

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: P478304

Luminaire Tested: **IFLD-L-SA8B-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478304
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

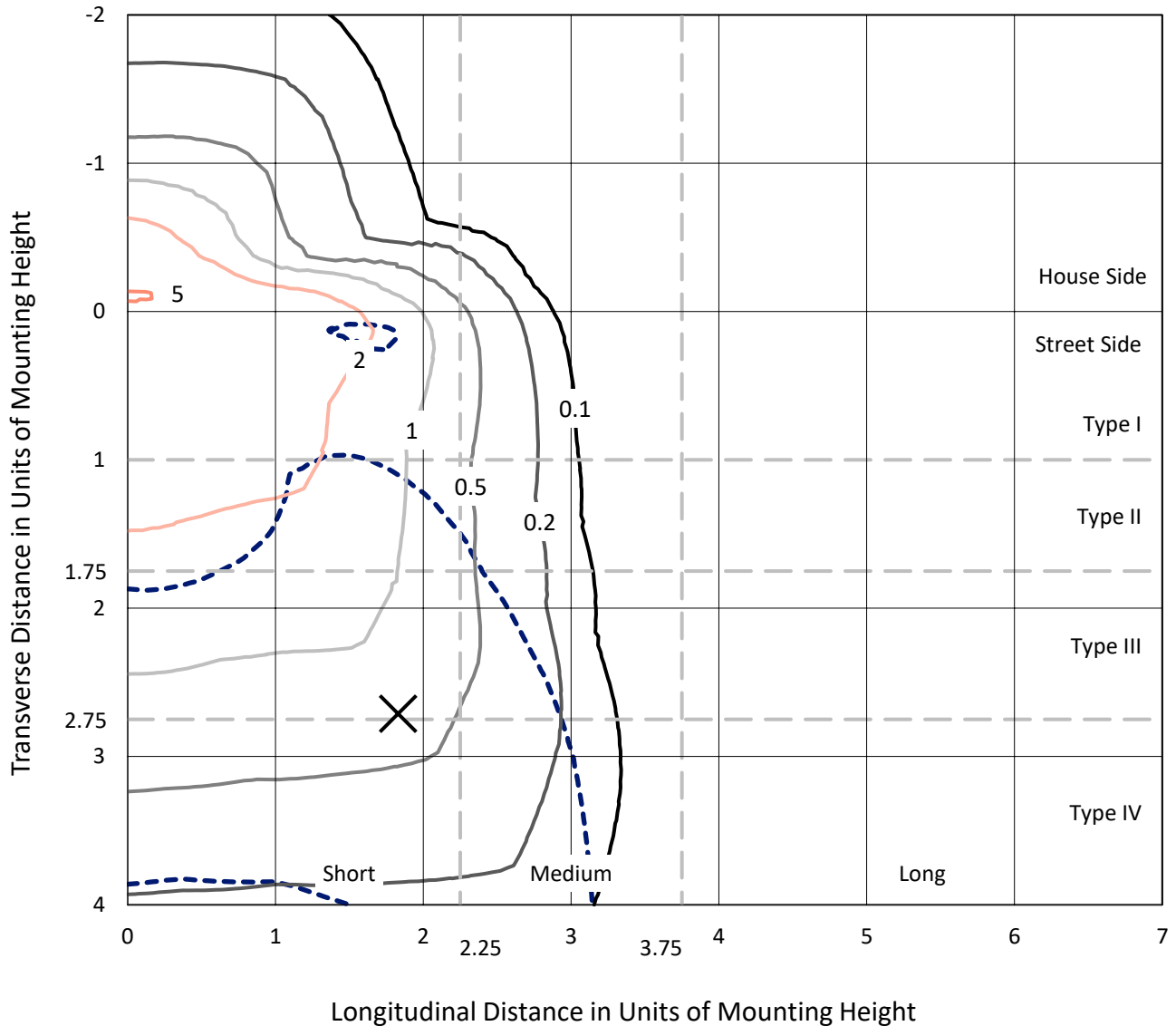
Lumens per Lamp: N/A
Luminaire Lumens: 30650.3 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

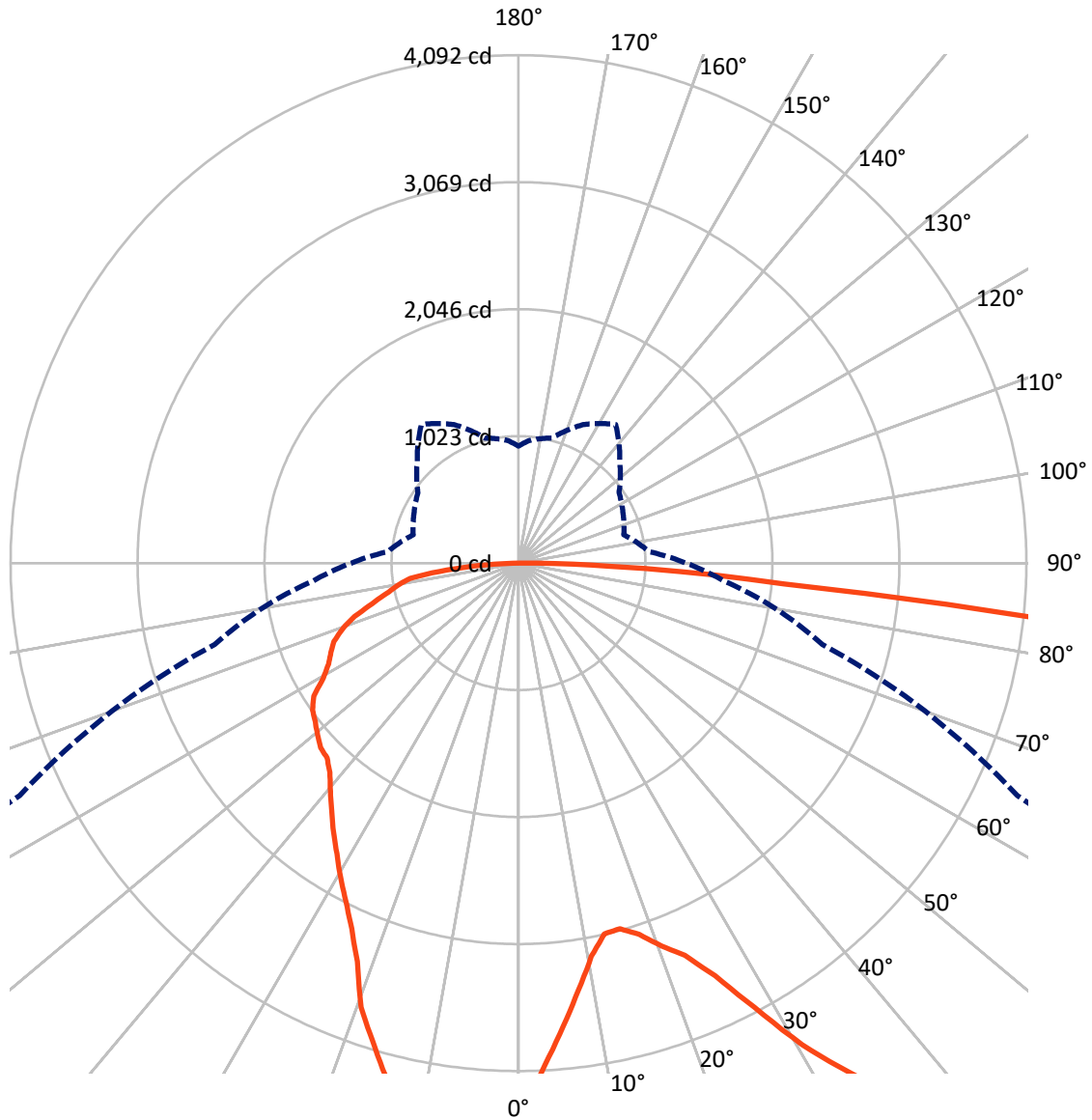
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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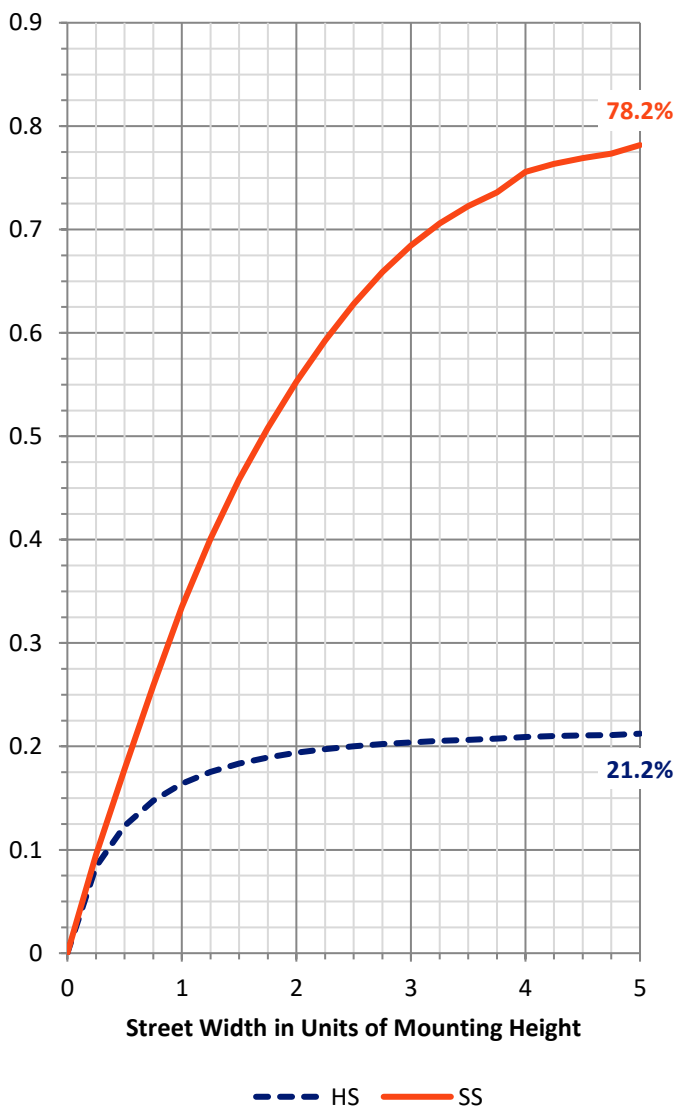
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6620.9	0.0	6620.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24029.5	0.0	24029.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	30650.3	0.0	30650.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.6	1.3
10°-20°	1135.0	3.7
20°-30°	1868.1	6.1
30°-40°	2793.7	9.1
40°-50°	4141.5	13.5
50°-60°	5968.3	19.5
60°-70°	7616.4	24.8
70°-80°	5926.8	19.3
80°-90°	795.1	2.6
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°	30650.3	100.0
0°-180°	30650.3	100.0

Coefficient of Utilization



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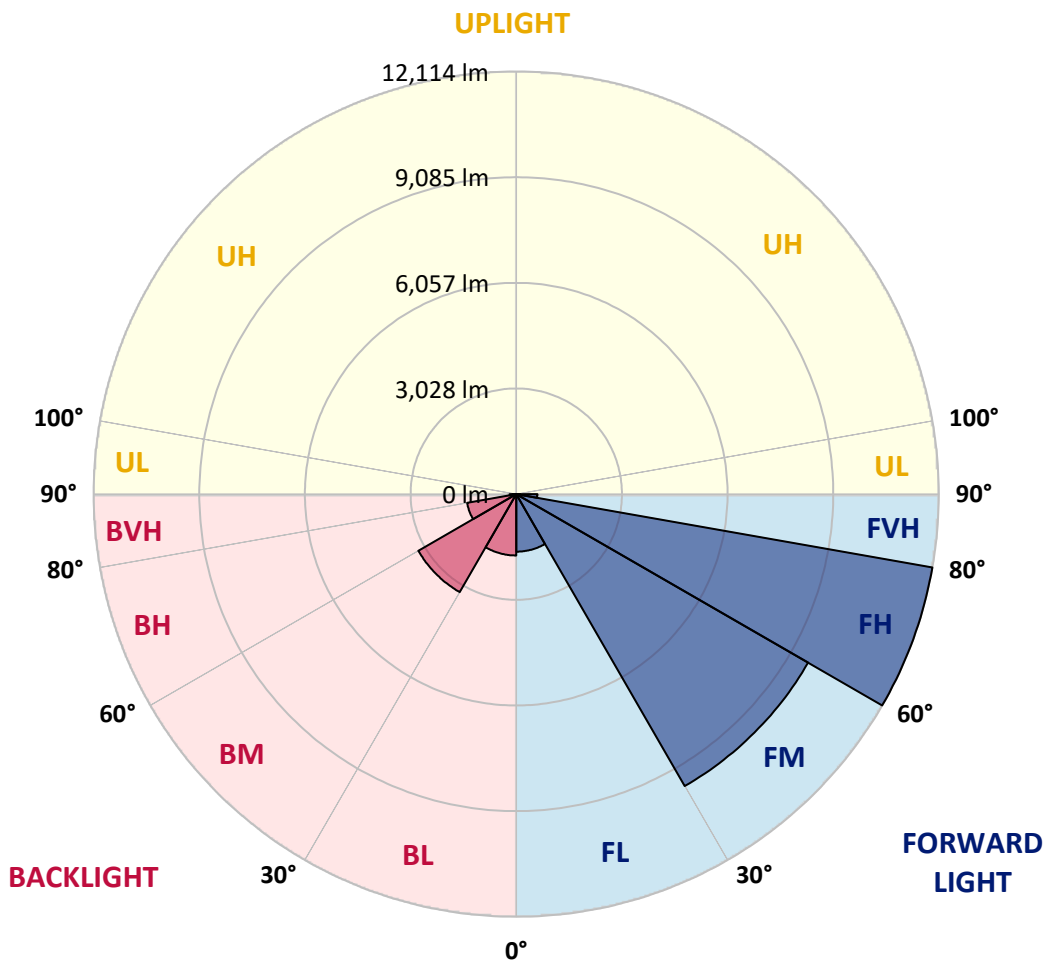
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.5	5.4			
FM (30°-60°)	9661.2	31.5			
