

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: P478572

Luminaire Tested: **IFLD-L-SA7B-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

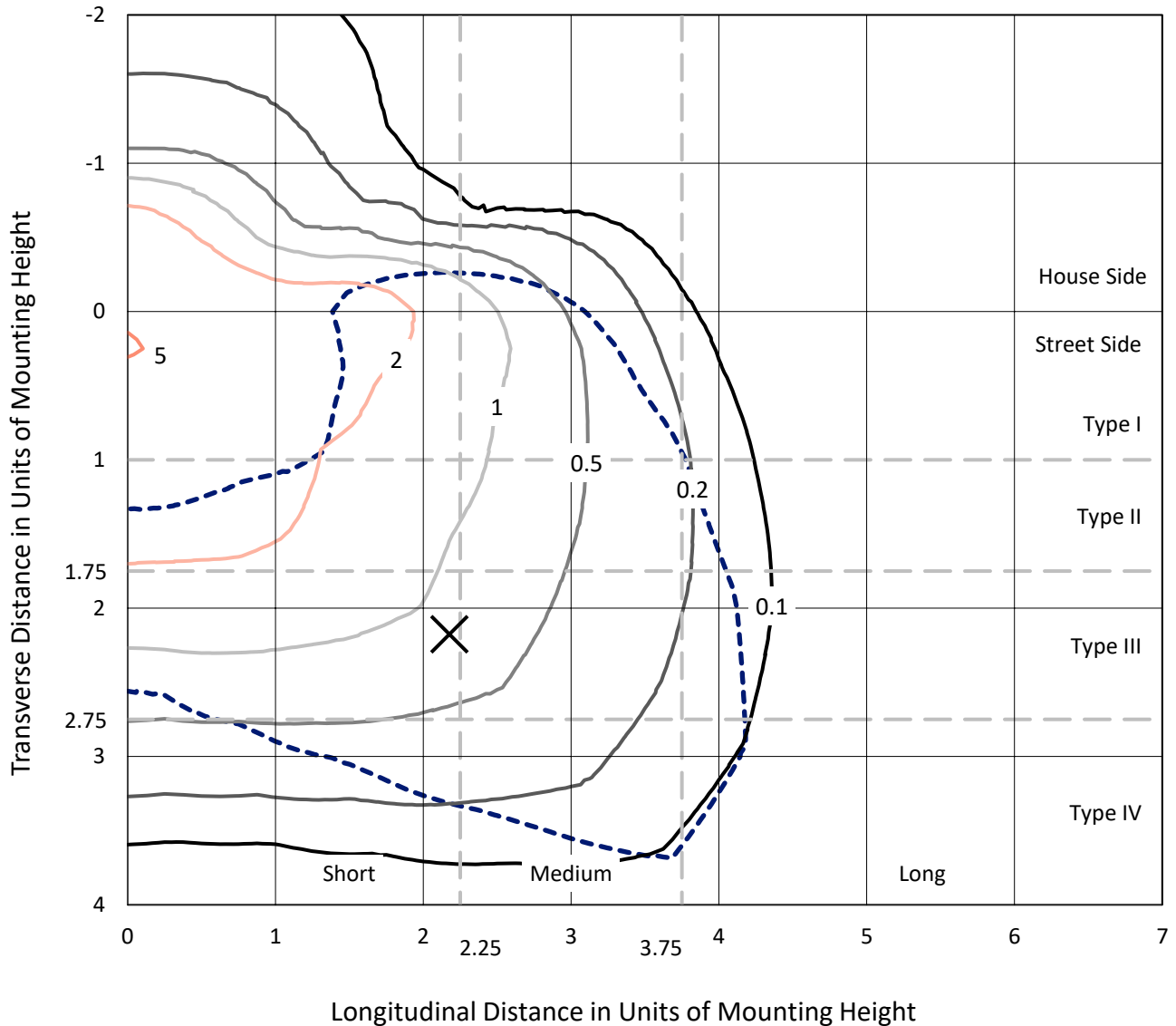
Lumens per Lamp: N/A
Luminaire Lumens: 35996 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

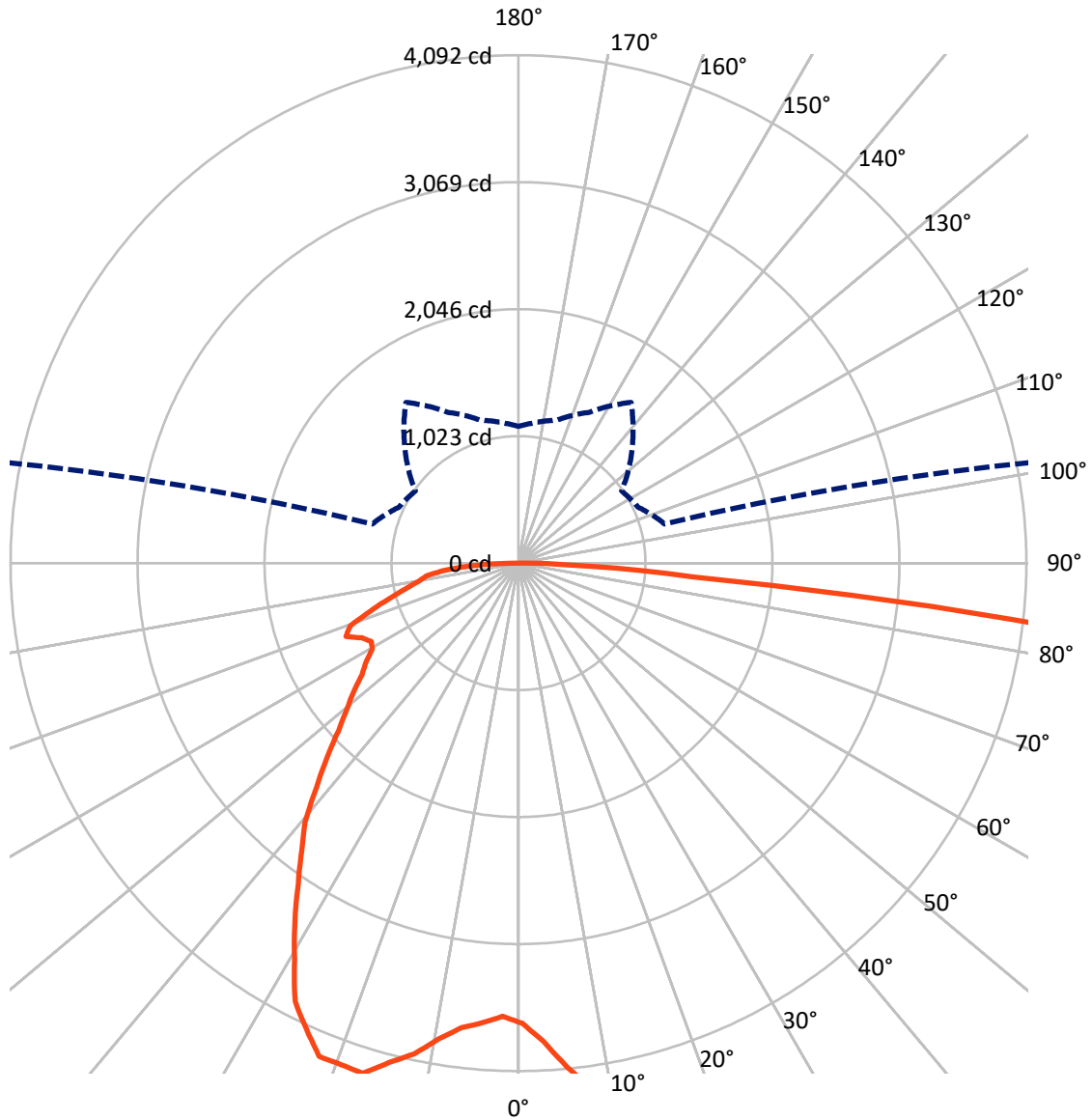
× Max cd
 - - - 1/2 Max cd



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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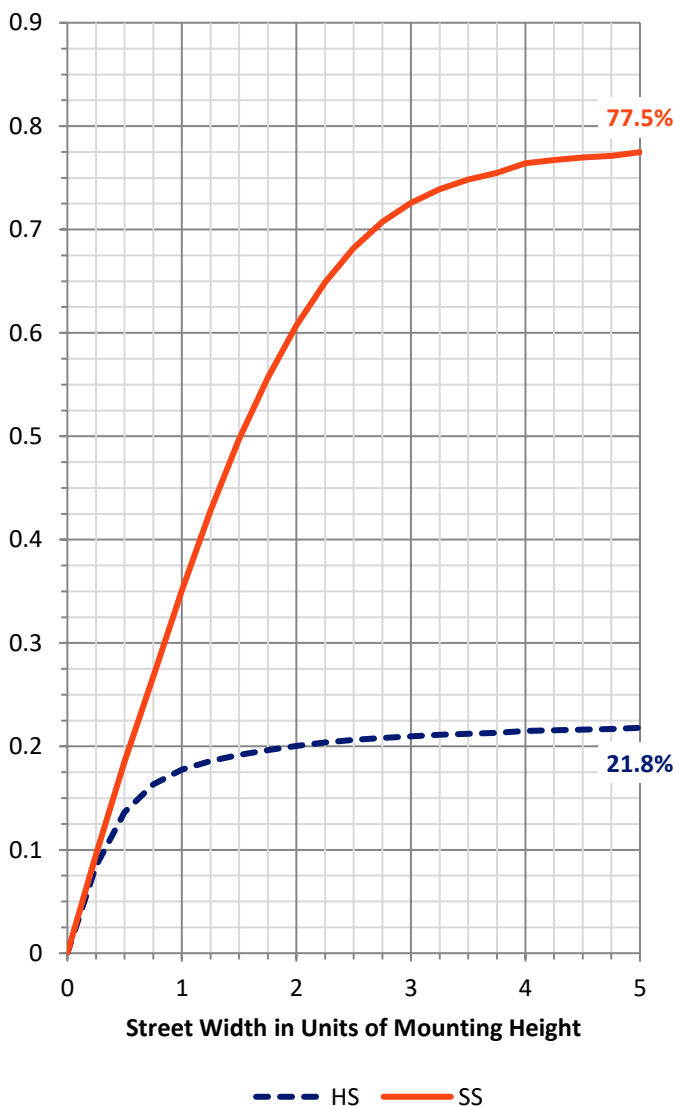
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8012.9	0.0	8012.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27983.1	0.0	27983.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	35996.0	0.0	35996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.1
10°-20°	1262.0	3.5
20°-30°	2131.2	5.9
30°-40°	2949.3	8.2
40°-50°	4218.6	11.7
50°-60°	6804.2	18.9
