

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: P478494

Luminaire Tested: **IFLD-L-SA7B-730-U-T4W**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

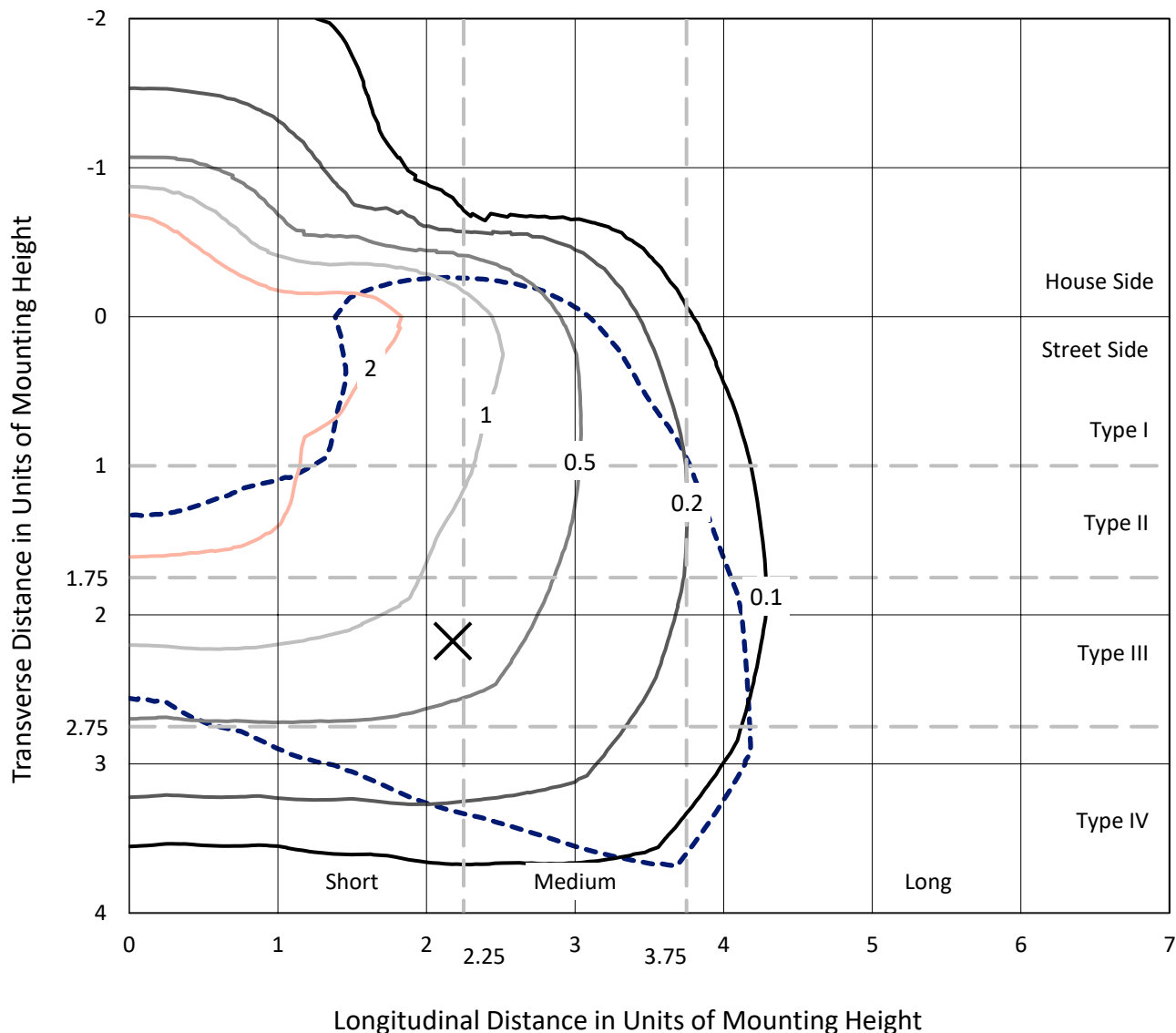
Lumens per Lamp: N/A
Luminaire Lumens: 32777.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

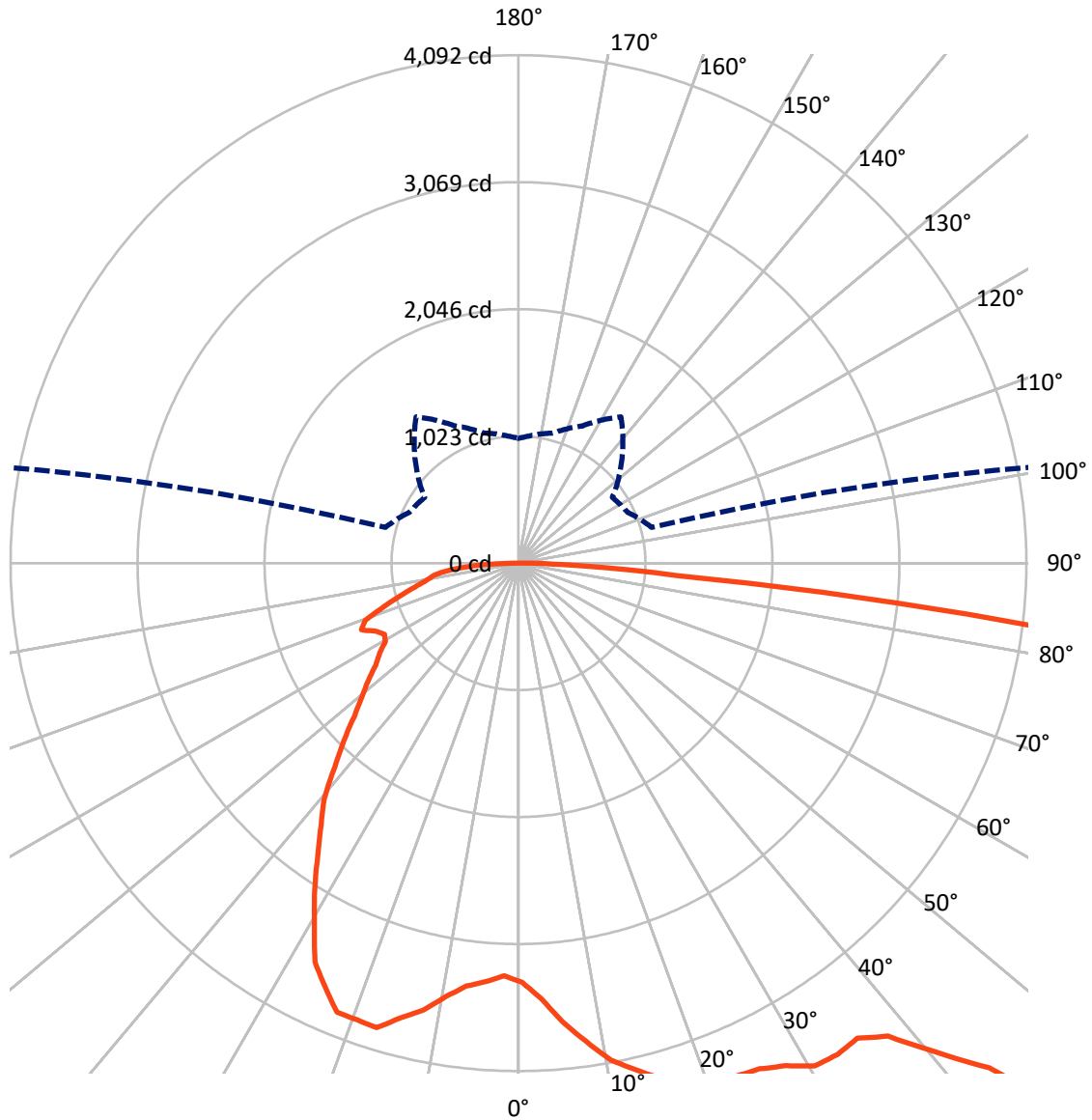
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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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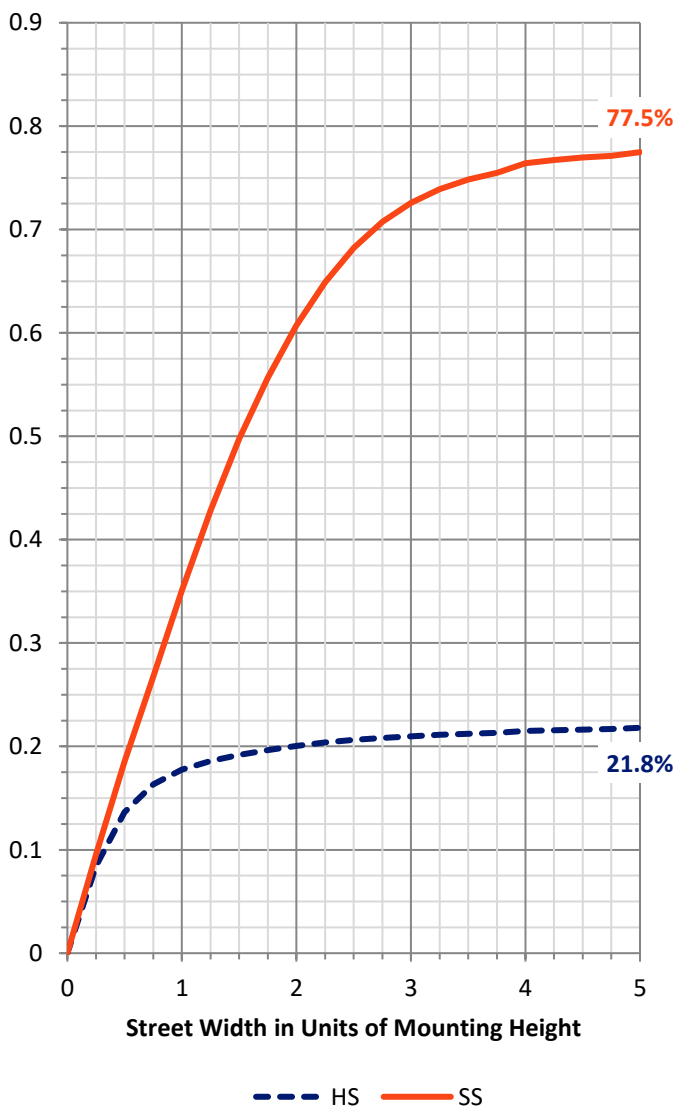
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7296.6	0.0	7296.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25481.4	0.0	25481.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	32777.9	0.0	32777.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.4	1.1
10°-20°	1149.2	3.5
20°-30°	1940.7	5.9
30°-40°	2685.6	8.2
40°-50°	3841.5	11.7
50°-60°	6195.9	18.9
60°-70°	9138.0	27.9
70°-80°	6635.8	20.2
80°-90°	845.9	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°	32777.9	100.0
0°-180°	32777.9	100.0

Coefficient of Utilization



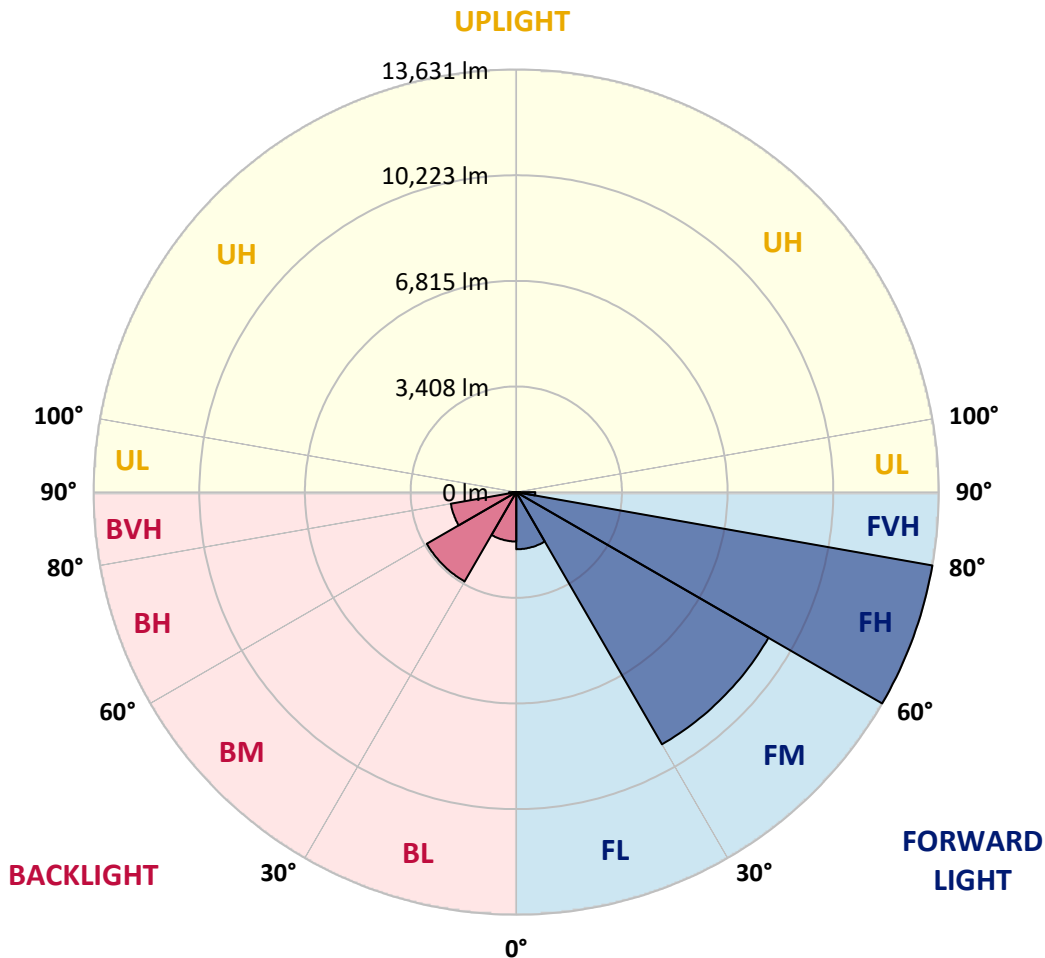
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.1	5.6			
FM (30°-60°)	9393.0	28.7			
FH (60°-80°)	13630.5	41.6			G5
FVH (80°-90°)	615.7	1.9			G4/750
