

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: P481381

Luminaire Tested: **IFLD-L-SA7C-760-U-RW**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481381
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

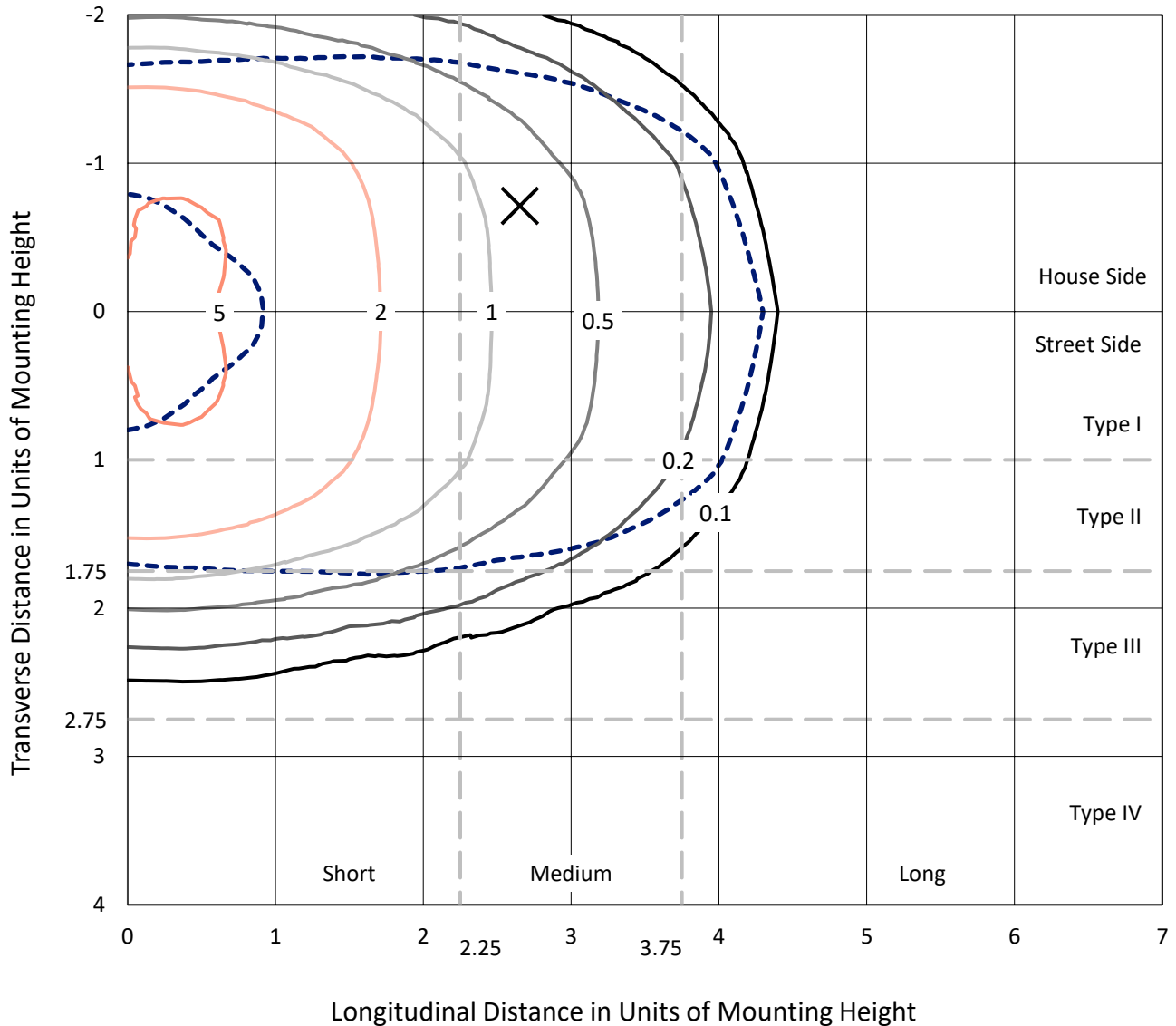
Lumens per Lamp: N/A
Luminaire Lumens: 46707.6 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

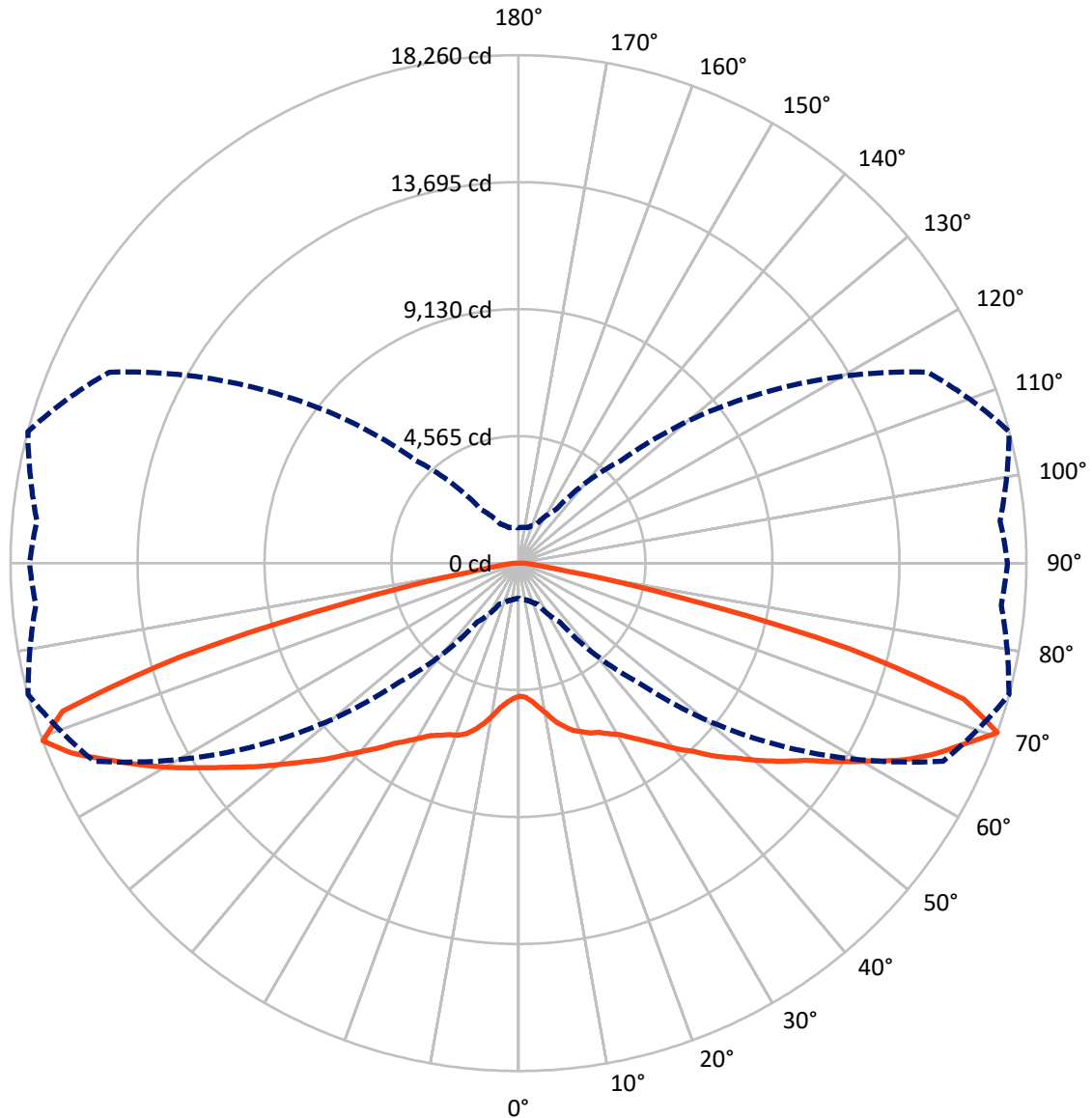
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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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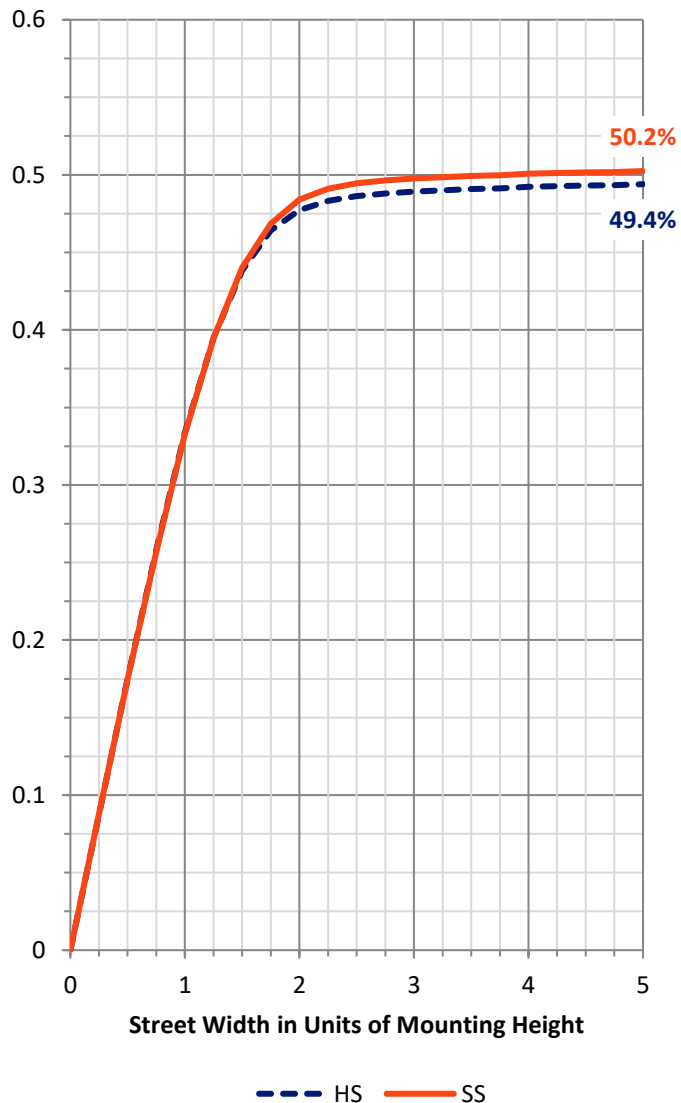
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23187.7	0.0	23187.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	23520.0	0.0	23520.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	46707.6	0.0	46707.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.1	1.0
10°-20°	1620.9	3.5
20°-30°	3138.6	6.7
30°-40°	5308.7	11.4
40°-50°	8469.0	18.1
50°-60°	11592.2	24.8
60°-70°	10926.5	23.4
70°-80°	4813.4	10.3
80°-90°	362.2	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°	46707.6	100.0
0°-180°	46707.6	100.0

Coefficient of Utilization



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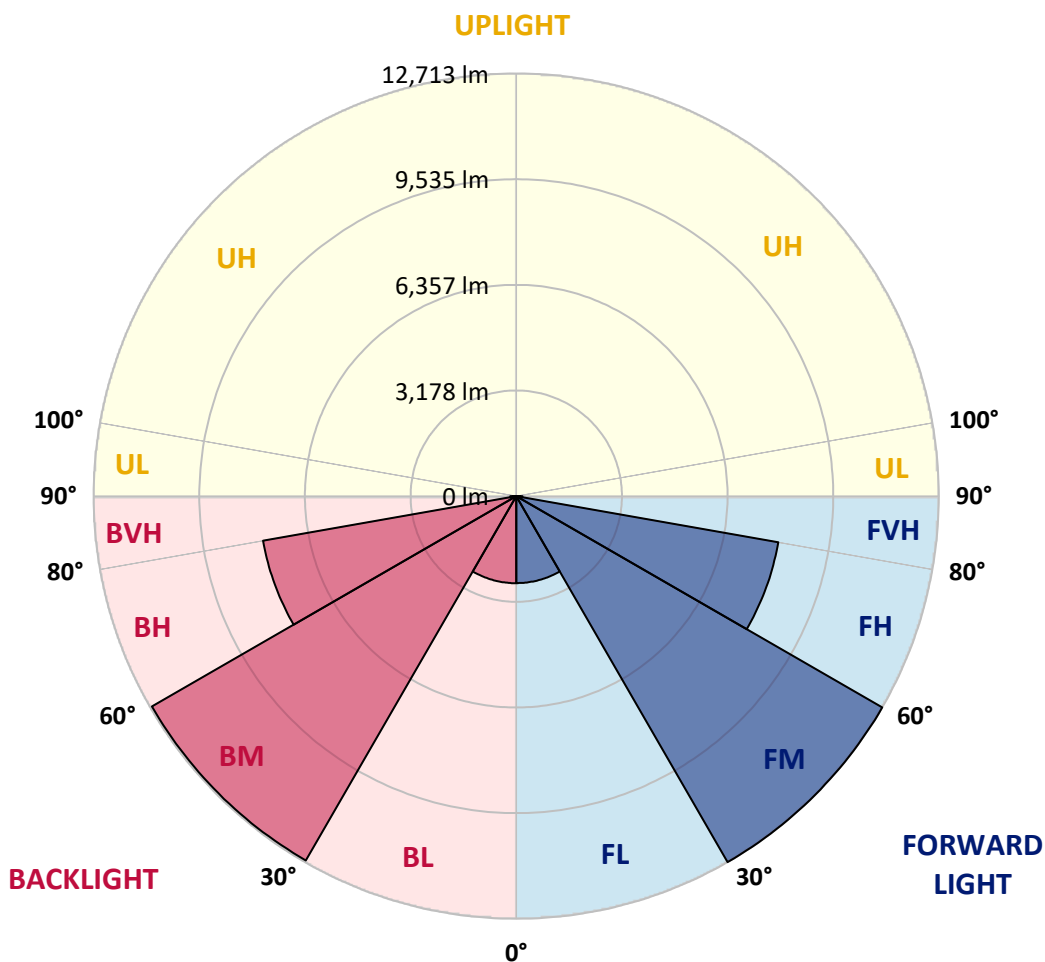