60°-70°	10035.2	27.9
70°-80°	7287.3	20.2
80°-90°	928.9	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°	35996.0	100.0
0°-180°	35996.0	100.0

Coefficient of Utilization



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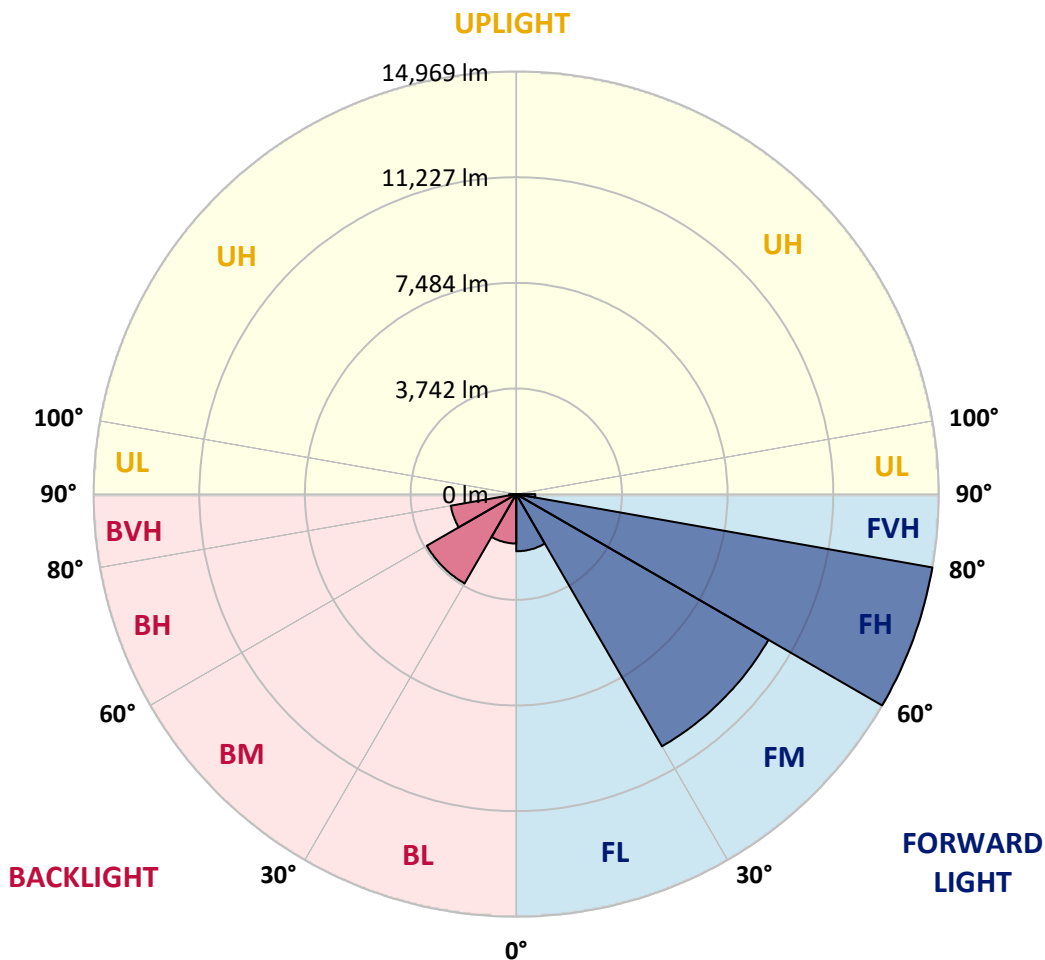
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.0	5.6			
FM (30°-60°)	10315.2	28.7			
FH (60°-80°)	14968.7	41.6			G5
FVH (80°-90°)	676.1	1.9			G4/750
BL (0°-30°)	1749.6	4.9	B3/2500		
BM (30°-60°)	3656.9	10.2	B3/5000		
BH (60°-80°)	2353.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	252.8	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°	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9
2.5°	3904.9	3928.2	3904.9	3901.0	3862.2	3835.0	3858.3	3823.4	3784.6	3769.0	3734.1
5°	4262.0	4265.9	4223.2	4227.1	4145.6	4060.2	4075.7	3970.9	3858.3	3815.6	3745.7
7.5°	4626.9	4584.2	4522.1	4502.7	4374.6	4281.4	4269.8	4176.6	4001.9	3904.9	3807.9