BL (0°-30°)	1593.2	4.9	B3/2500		
BM (30°-60°)	3329.9	10.2	B3/5000		
BH (60°-80°)	2143.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	230.2	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°	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5
2.5°	3555.8	3577.0	3555.8	3552.3	3516.9	3492.2	3513.4	3481.6	3446.2	3432.1	3400.3
5°	3881.0	3884.5	3845.6	3849.2	3774.9	3697.2	3711.3	3615.9	3513.4	3474.5	3410.9
7.5°	4213.2	4174.4	4117.8	4100.1	3983.5	3898.7	3888.0	3803.2	3644.2	3555.8	3467.4
10°	4428.8	4443.0	4351.1	4273.3	4174.4	4071.8	4068.3	3909.3	3817.4	3686.6	3573.5
12.5°	4619.7	4623.2	4545.5	4421.8	4298.1	4170.8	4188.5	4117.8	3962.3	3838.6	3725.5
15°	4768.2	4747.0	4662.1	4549.0	4418.2	4319.3	4308.7	4248.6	4117.8	4015.3	3828.0
17.5°	4810.6	4800.0	4715.1	4595.0	4467.7	4393.5	4421.8	4322.8	4269.8	4177.9	3997.6
20°	4729.3	4704.5	4690.4	4556.1	4464.2	4457.1	4432.4	4453.6	4365.2	4280.4	4149.6
22.5°	4580.8	4570.2	4563.2	4457.1	4414.7	4446.5	4488.9	4520.7	4506.6	4425.3	4276.9
25°	4428.8	4478.3	4432.4	4382.9	4443.0	4524.3	4513.7	4616.2	4616.2	4591.4	4467.7
27.5°	4534.9	4503.1	4467.7	4443.0	4464.2	4591.4	4584.4	4708.1	4754.0	4708.1	4566.7
30°	4800.0	4768.2	4665.7	4556.1	4527.8	4665.7	4701.0	4810.6	4831.8	4718.7	4598.5
