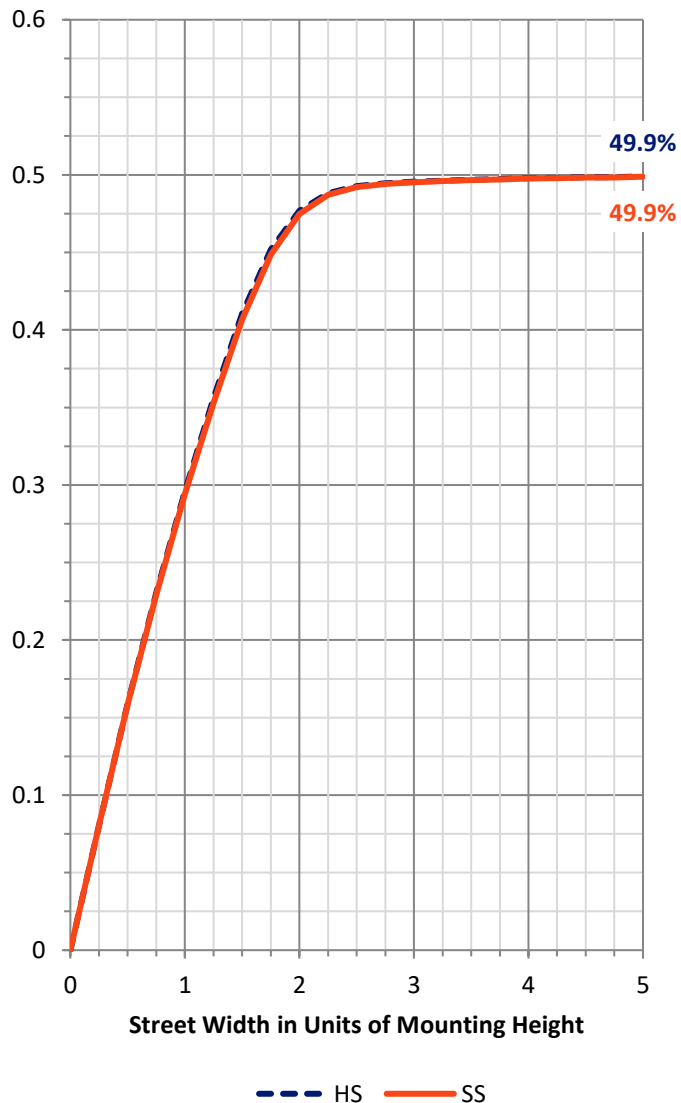
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25868.7	0.0	25868.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25819.4	0.0	25819.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51688.0	0.0	51688.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.6	1.2
10°-20°	1916.5	3.7
20°-30°	3601.8	7.0
30°-40°	5940.0	11.5
40°-50°	9289.7	18.0
50°-60°	15009.9	29.0
60°-70°	13515.5	26.1
70°-80°	1601.0	3.1
80°-90°	219.1	0.4
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°	51688.0	100.0
0°-180°	51688.0	100.0

**Coefficient of Utilization**



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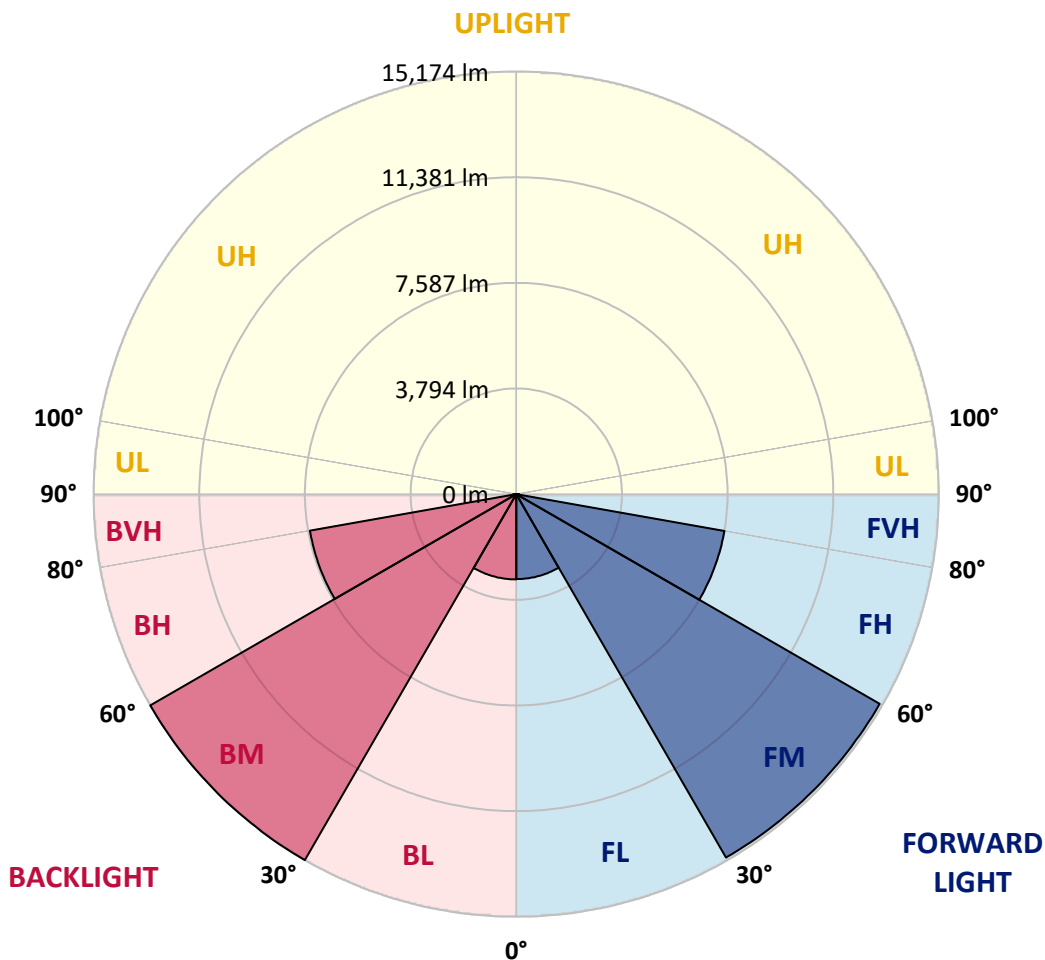
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.5	5.9			
FM (30°-60°)	15065.5	29.1			
FH (60°-80°)	7591.0	14.7			G4/12000
FVH (80°-90°)	112.4	0.2			G2/225
BL (0°-30°)	3062.3	5.9	B4/5000		
BM (30°-60°)	15174.2	29.4	B5		
BH (60°-80°)	7525.5	14.6	B5		G4/12000
BVH (80°-90°)	106.7	0.2			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°	45°	55°	65°	75°	85°	90°
0°	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6
2.5°	5980.5	5992.3	6099.0	6057.5	6093.1	6027.9	6075.3	6176.1	6057.5	6146.4	6176.1
5°	6045.7	6063.5	6063.5	6105.0	6128.7	6116.8	6146.4	6105.0	6217.6	6170.2	6241.3
7.5°	6282.8	6253.1	6205.7	6241.3	6247.2	6276.8	6306.5	6359.8	6342.0	6300.5	6371.7
10°	6324.3	6300.5	6371.7	6377.6	6348.0	6324.3	6353.9	6353.9	6407.2	6419.1	6419.1
12.5°	6395.4	6419.1	6413.2	6460.6	6466.5	6448.7	6496.1	6585.1	6561.3	6579.1	6537.6
15°	6668.0	6638.4	6632.5	6679.9	6756.9	6644.3	6727.3	6721.4	6697.7	6733.2	6638.4
17.5°	6905.1	6810.3	6851.8	6928.8	6899.2	6922.9	7029.6	6934.8	6958.5	6917.0	6887.3
20°	7112.6	7035.5	7041.4	7071.1	7071.1	7142.2	7183.7	7148.1	7124.4	7118.5	7130.3
22.5°	7343.7	7254.8	7260.7	7385.2	7426.7	7403.0	7373.4	7432.6	7444.5	7397.1	7450.4
