

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: P478101

Luminaire Tested: **IFLD-M-SA4D-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478101
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

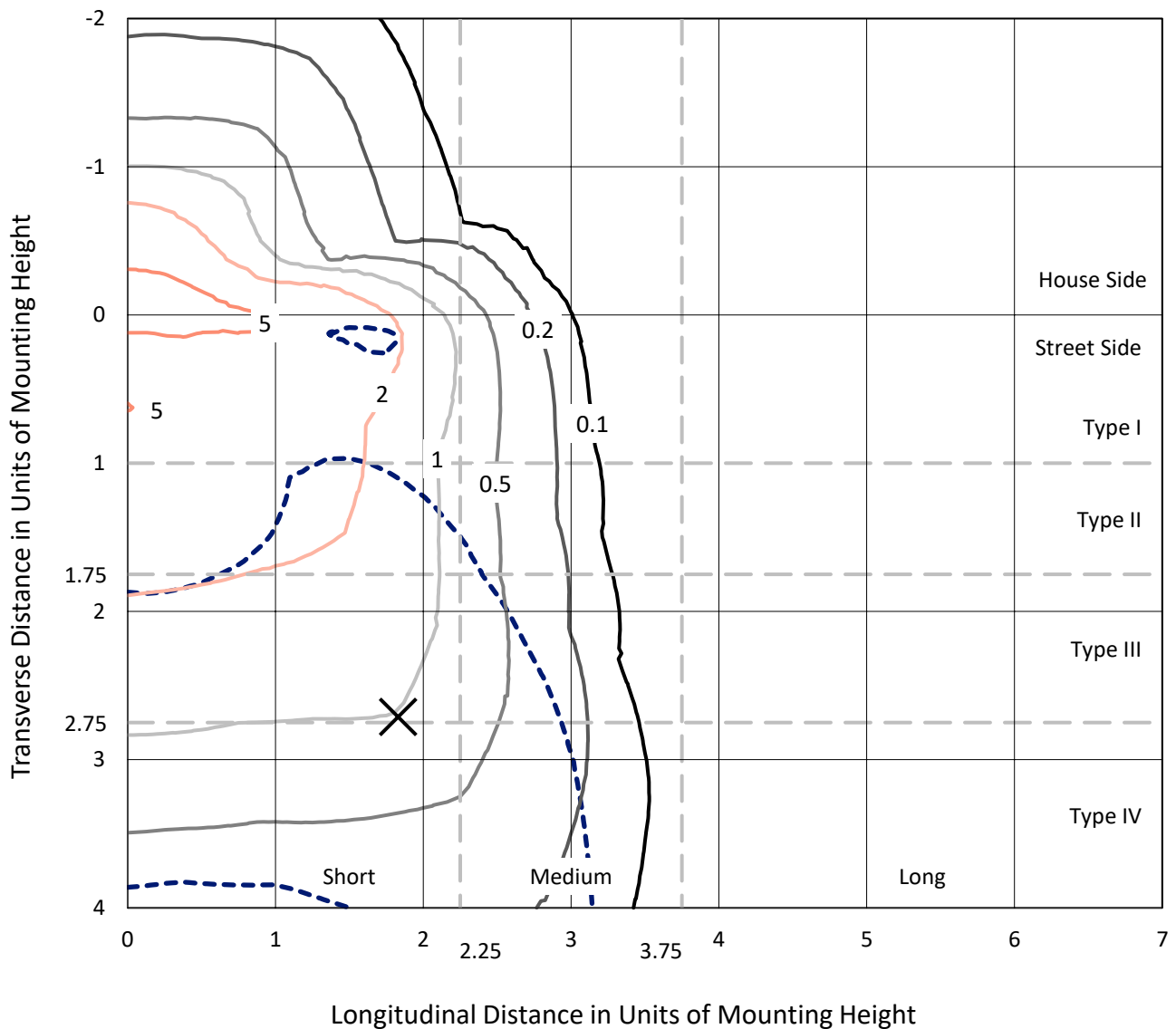
Lumens per Lamp: N/A
Luminaire Lumens: 29184.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

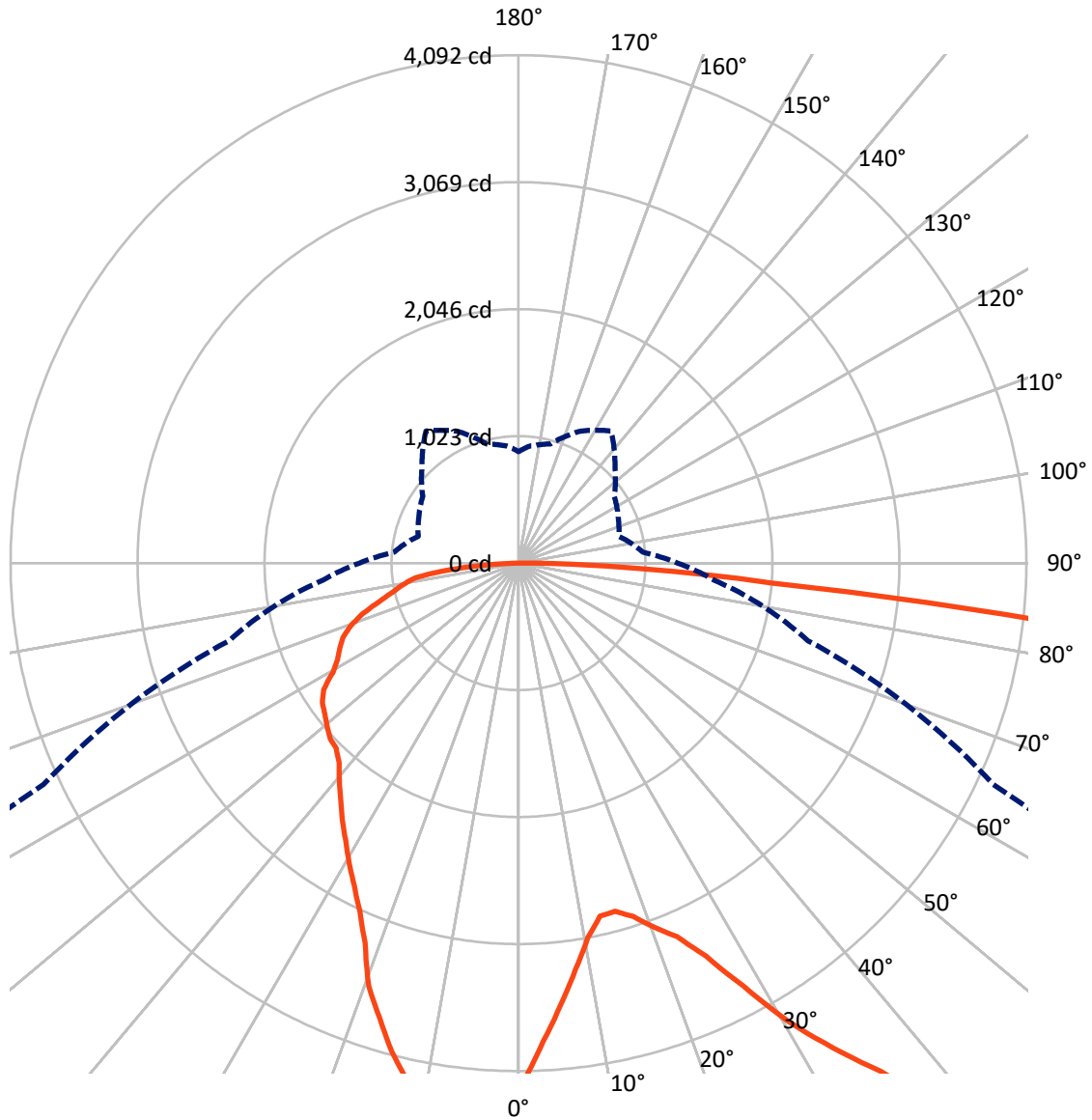
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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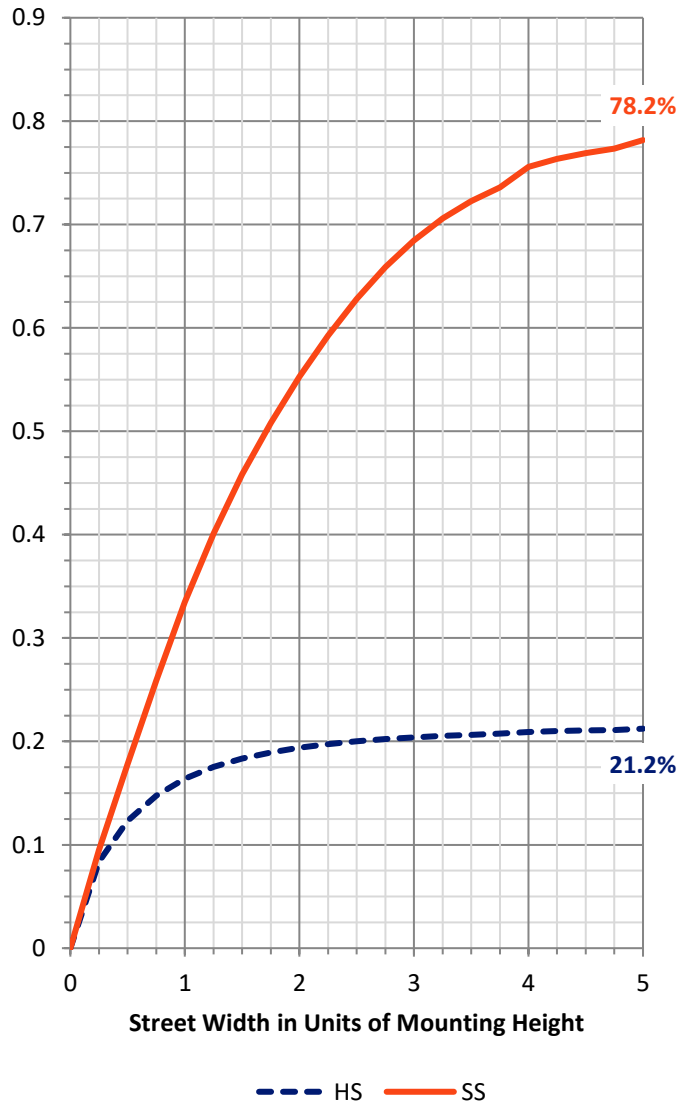
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6304.3	0.0	6304.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22880.5	0.0	22880.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	29184.8	0.0	29184.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	1.3
10°-20°	1080.7	3.7
20°-30°	1778.7	6.1
30°-40°	2660.1	9.1
40°-50°	3943.5	13.5
50°-60°	5682.9	19.5
60°-70°	7252.2	24.8
70°-80°	5643.4	19.3
80°-90°	757.1	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°	29184.8	100.0
0°-180°	29184.8	100.0

Coefficient of Utilization



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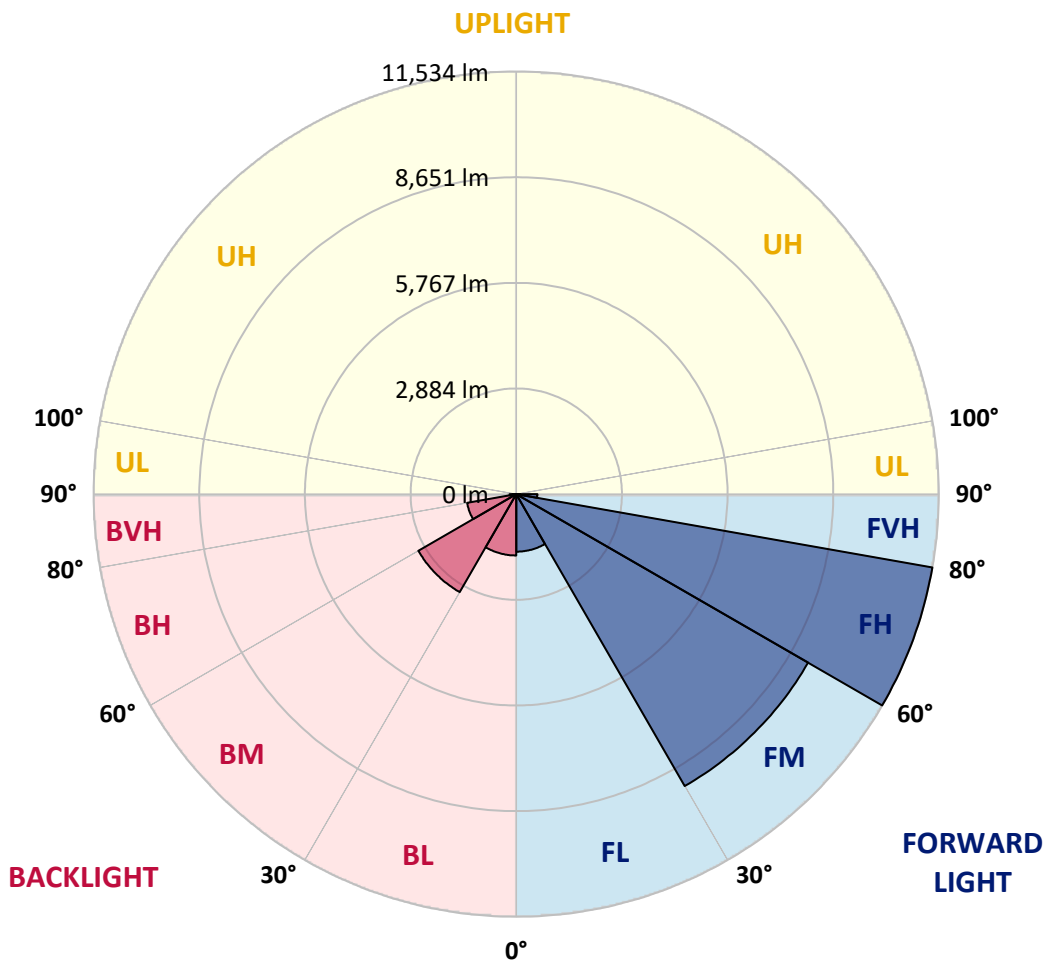
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.6	5.4			
FM (30°-60°)	9199.2	31.5			
