

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: P478103

Luminaire Tested: **IFLD-L-SA7A-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478103
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

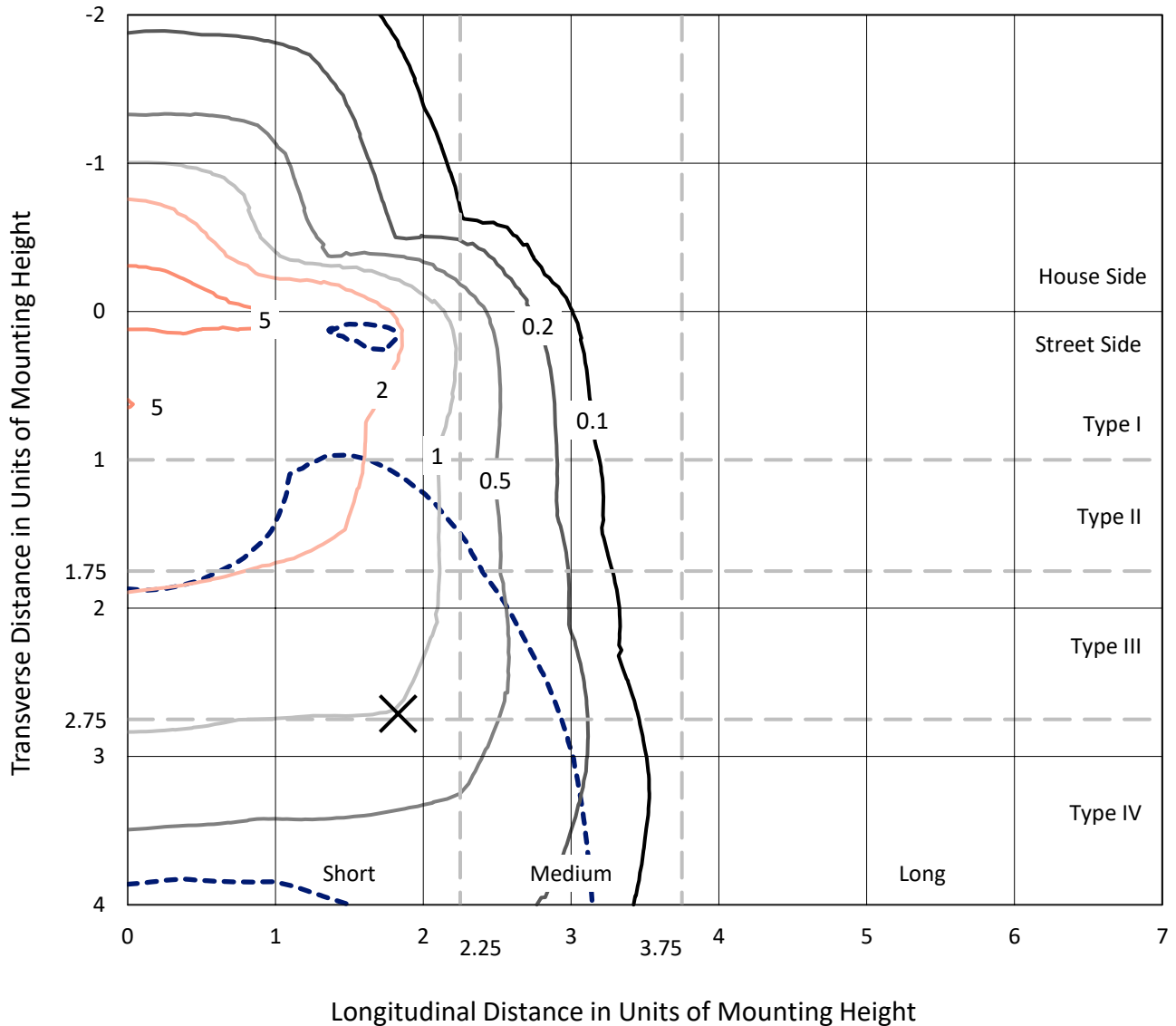
Lumens per Lamp: N/A
Luminaire Lumens: 29200.3 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): 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

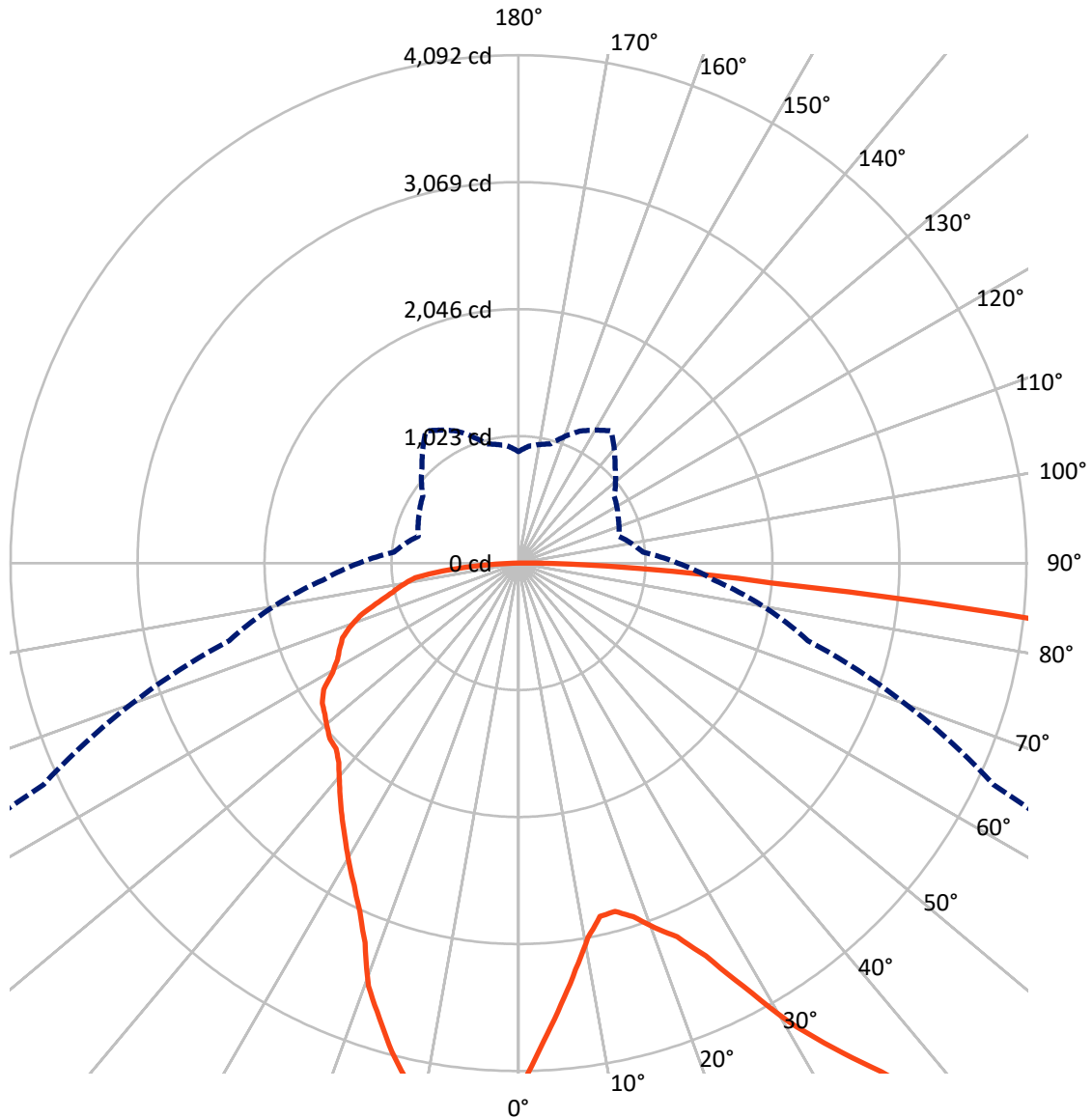
✕ Max cd
 - - - 1/2 Max cd



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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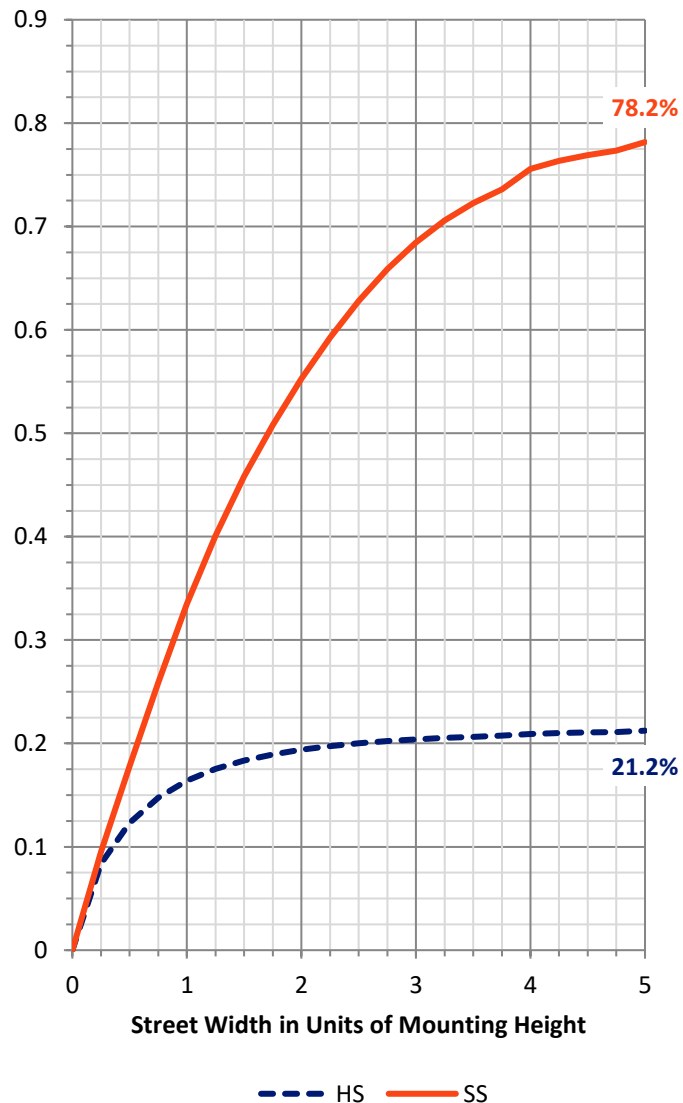
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6307.6	0.0	6307.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22892.7	0.0	22892.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	29200.3	0.0	29200.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.4	1.3
10°-20°	1081.3	3.7
20°-30°	1779.7	6.1
30°-40°	2661.5	9.1
40°-50°	3945.6	13.5
50°-60°	5686.0	19.5
60°-70°	7256.0	24.8
70°-80°	5646.4	19.3
80°-90°	757.5	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°	29200.3	100.0
0°-180°	29200.3	100.0

Coefficient of Utilization



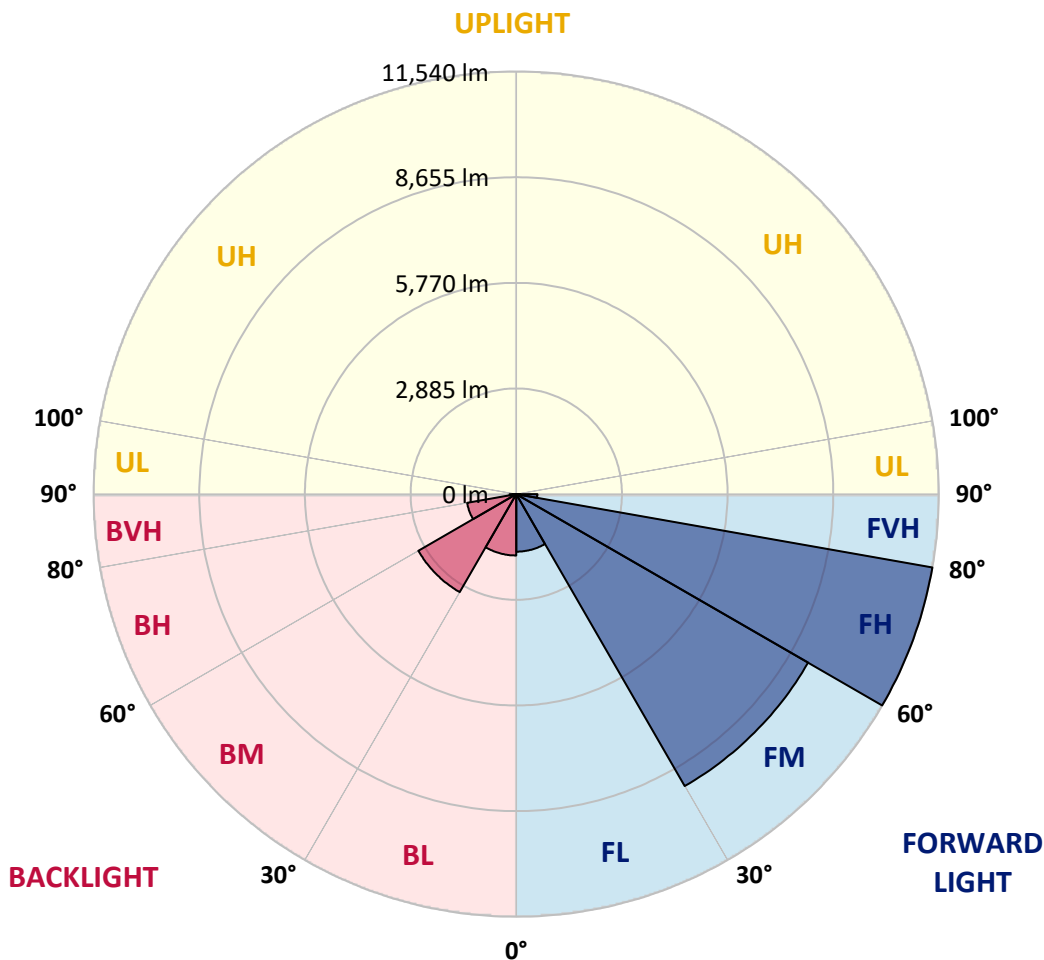
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.5	5.4			