FH (60°-80°)	12113.6	39.5			G5
FVH (80°-90°)	605.2	2.0			G4/750
BL (0°-30°)	1759.1	5.7	B3/2500		
BM (30°-60°)	3242.3	10.6	B3/5000		
BH (60°-80°)	1429.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	189.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2
2.5°	3937.3	3950.2	3992.4	4002.1	4047.5	4021.5	4076.6	4173.8	4228.9	4310.0	4407.2
5°	3626.2	3571.1	3597.0	3697.5	3749.3	3762.3	3820.6	3985.9	4089.6	4209.5	4391.0
7.5°	3260.0	3250.3	3302.1	3366.9	3470.6	3480.4	3610.0	3755.8	3969.7	4235.4	4449.3
10°	3010.5	3052.6	3081.8	3149.8	3221.1	3221.1	3386.4	3639.2	3882.2	4138.2	4462.3
12.5°	2997.5	2971.6	2978.1	3013.7	3065.6	3130.4	3285.9	3512.8	3820.6	4118.8	4517.3
15°	3039.6	3049.4	2991.0	3036.4	3055.9	3078.5	3250.3	3506.3	3781.7	4186.8	4611.3
17.5°	3263.2	3208.2	3117.4	3075.3	3143.3	3143.3	3260.0	3460.9	3788.2	4222.5	4747.4
20°	3438.2	3438.2	3289.2	3243.8	3292.4	3282.7	3363.7	3512.8	3820.6	4293.7	4899.7
22.5°	3733.1	3775.3	3529.0	3435.0	3431.8	3457.7	3529.0	3655.4	3911.4	4394.2	5045.6
25°	4157.6	4167.4	3882.2	3785.0	3681.3	3723.4	3736.4	3862.8	3992.4	4510.9	5210.8
27.5°	4630.8	4624.3	4361.8	4118.8	4050.7	4060.4	3989.1	4073.4	4112.3	4546.5	5447.4
30°	5155.7	5097.4	4899.7	4556.2	4501.1	4439.6	4284.0	4280.8	4361.8	4747.4	5774.7