10°	4863.7	4879.2	4778.3	4692.9	4584.2	4471.6	4467.7	4293.1	4192.1	4048.5	3924.3
12.5°	5073.3	5077.1	4991.7	4855.9	4720.0	4580.3	4599.7	4522.1	4351.3	4215.4	4091.2
15°	5236.3	5213.0	5119.8	4995.6	4852.0	4743.3	4731.7	4665.7	4522.1	4409.5	4203.8
17.5°	5282.9	5271.2	5178.1	5046.1	4906.3	4824.8	4855.9	4747.2	4689.0	4588.1	4390.1
20°	5193.6	5166.4	5150.9	5003.4	4902.5	4894.7	4867.5	4890.8	4793.8	4700.6	4557.0
22.5°	5030.6	5018.9	5011.2	4894.7	4848.1	4883.1	4929.6	4964.6	4949.0	4859.8	4696.7
25°	4863.7	4918.0	4867.5	4813.2	4879.2	4968.5	4956.8	5069.4	5069.4	5042.2	4906.3
27.5°	4980.1	4945.2	4906.3	4879.2	4902.5	5042.2	5034.4	5170.3	5220.8	5170.3	5015.0
30°	5271.2	5236.3	5123.7	5003.4	4972.3	5123.7	5162.5	5282.9	5306.2	5181.9	5050.0
32.5°	5818.5	5799.1	5620.6	5267.3	5077.1	5162.5	5181.9	5317.8	5298.4	5220.8	5166.4
