

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: P478533

Luminaire Tested: **IFLD-L-SA7B-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478533
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

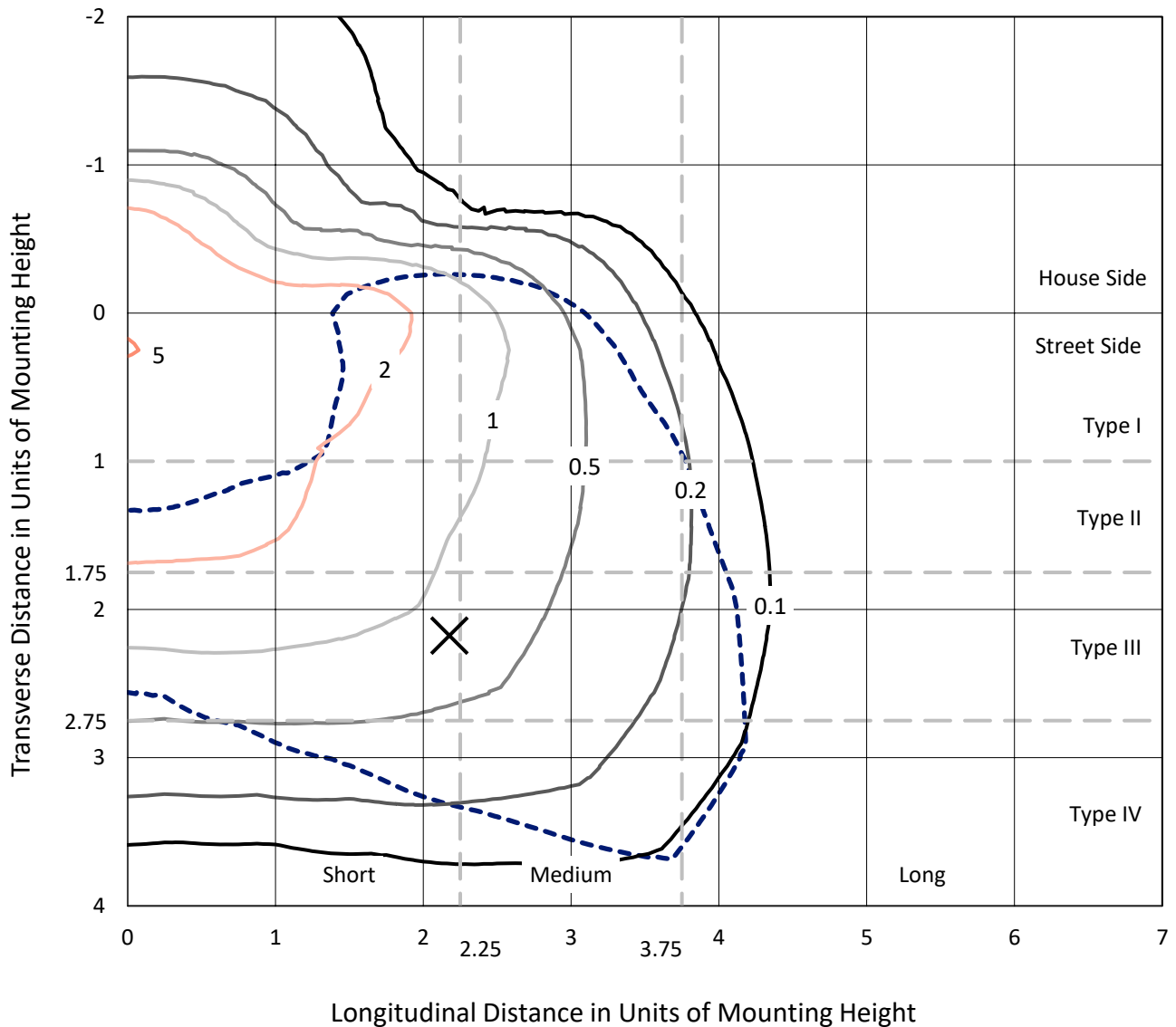
Lumens per Lamp: N/A
Luminaire Lumens: 35502.8 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

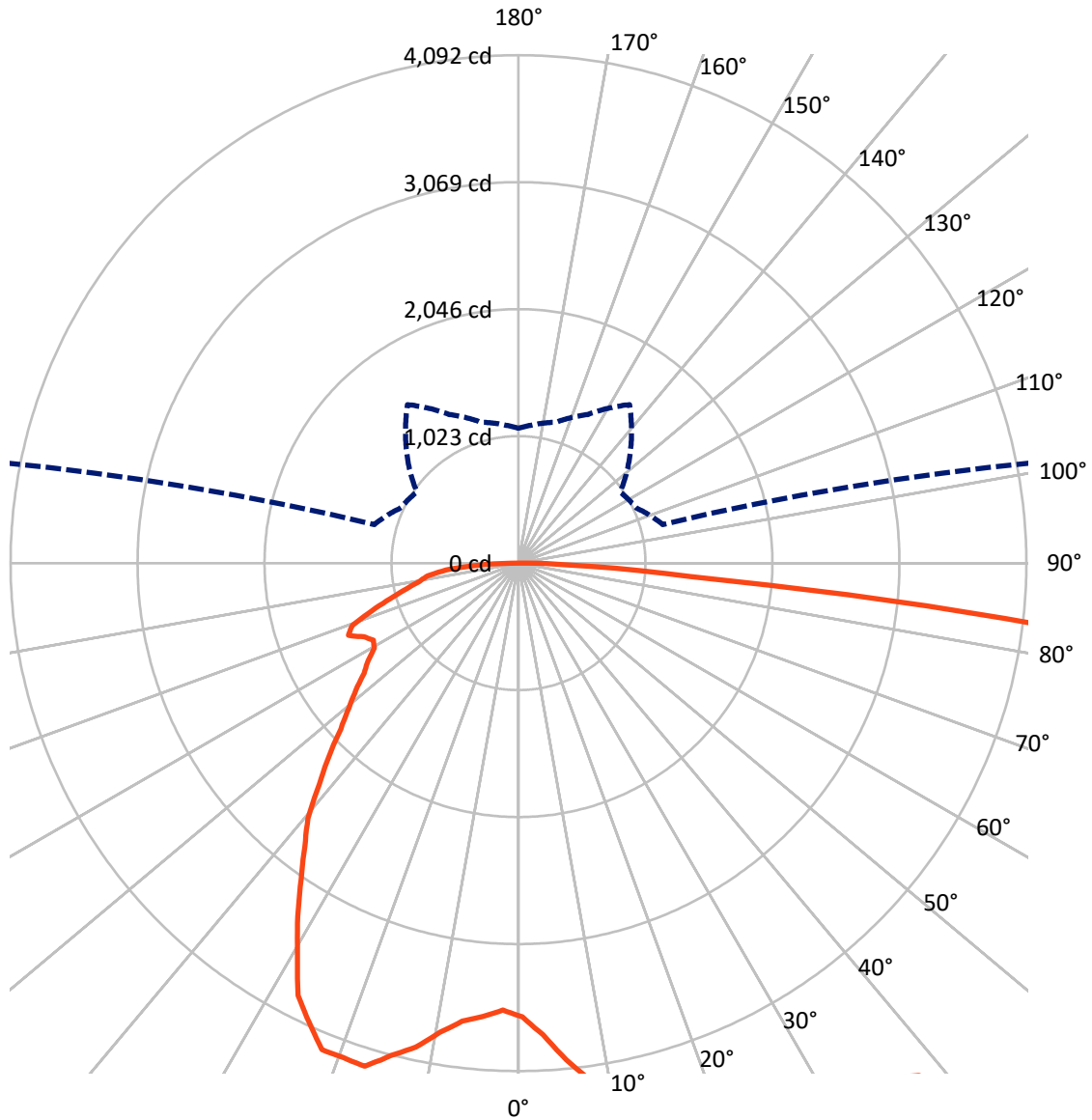
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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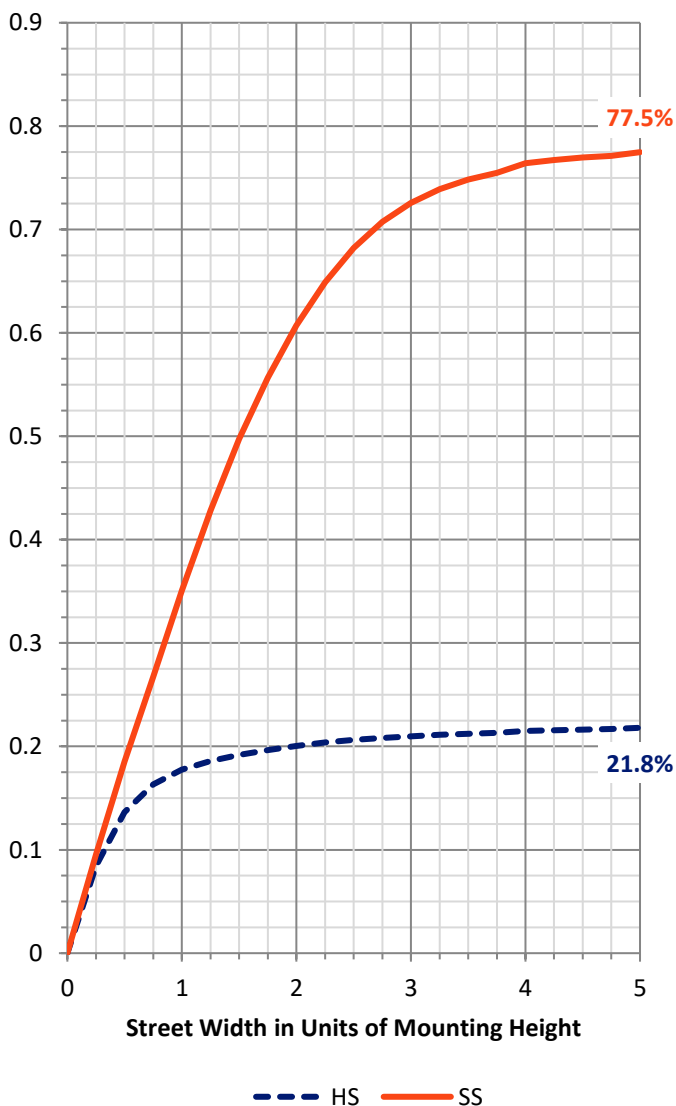
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7903.1	0.0	7903.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27599.7	0.0	27599.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	35502.8	0.0	35502.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	1.1
10°-20°	1244.7	3.5
20°-30°	2102.0	5.9
30°-40°	2908.8	8.2
40°-50°	4160.8	11.7
50°-60°	6711.0	18.9
60°-70°	9897.7	27.9
70°-80°	7187.4	20.2
80°-90°	916.2	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°	35502.8	100.0
0°-180°	35502.8	100.0

Coefficient of Utilization



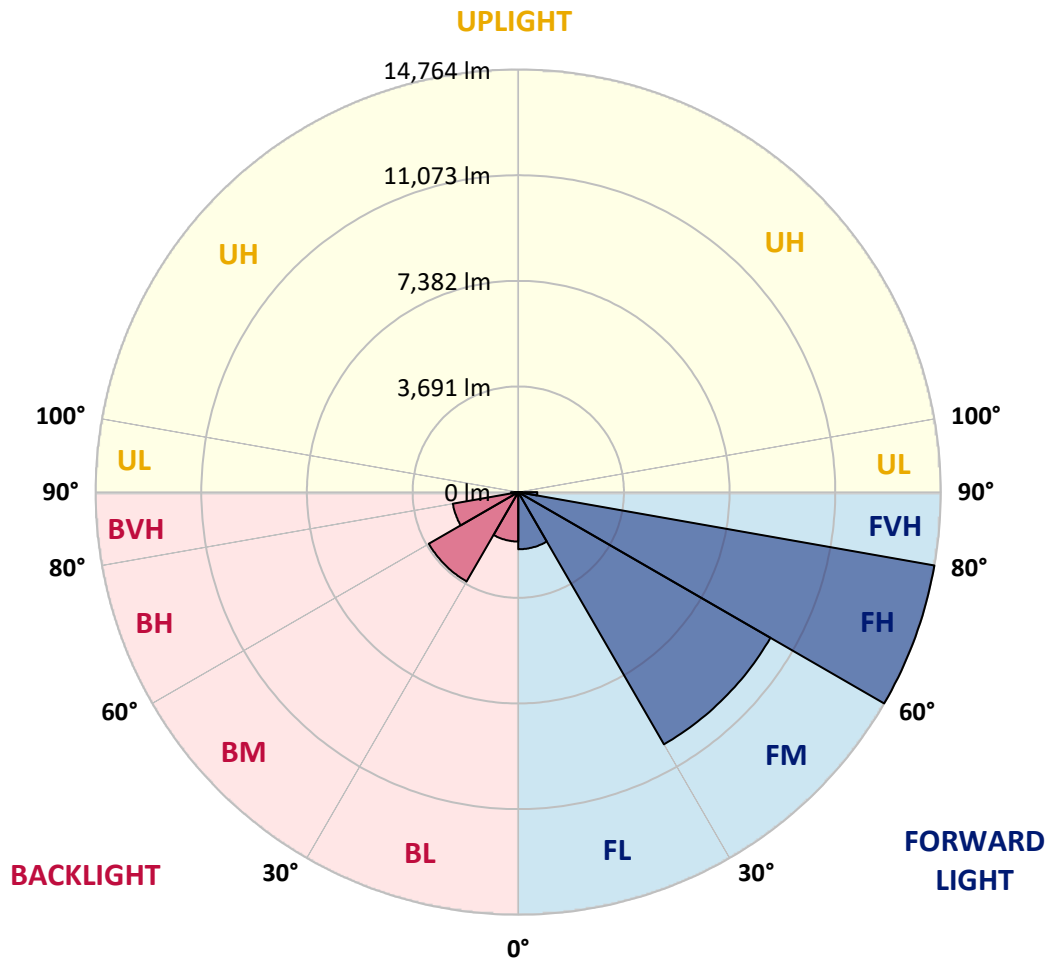
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.3	5.6			
FM (30°-60°)	10173.9	28.7			
FH (60°-80°)	14763.7	41.6			G5
FVH (80°-90°)	666.9	1.9			G4/750
