

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: P478925

Luminaire Tested: **IFLD-L-SA7D-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478925
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

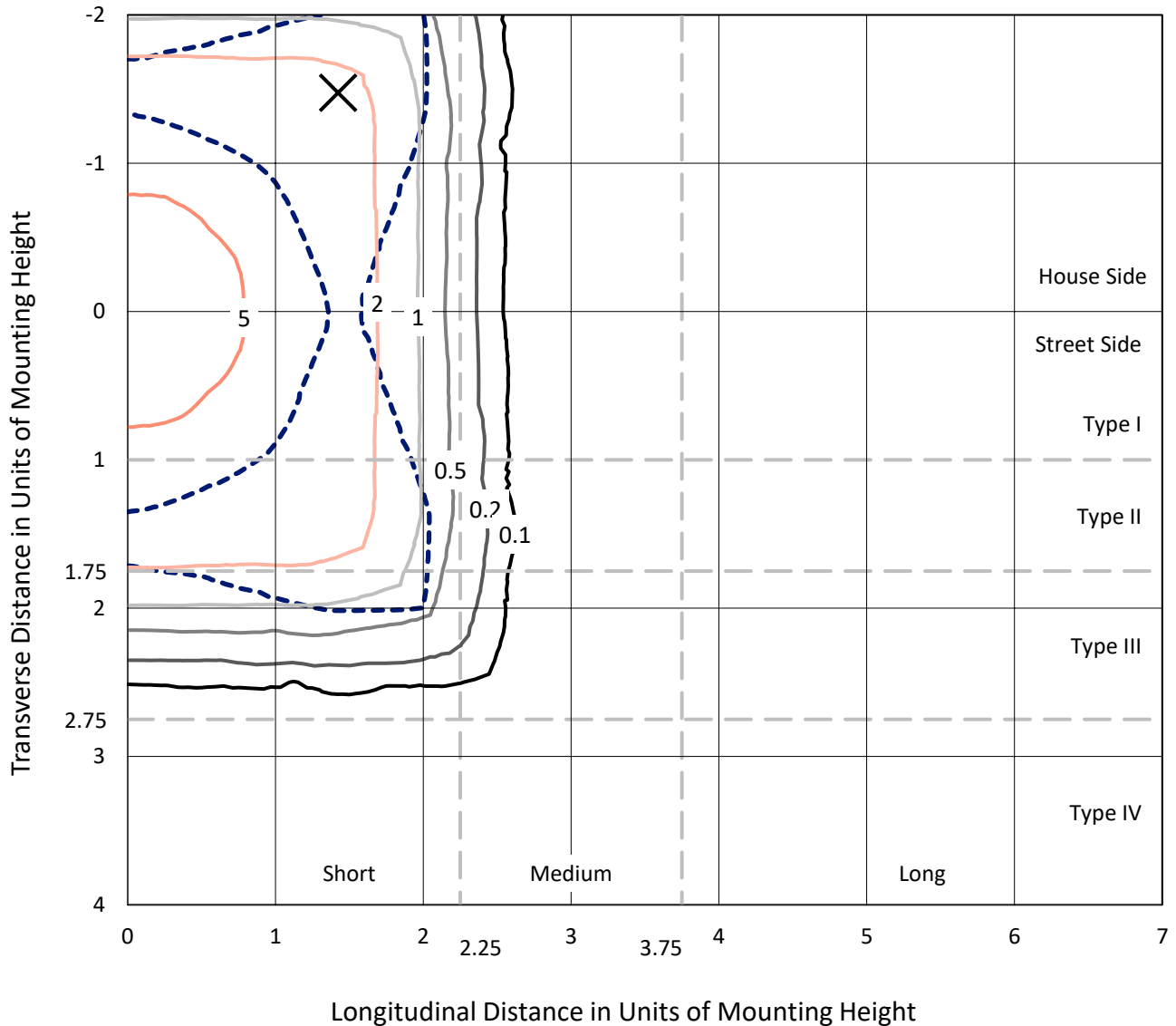
Lumens per Lamp: N/A
Luminaire Lumens: 47984.4 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6
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

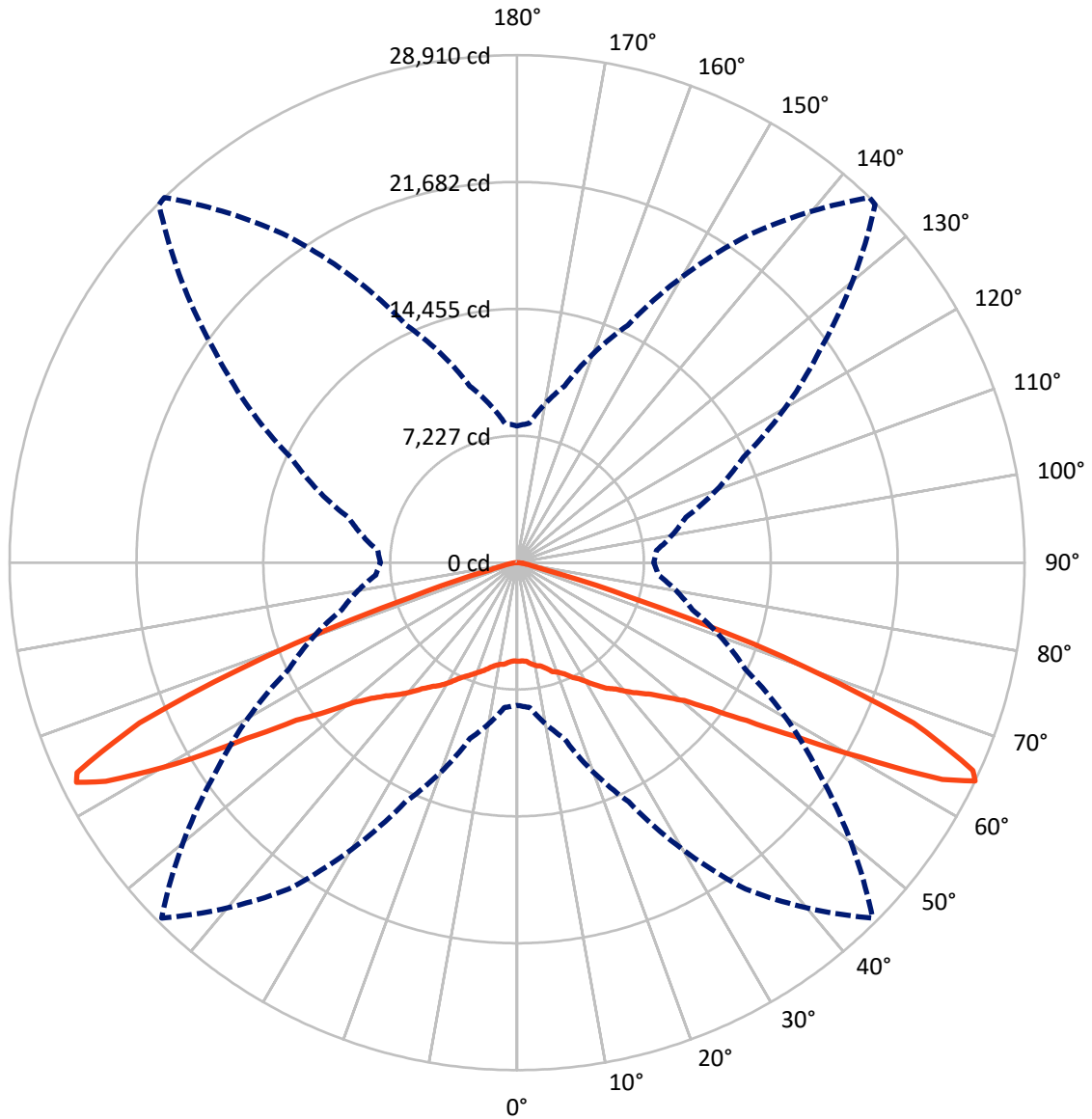
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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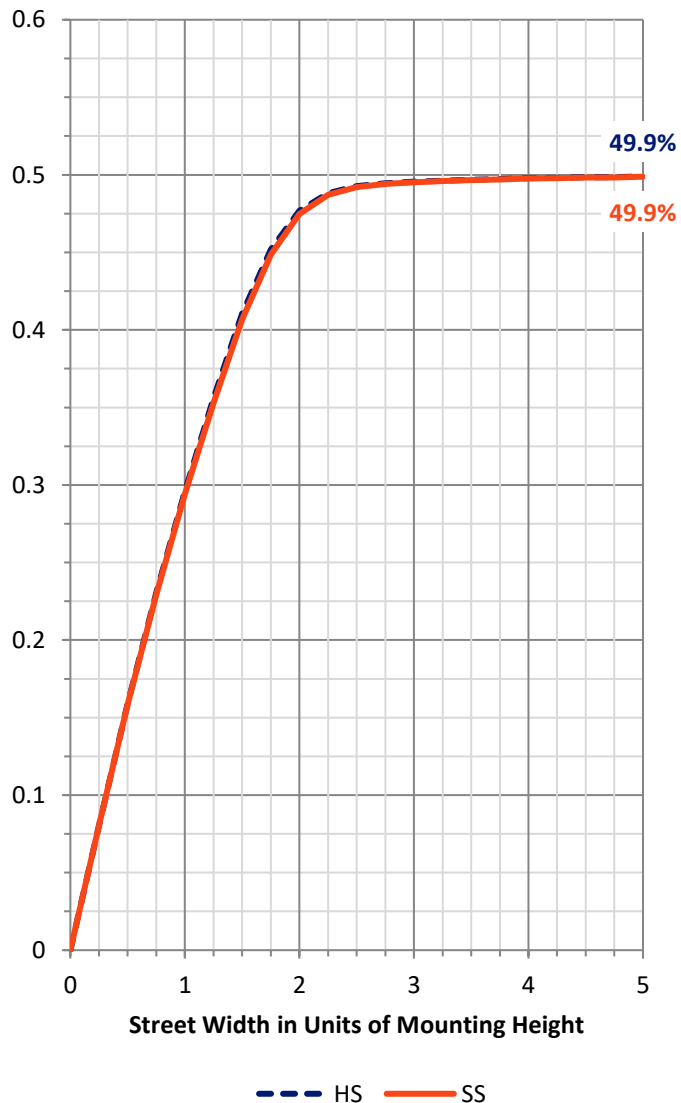
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24015.1	0.0	24015.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23969.3	0.0	23969.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	47984.4	0.0	47984.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.0	1.2
10°-20°	1779.1	3.7
20°-30°	3343.7	7.0
30°-40°	5514.4	11.5
40°-50°	8624.1	18.0
50°-60°	13934.4	29.0
60°-70°	12547.0	26.1
70°-80°	1486.3	3.1
80°-90°	203.4	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°	47984.4	100.0
0°-180°	47984.4	100.0

Coefficient of Utilization



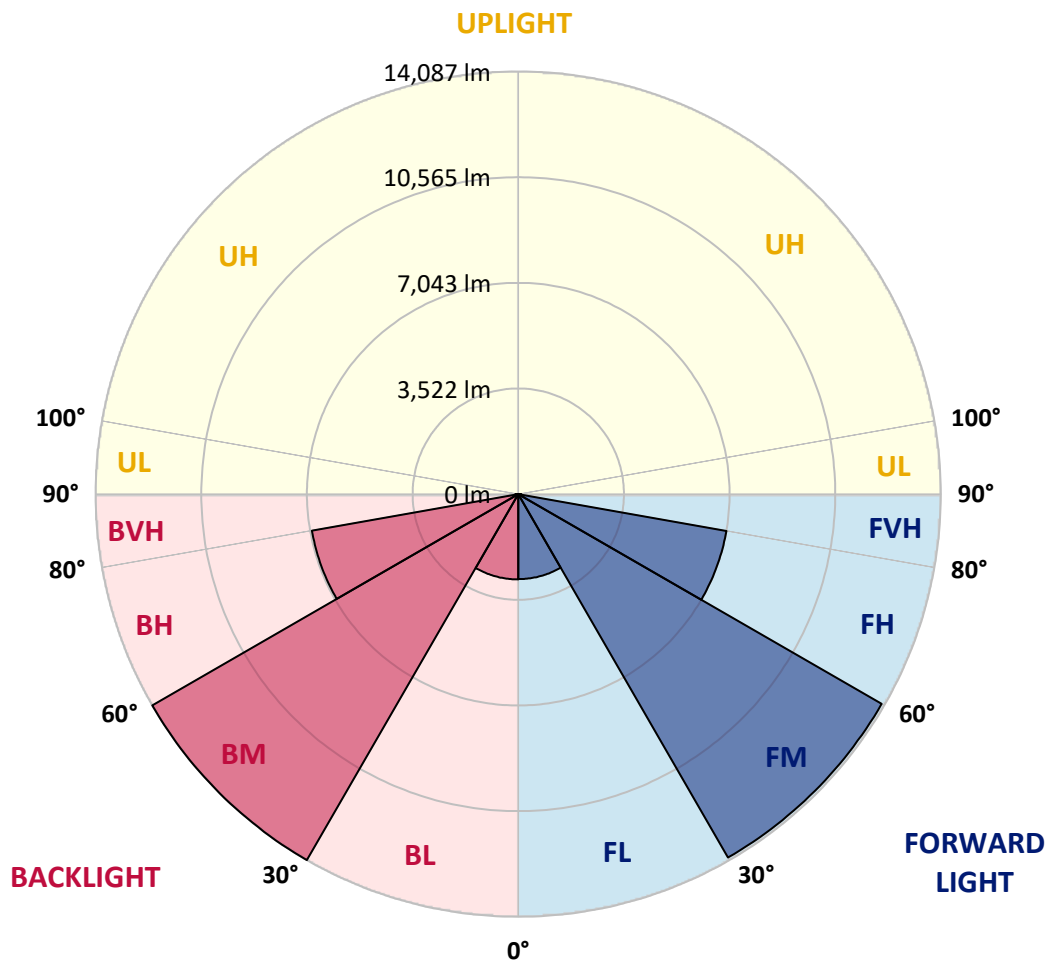
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2832.0	5.9			
FM (30°-60°)	13986.0	29.1			