35°	6629.8	6563.8	6315.4	5717.6	5298.4	5213.0	5162.5	5271.2	5345.0	5306.2	5255.7
37.5°	7518.7	7444.9	7138.3	6381.4	5698.2	5348.9	5310.0	5399.3	5484.7	5465.3	5360.5
40°	8368.7	8368.7	8093.1	7212.0	6292.1	5678.8	5686.6	5585.6	5663.3	5628.3	5647.7
42.5°	9207.2	9176.1	9063.5	8186.3	6928.7	6230.0	6105.8	5853.5	5993.2	5981.6	6008.7
45°	10057.2	10034.0	10002.9	9094.6	7840.8	6975.2	6909.3	6455.1	6583.2	6528.9	6645.3
47.5°	10736.5	10763.7	10763.7	10107.7	8815.1	7968.9	7871.9	7153.8	7398.3	7425.5	7452.7
50°	11314.9	11326.5	11314.9	11074.2	9902.0	9106.2	8908.3	8178.5	8423.1	8636.6	8885.0
52.5°	12114.5	12130.0	12075.7	11982.5	11377.0	10301.8	10080.5	9269.3	9770.0	9995.1	10441.5
55°	13100.4	12984.0	12883.0	12952.9	12793.8	11617.6	11388.6	10394.9	11148.0	11446.9	12339.6
57.5°	13282.9	13383.8	13640.0	14195.0	14424.0	12898.6	12766.6	11776.8	12704.5	12964.6	14455.1
60°	13927.2	13760.3	14389.1	15592.4	15848.6	14567.7	14431.8	13290.6	14253.3	14525.0	16407.5
