

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: P478720

Luminaire Tested: **IFLD-S-SA6D-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478720
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

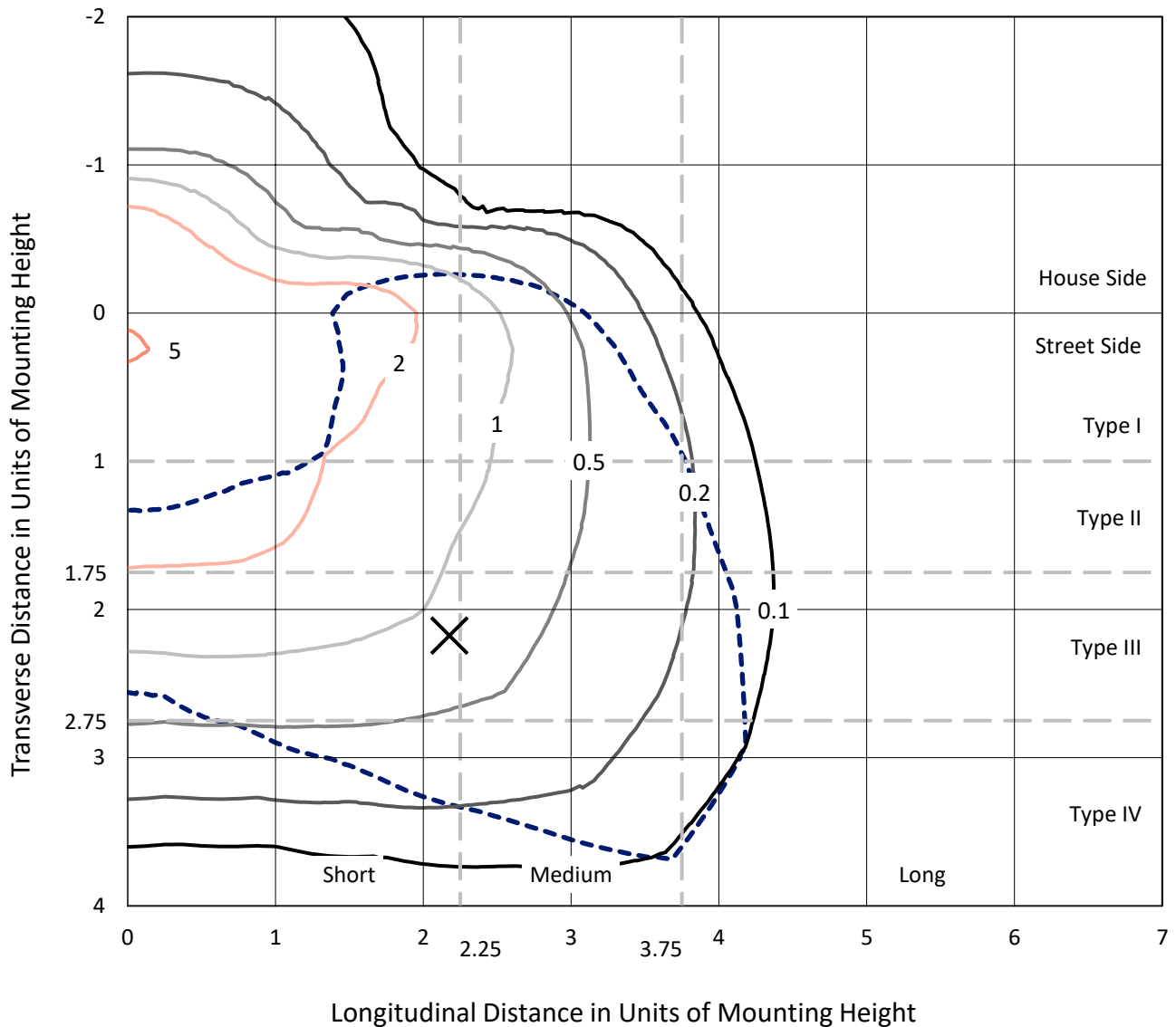
Lumens per Lamp: N/A
Luminaire Lumens: 36722.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

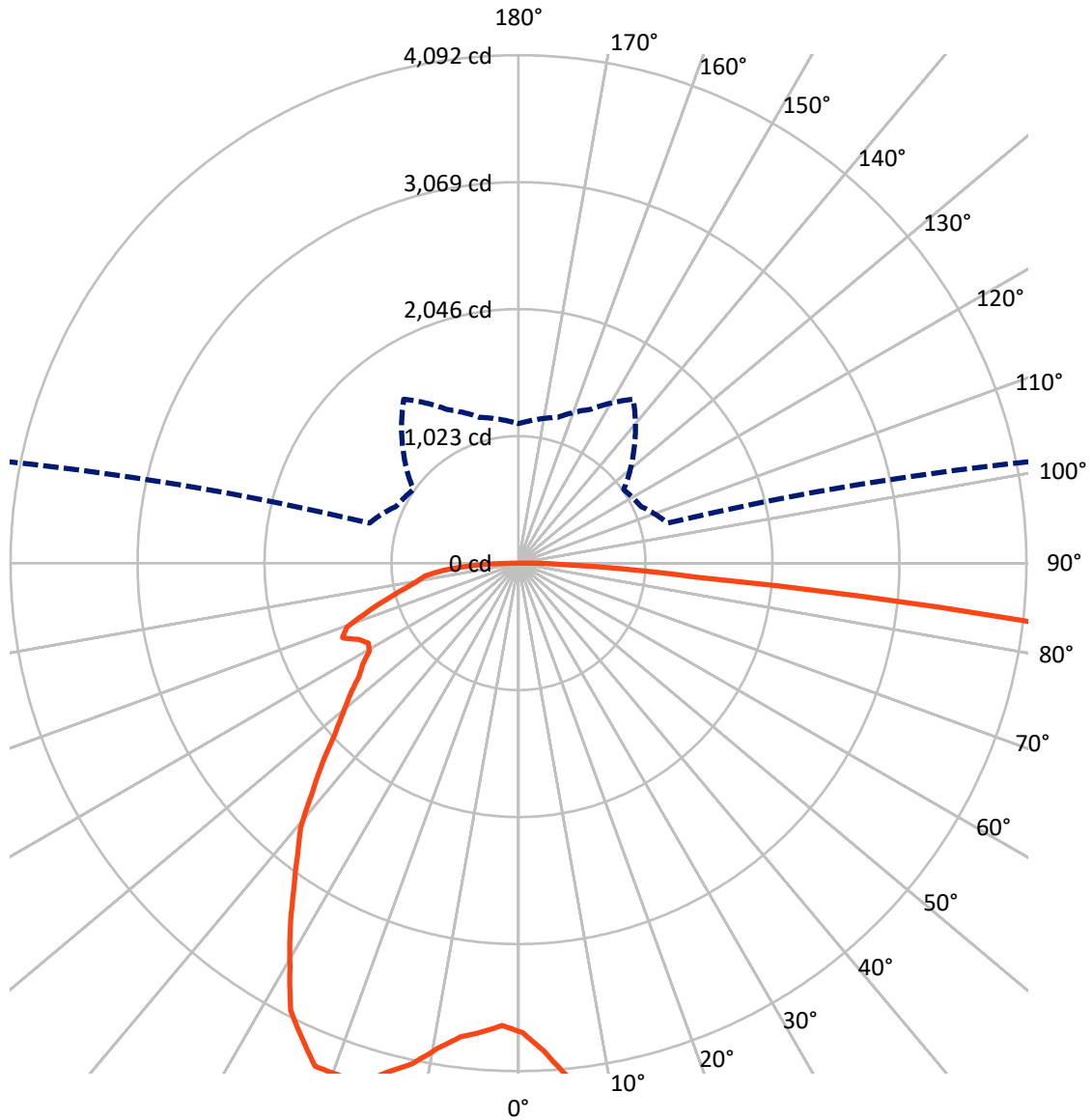
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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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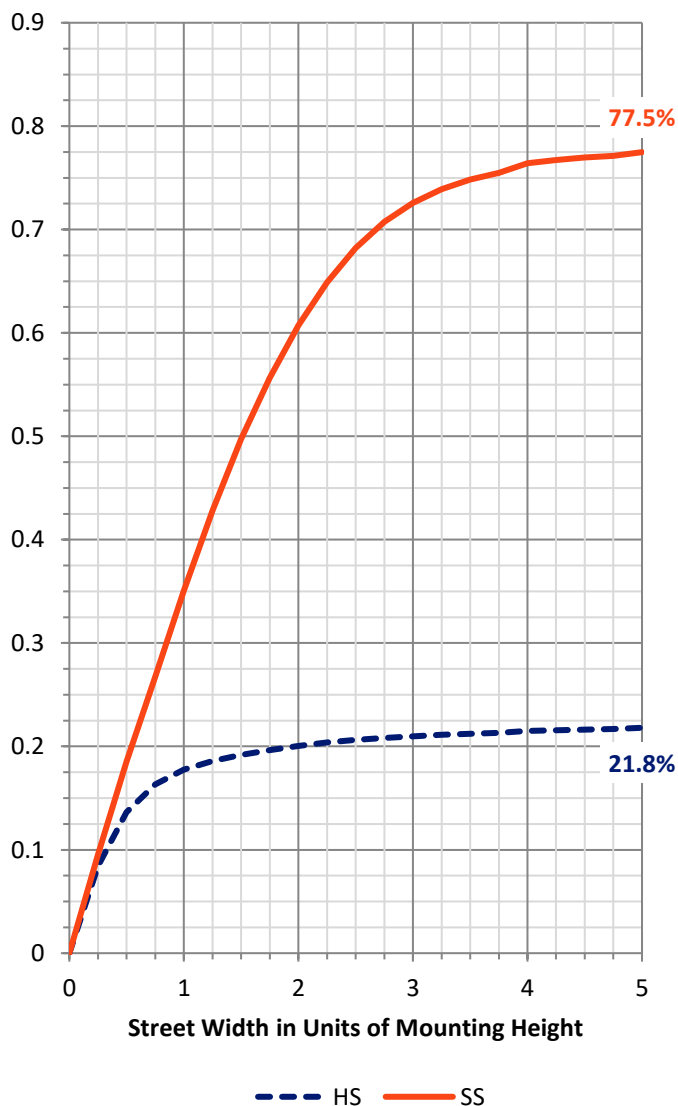
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8174.6	0.0	8174.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28547.6	0.0	28547.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	36722.2	0.0	36722.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	1.1
10°-20°	1287.5	3.5
20°-30°	2174.2	5.9
30°-40°	3008.8	8.2
40°-50°	4303.7	11.7
50°-60°	6941.4	18.9
60°-70°	10237.6	27.9
70°-80°	7434.3	20.2
80°-90°	947.7	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°	36722.2	100.0
0°-180°	36722.2	100.0

Coefficient of Utilization



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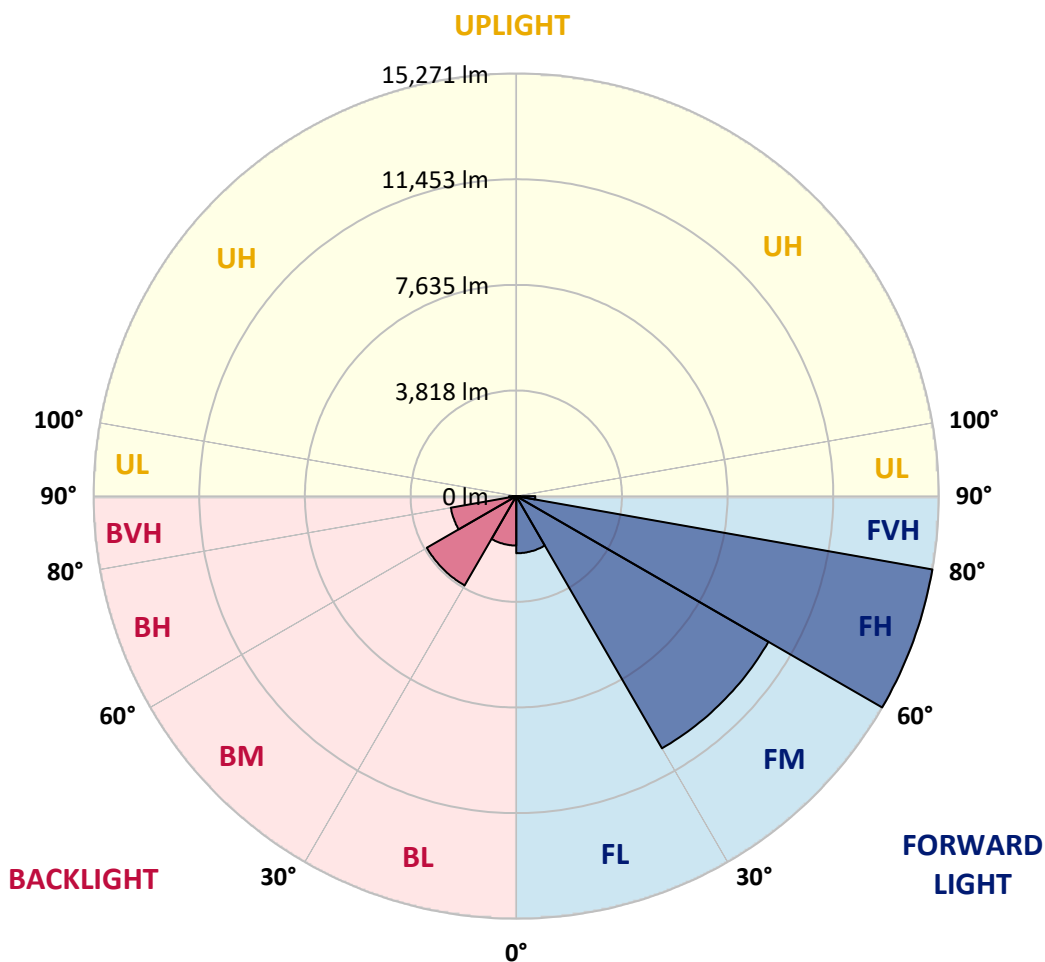
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2063.8	5.6			