FM (30°-60°)	9204.1	31.5			
FH (60°-80°)	11540.5	39.5			G4/12000
FVH (80°-90°)	576.6	2.0			G4/750
BL (0°-30°)	1675.9	5.7	B3/2500		
BM (30°-60°)	3088.9	10.6	B3/5000		
BH (60°-80°)	1362.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	180.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3
2.5°	3751.0	3763.4	3803.5	3812.8	3856.0	3831.3	3883.8	3976.4	4028.9	4106.1	4198.7
5°	3454.6	3402.2	3426.9	3522.6	3572.0	3584.3	3639.9	3797.3	3896.1	4010.3	4183.2
7.5°	3105.8	3096.5	3145.9	3207.7	3306.5	3315.7	3439.2	3578.1	3781.9	4035.0	4238.8
10°	2868.1	2908.2	2936.0	3000.8	3068.7	3068.7	3226.2	3467.0	3698.5	3942.4	4251.2
12.5°	2855.7	2831.0	2837.2	2871.2	2920.5	2982.3	3130.5	3346.6	3639.9	3923.9	4303.6
15°	2895.8	2905.1	2849.5	2892.8	2911.3	2932.9	3096.5	3340.4	3602.8	3988.7	4393.2
17.5°	3108.9	3056.4	2969.9	2929.8	2994.6	2994.6	3105.8	3297.2	3609.0	4022.7	4522.8
20°	3275.6	3275.6	3133.6	3090.3	3136.7	3127.4	3204.6	3346.6	3639.9	4090.6	4667.9
22.5°	3556.5	3596.7	3362.0	3272.5	3269.4	3294.1	3362.0	3482.4	3726.3	4186.3	4806.9
25°	3961.0	3970.2	3698.5	3605.9	3507.1	3547.3	3559.6	3680.0	3803.5	4297.5	4964.3
27.5°	4411.7	4405.5	4155.5	3923.9	3859.1	3868.3	3800.4	3880.7	3917.7	4331.4	5189.7
30°	4911.8	4856.3	4667.9	4340.7	4288.2	4229.5	4081.4	4078.3	4155.5	4522.8	5501.5