FH (60°-80°)	7047.1	14.7			G3/7500
FVH (80°-90°)	104.4	0.2			G2/225
BL (0°-30°)	2842.9	5.9	B4/5000		
BM (30°-60°)	14086.9	29.4	B5		
BH (60°-80°)	6986.2	14.6	B5		G3/7500
BVH (80°-90°)	99.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0
2.5°	5552.0	5563.0	5662.0	5623.5	5656.5	5596.0	5640.0	5733.5	5623.5	5706.0	5733.5
5°	5612.5	5629.0	5629.0	5667.5	5689.5	5678.5	5706.0	5667.5	5772.1	5728.0	5794.1
7.5°	5832.6	5805.1	5761.1	5794.1	5799.6	5827.1	5854.6	5904.1	5887.6	5849.1	5915.1
10°	5871.1	5849.1	5915.1	5920.6	5893.1	5871.1	5898.6	5898.6	5948.1	5959.1	5959.1
12.5°	5937.1	5959.1	5953.6	5997.7	6003.2	5986.7	6030.7	6113.2	6091.2	6107.7	6069.2
15°	6190.2	6162.7	6157.2	6201.2	6272.8	6168.2	6245.3	6239.8	6217.8	6250.8	6162.7
17.5°	6410.3	6322.3	6360.8	6432.4	6404.8	6426.8	6525.9	6437.9	6459.9	6421.3	6393.8
20°	6602.9	6531.4	6536.9	6564.4	6564.4	6630.4	6669.0	6635.9	6613.9	6608.4	6619.4
22.5°	6817.5	6735.0	6740.5	6856.0	6894.6	6872.5	6845.0	6900.1	6911.1	6867.0	6916.6
25°	6977.1	7065.1	7092.6	7147.7	7065.1	7125.7	7103.6	7208.2	7274.2	7186.2	7246.7
27.5°	7395.3	7356.8	7428.3	7422.8	7488.8	7428.3	7466.8	7499.8	7527.3	7532.8	7505.3
30°	7769.4	7786.0	7714.4	7907.0	7752.9	7852.0	7918.0	7934.5	7967.5	7967.5	7885.0
32.5°	8165.6	8132.6	8248.2	8204.1	8176.6	8253.7	8182.1	8407.7	8275.7	8352.7	8259.2