FM (30°-60°)	10523.3	28.7			
FH (60°-80°)	15270.7	41.6			G5
FVH (80°-90°)	689.8	1.9			G4/750
BL (0°-30°)	1784.9	4.9	B3/2500		
BM (30°-60°)	3730.6	10.2	B3/5000		
BH (60°-80°)	2401.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	257.9	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°	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7
2.5°	3983.7	4007.4	3983.7	3979.7	3940.1	3912.4	3936.2	3900.5	3860.9	3845.1	3809.4
5°	4348.0	4352.0	4308.4	4312.4	4229.2	4142.1	4157.9	4051.0	3936.2	3892.6	3821.3
7.5°	4720.2	4676.7	4613.3	4593.5	4462.8	4367.8	4355.9	4260.9	4082.7	3983.7	3884.7
10°	4961.8	4977.6	4874.7	4787.5	4676.7	4561.8	4557.9	4379.7	4276.7	4130.2	4003.5
12.5°	5175.6	5179.6	5092.5	4953.9	4815.3	4672.7	4692.5	4613.3	4439.1	4300.5	4173.8
15°	5341.9	5318.2	5223.1	5096.4	4949.9	4839.0	4827.1	4759.8	4613.3	4498.5	4288.6
17.5°	5389.4	5377.6	5282.5	5147.9	5005.3	4922.2	4953.9	4843.0	4783.6	4680.6	4478.7
20°	5298.4	5270.7	5254.8	5104.3	5001.4	4993.5	4965.7	4989.5	4890.5	4795.5	4648.9
22.5°	5132.1	5120.2	5112.3	4993.5	4945.9	4981.6	5029.1	5064.7	5048.9	4957.8	4791.5
25°	4961.8	5017.2	4965.7	4910.3	4977.6	5068.7	5056.8	5171.7	5171.7	5143.9	5005.3
27.5°	5080.6	5044.9	5005.3	4977.6	5001.4	5143.9	5136.0	5274.6	5326.1	5274.6	5116.2
30°	5377.6	5341.9	5227.1	5104.3	5072.7	5227.1	5266.7	5389.4	5413.2	5286.5	5151.9