32.5°	5239.1	5168.1	5038.4	4803.8	4658.7	4664.8	4430.2	4427.1	4359.2	4732.8	5773.2
35°	5560.2	5452.1	5418.1	5177.3	5032.2	5047.7	4859.3	4834.6	4711.2	5050.8	6220.8
37.5°	5946.1	5850.4	5902.8	5720.7	5541.6	5467.5	5381.1	5350.2	5189.7	5498.4	6832.1
40°	6372.1	6341.2	6307.3	6217.7	6109.7	6115.9	6023.2	5992.4	5754.7	6038.7	7418.7
42.5°	6946.3	6829.0	6653.0	6711.7	6767.3	6825.9	6795.1	6714.8	6467.8	6588.2	8073.2
45°	7480.4	7326.1	7001.9	7020.4	7248.9	7295.2	7668.8	7659.5	7162.4	7285.9	8817.2
47.5°	7841.6	7770.6	7576.1	7554.5	7881.8	7878.7	8551.7	8551.7	7894.1	7980.6	9616.8
50°	8378.8	8193.6	8110.2	8218.3	8385.0	8499.2	9453.2	9511.8	8613.5	8706.1	10663.4
52.5°	9008.6	8777.1	8567.1	8845.0	9141.4	9215.5	10345.4	10320.7	9166.1	9548.9	11889.0
55°	9530.4	9413.1	9268.0	9428.5	9913.2	10005.8	11240.7	11012.3	9718.7	10246.6	12478.7
57.5°	10138.6	10209.6	10240.4	10200.3	10777.6	10922.7	12262.6	11608.1	10194.1	10715.9	12824.5
60°	11055.5	11098.7	11138.8	11234.5	11845.8	12049.6	13071.5	12355.2	10493.6	10987.6	12852.3
62.5°	12450.9	12284.2	12373.7	12704.1	13194.9	13426.5	14263.1	12880.0	10722.1	11151.2	11944.6
65°	14047.0	13821.7	13729.0	14155.1	15427.0	15241.8	15751.2	13272.1	10391.7	10539.9	10129.3
67.5°	15664.8	15689.5	15451.7	16306.9	17866.0	17866.0	17134.3	13460.5	9496.4	8542.4	7103.8