35°	8611.3	8611.3	8655.3	8776.4	8611.3	8561.8	8693.9	8787.4	8787.4	8649.8	8682.8
37.5°	9112.0	9068.0	9123.0	9277.1	9150.6	8985.5	9227.6	9266.1	9238.6	9200.1	9134.0
40°	9464.2	9453.2	9563.2	9766.8	9585.2	9552.2	9596.3	9700.8	9733.8	9772.3	9684.3
42.5°	10058.5	10108.0	10427.1	10377.6	10229.0	10113.5	10102.5	10493.2	10399.6	10300.6	10251.0
45°	10938.8	10894.8	11059.9	11065.4	10872.8	10619.7	10674.7	11032.4	11192.0	10971.9	11054.4
47.5°	11637.7	11659.7	11775.2	12011.8	11566.1	11302.0	11505.6	12083.4	12033.8	11951.3	12028.3
50°	12573.1	12672.1	13035.3	12952.7	12556.6	12231.9	12677.6	13222.4	13282.9	12980.3	12925.2
52.5°	13866.1	14020.2	14218.3	14284.3	13904.7	13789.1	13816.6	14493.4	14344.9	14053.2	13866.1
55°	14999.6	15071.2	15434.3	15979.1	15951.6	15395.8	15715.0	15968.1	15362.8	14763.0	14812.6
57.5°	15483.9	15516.9	16529.3	17618.8	18268.1	18394.7	18031.5	17178.6	15737.0	14581.5	14509.9
60°	14278.8	14592.5	15814.0	18273.6	21239.4	22703.1	20287.5	17316.2	14862.1	13459.0	13354.4
62.5°	11412.1	11428.6	13244.4	16975.0	23088.2	26923.4	21151.4	16023.1	12529.1	10938.8	10520.7
64°	8127.1	8281.2	10366.6	15027.2	22703.1	28640.2	21046.8	14333.9	10328.1	8072.1	7780.4
65°	5832.6	6047.2	8061.1	13046.3	21800.7	28436.6	20733.2	12881.2	8352.7	6162.7	5865.6
