

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: P478460

Luminaire Tested: **IFLD-L-SA8B-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478460
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

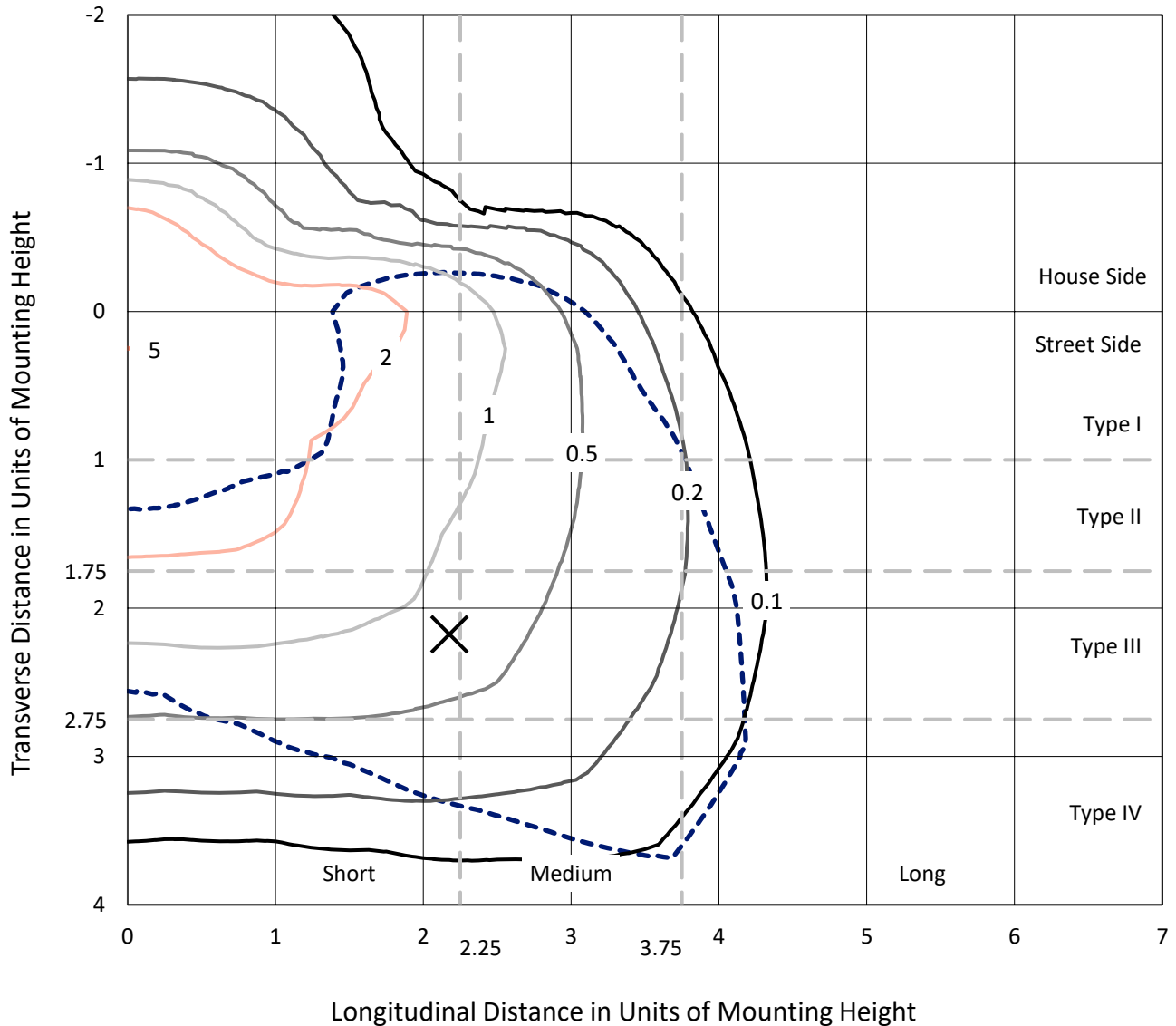
Lumens per Lamp: N/A
Luminaire Lumens: 34403.2 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

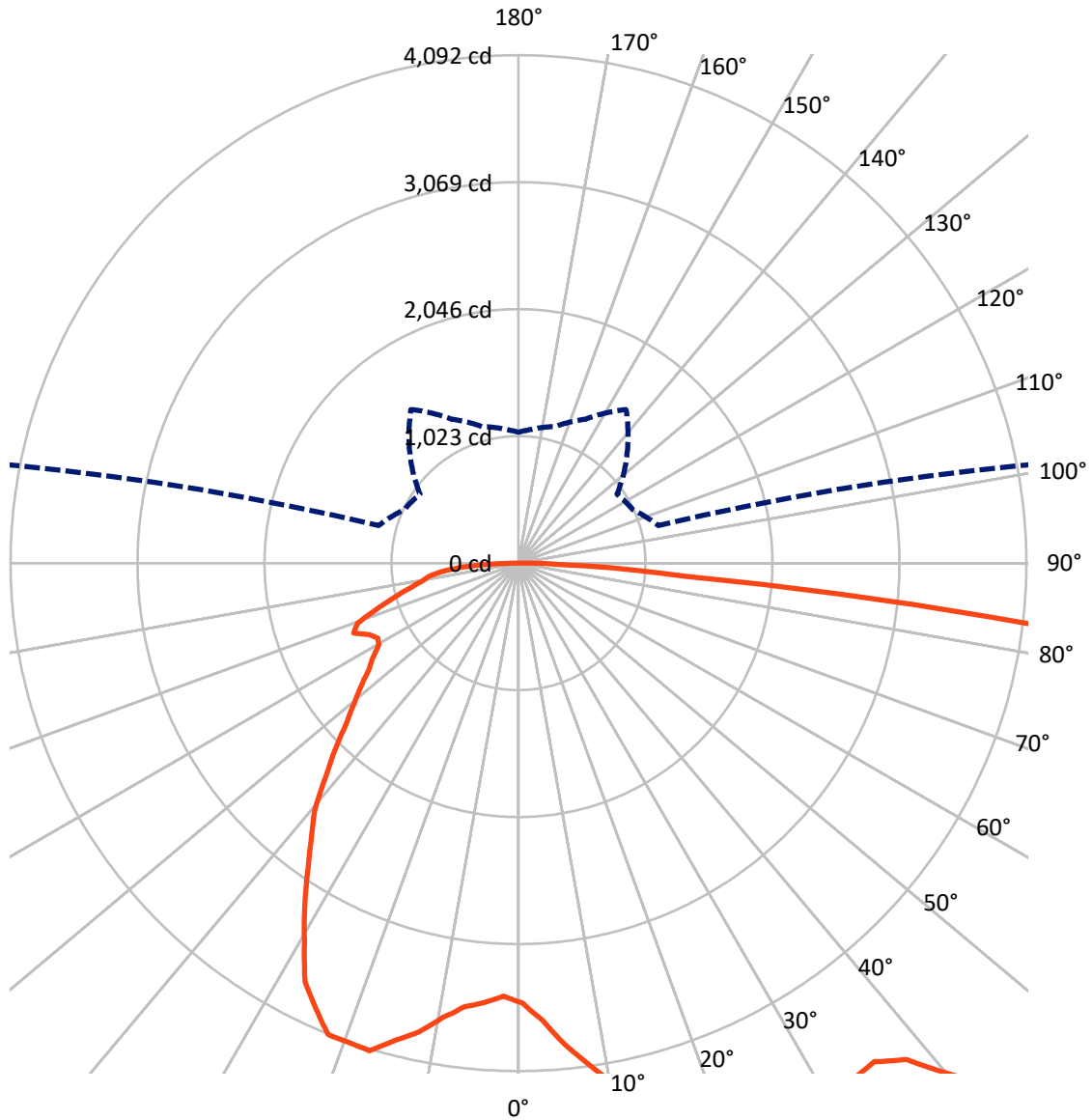
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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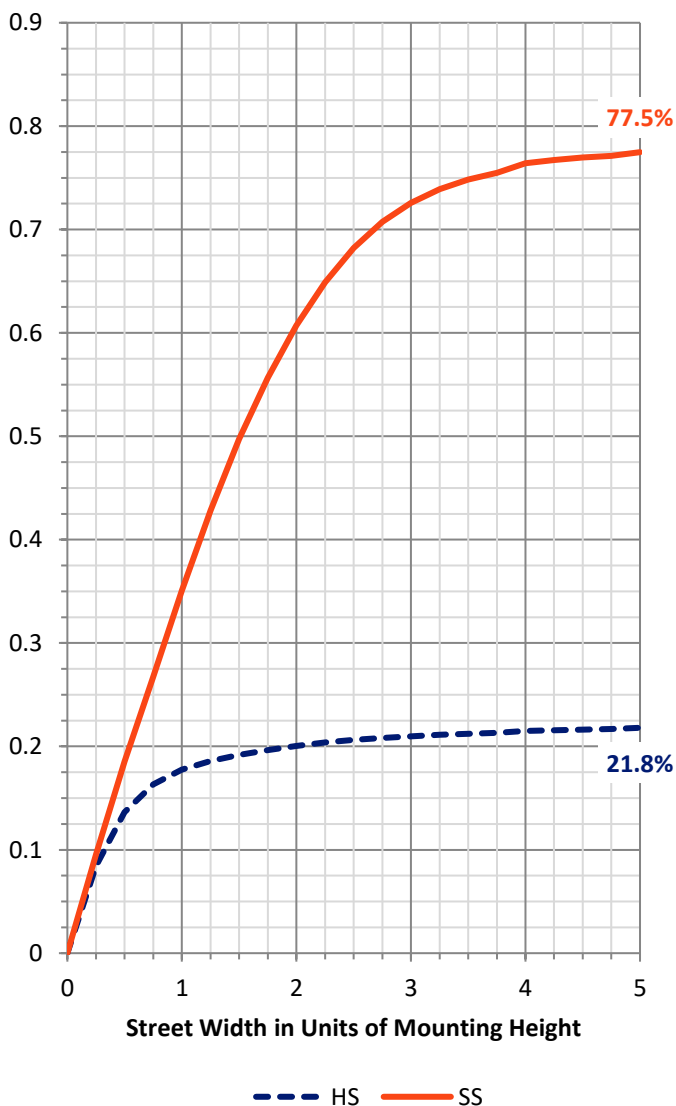
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7658.4	0.0	7658.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26744.9	0.0	26744.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	34403.2	0.0	34403.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	1.1
10°-20°	1206.2	3.5
20°-30°	2036.9	5.9
30°-40°	2818.8	8.2
40°-50°	4032.0	11.7
50°-60°	6503.1	18.9
60°-70°	9591.1	27.9
70°-80°	6964.8	20.2
80°-90°	887.8	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°	34403.2	100.0
0°-180°	34403.2	100.0

Coefficient of Utilization



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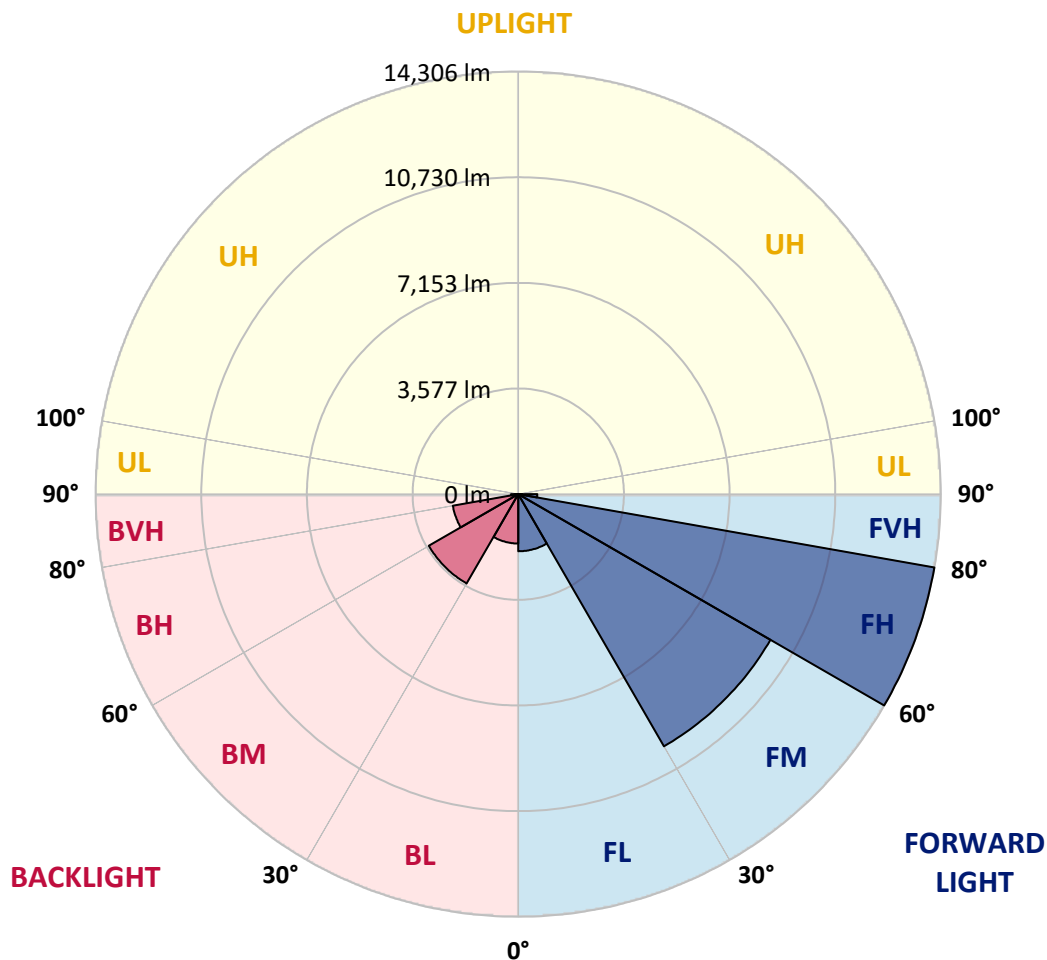
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.5	5.6			
FM (30°-60°)	9858.8	28.7			