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.4	5.6			
FM (30°-60°)	12713.4	27.2			
FH (60°-80°)	8005.2	17.1			G4/12000
FVH (80°-90°)	185.0	0.4			G2/225
BL (0°-30°)	2619.2	5.6	B4/5000		
BM (30°-60°)	12656.6	27.1	B5		
BH (60°-80°)	7734.7	16.6	B5		G5
BVH (80°-90°)	177.2	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°	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8
2.5°	4752.6	4752.6	4747.6	4772.7	4797.9	4808.0	4828.1	4833.2	4863.4	4838.2	4888.5
5°	4737.5	4732.5	4772.7	4833.2	4833.2	4898.6	4938.9	4994.3	5009.4	5039.6	5049.6
7.5°	4843.2	4833.2	4813.0	4878.5	4933.9	5034.5	5089.9	5185.6	5220.8	5261.1	5306.4
10°	4908.7	4908.7	4888.5	5004.3	5054.7	5190.6	5311.4	5407.1	5543.0	5588.3	5593.4
12.5°	4918.8	4933.9	4994.3	5145.3	5286.3	5462.5	5553.1	5734.3	5870.3	5955.9	5986.1
15°	5069.8	5039.6	5105.0	5311.4	5517.9	5673.9	5835.0	5965.9	6162.3	6273.0	6343.5
17.5°	5205.7	5175.5	5296.3	5543.0	5754.5	5996.1	6137.1	6278.1	6419.0	6519.7	6524.8
20°	5422.2	5447.4	5553.1	5819.9	6096.8	6308.3	6469.4	6494.6	6565.0	6711.0	6685.9
22.5°	5689.0	5668.9	5890.4	6182.4	6484.5	6660.7	6751.3	6685.9	6650.6	6806.7	6841.9
25°	5955.9	6016.3	6217.7	6489.5	6852.0	7088.6	7113.8	6932.6	6801.7	6857.0	6841.9
