

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: P478498

Luminaire Tested: **IFLD-L-SA8A-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478498
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

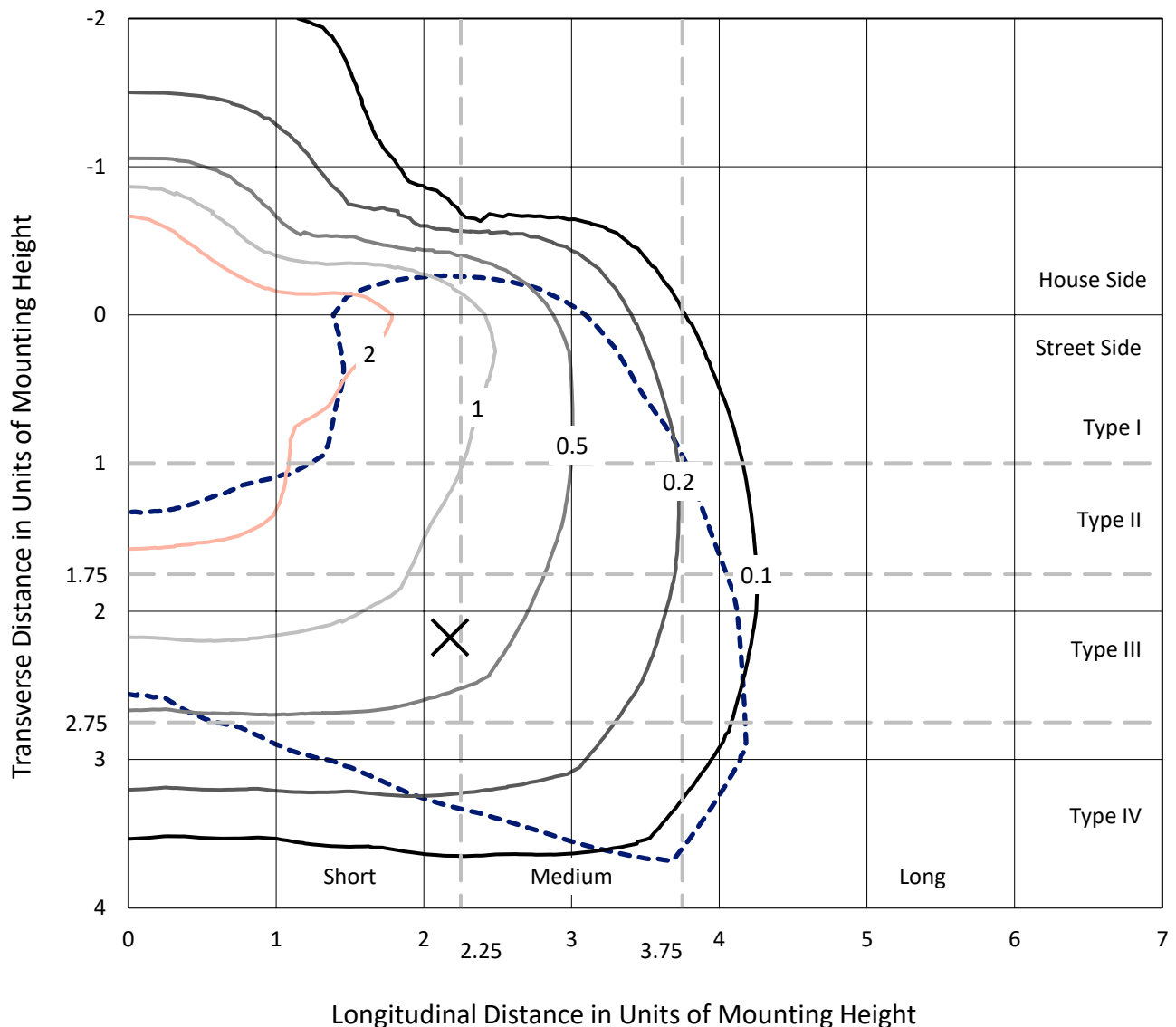
Lumens per Lamp: N/A
Luminaire Lumens: 31529.9 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

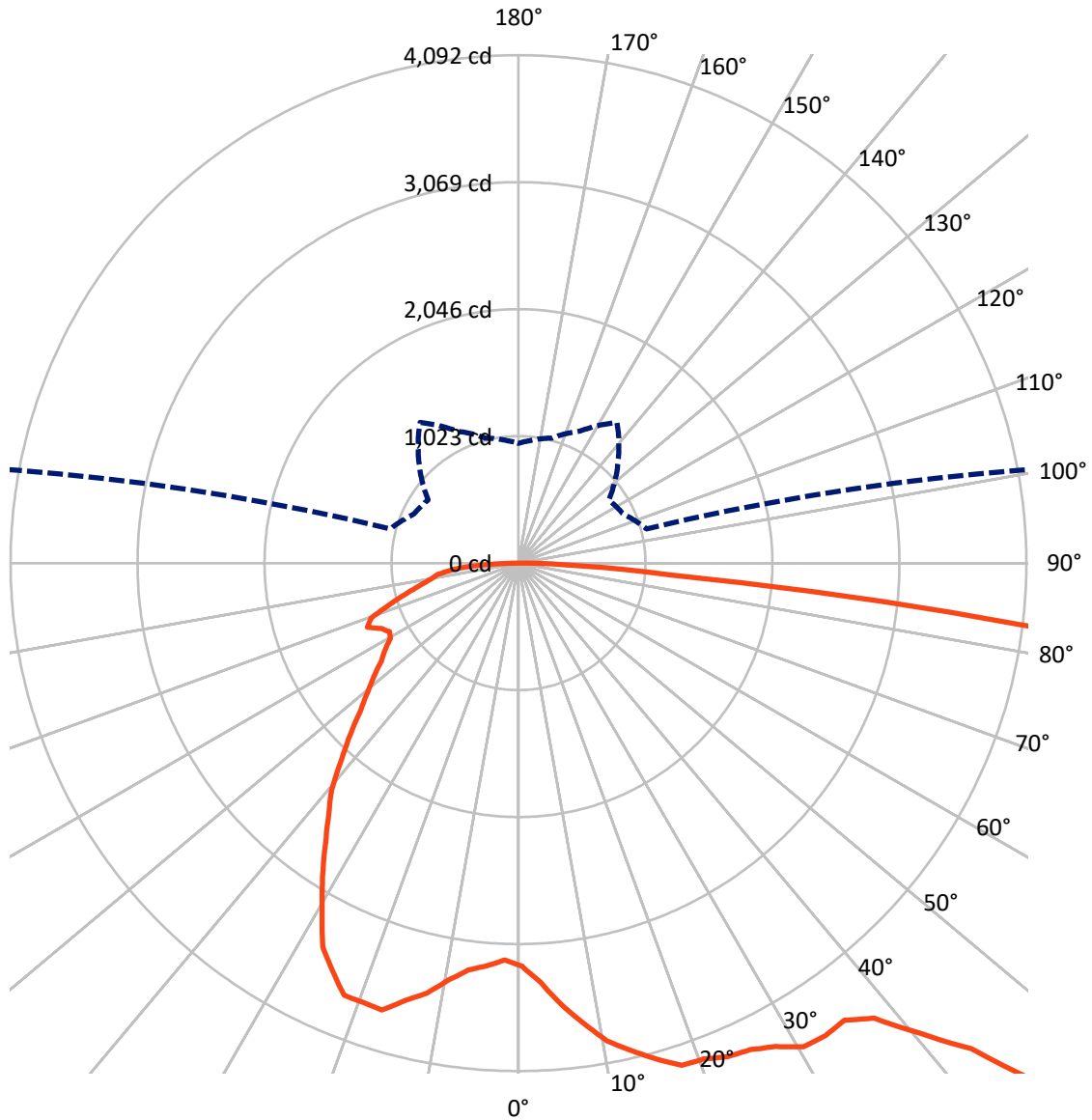
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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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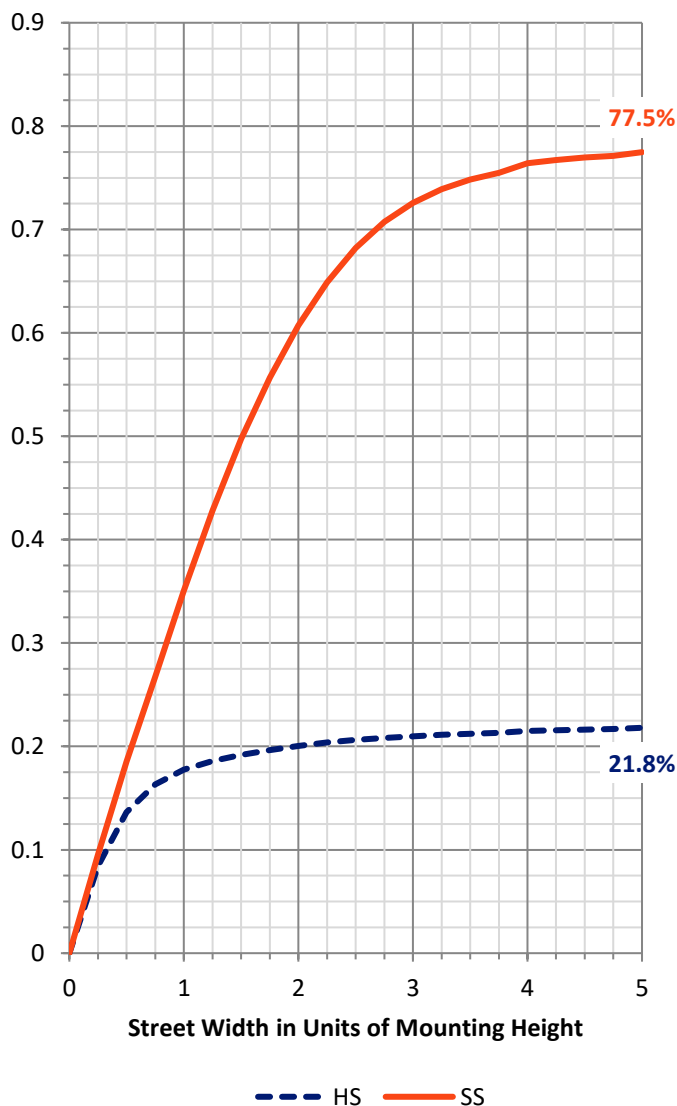
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7018.7	0.0	7018.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24511.2	0.0	24511.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	31529.9	0.0	31529.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	1.1
10°-20°	1105.4	3.5
20°-30°	1866.8	5.9
30°-40°	2583.3	8.2
40°-50°	3695.2	11.7
50°-60°	5960.0	18.9
60°-70°	8790.1	27.9
70°-80°	6383.1	20.2
80°-90°	813.7	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°	31529.9	100.0
0°-180°	31529.9	100.0

Coefficient of Utilization

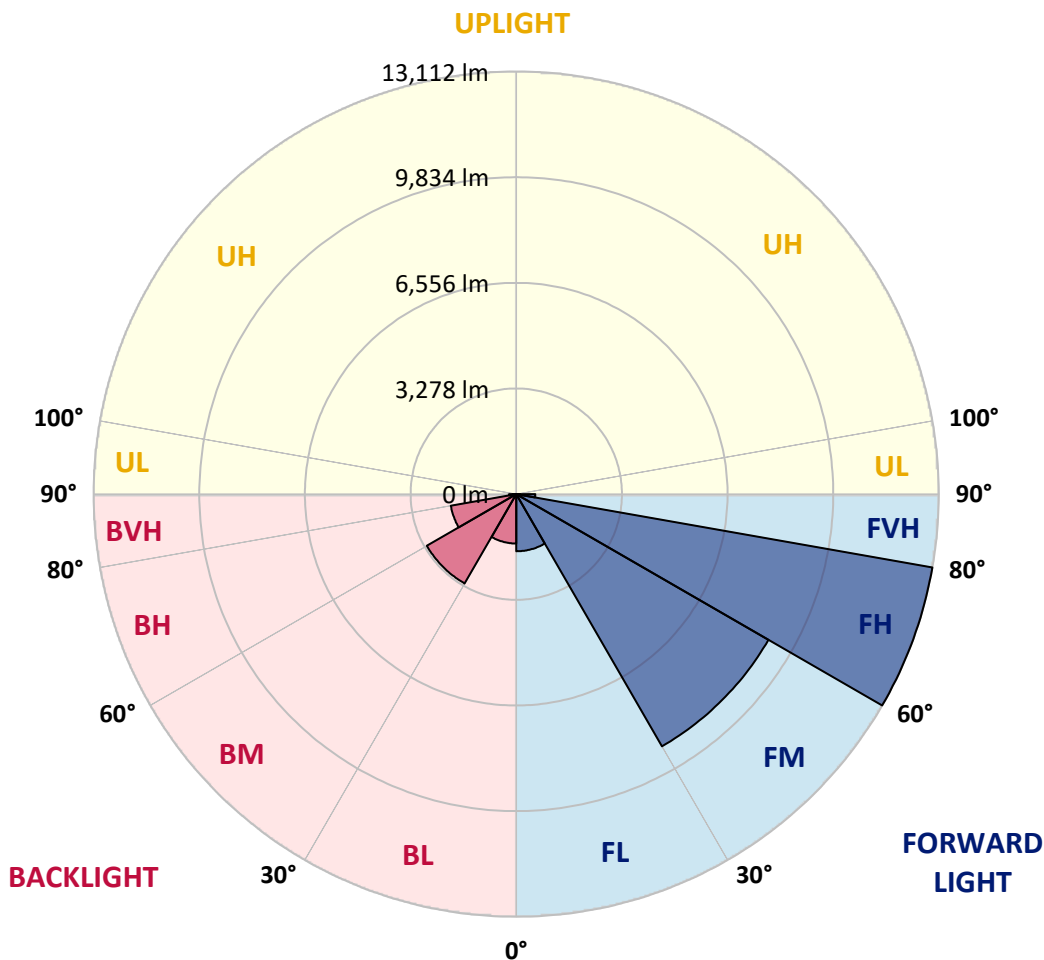


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.0	5.6			
FM (30°-60°)	9035.4	28.7			