70°	16949.1	17026.2	17155.9	18813.8	21283.6	21657.1	18847.7	12688.6	7671.8	5686.7	3883.8
72.5°	16930.5	16699.0	17362.7	20416.0	24389.3	24077.5	19205.8	10033.6	4788.3	2784.7	1781.3
73°	16550.8	16356.3	17081.8	20400.6	24515.9	24222.6	18943.4	9249.4	4223.4	2414.2	1583.8
75°	13516.0	13164.1	14399.0	18477.2	22682.1	22907.5	16093.9	6032.5	2315.4	1488.1	1114.5
77.5°	6162.2	6316.5	7925.0	12395.3	17480.1	17745.6	10580.0	2608.7	1268.9	1043.5	821.2
80°	1978.9	2077.7	3084.2	6162.2	10956.7	11435.2	4890.2	1185.5	904.6	799.6	614.4
82.5°	756.4	753.3	1293.6	2562.4	5192.8	5498.4	1787.5	722.4	673.0	589.7	435.3
85°	265.5	277.9	487.8	1012.6	2043.8	2139.5	620.5	401.3	466.2	395.2	250.1
87.5°	92.6	95.7	172.9	367.4	703.9	744.0	172.9	160.5	231.5	228.5	126.6
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°	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3	4186.3
2.5°	4229.5	4257.3	4266.6	4377.7	4377.7	4377.7	4421.0	4421.0	4408.6	4377.7	4451.8
5°	4248.1	4297.5	4393.2	4488.9	4513.6	4535.2	4593.8	4544.4	4563.0	4532.1	4559.9
7.5°	4300.6	4368.5	4547.5	4606.2	4566.1	4612.4	4550.6	4516.7	4482.7	4495.0	4451.8
10°	4390.1	4476.5	4559.9	4667.9	4590.8	4544.4	4417.9	4387.0	4278.9	4241.9	4275.9
12.5°	4501.2	4606.2	4748.2	4708.1	4559.9	4427.1	4291.3	4161.6	4096.8	4004.2	4028.9