27.5°	6363.7	6373.7	6585.2	6907.4	7274.9	7481.3	7466.2	7209.5	6957.7	6962.8	6972.8
30°	6887.3	6836.9	7068.5	7360.5	7723.0	7909.3	7934.4	7566.9	7229.6	7128.9	7154.1
32.5°	7390.7	7451.1	7652.5	7984.8	8251.6	8357.3	8302.0	7974.7	7536.7	7400.8	7415.9
35°	8035.1	8025.1	8302.0	8583.9	8785.3	8805.4	8760.1	8281.8	7869.0	7692.8	7622.3
37.5°	8724.9	8815.5	8996.7	9228.3	9439.8	9449.8	9203.1	8820.5	8312.0	8020.0	8105.6
40°	9495.2	9595.8	9726.7	10064.1	10220.1	10059.0	9807.3	9288.7	8760.1	8503.3	8543.6
42.5°	10174.8	10220.1	10487.0	10884.7	10960.2	10889.7	10517.2	9887.8	9273.6	8991.7	9011.8
45°	10799.1	10859.5	11206.9	11564.3	11740.6	11619.7	11186.8	10587.6	9872.7	9631.1	9535.4
47.5°	11373.0	11493.9	11831.2	12198.7	12470.6	12480.6	11947.0	11222.0	10466.8	10149.6	10144.6
50°	11760.7	11936.9	12269.2	12687.1	13084.8	13240.9	12707.2	11926.8	11116.3	10779.0	10743.7
52.5°	11972.1	12153.4	12485.7	13135.1	13578.2	13819.8	13568.1	12586.4	11876.5	11524.1	11468.7
55°	11715.4	11836.2	12379.9	13291.2	13975.9	14373.6	14207.5	13497.6	12631.7	12344.7	12395.0
57.5°	10622.9	10874.6	11544.2	12682.0	13965.8	14942.5	14927.4	14358.5	13502.6	13230.8	13240.9
60°	8745.0	8956.5	9782.1	11373.0	13402.0	15174.1	15707.8	15194.3	14479.4	14162.2	14152.1