FH (60°-80°)	13111.6	41.6			G5
FVH (80°-90°)	592.2	1.9			G4/750
BL (0°-30°)	1532.5	4.9	B3/2500		
BM (30°-60°)	3203.1	10.2	B3/5000		
BH (60°-80°)	2061.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	221.4	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0
2.5°	3420.4	3440.8	3420.4	3417.0	3383.0	3359.2	3379.6	3349.0	3315.0	3301.4	3270.8
5°	3733.2	3736.6	3699.2	3702.6	3631.2	3556.4	3570.0	3478.2	3379.6	3342.2	3281.0
7.5°	4052.8	4015.4	3961.0	3944.0	3831.8	3750.2	3740.0	3658.4	3505.4	3420.4	3335.4
10°	4260.2	4273.8	4185.4	4110.6	4015.4	3916.8	3913.4	3760.4	3672.0	3546.2	3437.4
12.5°	4443.8	4447.2	4372.4	4253.4	4134.4	4012.0	4029.0	3961.0	3811.4	3692.4	3583.6
15°	4586.6	4566.2	4484.6	4375.8	4250.0	4154.8	4144.6	4086.8	3961.0	3862.4	3682.2
17.5°	4627.4	4617.2	4535.6	4420.0	4297.6	4226.2	4253.4	4158.2	4107.2	4018.8	3845.4
20°	4549.2	4525.4	4511.8	4382.6	4294.2	4287.4	4263.6	4284.0	4199.0	4117.4	3991.6
22.5°	4406.4	4396.2	4389.4	4287.4	4246.6	4277.2	4318.0	4348.6	4335.0	4256.8	4114.0
25°	4260.2	4307.8	4263.6	4216.0	4273.8	4352.0	4341.8	4440.4	4440.4	4416.6	4297.6
27.5°	4362.2	4331.6	4297.6	4273.8	4294.2	4416.6	4409.8	4528.8	4573.0	4528.8	4392.8
30°	4617.2	4586.6	4488.0	4382.6	4355.4	4488.0	4522.0	4627.4	4647.8	4539.0	4423.4