FH (60°-80°)	11534.4	39.5			G4/12000
FVH (80°-90°)	576.3	2.0			G4/750
BL (0°-30°)	1675.0	5.7	B3/2500		
BM (30°-60°)	3087.2	10.6	B3/5000		
BH (60°-80°)	1361.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	180.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1
2.5°	3749.0	3761.4	3801.5	3810.7	3853.9	3829.3	3881.7	3974.3	4026.7	4103.9	4196.4
5°	3452.8	3400.4	3425.0	3520.7	3570.1	3582.4	3637.9	3795.3	3894.1	4008.2	4181.0
7.5°	3104.1	3094.9	3144.2	3206.0	3304.7	3314.0	3437.4	3576.2	3779.9	4032.9	4236.6
10°	2866.5	2906.7	2934.4	2999.2	3067.1	3067.1	3224.5	3465.2	3696.6	3940.3	4248.9
12.5°	2854.2	2829.5	2835.7	2869.6	2919.0	2980.7	3128.8	3344.8	3637.9	3921.8	4301.4
15°	2894.3	2903.6	2848.0	2891.2	2909.7	2931.3	3094.9	3338.6	3600.9	3986.6	4390.8
17.5°	3107.2	3054.8	2968.4	2928.3	2993.1	2993.1	3104.1	3295.4	3607.1	4020.6	4520.4
20°	3273.8	3273.8	3131.9	3088.7	3135.0	3125.7	3202.9	3344.8	3637.9	4088.5	4665.5
22.5°	3554.6	3594.8	3360.2	3270.8	3267.7	3292.4	3360.2	3480.6	3724.3	4184.1	4804.3
25°	3958.9	3968.1	3696.6	3604.0	3505.3	3545.4	3557.7	3678.1	3801.5	4295.2	4961.7
27.5°	4409.4	4403.2	4153.2	3921.8	3857.0	3866.3	3798.4	3878.6	3915.7	4329.1	5186.9
30°	4909.2	4853.7	4665.5	4338.4	4285.9	4227.3	4079.2	4076.1	4153.2	4520.4	5498.6