32.5°	5298.4	5280.7	5118.1	4796.4	4623.2	4701.0	4718.7	4842.4	4824.7	4754.0	4704.5
35°	6037.1	5977.0	5750.8	5206.5	4824.7	4747.0	4701.0	4800.0	4867.1	4831.8	4785.8
37.5°	6846.5	6779.3	6500.1	5810.9	5188.8	4870.7	4835.3	4916.6	4994.4	4976.7	4881.3
40°	7620.6	7620.6	7369.6	6567.3	5729.6	5171.1	5178.2	5086.3	5157.0	5125.2	5142.8
42.5°	8384.0	8355.8	8253.3	7454.5	6309.2	5673.0	5559.9	5330.2	5457.4	5446.8	5471.5
45°	9158.1	9136.9	9108.6	8281.5	7139.9	6351.7	6291.6	5878.0	5994.7	5945.2	6051.2
47.5°	9776.7	9801.4	9801.4	9204.1	8027.1	7256.5	7168.1	6514.2	6736.9	6761.7	6786.4
50°	10303.3	10313.9	10303.3	10084.2	9016.7	8292.1	8111.9	7447.4	7670.1	7864.5	8090.7
52.5°	11031.5	11045.6	10996.1	10911.3	10359.9	9380.8	9179.3	8440.6	8896.6	9101.6	9508.0
55°	11929.2	11823.2	11731.3	11794.9	11650.0	10579.0	10370.5	9465.6	10151.3	10423.5	11236.5
57.5°	12095.4	12187.3	12420.5	12926.0	13134.5	11745.4	11625.3	10723.9	11568.7	11805.5	13162.8
60°	12682.1	12530.1	13102.7	14198.4	14431.7	13265.3	13141.6	12102.4	12979.0	13226.4	14940.7
62.5°	13067.4	13060.3	13908.6	15209.3	15739.5	14841.7	14590.8	13894.5	14502.4	14742.8	16877.7
65°	12954.3	13056.8	14562.5	15803.2	16831.7	16633.8	16488.9	15435.6	16237.9	16216.7	18139.5
67.5°	11922.2	12212.0	14149.0	16230.8	18457.6	18818.2	18772.2	17602.3	17648.2	17199.3	18701.5