67.5°	2146.0	2234.0	3163.9	6525.9	15654.4	24232.7	16430.3	7081.6	3670.1	2613.7	2349.5
70°	995.9	1001.4	1172.0	2157.0	6845.0	16204.7	7841.0	2657.7	1381.1	1095.0	1018.0
72.5°	731.8	748.3	819.9	995.9	2013.9	6861.5	2575.1	1089.5	808.9	715.3	698.8
75°	594.3	605.3	627.3	720.8	929.9	1837.8	1045.5	753.8	643.8	577.8	555.7
77.5°	456.7	456.7	506.2	550.2	616.3	858.4	693.3	599.8	522.7	456.7	440.2
80°	330.1	335.6	396.2	429.2	418.2	566.8	500.7	495.2	429.2	357.7	330.1
82.5°	192.6	209.1	286.1	308.1	297.1	335.6	363.2	385.2	335.6	247.6	225.6
85°	110.0	115.6	165.1	170.6	170.6	159.6	209.1	231.1	225.6	154.1	137.6
87.5°	33.0	33.0	44.0	44.0	49.5	55.0	82.5	99.0	110.0	77.0	71.5
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°	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0	5618.0
2.5°	5706.0	5623.5	5629.0	5651.0	5579.5	5607.0	5689.5	5629.0	5612.5	5579.5	5563.0
5°	5678.5	5766.6	5733.5	5744.5	5728.0	5651.0	5640.0	5689.5	5717.0	5667.5	5766.6
7.5°	5871.1	5832.6	5788.6	5805.1	5766.6	5832.6	5876.6	5777.6	5827.1	5799.6	5744.5
10°	5981.2	5909.6	5942.6	5931.6	5904.1	5970.1	5926.1	5915.1	5871.1	5810.6	5898.6
12.5°	6019.7	6102.2	6157.2	6063.7	6080.2	6047.2	6019.7	6019.7	5970.1	5953.6	5970.1
15°	6190.2	6261.8	6239.8	6311.3	6217.8	6250.8	6283.8	6201.2	6245.3	6124.2	6217.8