FH (60°-80°)	14306.4	41.6			G5
FVH (80°-90°)	646.2	1.9			G4/750
BL (0°-30°)	1672.2	4.9	B3/2500		
BM (30°-60°)	3495.0	10.2	B3/5000		
BH (60°-80°)	2249.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	241.6	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°	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9
2.5°	3732.1	3754.4	3732.1	3728.4	3691.3	3665.3	3687.6	3654.2	3617.1	3602.3	3568.9
5°	4073.4	4077.1	4036.3	4040.0	3962.1	3880.5	3895.3	3795.2	3687.6	3646.8	3580.0
7.5°	4422.1	4381.3	4322.0	4303.4	4181.0	4092.0	4080.8	3991.8	3824.9	3732.1	3639.4
10°	4648.4	4663.3	4566.8	4485.2	4381.3	4273.7	4270.0	4103.1	4006.6	3869.4	3750.7
12.5°	4848.8	4852.5	4770.9	4641.0	4511.2	4377.6	4396.2	4322.0	4158.7	4028.9	3910.2
15°	5004.6	4982.3	4893.3	4774.6	4637.3	4533.4	4522.3	4459.2	4322.0	4214.4	4017.8
17.5°	5049.1	5038.0	4948.9	4822.8	4689.3	4611.3	4641.0	4537.1	4481.5	4385.0	4195.8
20°	4963.8	4937.8	4923.0	4782.0	4685.5	4678.1	4652.2	4674.4	4581.7	4492.6	4355.4
22.5°	4808.0	4796.8	4789.4	4678.1	4633.6	4667.0	4711.5	4744.9	4730.1	4644.7	4488.9
25°	4648.4	4700.4	4652.2	4600.2	4663.3	4748.6	4737.5	4845.1	4845.1	4819.1	4689.3
27.5°	4759.7	4726.4	4689.3	4663.3	4685.5	4819.1	4811.7	4941.5	4989.8	4941.5	4793.1
30°	5038.0	5004.6	4897.0	4782.0	4752.3	4897.0	4934.1	5049.1	5071.4	4952.7	4826.5