32.5°	5236.3	5165.3	5035.7	4801.2	4656.2	4662.4	4427.9	4424.8	4356.9	4730.3	5770.1
35°	5557.2	5449.2	5415.3	5174.6	5029.6	5045.0	4856.8	4832.1	4708.7	5048.1	6217.5
37.5°	5942.9	5847.3	5899.7	5717.7	5538.7	5464.6	5378.2	5347.4	5186.9	5495.5	6828.5
40°	6368.7	6337.9	6303.9	6214.4	6106.4	6112.6	6020.0	5989.2	5751.6	6035.5	7414.8
42.5°	6942.7	6825.4	6649.5	6708.1	6763.7	6822.3	6791.5	6711.2	6464.4	6584.7	8068.9
45°	7476.5	7322.2	6998.2	7016.7	7245.0	7291.3	7664.7	7655.4	7158.6	7282.1	8812.5
47.5°	7837.5	7766.5	7572.1	7550.5	7877.6	7874.5	8547.2	8547.2	7889.9	7976.3	9611.7
50°	8374.4	8189.2	8105.9	8213.9	8380.6	8494.7	9448.2	9506.8	8608.9	8701.5	10657.7
52.5°	9003.8	8772.4	8562.6	8840.3	9136.5	9210.6	10339.9	10315.2	9161.2	9543.8	11882.7
55°	9525.3	9408.1	9263.0	9423.5	9907.9	10000.5	11234.8	11006.4	9713.5	10241.2	12472.1
57.5°	10133.2	10204.2	10235.0	10194.9	10771.9	10916.9	12256.1	11601.9	10188.7	10710.2	12817.7
60°	11049.6	11092.8	11132.9	11228.6	11839.5	12043.2	13064.5	12348.7	10488.0	10981.7	12845.4
62.5°	12444.3	12277.7	12367.2	12697.3	13188.0	13419.4	14255.6	12873.2	10716.4	11145.3	11938.3
65°	14039.6	13814.3	13721.8	14147.6	15418.9	15233.7	15742.8	13265.1	10386.2	10534.3	10123.9
67.5°	15656.4	15681.1	15443.5	16298.3	17856.5	17856.5	17125.2	13453.3	9491.4	8537.9	7100.0