32.5°	5096.6	5079.6	4923.2	4613.8	4447.2	4522.0	4539.0	4658.0	4641.0	4573.0	4525.4
35°	5807.2	5749.4	5531.8	5008.2	4641.0	4566.2	4522.0	4617.2	4681.8	4647.8	4603.6
37.5°	6585.8	6521.2	6252.6	5589.6	4991.2	4685.2	4651.2	4729.4	4804.2	4787.2	4695.4
40°	7330.4	7330.4	7089.0	6317.2	5511.4	4974.2	4981.0	4892.6	4960.6	4930.0	4947.0
42.5°	8064.8	8037.6	7939.0	7170.6	6069.0	5457.0	5348.2	5127.2	5249.6	5239.4	5263.2
45°	8809.4	8789.0	8761.8	7966.2	6868.0	6109.8	6052.0	5654.2	5766.4	5718.8	5820.8
47.5°	9404.5	9428.3	9428.3	8853.6	7721.4	6980.2	6895.2	6266.2	6480.4	6504.2	6528.0
50°	9911.1	9921.3	9911.1	9700.3	8673.4	7976.4	7803.0	7163.8	7378.0	7565.0	7782.6
52.5°	10611.5	10625.1	10577.5	10495.9	9965.5	9023.7	8829.8	8119.2	8557.8	8755.0	9146.1
55°	11475.1	11373.1	11284.7	11345.9	11206.5	10176.3	9975.7	9105.3	9764.9	10026.7	10808.7
57.5°	11634.9	11723.3	11947.7	12433.9	12634.5	11298.3	11182.7	10315.7	11128.3	11356.1	12661.7
60°	12199.3	12053.1	12603.9	13657.9	13882.3	12760.3	12641.3	11641.7	12484.9	12722.9	14371.9
62.5°	12569.9	12563.1	13379.1	14630.3	15140.3	14276.7	14035.3	13365.5	13950.3	14181.5	16235.1
65°	12461.1	12559.7	14008.1	15201.5	16190.9	16000.5	15861.1	14847.9	15619.7	15599.3	17448.9
67.5°	11468.3	11747.1	13610.3	15612.9	17754.9	18101.7	18057.5	16932.1	16976.3	16544.5	17989.5