32.5°	5561.1	5542.5	5371.9	5034.3	4852.5	4934.1	4952.7	5082.5	5063.9	4989.8	4937.8
35°	6336.4	6273.4	6035.9	5464.6	5063.9	4982.3	4934.1	5038.0	5108.5	5071.4	5023.1
37.5°	7186.0	7115.5	6822.4	6099.0	5446.1	5112.2	5075.1	5160.4	5242.0	5223.5	5123.3
40°	7998.4	7998.4	7735.0	6892.9	6013.7	5427.5	5434.9	5338.5	5412.7	5379.3	5397.8
42.5°	8799.8	8770.1	8662.5	7824.1	6622.1	5954.3	5835.6	5594.5	5728.0	5716.9	5742.8
45°	9612.2	9590.0	9560.3	8692.2	7493.9	6666.6	6603.5	6169.5	6291.9	6240.0	6351.3
47.5°	10261.4	10287.4	10287.4	9660.5	8425.1	7616.3	7523.6	6837.3	7071.0	7096.9	7122.9
50°	10814.2	10825.3	10814.2	10584.2	9463.8	8703.3	8514.1	7816.7	8050.4	8254.4	8491.8
52.5°	11578.4	11593.3	11541.3	11452.3	10873.6	9845.9	9634.5	8859.1	9337.7	9552.9	9979.5
55°	12520.7	12409.5	12313.0	12379.8	12227.7	11103.6	10884.7	9935.0	10654.7	10940.4	11793.6
57.5°	12695.1	12791.6	13036.4	13566.9	13785.8	12327.8	12201.7	11255.7	12142.3	12390.9	13815.5
60°	13310.9	13151.4	13752.4	14902.5	15147.3	13923.1	13793.2	12702.5	13622.6	13882.3	15681.5
62.5°	13715.3	13707.9	14598.3	15963.5	16520.0	15577.7	15314.3	14583.4	15221.5	15473.8	17714.5
65°	13596.6	13704.2	15284.6	16586.7	17666.3	17458.6	17306.5	16200.9	17043.1	17020.8	19039.0
67.5°	12513.3	12817.5	14850.5	17035.6	19372.8	19751.2	19703.0	18475.1	18523.3	18052.1	19628.8