32.5°	5499.2	5424.7	5288.6	5042.3	4890.0	4896.5	4650.2	4647.0	4575.7	4967.8	6059.9
35°	5836.3	5722.8	5687.2	5434.4	5282.1	5298.3	5100.6	5074.7	4945.1	5301.6	6529.7
37.5°	6241.3	6140.9	6196.0	6004.8	5816.8	5739.0	5648.3	5615.9	5447.4	5771.4	7171.4
40°	6688.5	6656.1	6620.5	6526.5	6413.1	6419.6	6322.3	6289.9	6040.4	6338.5	7787.1
42.5°	7291.3	7168.1	6983.4	7045.0	7103.3	7164.9	7132.5	7048.2	6789.0	6915.4	8474.1
45°	7851.9	7689.9	7349.6	7369.0	7608.8	7657.5	8049.6	8039.8	7518.1	7647.7	9255.1
47.5°	8231.0	8156.5	7952.3	7929.7	8273.2	8269.9	8976.4	8976.4	8286.1	8376.9	10094.4
50°	8794.9	8600.5	8513.0	8626.4	8801.4	8921.3	9922.6	9984.2	9041.2	9138.4	11192.9
52.5°	9456.0	9212.9	8992.6	9284.2	9595.3	9673.1	10859.1	10833.2	9621.2	10023.1	12479.4
55°	10003.6	9880.5	9728.2	9896.7	10405.5	10502.7	11798.9	11559.1	10201.3	10755.4	13098.4
57.5°	10642.0	10716.5	10749.0	10706.8	11312.8	11465.1	12871.5	12184.5	10700.3	11248.0	13461.3
60°	11604.5	11649.8	11692.0	11792.4	12434.0	12647.9	13720.6	12968.7	11014.7	11533.2	13490.5
62.5°	13069.2	12894.2	12988.2	13334.9	13850.2	14093.2	14971.4	13519.6	11254.5	11704.9	12537.7
65°	14744.6	14508.0	14410.8	14858.0	16193.1	15998.7	16533.4	13931.2	10907.7	11063.3	10632.3
67.5°	16442.6	16468.5	16219.0	17116.7	18753.1	18753.1	17985.1	14128.9	9968.0	8966.6	7456.5