25°	7515.6	7610.4	7640.1	7699.4	7610.4	7675.6	7651.9	7764.6	7835.7	7740.8	7806.0
27.5°	7966.1	7924.6	8001.6	7995.7	8066.8	8001.6	8043.1	8078.7	8108.3	8114.3	8084.6
30°	8369.1	8386.9	8309.8	8517.3	8351.3	8458.0	8529.2	8546.9	8582.5	8582.5	8493.6
32.5°	8795.9	8760.3	8884.8	8837.4	8807.7	8890.7	8813.7	9056.7	8914.4	8997.4	8896.6
35°	9276.0	9276.0	9323.4	9453.8	9276.0	9222.6	9364.9	9465.6	9465.6	9317.5	9353.0
37.5°	9815.3	9767.9	9827.2	9993.2	9856.8	9679.0	9939.8	9981.3	9951.7	9910.2	9839.1
40°	10194.7	10182.8	10301.4	10520.7	10325.1	10289.5	10336.9	10449.5	10485.1	10526.6	10431.8
42.5°	10834.8	10888.2	11231.9	11178.6	11018.6	10894.1	10882.2	11303.1	11202.3	11095.6	11042.3
45°	11783.2	11735.7	11913.5	11919.5	11712.0	11439.4	11498.6	11883.9	12055.8	11818.7	11907.6
47.5°	12535.9	12559.6	12684.1	12938.9	12458.8	12174.3	12393.6	13016.0	12962.7	12873.7	12956.7
50°	13543.5	13650.2	14041.4	13952.5	13525.7	13176.0	13656.1	14242.9	14308.1	13982.1	13922.8
52.5°	14936.4	15102.4	15315.7	15386.9	14977.9	14853.4	14883.0	15612.1	15452.1	15137.9	14936.4
55°	16157.4	16234.4	16625.6	17212.4	17182.8	16584.1	16927.9	17200.6	16548.6	15902.5	15955.9
57.5°	16679.0	16714.5	17805.1	18978.7	19678.1	19814.4	19423.2	18504.5	16951.6	15706.9	15629.9
60°	15380.9	15718.8	17034.6	19684.0	22878.8	24455.4	21853.4	18652.7	16009.2	14497.8	14385.2
62.5°	12292.9	12310.7	14266.6	18285.2	24870.3	29001.5	22783.9	17259.8	13496.1	11783.2	11332.7
64°	8754.4	8920.3	11166.7	16187.0	24455.4	30850.8	22671.3	15440.2	11125.2	8695.1	8381.0
65°	6282.8	6513.9	8683.3	14053.2	23483.3	30631.5	22333.5	13875.4	8997.4	6638.4	6318.3
67.5°	2311.6	2406.4	3408.1	7029.6	16862.7	26103.1	17698.4	7628.2	3953.4	2815.4	2530.9
70°	1072.8	1078.7	1262.5	2323.4	7373.4	17455.4	8446.2	2862.8	1487.7	1179.5	1096.5
72.5°	788.3	806.1	883.1	1072.8	2169.3	7391.1	2773.9	1173.6	871.3	770.5	752.7