62.5°	6172.4	6439.2	7395.7	9132.7	11740.6	14851.9	16603.9	16246.5	15435.9	15204.3	15289.9
65°	3453.7	3614.8	4500.9	6071.7	8946.4	13079.7	16765.0	17339.0	16407.6	16055.2	16070.3
67.5°	1847.7	1908.1	2320.9	3186.9	5472.6	10084.2	15138.9	17968.3	17459.8	16850.6	16755.0
70°	1268.7	1288.8	1394.6	1631.2	2587.8	6031.4	11418.3	16845.6	18250.2	17419.5	17580.6
72.5°	1072.4	1062.3	1087.5	1112.6	1354.3	2698.5	6701.0	12964.0	17228.2	16916.1	16855.7
75°	931.4	926.4	936.4	911.3	941.5	1188.2	2965.3	8080.4	12611.5	14076.6	14303.1
77.5°	770.3	775.3	780.4	755.2	745.1	785.4	1193.2	3549.4	6207.6	6852.0	7390.7
80°	584.0	594.1	634.4	609.2	568.9	573.9	704.8	1188.2	1782.2	1616.1	1666.4
82.5°	397.7	402.8	488.4	458.1	427.9	387.7	453.1	614.2	694.8	528.6	463.2
85°	281.9	276.9	317.2	292.0	271.9	196.3	271.9	347.4	417.9	261.8	236.6
87.5°	65.4	65.4	130.9	105.7	100.7	80.6	105.7	135.9	181.2	115.8	105.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8	4782.8
2.5°	4873.4	4828.1	4828.1	4818.1	4777.8	4767.7	4732.5	4742.5	4717.4	4692.2
5°	5044.6	4984.2	4984.2	4898.6	4818.1	4808.0	4767.7	4767.7	4727.4	4737.5
7.5°	5281.2	5225.9	5135.2	5059.7	4949.0	4903.6	4828.1	4818.1	4808.0	4787.9
10°	5563.2	5492.7	5402.1	5246.0	5155.4	5069.8	4994.3	4888.5	4863.4	4868.4