70°	10091.3	9996.1	11927.3	15184.5	18536.9	20593.9	20583.7	18482.5	18196.9	16751.9	16439.1
72°	7752.0	7646.6	9234.5	13039.1	18125.5	21590.1	21896.1	19556.9	18183.3	15891.7	13579.7
72.5°	7038.0	6946.2	8527.2	12274.1	17669.9	21848.5	21705.7	19597.7	18040.5	15487.1	12685.5
75°	3240.2	3134.8	4260.2	7514.0	13783.7	19359.7	19845.9	18339.7	15755.7	12328.5	7599.0
77.5°	965.6	935.0	1370.2	3032.8	8010.4	14263.1	14450.1	13838.1	10999.1	6752.4	2818.6
80°	537.2	540.6	707.2	1135.6	3522.4	8245.0	8918.3	8547.6	5395.8	2230.4	938.4
82.5°	299.2	316.2	442.0	673.2	1618.4	3784.2	4073.2	3927.0	1951.6	1047.2	513.4
85°	156.4	163.2	231.2	360.4	918.0	1196.8	1230.8	1319.2	1013.2	714.0	275.4
87.5°	61.2	61.2	85.0	149.6	340.0	370.6	333.2	404.6	581.4	462.4	136.0
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°	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0	3247.0
2.5°	3298.0	3270.8	3267.4	3223.2	3236.8	3199.4	3202.8	3196.0	3199.4	3192.6	3175.6
5°	3281.0	3260.6	3202.8	3240.2	3206.2	3253.8	3291.2	3277.6	3287.8	3284.4	3287.8
7.5°	3304.8	3277.6	3270.8	3250.4	3281.0	3301.4	3332.0	3417.0	3410.2	3420.4	3440.8
10°	3376.2	3345.6	3325.2	3355.8	3338.8	3403.4	3437.4	3481.6	3559.8	3563.2	3522.4
12.5°	3515.6	3495.2	3454.4	3461.2	3519.0	3539.4	3559.8	3587.0	3638.0	3627.8	3665.2