32.5°	5935.9	5916.1	5734.0	5373.6	5179.6	5266.7	5286.5	5425.1	5405.3	5326.1	5270.7
35°	6763.5	6696.2	6442.8	5833.0	5405.3	5318.2	5266.7	5377.6	5452.8	5413.2	5361.7
37.5°	7670.4	7595.1	7282.3	6510.1	5813.2	5456.8	5417.2	5508.2	5595.4	5575.6	5468.6
40°	8537.6	8537.6	8256.4	7357.5	6419.0	5793.4	5801.3	5698.3	5777.5	5741.9	5761.7
42.5°	9392.9	9361.2	9246.4	8351.5	7068.5	6355.7	6229.0	5971.6	6114.1	6102.2	6130.0
45°	10260.2	10236.4	10204.7	9278.1	7999.0	7116.0	7048.7	6585.3	6716.0	6660.6	6779.4
47.5°	10953.1	10980.9	10980.9	10311.6	8993.0	8129.7	8030.7	7298.1	7547.6	7575.3	7603.0
50°	11543.2	11555.0	11543.2	11297.6	10101.8	9290.0	9088.0	8343.5	8593.0	8810.8	9064.3
52.5°	12358.9	12374.7	12319.3	12224.3	11606.5	10509.6	10283.9	9456.3	9967.1	10196.8	10652.2
55°	13364.7	13245.9	13143.0	13214.2	13051.9	11852.0	11618.4	10604.7	11372.9	11677.8	12588.6
57.5°	13550.8	13653.8	13915.2	14481.4	14715.1	13158.8	13024.2	12014.4	12960.8	13226.1	14746.7
60°	14208.2	14037.9	14679.4	15907.0	16168.3	14861.6	14723.0	13558.8	14540.8	14818.0	16738.6
62.5°	14639.8	14631.9	15582.3	17039.5	17633.5	16627.7	16346.5	15566.4	16247.5	16516.8	18908.6
65°	14513.1	14627.9	16314.9	17704.8	18857.1	18635.4	18473.0	17293.0	18191.9	18168.1	20322.3