70°	17790.7	17871.7	18007.8	19748.0	22340.5	22732.6	19783.6	13318.7	8052.8	5969.1	4076.6
72.5°	17771.3	17528.2	18224.9	21429.9	25600.5	25273.2	20159.6	10531.8	5026.1	2923.0	1869.8
73°	17372.7	17168.5	17930.0	21413.7	25733.3	25425.5	19884.1	9708.7	4433.1	2534.1	1662.4
75°	14187.2	13817.8	15114.0	19394.8	23808.4	24045.0	16893.1	6332.1	2430.4	1562.0	1169.8
77.5°	6468.2	6630.2	8318.5	13010.9	18348.1	18626.8	11105.4	2738.3	1331.9	1095.3	862.0
80°	2077.2	2180.9	3237.3	6468.2	11500.8	12003.1	5133.1	1244.4	949.5	839.3	644.9
82.5°	793.9	790.7	1357.8	2689.7	5450.6	5771.4	1876.3	758.3	706.4	618.9	456.9
85°	278.7	291.7	512.0	1062.9	2145.3	2245.7	651.4	421.3	489.3	414.8	262.5
87.5°	97.2	100.5	181.5	385.6	738.8	781.0	181.5	168.5	243.0	239.8	132.9
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°	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2
2.5°	4439.6	4468.7	4478.5	4595.1	4595.1	4595.1	4640.5	4640.5	4627.5	4595.1	4672.9
5°	4459.0	4510.9	4611.3	4711.8	4737.7	4760.4	4822.0	4770.1	4789.6	4757.1	4786.3
7.5°	4514.1	4585.4	4773.4	4834.9	4792.8	4841.4	4776.6	4740.9	4705.3	4718.3	4672.9
10°	4608.1	4698.8	4786.3	4899.7	4818.7	4770.1	4637.2	4604.8	4491.4	4452.5	4488.2
12.5°	4724.7	4834.9	4984.0	4941.9	4786.3	4647.0	4504.4	4368.3	4300.2	4203.0	4228.9