70°	10490.7	10391.7	12399.3	15785.5	19270.6	21409.0	21398.4	19214.0	18917.1	17414.9	17089.7
72°	8058.9	7949.3	9599.9	13555.2	18842.9	22444.6	22762.8	20331.0	18903.0	16520.7	14117.2
72.5°	7316.6	7221.2	8864.8	12759.9	18369.3	22713.3	22564.8	20373.4	18754.5	16100.1	13187.6
75°	3368.5	3258.9	4428.8	7811.4	14329.2	20126.0	20631.4	19065.6	16379.3	12816.4	7899.8
77.5°	1003.8	972.0	1424.4	3152.9	8327.5	14827.6	15022.0	14385.8	11434.4	7019.7	2930.2
80°	558.5	562.0	735.2	1180.6	3661.8	8571.4	9271.2	8886.0	5609.4	2318.7	975.5
82.5°	311.0	328.7	459.5	699.8	1682.5	3934.0	4234.4	4082.5	2028.9	1088.7	533.7
85°	162.6	169.7	240.4	374.7	954.3	1244.2	1279.5	1371.4	1053.3	742.3	286.3
87.5°	63.6	63.6	88.4	155.5	353.5	385.3	346.4	420.6	604.4	480.7	141.4
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°	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5	3375.5
2.5°	3428.6	3400.3	3396.7	3350.8	3364.9	3326.0	3329.6	3322.5	3326.0	3319.0	3301.3
5°	3410.9	3389.7	3329.6	3368.5	3333.1	3382.6	3421.5	3407.3	3417.9	3414.4	3417.9
7.5°	3435.6	3407.3	3400.3	3379.1	3410.9	3432.1	3463.9	3552.3	3545.2	3555.8	3577.0
10°	3509.8	3478.0	3456.8	3488.6	3471.0	3538.1	3573.5	3619.4	3700.7	3704.3	3661.8
12.5°	3654.8	3633.6	3591.1	3598.2	3658.3	3679.5	3700.7	3729.0	3782.0	3771.4	3810.3