70°	11010.8	10907.0	13014.2	16568.2	20226.1	22470.6	22459.4	20166.8	19855.1	18278.4	17937.1
72°	8458.5	8343.5	10076.0	14227.3	19777.2	23557.6	23891.4	21339.1	19840.3	17339.8	14817.1
72.5°	7679.4	7579.2	9304.3	13392.6	19280.1	23839.5	23683.7	21383.6	19684.5	16898.4	13841.5
75°	3535.5	3420.5	4648.4	8198.8	15039.7	21123.9	21654.4	20010.9	17191.5	13451.9	8291.5
77.5°	1053.6	1020.2	1495.1	3309.2	8740.4	15562.8	15766.9	15099.1	12001.4	7367.8	3075.5
80°	586.2	589.9	771.6	1239.1	3843.4	8996.4	9730.9	9326.6	5887.5	2433.7	1023.9
82.5°	326.5	345.0	482.3	734.6	1765.9	4129.1	4444.4	4284.9	2129.5	1142.6	560.2
85°	170.7	178.1	252.3	393.2	1001.7	1305.9	1343.0	1439.4	1105.5	779.1	300.5
87.5°	66.8	66.8	92.7	163.2	371.0	404.4	363.6	441.5	634.4	504.5	148.4
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°	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9	3542.9
2.5°	3598.6	3568.9	3565.2	3516.9	3531.8	3491.0	3494.7	3487.3	3491.0	3483.6	3465.0
5°	3580.0	3557.7	3494.7	3535.5	3498.4	3550.3	3591.1	3576.3	3587.4	3583.7	3587.4
7.5°	3606.0	3576.3	3568.9	3546.6	3580.0	3602.3	3635.7	3728.4	3721.0	3732.1	3754.4
10°	3683.9	3650.5	3628.2	3661.6	3643.1	3713.6	3750.7	3798.9	3884.2	3887.9	3843.4
12.5°	3836.0	3813.7	3769.2	3776.6	3839.7	3862.0	3884.2	3913.9	3969.5	3958.4	3999.2