70°	16940.1	17017.2	17146.8	18803.8	21272.3	21645.6	18837.7	12681.9	7667.8	5683.7	3881.7
72.5°	16921.6	16690.1	17353.5	20405.2	24376.4	24064.8	19195.7	10028.3	4785.8	2783.2	1780.4
73°	16542.0	16347.6	17072.8	20389.8	24502.9	24209.8	18933.4	9244.5	4221.1	2413.0	1582.9
75°	13508.9	13157.1	14391.3	18467.5	22670.1	22895.3	16085.4	6029.3	2314.2	1487.3	1113.9
77.5°	6158.9	6313.2	7920.8	12388.8	17470.8	17736.2	10574.4	2607.4	1268.2	1042.9	820.8
80°	1977.9	2076.6	3082.5	6158.9	10950.9	11429.1	4887.6	1184.9	904.1	799.2	614.0
82.5°	756.0	752.9	1292.9	2561.1	5190.0	5495.5	1786.6	722.0	672.7	589.4	435.1
85°	265.4	277.7	487.5	1012.1	2042.7	2138.3	620.2	401.1	465.9	395.0	249.9
87.5°	92.6	95.7	172.8	367.2	703.5	743.6	172.8	160.5	231.4	228.3	126.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1	4184.1
2.5°	4227.3	4255.1	4264.3	4375.4	4375.4	4375.4	4418.6	4418.6	4406.3	4375.4	4449.5
5°	4245.8	4295.2	4390.8	4486.5	4511.2	4532.8	4591.4	4542.0	4560.6	4529.7	4557.5
7.5°	4298.3	4366.2	4545.1	4603.7	4563.6	4609.9	4548.2	4514.3	4480.3	4492.7	4449.5
10°	4387.8	4474.2	4557.5	4665.5	4588.3	4542.0	4415.5	4384.7	4276.7	4239.6	4273.6
12.5°	4498.8	4603.7	4745.7	4705.6	4557.5	4424.8	4289.0	4159.4	4094.6	4002.1	4026.7