BL (0°-30°)	1725.6	4.9	B3/2500		
BM (30°-60°)	3606.8	10.2	B3/5000		
BH (60°-80°)	2321.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	249.3	0.7			G3/500
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°	35°	44°	45°	55°	65°	75°	85°
0°	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1
2.5°	3851.4	3874.4	3851.4	3847.6	3809.3	3782.5	3805.5	3771.0	3732.7	3717.4	3682.9
5°	4203.6	4207.4	4165.3	4169.2	4088.8	4004.5	4019.8	3916.5	3805.5	3763.3	3694.4
7.5°	4563.5	4521.4	4460.1	4441.0	4314.6	4222.8	4211.3	4119.4	3947.1	3851.4	3755.7
10°	4797.0	4812.3	4712.8	4628.6	4521.4	4410.3	4406.5	4234.2	4134.7	3993.0	3870.5
12.5°	5003.8	5007.6	4923.4	4789.4	4655.4	4517.5	4536.7	4460.1	4291.7	4157.7	4035.2
15°	5164.5	5141.6	5049.7	4927.2	4785.5	4678.3	4666.9	4601.8	4460.1	4349.1	4146.2
17.5°	5210.5	5199.0	5107.1	4977.0	4839.1	4758.7	4789.4	4682.2	4624.7	4525.2	4330.0
20°	5122.4	5095.6	5080.3	4934.8	4835.3	4827.6	4800.8	4823.8	4728.1	4636.2	4494.6
22.5°	4961.6	4950.2	4942.5	4827.6	4781.7	4816.2	4862.1	4896.6	4881.2	4793.2	4632.4
25°	4797.0	4850.6	4800.8	4747.3	4812.3	4900.4	4888.9	4999.9	4999.9	4973.1	4839.1
27.5°	4911.9	4877.4	4839.1	4812.3	4835.3	4973.1	4965.5	5099.5	5149.2	5099.5	4946.3
30°	5199.0	5164.5	5053.5	4934.8	4904.2	5053.5	5091.8	5210.5	5233.5	5111.0	4980.8