15°	4010.3	3962.1	3936.2	3928.7	3943.6	3969.5	3965.8	3995.5	4025.2	4051.2	4040.0
17.5°	4136.5	4073.4	4080.8	4117.9	4114.2	4106.8	4058.6	4043.7	4058.6	4073.4	4066.0
20°	4266.3	4273.7	4218.1	4184.7	4169.9	4095.7	4058.6	4014.1	3969.5	3991.8	4025.2
22.5°	4429.6	4396.2	4314.6	4214.4	4140.2	4095.7	3980.7	3902.8	3902.8	3925.0	3913.9
25°	4615.1	4544.6	4403.6	4221.8	4129.1	3939.9	3858.2	3847.1	3817.4	3850.8	3865.7
27.5°	4759.7	4696.7	4503.8	4195.8	3939.9	3787.8	3739.5	3724.7	3772.9	3776.6	3836.0
30°	4819.1	4800.5	4518.6	4129.1	3746.9	3502.1	3472.4	3539.2	3591.1	3669.0	3672.8
32.5°	4897.0	4904.4	4540.9	3973.3	3494.7	3249.8	3205.3	3286.9	3435.3	3498.4	3546.6
35°	5026.8	5063.9	4522.3	3780.3	3227.6	2993.9	2986.4	3008.7	3153.4	3264.7	3327.7
37.5°	5253.1	5245.7	4518.6	3550.3	3016.1	2771.3	2711.9	2719.3	2815.8	2908.5	2897.4
40°	5557.4	5527.7	4507.5	3249.8	2741.6	2582.1	2481.9	2444.8	2437.4	2411.4	2418.8
42.5°	5972.9	5913.5	4503.8	2945.6	2493.0	2322.4	2251.9	2155.4	2084.9	1951.4	1958.8
45°	6551.6	6447.7	4407.3	2660.0	2248.2	2107.2	1999.6	1929.1	1777.0	1610.1	1610.1
47.5°	7445.7	7108.1	4411.0	2344.6	2010.7	1895.7	1821.5	1699.1	1535.9	1402.3	1387.5
50°	8762.7	7991.0	4284.9	2096.1	1817.8	1739.9	1662.0	1521.0	1365.2	1272.5	1283.6
52.5°	10461.8	9308.0	4281.2	1873.5	1665.7	1610.1	1524.7	1398.6	1283.6	1224.3	1202.0