15°	4841.4	4967.8	4990.5	4919.2	4724.7	4549.8	4290.5	4099.3	4031.3	3943.8	3989.1
17.5°	4967.8	5087.7	5048.8	4864.1	4601.6	4335.9	4041.0	3853.0	3710.4	3655.4	3655.4
20°	5155.7	5214.1	5152.5	4773.4	4452.5	4102.6	3817.4	3603.5	3460.9	3438.2	3402.6
22.5°	5301.6	5395.5	5120.1	4640.5	4235.4	3797.9	3470.6	3389.6	3347.5	3311.9	3266.5
25°	5489.5	5486.3	5061.8	4517.3	3862.8	3435.0	3237.3	3230.8	3211.4	3198.4	3260.0
27.5°	5667.7	5593.2	4993.7	4212.7	3477.1	3159.6	3052.6	3123.9	3153.1	3133.6	3159.6
30°	5949.7	5826.5	4896.5	3888.7	3136.9	2880.9	2900.3	2997.5	3046.1	3075.3	3036.4
32.5°	6247.8	6059.9	4695.6	3551.7	2835.5	2705.9	2751.2	2851.7	2910.0	2942.4	2978.1
35°	6678.8	6241.3	4491.4	3110.9	2618.4	2598.9	2624.9	2679.9	2764.2	2786.9	2796.6
37.5°	7210.3	6516.8	4216.0	2757.7	2449.9	2472.6	2498.5	2517.9	2521.2	2563.3	2547.1
40°	7741.7	6750.1	3814.1	2420.7	2274.9	2398.0	2385.1	2349.4	2320.2	2281.4	2271.6
42.5°	8208.3	6954.3	3366.9	2135.5	2119.3	2320.2	2278.1	2187.4	2119.3	2090.2	2041.6
45°	8733.3	7242.7	2916.5	1957.3	1999.4	2226.3	2213.3	2074.0	1986.5	1882.8	1869.8
47.5°	9413.8	7544.0	2485.5	1772.6	1886.0	2190.6	2197.1	2018.9	1892.5	1753.1	1733.7
50°	10285.6	7978.3	2158.2	1694.8	1818.0	2138.8	2148.5	1944.3	1779.1	1636.5	1623.5