17.5°	6503.9	6443.4	6520.4	6426.8	6459.9	6525.9	6421.3	6421.3	6454.4	6388.3	6305.8
20°	6702.0	6674.5	6646.9	6652.4	6597.4	6658.0	6624.9	6608.4	6558.9	6580.9	6624.9
22.5°	6889.1	6850.5	6861.5	6878.0	6916.6	6889.1	6872.5	6889.1	6768.0	6878.0	6724.0
25°	7120.2	7224.7	7191.7	7263.2	7153.2	7224.7	7219.2	7114.7	7180.7	7136.7	7103.6
27.5°	7505.3	7450.3	7499.8	7411.8	7488.8	7494.3	7428.3	7604.4	7527.3	7516.3	7494.3
30°	8000.5	7962.0	7929.0	7879.5	7940.0	7890.5	7945.5	7962.0	7890.5	7835.5	7730.9
32.5°	8281.2	8385.7	8424.2	8303.2	8308.7	8336.2	8286.7	8237.2	8281.2	8297.7	8281.2
35°	8677.3	8776.4	8798.4	8704.9	8655.3	8792.9	8693.9	8858.9	8715.9	8721.4	8572.8
37.5°	9139.6	9167.1	9354.1	9249.6	9205.6	9139.6	9321.1	9299.1	9332.1	9068.0	9200.1
40°	9662.3	9761.3	9865.9	9601.8	9596.3	9656.8	9645.8	9772.3	9711.8	9673.3	9579.7
42.5°	10234.5	10443.6	10460.1	10284.1	10174.0	10163.0	10218.0	10498.7	10504.2	10251.0	10141.0
45°	10993.9	11225.0	11164.4	10823.3	10702.2	10685.7	10955.4	11076.4	11181.0	11081.9	10988.4
47.5°	11940.3	12094.4	12050.3	11736.7	11346.0	11456.1	11720.2	12099.9	11989.8	11857.8	11747.7
50°	12952.7	13134.3	13040.8	12727.1	12353.0	12353.0	12677.6	13161.8	13128.8	12870.2	12771.2
52.5°	14075.2	14339.4	14554.0	14108.3	13794.6	13844.1	14355.9	14531.9	14449.4	14267.8	14185.3