55°	12487.4	11051.6	4414.7	1691.7	1509.9	1480.2	1443.1	1339.3	1228.0	1176.0	1172.3
57.5°	14561.2	12754.5	4629.9	1561.8	1376.4	1398.6	1372.6	1291.0	1202.0	1142.6	1135.2
60°	16405.0	14104.9	4195.8	1406.0	1257.6	1305.9	1343.0	1272.5	1224.3	1220.5	1194.6
62.5°	17796.2	14683.6	3190.5	1287.3	1194.6	1283.6	1383.8	1428.3	1406.0	1435.7	1439.4
65°	18304.4	14334.9	2196.2	1224.3	1146.3	1335.5	1558.1	1543.3	1413.5	1357.8	1387.5
67.5°	17592.1	12921.4	1628.6	1150.1	1113.0	1443.1	1658.3	1472.8	1276.2	1268.8	1246.5
70°	15128.8	10951.5	1328.1	1072.1	1057.3	1383.8	1613.8	1365.2	1202.0	1153.8	1131.5
72°	12053.3	8528.9	1164.9	1016.5	968.3	1235.4	1509.9	1279.9	1138.9	1079.6	1053.6
72.5°	11003.4	7905.7	1142.6	990.5	949.7	1202.0	1458.0	1253.9	1124.1	1072.1	1031.3
75°	6035.9	4047.4	1005.4	908.9	801.3	1038.8	1350.4	1176.0	1061.0	986.8	979.4
77.5°	2244.5	1569.3	868.1	805.0	693.7	897.8	1228.0	1116.7	964.6	871.8	853.3
80°	860.7	827.3	708.6	678.9	582.4	786.5	1131.5	1001.7	819.9	727.1	697.5
82.5°	523.1	482.3	537.9	530.5	445.2	716.0	1064.7	938.6	727.1	589.9	571.3
85°	285.7	285.7	374.7	359.9	311.6	571.3	805.0	623.3	460.0	378.4	385.8
87.5°	126.1	148.4	200.3	189.2	170.7	322.8	393.2	330.2	230.0	155.8	166.9
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)