15°	3675.4	3631.2	3607.4	3600.6	3614.2	3638.0	3634.6	3661.8	3689.0	3712.8	3702.6
17.5°	3791.0	3733.2	3740.0	3774.0	3770.6	3763.8	3719.6	3706.0	3719.6	3733.2	3726.4
20°	3910.0	3916.8	3865.8	3835.2	3821.6	3753.6	3719.6	3678.8	3638.0	3658.4	3689.0
22.5°	4059.6	4029.0	3954.2	3862.4	3794.4	3753.6	3648.2	3576.8	3576.8	3597.2	3587.0
25°	4229.6	4165.0	4035.8	3869.2	3784.2	3610.8	3536.0	3525.8	3498.6	3529.2	3542.8
27.5°	4362.2	4304.4	4127.6	3845.4	3610.8	3471.4	3427.2	3413.6	3457.8	3461.2	3515.6
30°	4416.6	4399.6	4141.2	3784.2	3434.0	3209.6	3182.4	3243.6	3291.2	3362.6	3366.0
32.5°	4488.0	4494.8	4161.6	3641.4	3202.8	2978.4	2937.6	3012.4	3148.4	3206.2	3250.4
35°	4607.0	4641.0	4144.6	3464.6	2958.0	2743.8	2737.0	2757.4	2890.0	2992.0	3049.8
37.5°	4814.4	4807.6	4141.2	3253.8	2764.2	2539.8	2485.4	2492.2	2580.6	2665.6	2655.4
40°	5093.2	5066.0	4131.0	2978.4	2512.6	2366.4	2274.6	2240.6	2233.8	2210.0	2216.8
42.5°	5474.0	5419.6	4127.6	2699.6	2284.8	2128.4	2063.8	1975.4	1910.8	1788.4	1795.2
45°	6004.4	5909.2	4039.2	2437.8	2060.4	1931.2	1832.6	1768.0	1628.6	1475.6	1475.6
47.5°	6823.8	6514.4	4042.6	2148.8	1842.8	1737.4	1669.4	1557.2	1407.6	1285.2	1271.6
50°	8030.8	7323.6	3927.0	1921.0	1666.0	1594.6	1523.2	1394.0	1251.2	1166.2	1176.4
52.5°	9588.1	8530.6	3923.6	1717.0	1526.6	1475.6	1397.4	1281.8	1176.4	1122.0	1101.6