75°	640.1	652.0	675.7	776.5	1001.7	1979.7	1126.2	812.0	693.5	622.3	598.6
77.5°	492.0	492.0	545.3	592.7	663.8	924.6	746.8	646.1	563.1	492.0	474.2
80°	355.6	361.6	426.8	462.3	450.5	610.5	539.4	533.4	462.3	385.3	355.6
82.5°	207.4	225.2	308.2	331.9	320.1	361.6	391.2	414.9	361.6	266.7	243.0
85°	118.5	124.5	177.8	183.7	183.7	171.9	225.2	248.9	243.0	166.0	148.2
87.5°	35.6	35.6	47.4	47.4	53.3	59.3	88.9	106.7	118.5	83.0	77.1
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°	136°	145°	155°	165°	175°	180°
0°	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6	6051.6
2.5°	6146.4	6057.5	6063.5	6087.2	6010.1	6039.8	6128.7	6063.5	6045.7	6010.1	5992.3
5°	6116.8	6211.6	6176.1	6187.9	6170.2	6087.2	6075.3	6128.7	6158.3	6105.0	6211.6
7.5°	6324.3	6282.8	6235.4	6253.1	6211.6	6282.8	6330.2	6223.5	6276.8	6247.2	6187.9
10°	6442.8	6365.7	6401.3	6389.5	6359.8	6430.9	6383.5	6371.7	6324.3	6259.1	6353.9
12.5°	6484.3	6573.2	6632.5	6531.7	6549.5	6513.9	6484.3	6484.3	6430.9	6413.2	6430.9
15°	6668.0	6745.1	6721.4	6798.4	6697.7	6733.2	6768.8	6679.9	6727.3	6596.9	6697.7
17.5°	7005.9	6940.7	7023.7	6922.9	6958.5	7029.6	6917.0	6917.0	6952.5	6881.4	6792.5
20°	7219.3	7189.6	7160.0	7165.9	7106.6	7171.8	7136.3	7118.5	7065.1	7088.9	7136.3
22.5°	7420.8	7379.3	7391.1	7408.9	7450.4	7420.8	7403.0	7420.8	7290.4	7408.9	7243.0
25°	7669.7	7782.3	7746.8	7823.8	7705.3	7782.3	7776.4	7663.8	7734.9	7687.5	7651.9
27.5°	8084.6	8025.3	8078.7	7983.9	8066.8	8072.8	8001.6	8191.3	8108.3	8096.5	8072.8
30°	8618.1	8576.6	8541.0	8487.7	8552.9	8499.5	8558.8	8576.6	8499.5	8440.2	8327.6
32.5°	8920.3	9033.0	9074.4	8944.1	8950.0	8979.6	8926.3	8872.9	8920.3	8938.1	8920.3
35°	9347.1	9453.8	9477.5	9376.7	9323.4	9471.6	9364.9	9542.7	9388.6	9394.5	9234.5
37.5°	9845.0	9874.6	10076.1	9963.5	9916.1	9845.0	10040.6	10016.9	10052.4	9767.9	9910.2