67.5°	13356.8	13681.5	15851.6	18183.9	20678.7	21082.6	21031.1	19720.4	19771.9	19269.0	20951.9
70°	11753.0	11642.2	13891.4	17685.0	21589.5	23985.2	23973.3	21526.1	21193.5	19510.5	19146.2
72°	9028.6	8905.9	10755.1	15186.3	21110.3	25145.5	25501.9	22777.5	21177.6	18508.7	15815.9
72.5°	8197.0	8090.1	9931.5	14295.3	20579.7	25446.4	25280.1	22825.0	21011.3	18037.4	14774.5
75°	3773.8	3651.0	4961.8	8751.4	16053.5	22547.8	23114.0	21359.8	18350.3	14358.7	8850.4
77.5°	1124.6	1089.0	1595.8	3532.2	9329.6	16611.9	16829.7	16116.9	12810.3	7864.4	3282.8
80°	625.7	629.6	823.7	1322.6	4102.5	9602.8	10386.9	9955.2	6284.4	2597.7	1092.9
82.5°	348.5	368.3	514.8	784.1	1884.9	4407.4	4744.0	4573.7	2273.0	1219.7	597.9
85°	182.2	190.1	269.3	419.8	1069.2	1393.9	1433.5	1536.4	1180.1	831.6	320.8
87.5°	71.3	71.3	99.0	174.2	396.0	431.6	388.1	471.2	677.1	538.5	158.4
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°	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7	3781.7
2.5°	3841.1	3809.4	3805.5	3754.0	3769.8	3726.3	3730.2	3722.3	3726.3	3718.4	3698.6
5°	3821.3	3797.6	3730.2	3773.8	3734.2	3789.6	3833.2	3817.4	3829.2	3825.3	3829.2
7.5°	3849.0	3817.4	3809.4	3785.7	3821.3	3845.1	3880.7	3979.7	3971.8	3983.7	4007.4
10°	3932.2	3896.6	3872.8	3908.4	3888.6	3963.9	4003.5	4055.0	4146.0	4150.0	4102.5
12.5°	4094.6	4070.8	4023.3	4031.2	4098.5	4122.3	4146.0	4177.7	4237.1	4225.2	4268.8