12.5°	5945.8	5835.0	5638.7	5502.8	5387.0	5276.2	5165.4	5009.4	4974.1	4989.2
15°	6217.7	6076.7	5880.3	5830.0	5673.9	5538.0	5356.8	5180.5	5120.1	5105.0
17.5°	6439.2	6323.4	6207.6	6132.1	6006.2	5840.1	5588.3	5387.0	5251.0	5235.9
20°	6620.4	6469.4	6444.2	6489.5	6333.5	6222.7	5915.6	5668.9	5487.7	5412.1
22.5°	6731.2	6635.5	6706.0	6746.3	6736.2	6549.9	6232.8	5945.8	5719.2	5648.8
25°	6852.0	6741.3	6993.0	7128.9	7164.2	6857.0	6610.4	6232.8	6011.2	5965.9
27.5°	6912.4	6952.7	7244.7	7531.7	7506.5	7269.9	6937.6	6600.3	6424.1	6343.5
30°	7088.6	7154.1	7597.1	7919.3	7924.4	7692.8	7441.1	7058.4	6862.1	6826.8
32.5°	7405.8	7486.4	7959.6	8302.0	8362.4	8186.2	7934.4	7697.8	7496.4	7415.9
35°	7647.5	7853.9	8387.6	8699.7	8860.8	8755.1	8614.1	8367.4	8156.0	8085.5
37.5°	7994.9	8281.8	8795.3	9218.3	9399.5	9389.4	9283.7	9016.9	8840.7	8780.2
40°	8493.3	8780.2	9248.5	9807.3	10144.6	10129.5	10069.1	9862.7	9600.9	9570.7
42.5°	9021.9	9258.5	9867.7	10507.1	10990.4	10940.1	10779.0	10537.3	10356.1	10315.8
45°	9535.4	9902.9	10466.8	11287.4	11649.9	11775.8	11584.5	11171.7	10965.2	10940.1
47.5°	10179.8	10471.9	11176.7	11911.7	12450.4	12470.6	12143.3	11760.7	11383.1	11463.7
50°	10753.8	11141.4	11856.4	12661.9	13306.3	13074.7	12656.8	12178.6	11906.7	11801.0