40°	10408.1	10514.7	10627.4	10342.9	10336.9	10402.1	10390.3	10526.6	10461.4	10419.9	10319.1
42.5°	11024.5	11249.7	11267.5	11077.8	10959.3	10947.4	11006.7	11309.0	11314.9	11042.3	10923.7
45°	11842.4	12091.4	12026.2	11658.7	11528.3	11510.5	11800.9	11931.3	12043.9	11937.3	11836.5
47.5°	12861.9	13027.9	12980.4	12642.6	12221.8	12340.3	12624.8	13033.8	12915.2	12773.0	12654.4
50°	13952.5	14148.1	14047.3	13709.5	13306.4	13306.4	13656.1	14177.7	14142.2	13863.6	13756.9
52.5°	15161.6	15446.1	15677.3	15197.2	14859.3	14912.7	15463.9	15653.6	15564.7	15369.1	15280.2
55°	16062.5	16607.8	17082.0	17105.7	17123.5	17117.6	17259.8	17449.5	16815.3	16501.2	16181.1
57.5°	15843.2	16874.6	18498.6	19601.0	19927.0	20098.9	20051.5	19174.3	17674.7	16643.4	16750.1
60°	14278.5	15961.8	18581.6	22120.1	24490.9	24253.9	23388.5	19921.1	17200.6	15458.0	15238.7
62.5°	11392.0	13419.0	17188.7	22831.3	29363.0	29291.9	24763.6	18196.3	14331.8	12126.9	11990.6
64°	8582.5	10716.3	15333.5	22647.6	31070.1	31141.2	24413.9	16074.4	11214.1	8582.5	8375.0
65°	6567.3	8546.9	13513.9	22268.3	30702.6	30744.1	23441.8	13881.4	8523.2	6093.1	5867.9
67.5°	2613.9	3639.3	7331.9	16886.4	26363.9	26251.3	16726.4	6715.4	3259.9	2121.9	2080.4
70°	1114.3	1387.0	2572.4	8001.6	17651.0	17325.0	7201.5	2181.2	1209.1	1013.5	1007.6
72.5°	764.6	847.6	1102.4	2471.6	7337.8	7165.9	2050.8	1013.5	823.9	758.7	758.7
75°	616.4	675.7	800.2	1037.2	1944.1	1873.0	966.1	746.8	657.9	610.5	604.6
77.5°	480.1	539.4	628.3	717.2	889.1	883.1	646.1	563.1	509.7	474.2	462.3
80°	379.3	438.6	497.9	509.7	580.9	569.0	438.6	444.5	414.9	343.8	337.8
82.5°	260.8	355.6	397.1	361.6	343.8	343.8	314.1	314.1	290.4	213.4	195.6
85°	160.0	237.1	248.9	213.4	160.0	160.0	171.9	166.0	154.1	112.6	106.7
87.5°	83.0	112.6	100.8	83.0	53.3	53.3	47.4	35.6	35.6	29.6	29.6
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)