15°	4280.7	4229.2	4201.5	4193.6	4209.4	4237.1	4233.2	4264.8	4296.5	4324.2	4312.4
17.5°	4415.3	4348.0	4355.9	4395.5	4391.6	4383.6	4332.2	4316.3	4332.2	4348.0	4340.1
20°	4553.9	4561.8	4502.4	4466.8	4450.9	4371.8	4332.2	4284.6	4237.1	4260.9	4296.5
22.5°	4728.1	4692.5	4605.4	4498.5	4419.3	4371.8	4249.0	4165.8	4165.8	4189.6	4177.7
25°	4926.1	4850.9	4700.4	4506.4	4407.4	4205.4	4118.3	4106.4	4074.8	4110.4	4126.2
27.5°	5080.6	5013.3	4807.3	4478.7	4205.4	4043.1	3991.6	3975.8	4027.2	4031.2	4094.6
30°	5143.9	5124.1	4823.2	4407.4	3999.5	3738.2	3706.5	3777.8	3833.2	3916.4	3920.3
32.5°	5227.1	5235.0	4846.9	4241.1	3730.2	3468.9	3421.4	3508.5	3666.9	3734.2	3785.7
35°	5365.7	5405.3	4827.1	4035.2	3445.1	3195.7	3187.7	3211.5	3365.9	3484.7	3552.0
37.5°	5607.2	5599.3	4823.2	3789.6	3219.4	2958.1	2894.7	2902.6	3005.6	3104.6	3092.7
40°	5932.0	5900.3	4811.3	3468.9	2926.4	2756.1	2649.2	2609.6	2601.7	2573.9	2581.9
42.5°	6375.5	6312.1	4807.3	3144.2	2661.1	2478.9	2403.7	2300.7	2225.5	2082.9	2090.8
45°	6993.2	6882.3	4704.4	2839.3	2399.7	2249.2	2134.4	2059.2	1896.8	1718.6	1718.6
47.5°	7947.6	7587.2	4708.3	2502.7	2146.3	2023.5	1944.3	1813.6	1639.4	1496.8	1481.0
50°	9353.3	8529.7	4573.7	2237.4	1940.4	1857.2	1774.0	1623.6	1457.3	1358.3	1370.1