52.5°	11121.6	8422.2	1886.0	1574.9	1772.6	2077.2	2099.9	1876.3	1685.1	1506.9	1516.6
55°	11542.9	8260.2	1652.7	1487.4	1668.9	1976.7	2061.0	1827.7	1542.5	1419.4	1416.1
57.5°	11636.9	7861.6	1468.0	1396.7	1581.4	1869.8	1996.2	1681.9	1477.7	1374.0	1361.0
60°	11329.0	7164.9	1322.2	1299.5	1471.2	1759.6	1847.1	1604.1	1412.9	1328.6	1309.2
62.5°	10570.7	6442.2	1221.7	1254.1	1377.2	1639.7	1753.1	1549.0	1351.3	1293.0	1250.9
65°	8668.5	5298.3	1140.7	1166.6	1280.0	1523.1	1694.8	1487.4	1296.2	1241.1	1237.9
67.5°	6004.8	3652.1	1075.9	1124.5	1202.2	1438.8	1636.5	1419.4	1224.9	1205.5	1179.6
70°	3075.3	1947.6	991.6	1030.5	1118.0	1331.9	1532.8	1348.1	1150.4	1147.2	1114.8
72.5°	1558.7	1140.7	894.4	952.7	1014.3	1192.5	1403.2	1254.1	1056.4	1020.8	968.9
73°	1348.1	1056.4	878.2	930.0	988.4	1153.6	1364.3	1231.4	1043.5	991.6	943.0
75°	981.9	832.8	787.5	839.3	884.7	1040.2	1234.7	1127.7	959.2	904.1	858.7
77.5°	735.6	641.6	654.6	712.9	751.8	897.6	1098.6	1020.8	868.5	793.9	774.5
80°	541.2	489.3	541.2	596.3	625.4	790.7	1001.3	884.7	732.4	648.1	631.9
82.5°	385.6	356.5	418.0	453.7	466.6	654.6	900.9	706.4	554.1	444.0	408.3
85°	220.4	217.1	281.9	278.7	288.4	382.4	593.0	469.9	356.5	272.2	265.7
87.5°	97.2	106.9	142.6	113.4	119.9	181.5	252.8	175.0	145.8	81.0	61.6
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)