15°	4612.4	4732.8	4754.4	4686.5	4501.2	4334.5	4087.5	3905.4	3840.6	3757.2	3800.4
17.5°	4732.8	4847.0	4810.0	4634.0	4383.9	4130.8	3849.8	3670.8	3534.9	3482.4	3482.4
20°	4911.8	4967.4	4908.7	4547.5	4241.9	3908.5	3636.8	3433.0	3297.2	3275.6	3241.6
22.5°	5050.8	5140.3	4877.9	4421.0	4035.0	3618.3	3306.5	3229.3	3189.1	3155.2	3112.0
25°	5229.8	5226.7	4822.3	4303.6	3680.0	3272.5	3084.2	3078.0	3059.5	3047.1	3105.8
27.5°	5399.6	5328.6	4757.5	4013.4	3312.6	3010.1	2908.2	2976.1	3003.9	2985.4	3010.1
30°	5668.2	5550.9	4664.8	3704.7	2988.5	2744.6	2763.1	2855.7	2902.0	2929.8	2892.8
32.5°	5952.2	5773.2	4473.4	3383.6	2701.4	2577.9	2621.1	2716.8	2772.4	2803.2	2837.2
35°	6362.8	5946.1	4278.9	2963.8	2494.5	2476.0	2500.7	2553.2	2633.4	2655.0	2664.3
37.5°	6869.2	6208.5	4016.5	2627.3	2334.0	2355.6	2380.3	2398.8	2401.9	2442.0	2426.6
40°	7375.5	6430.8	3633.7	2306.2	2167.3	2284.6	2272.2	2238.3	2210.5	2173.4	2164.2
42.5°	7820.0	6625.3	3207.7	2034.5	2019.1	2210.5	2170.3	2083.9	2019.1	1991.3	1945.0
45°	8320.2	6900.0	2778.5	1864.7	1904.8	2120.9	2108.6	1975.8	1892.5	1793.7	1781.3
47.5°	8968.5	7187.1	2367.9	1688.7	1796.8	2087.0	2093.2	1923.4	1803.0	1670.2	1651.7
50°	9799.0	7600.8	2056.1	1614.6	1732.0	2037.6	2046.9	1852.4	1694.9	1559.1	1546.7