55°	11444.5	10128.7	4046.0	1550.4	1383.8	1356.6	1322.6	1227.4	1125.4	1077.8	1074.4
57.5°	13345.1	11689.3	4243.2	1431.4	1261.4	1281.8	1258.0	1183.2	1101.6	1047.2	1040.4
60°	15034.9	12926.9	3845.4	1288.6	1152.6	1196.8	1230.8	1166.2	1122.0	1118.6	1094.8
62.5°	16309.9	13457.3	2924.0	1179.8	1094.8	1176.4	1268.2	1309.0	1288.6	1315.8	1319.2
65°	16775.7	13137.7	2012.8	1122.0	1050.6	1224.0	1428.0	1414.4	1295.4	1244.4	1271.6
67.5°	16122.9	11842.3	1492.6	1054.0	1020.0	1322.6	1519.8	1349.8	1169.6	1162.8	1142.4
70°	13865.3	10036.9	1217.2	982.6	969.0	1268.2	1479.0	1251.2	1101.6	1057.4	1037.0
72°	11046.7	7816.6	1067.6	931.6	887.4	1132.2	1383.8	1173.0	1043.8	989.4	965.6
72.5°	10084.5	7245.4	1047.2	907.8	870.4	1101.6	1336.2	1149.2	1030.2	982.6	945.2
75°	5531.8	3709.4	921.4	833.0	734.4	952.0	1237.6	1077.8	972.4	904.4	897.6
77.5°	2057.0	1438.2	795.6	737.8	635.8	822.8	1125.4	1023.4	884.0	799.0	782.0
80°	788.8	758.2	649.4	622.2	533.8	720.8	1037.0	918.0	751.4	666.4	639.2
82.5°	479.4	442.0	493.0	486.2	408.0	656.2	975.8	860.2	666.4	540.6	523.6
85°	261.8	261.8	343.4	329.8	285.6	523.6	737.8	571.2	421.6	346.8	353.6
87.5°	115.6	136.0	183.6	173.4	156.4	295.8	360.4	302.6	210.8	142.8	153.0
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)