32.5°	5738.8	5719.7	5543.6	5195.2	5007.6	5091.8	5111.0	5244.9	5225.8	5149.2	5095.6
35°	6539.0	6473.9	6228.9	5639.3	5225.8	5141.6	5091.8	5199.0	5271.7	5233.5	5183.7
37.5°	7415.7	7342.9	7040.5	6293.9	5620.1	5275.6	5237.3	5325.3	5409.6	5390.4	5287.1
40°	8254.1	8254.1	7982.3	7113.2	6205.9	5601.0	5608.6	5509.1	5585.7	5551.2	5570.4
42.5°	9081.0	9050.4	8939.4	8074.2	6833.7	6144.6	6022.1	5773.3	5911.1	5899.6	5926.4
45°	9919.5	9896.5	9865.9	8970.0	7733.4	6879.7	6814.6	6366.7	6493.0	6439.4	6554.3
47.5°	10589.4	10616.2	10616.2	9969.2	8694.4	7859.8	7764.1	7055.8	7297.0	7323.8	7350.6
50°	11159.9	11171.4	11159.9	10922.5	9766.3	8981.5	8786.2	8066.5	8307.7	8518.3	8763.3
52.5°	11948.5	11963.8	11910.2	11818.4	11221.1	10160.6	9942.4	9142.3	9636.2	9858.2	10298.5
55°	12920.9	12806.1	12706.6	12775.5	12618.5	11458.5	11232.6	10252.5	10995.2	11290.0	12170.6
57.5°	13100.9	13200.4	13453.1	14000.6	14226.4	12721.9	12591.7	11615.4	12530.4	12786.9	14257.1
60°	13736.4	13571.8	14192.0	15378.8	15631.5	14368.1	14234.1	13108.5	14058.0	14326.0	16182.8
62.5°	14153.7	14146.0	15064.9	16473.7	17048.0	16075.6	15803.7	15049.5	15708.0	15968.4	18280.7
65°	14031.2	14142.2	15773.1	17116.9	18231.0	18016.6	17859.6	16718.7	17587.8	17564.8	19647.5
67.5°	12913.3	13227.2	15325.2	17580.1	19992.0	20382.5	20332.8	19065.6	19115.3	18629.1	20256.2