52.5°	11167.0	9935.4	4569.7	1999.8	1778.0	1718.6	1627.5	1492.9	1370.1	1306.8	1283.0
55°	13329.1	11796.6	4712.3	1805.7	1611.7	1580.0	1540.4	1429.5	1310.7	1255.3	1251.3
57.5°	15542.7	13614.2	4942.0	1667.1	1469.1	1492.9	1465.2	1378.1	1283.0	1219.7	1211.7
60°	17510.8	15055.6	4478.7	1500.8	1342.4	1393.9	1433.5	1358.3	1306.8	1302.8	1275.1
62.5°	18995.7	15673.4	3405.5	1374.1	1275.1	1370.1	1477.0	1524.6	1500.8	1532.5	1536.4
65°	19538.2	15301.1	2344.3	1306.8	1223.6	1425.6	1663.2	1647.3	1508.7	1449.3	1481.0
67.5°	18777.9	13792.4	1738.4	1227.6	1188.0	1540.4	1770.1	1572.1	1362.2	1354.3	1330.5
70°	16148.5	11689.7	1417.7	1144.4	1128.6	1477.0	1722.6	1457.3	1283.0	1231.5	1207.8
72°	12865.8	9103.9	1243.4	1085.0	1033.5	1318.7	1611.7	1366.2	1215.7	1152.3	1124.6
72.5°	11745.1	8438.6	1219.7	1057.3	1013.7	1283.0	1556.2	1338.5	1199.9	1144.4	1100.9
75°	6442.8	4320.3	1073.1	970.2	855.3	1108.8	1441.4	1255.3	1132.5	1053.3	1045.4
77.5°	2395.8	1675.0	926.6	859.3	740.5	958.3	1310.7	1191.9	1029.6	930.6	910.8
80°	918.7	883.1	756.3	724.7	621.7	839.5	1207.8	1069.2	875.1	776.1	744.5
82.5°	558.3	514.8	574.2	566.3	475.2	764.3	1136.5	1001.9	776.1	629.6	609.8
85°	304.9	304.9	400.0	384.1	332.6	609.8	859.3	665.3	491.0	403.9	411.8
87.5°	134.6	158.4	213.8	202.0	182.2	344.5	419.8	352.4	245.5	166.3	178.2
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)