52.5°	11368.0	11841.2	12671.9	13492.6	13850.0	13618.4	12938.8	12405.1	11992.3	11947.0
55°	12264.2	12510.8	13598.3	14227.6	14343.4	13855.1	12853.2	12098.0	11564.3	11433.5
57.5°	13175.4	13462.4	14413.9	14957.6	14836.8	13724.2	12299.4	11131.4	10431.6	10245.3
60°	14096.7	14449.1	15249.6	15748.1	15123.8	12823.0	10733.6	9228.3	8412.7	8246.6
62.5°	15123.8	15581.9	16296.8	16473.0	14272.9	11040.8	8518.4	6660.7	5835.0	5558.1
65°	16035.0	16503.2	17384.3	16322.0	12465.5	8236.5	5507.8	3806.1	3196.9	2975.4
67.5°	16785.2	17313.8	17746.8	14444.1	9127.6	4823.1	2869.7	2003.7	1777.2	1696.6
70°	17379.2	18260.3	16236.4	10617.9	5215.8	2351.1	1550.6	1319.1	1288.8	1268.7
72.5°	16860.7	16744.9	12123.2	6127.0	2285.7	1293.9	1122.7	1087.5	1082.4	1087.5
75°	13789.6	12299.4	7249.7	2663.3	1147.9	936.4	931.4	916.3	941.5	941.5
77.5°	6690.9	5850.1	3030.8	1142.8	755.2	735.0	760.2	760.2	760.2	760.2
80°	1550.6	1716.8	1082.4	694.8	548.8	548.8	604.1	609.2	584.0	573.9
82.5°	528.6	704.8	594.1	438.0	362.5	407.8	458.1	468.2	387.7	392.7
85°	261.8	412.8	322.2	251.7	186.3	251.7	297.0	312.1	266.8	256.8
87.5°	120.8	181.2	120.8	85.6	65.4	90.6	85.6	70.5	40.3	40.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)