70°	11362.8	11255.6	13430.1	17097.8	20872.6	23188.8	23177.3	20811.3	20489.7	18862.7	18510.4
72°	8728.8	8610.1	10398.0	14682.0	20409.3	24310.5	24655.1	22021.1	20474.4	17894.1	15290.7
72.5°	7924.8	7821.5	9601.7	13820.6	19896.3	24601.5	24440.7	22067.1	20313.6	17438.5	14283.9
75°	3648.5	3529.8	4797.0	8460.8	15520.4	21799.1	22346.5	20650.5	17740.9	13881.9	8556.5
77.5°	1087.3	1052.8	1542.9	3415.0	9019.8	16060.3	16270.8	15581.7	12385.0	7603.3	3173.8
80°	604.9	608.7	796.3	1278.7	3966.3	9283.9	10042.0	9624.7	6075.7	2511.4	1056.6
82.5°	336.9	356.0	497.7	758.0	1822.3	4261.0	4586.5	4421.8	2197.5	1179.2	578.1
85°	176.1	183.8	260.3	405.8	1033.7	1347.6	1385.9	1485.4	1140.9	804.0	310.1
87.5°	68.9	68.9	95.7	168.5	382.8	417.3	375.2	455.6	654.7	520.7	153.1
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°	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1	3656.1
2.5°	3713.6	3682.9	3679.1	3629.3	3644.7	3602.6	3606.4	3598.7	3602.6	3594.9	3575.8
5°	3694.4	3671.5	3606.4	3648.5	3610.2	3663.8	3705.9	3690.6	3702.1	3698.3	3702.1
7.5°	3721.2	3690.6	3682.9	3660.0	3694.4	3717.4	3751.9	3847.6	3839.9	3851.4	3874.4
10°	3801.6	3767.2	3744.2	3778.7	3759.5	3832.3	3870.5	3920.3	4008.4	4012.2	3966.3
12.5°	3958.6	3935.6	3889.7	3897.3	3962.4	3985.4	4008.4	4039.0	4096.4	4084.9	4127.0