15°	4609.9	4730.3	4751.9	4684.0	4498.8	4332.2	4085.4	3903.3	3838.5	3755.2	3798.4
17.5°	4730.3	4844.4	4807.4	4631.5	4381.6	4128.6	3847.8	3668.8	3533.0	3480.6	3480.6
20°	4909.2	4964.8	4906.1	4545.1	4239.6	3906.4	3634.9	3431.2	3295.4	3273.8	3239.9
22.5°	5048.1	5137.6	4875.3	4418.6	4032.9	3616.3	3304.7	3227.6	3187.4	3153.5	3110.3
25°	5227.0	5224.0	4819.7	4301.4	3678.1	3270.8	3082.5	3076.4	3057.9	3045.5	3104.1
27.5°	5396.8	5325.8	4754.9	4011.3	3310.9	3008.5	2906.7	2974.5	3002.3	2983.8	3008.5
30°	5665.2	5547.9	4662.4	3702.7	2986.9	2743.1	2761.6	2854.2	2900.5	2928.3	2891.2
32.5°	5949.1	5770.1	4471.1	3381.8	2699.9	2576.5	2619.7	2715.3	2770.9	2801.7	2835.7
35°	6359.5	5942.9	4276.7	2962.2	2493.2	2474.7	2499.4	2551.8	2632.0	2653.6	2662.9
37.5°	6865.5	6205.2	4014.4	2625.9	2332.7	2354.3	2379.0	2397.5	2400.6	2440.7	2425.3
40°	7371.6	6427.4	3631.8	2305.0	2166.1	2283.4	2271.0	2237.1	2209.3	2172.3	2163.0
42.5°	7815.9	6621.7	3206.0	2033.4	2018.0	2209.3	2169.2	2082.8	2018.0	1990.2	1943.9
45°	8315.8	6896.4	2777.1	1863.7	1903.8	2119.8	2107.5	1974.8	1891.5	1792.7	1780.4
47.5°	8963.7	7183.3	2366.7	1687.8	1795.8	2085.9	2092.1	1922.3	1802.0	1669.3	1650.8
50°	9793.8	7596.8	2055.0	1613.8	1731.0	2036.5	2045.8	1851.4	1694.0	1558.2	1545.9