15°	3820.9	3774.9	3750.2	3743.1	3757.3	3782.0	3778.5	3806.8	3835.0	3859.8	3849.2
17.5°	3941.1	3881.0	3888.0	3923.4	3919.9	3912.8	3866.8	3852.7	3866.8	3881.0	3873.9
20°	4064.8	4071.8	4018.8	3987.0	3972.9	3902.2	3866.8	3824.4	3782.0	3803.2	3835.0
22.5°	4220.3	4188.5	4110.7	4015.3	3944.6	3902.2	3792.6	3718.4	3718.4	3739.6	3729.0
25°	4397.0	4329.9	4195.6	4022.4	3934.0	3753.7	3676.0	3665.4	3637.1	3668.9	3683.0
27.5°	4534.9	4474.8	4291.0	3997.6	3753.7	3608.8	3562.9	3548.7	3594.7	3598.2	3654.8
30°	4591.4	4573.8	4305.1	3934.0	3569.9	3336.7	3308.4	3372.0	3421.5	3495.7	3499.2
32.5°	4665.7	4672.7	4326.3	3785.5	3329.6	3096.3	3053.9	3131.6	3273.0	3333.1	3379.1
35°	4789.4	4824.7	4308.7	3601.7	3075.1	2852.4	2845.3	2866.6	3004.4	3110.4	3170.5
37.5°	5005.0	4997.9	4305.1	3382.6	2873.6	2640.3	2583.8	2590.9	2682.8	2771.1	2760.5
40°	5294.8	5266.5	4294.5	3096.3	2612.1	2460.1	2364.6	2329.3	2322.2	2297.5	2304.6
42.5°	5690.7	5634.1	4291.0	2806.5	2375.2	2212.7	2145.5	2053.6	1986.4	1859.2	1866.3
45°	6242.1	6143.1	4199.1	2534.3	2142.0	2007.6	1905.1	1838.0	1693.1	1534.0	1534.0
47.5°	7093.9	6772.3	4202.6	2233.9	1915.7	1806.2	1735.5	1618.8	1463.3	1336.1	1321.9
50°	8348.7	7613.5	4082.5	1997.0	1731.9	1657.7	1583.5	1449.2	1300.7	1212.4	1223.0
52.5°	9967.5	8868.3	4078.9	1785.0	1587.0	1534.0	1452.7	1332.5	1223.0	1166.4	1145.2