15°	4138.5	4088.8	4062.0	4054.3	4069.6	4096.4	4092.6	4123.2	4153.8	4180.6	4169.2
17.5°	4268.7	4203.6	4211.3	4249.6	4245.7	4238.1	4188.3	4173.0	4188.3	4203.6	4196.0
20°	4402.7	4410.3	4352.9	4318.5	4303.2	4226.6	4188.3	4142.4	4096.4	4119.4	4153.8
22.5°	4571.1	4536.7	4452.5	4349.1	4272.5	4226.6	4107.9	4027.5	4027.5	4050.5	4039.0
25°	4762.6	4689.8	4544.3	4356.8	4261.0	4065.8	3981.6	3970.1	3939.5	3973.9	3989.2
27.5°	4911.9	4846.8	4647.7	4330.0	4065.8	3908.8	3859.1	3843.7	3893.5	3897.3	3958.6
30°	4973.1	4954.0	4663.0	4261.0	3866.7	3614.0	3583.4	3652.3	3705.9	3786.3	3790.1
32.5°	5053.5	5061.2	4686.0	4100.2	3606.4	3353.7	3307.8	3392.0	3545.1	3610.2	3660.0
35°	5187.5	5225.8	4666.9	3901.2	3330.7	3089.5	3081.9	3104.9	3254.2	3369.0	3434.1
37.5°	5421.1	5413.4	4663.0	3663.8	3112.5	2859.8	2798.6	2806.2	2905.8	3001.5	2990.0
40°	5735.0	5704.4	4651.5	3353.7	2829.2	2664.6	2561.2	2522.9	2515.3	2488.5	2496.1
42.5°	6163.8	6102.5	4647.7	3039.8	2572.7	2396.6	2323.9	2224.3	2151.6	2013.8	2021.4
45°	6761.0	6653.8	4548.2	2745.0	2320.0	2174.5	2063.5	1990.8	1833.8	1661.5	1661.5
47.5°	7683.7	7335.3	4552.0	2419.6	2075.0	1956.3	1879.8	1753.4	1585.0	1447.1	1431.8
50°	9042.7	8246.4	4421.8	2163.1	1875.9	1795.5	1715.1	1569.7	1408.9	1313.2	1324.6
52.5°	10796.2	9605.5	4418.0	1933.4	1719.0	1661.5	1573.5	1443.3	1324.6	1263.4	1240.4