52.5°	10589.9	8019.5	1795.8	1499.6	1687.8	1977.9	1999.5	1786.6	1604.5	1434.8	1444.1
55°	10991.0	7865.3	1573.7	1416.3	1589.1	1882.2	1962.5	1740.3	1468.8	1351.5	1348.4
57.5°	11080.5	7485.7	1397.8	1329.9	1505.8	1780.4	1900.7	1601.4	1407.0	1308.3	1296.0
60°	10787.3	6822.3	1258.9	1237.3	1400.9	1675.5	1758.8	1527.4	1345.3	1265.1	1246.6
62.5°	10065.3	6134.2	1163.3	1194.1	1311.4	1561.3	1669.3	1474.9	1286.7	1231.2	1191.1
65°	8254.0	5045.0	1086.1	1110.8	1218.8	1450.2	1613.8	1416.3	1234.2	1181.8	1178.7
67.5°	5717.7	3477.5	1024.4	1070.7	1144.8	1370.0	1558.2	1351.5	1166.4	1147.9	1123.2
70°	2928.3	1854.5	944.2	981.2	1064.5	1268.2	1459.5	1283.6	1095.4	1092.3	1061.5
72.5°	1484.2	1086.1	851.6	907.2	965.8	1135.5	1336.1	1194.1	1005.9	972.0	922.6
73°	1283.6	1005.9	836.2	885.6	941.1	1098.5	1299.0	1172.5	993.6	944.2	897.9
75°	934.9	793.0	749.8	799.2	842.4	990.5	1175.6	1073.8	913.3	860.9	817.7
77.5°	700.4	611.0	623.3	678.8	715.9	854.7	1046.0	972.0	826.9	756.0	737.5
80°	515.3	465.9	515.3	567.8	595.5	752.9	953.5	842.4	697.4	617.1	601.7
82.5°	367.2	339.4	398.0	432.0	444.3	623.3	857.8	672.7	527.6	422.7	388.8
85°	209.8	206.7	268.4	265.4	274.6	364.1	564.7	447.4	339.4	259.2	253.0
87.5°	92.6	101.8	135.8	108.0	114.2	172.8	240.7	166.6	138.9	77.1	58.6
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)