55°	11897.4	10529.5	4206.2	1611.8	1438.6	1410.3	1375.0	1276.0	1169.9	1120.5	1116.9
57.5°	13873.3	12151.9	4411.2	1488.1	1311.3	1332.5	1307.8	1230.0	1145.2	1088.7	1081.6
60°	15630.0	13438.5	3997.6	1339.6	1198.2	1244.2	1279.5	1212.4	1166.4	1162.9	1138.1
62.5°	16955.4	13989.9	3039.7	1226.5	1138.1	1223.0	1318.4	1360.8	1339.6	1367.9	1371.4
65°	17439.7	13657.7	2092.5	1166.4	1092.2	1272.5	1484.5	1470.4	1346.7	1293.7	1321.9
67.5°	16761.0	12311.0	1551.7	1095.7	1060.4	1375.0	1580.0	1403.2	1215.9	1208.8	1187.6
70°	14414.1	10434.1	1265.4	1021.5	1007.4	1318.4	1537.5	1300.7	1145.2	1099.3	1078.0
72°	11483.9	8126.0	1109.9	968.5	922.5	1177.0	1438.6	1219.4	1085.1	1028.6	1003.8
72.5°	10483.6	7532.2	1088.7	943.7	904.9	1145.2	1389.1	1194.7	1071.0	1021.5	982.6
75°	5750.8	3856.2	957.9	866.0	763.5	989.7	1286.6	1120.5	1010.9	940.2	933.1
77.5°	2138.4	1495.1	827.1	767.0	661.0	855.4	1169.9	1063.9	919.0	830.6	813.0
80°	820.0	788.2	675.1	646.8	554.9	749.3	1078.0	954.3	781.1	692.8	664.5
82.5°	498.4	459.5	512.5	505.4	424.2	682.2	1014.4	894.3	692.8	562.0	544.3
85°	272.2	272.2	357.0	342.9	296.9	544.3	767.0	593.8	438.3	360.5	367.6
87.5°	120.2	141.4	190.9	180.3	162.6	307.5	374.7	314.6	219.1	148.5	159.1
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)