55°	12886.5	11404.9	4555.8	1745.8	1558.2	1527.5	1489.3	1382.1	1267.2	1213.6	1209.8
57.5°	15026.6	13162.1	4777.9	1611.8	1420.3	1443.3	1416.5	1332.3	1240.4	1179.2	1171.5
60°	16929.3	14555.7	4330.0	1451.0	1297.8	1347.6	1385.9	1313.2	1263.4	1259.6	1232.8
62.5°	18365.0	15152.9	3292.4	1328.5	1232.8	1324.6	1428.0	1473.9	1451.0	1481.6	1485.4
65°	18889.5	14793.0	2266.4	1263.4	1183.0	1378.2	1607.9	1592.6	1458.6	1401.2	1431.8
67.5°	18154.4	13334.4	1680.7	1186.8	1148.5	1489.3	1711.3	1519.9	1317.0	1309.3	1286.4
70°	15612.3	11301.5	1370.6	1106.4	1091.1	1428.0	1665.4	1408.9	1240.4	1190.6	1167.7
72°	12438.6	8801.6	1202.1	1049.0	999.2	1274.9	1558.2	1320.8	1175.3	1114.1	1087.3
72.5°	11355.1	8158.4	1179.2	1022.2	980.1	1240.4	1504.6	1294.0	1160.0	1106.4	1064.3
75°	6228.9	4176.8	1037.5	938.0	826.9	1072.0	1393.5	1213.6	1094.9	1018.4	1010.7
77.5°	2316.2	1619.4	895.9	830.8	715.9	926.5	1267.2	1152.4	995.4	899.7	880.5
80°	888.2	853.7	731.2	700.6	601.1	811.6	1167.7	1033.7	846.1	750.4	719.7
82.5°	539.8	497.7	555.1	547.5	459.4	738.9	1098.8	968.6	750.4	608.7	589.6
85°	294.8	294.8	386.7	371.4	321.6	589.6	830.8	643.2	474.7	390.5	398.2
87.5°	130.2	153.1	206.7	195.2	176.1	333.1	405.8	340.7	237.4	160.8	172.3
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)