52.5°	10595.5	8023.8	1796.8	1500.4	1688.7	1978.9	2000.5	1787.5	1605.4	1435.6	1444.8
55°	10996.8	7869.4	1574.5	1417.1	1589.9	1883.2	1963.5	1741.2	1469.5	1352.2	1349.1
57.5°	11086.3	7489.7	1398.5	1330.6	1506.6	1781.3	1901.8	1602.3	1407.8	1309.0	1296.6
60°	10793.1	6825.9	1259.6	1238.0	1401.6	1676.4	1759.7	1528.2	1346.0	1265.8	1247.3
62.5°	10070.6	6137.5	1163.9	1194.8	1312.1	1562.2	1670.2	1475.7	1287.4	1231.8	1191.7
65°	8258.4	5047.7	1086.7	1111.4	1219.5	1451.0	1614.6	1417.1	1234.9	1182.4	1179.3
67.5°	5720.7	3479.3	1025.0	1071.3	1145.4	1370.7	1559.1	1352.2	1167.0	1148.5	1123.8
70°	2929.8	1855.4	944.7	981.7	1065.1	1268.9	1460.3	1284.3	1096.0	1092.9	1062.0
72.5°	1485.0	1086.7	852.1	907.7	966.3	1136.1	1336.8	1194.8	1006.4	972.5	923.1
73°	1284.3	1006.4	836.6	886.0	941.6	1099.1	1299.7	1173.2	994.1	944.7	898.4
75°	935.4	793.4	750.2	799.6	842.8	991.0	1176.2	1074.4	913.8	861.3	818.1
77.5°	700.8	611.3	623.6	679.2	716.2	855.2	1046.6	972.5	827.4	756.4	737.9
80°	515.6	466.2	515.6	568.1	595.8	753.3	954.0	842.8	697.7	617.5	602.0
82.5°	367.4	339.6	398.3	432.2	444.6	623.6	858.3	673.0	527.9	423.0	389.0
85°	209.9	206.8	268.6	265.5	274.8	364.3	565.0	447.7	339.6	259.3	253.2
87.5°	92.6	101.9	135.8	108.1	114.2	172.9	240.8	166.7	138.9	77.2	58.7
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)