55°	14911.6	15417.8	15858.0	15880.0	15896.5	15891.0	16023.1	16199.2	15610.4	15318.8	15021.7
57.5°	14708.0	15665.4	17173.1	18196.6	18499.2	18658.8	18614.8	17800.4	16408.3	15450.8	15549.9
60°	13255.4	14818.1	17250.1	20535.1	22736.1	22516.0	21712.6	18493.7	15968.1	14350.4	14146.8
62.5°	10575.7	12457.5	15957.1	21195.4	27259.1	27193.1	22989.2	16892.5	13304.9	11258.0	11131.4
64°	7967.5	9948.4	14234.8	21024.8	28843.8	28909.8	22664.5	14922.6	10410.6	7967.5	7774.9
65°	6096.7	7934.5	12545.6	20672.7	28502.6	28541.2	21762.1	12886.7	7912.5	5656.5	5447.4
67.5°	2426.6	3378.5	6806.5	15676.4	24474.8	24370.3	15527.9	6234.3	3026.3	1969.9	1931.4
70°	1034.5	1287.6	2388.1	7428.3	16386.3	16083.6	6685.5	2024.9	1122.5	940.9	935.4
72.5°	709.8	786.8	1023.5	2294.5	6812.0	6652.4	1903.8	940.9	764.8	704.3	704.3
75°	572.3	627.3	742.8	962.9	1804.8	1738.8	896.9	693.3	610.8	566.8	561.2
77.5°	445.7	500.7	583.3	665.8	825.4	819.9	599.8	522.7	473.2	440.2	429.2
80°	352.2	407.2	462.2	473.2	539.2	528.2	407.2	412.7	385.2	319.1	313.6
82.5°	242.1	330.1	368.7	335.6	319.1	319.1	291.6	291.6	269.6	198.1	181.6
85°	148.6	220.1	231.1	198.1	148.6	148.6	159.6	154.1	143.1	104.5	99.0
87.5°	77.0	104.5	93.5	77.0	49.5	49.5	44.0	33.0	33.0	27.5	27.5
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)