62.5°	14350.3	14342.5	15274.1	16702.5	17284.8	16298.9	16023.3	15258.6	15926.2	16190.2	18534.7
65°	14226.1	14338.7	15992.2	17354.7	18484.2	18266.8	18107.7	16951.0	17832.1	17808.8	19920.4
67.5°	13092.7	13410.9	15538.1	17824.3	20269.7	20665.7	20615.2	19330.4	19380.9	18887.9	20537.6
70°	11520.6	11411.9	13616.7	17335.3	21162.5	23510.9	23499.2	21100.4	20774.4	19124.7	18767.6
72°	8850.1	8729.7	10542.4	14886.0	20692.8	24648.2	24997.5	22327.0	20758.8	18142.6	15503.1
72.5°	8034.9	7930.1	9735.1	14012.6	20172.7	24943.2	24780.2	22373.6	20595.8	17680.7	14482.3
75°	3699.2	3578.8	4863.7	8578.3	15736.0	22101.9	22656.9	20937.4	17987.4	14074.7	8675.4
77.5°	1102.4	1067.4	1564.3	3462.4	9145.1	16283.3	16496.8	15798.1	12557.0	7708.9	3217.9
80°	613.3	617.2	807.4	1296.5	4021.3	9412.9	10181.5	9758.4	6160.1	2546.3	1071.3
82.5°	341.6	361.0	504.6	768.6	1847.6	4320.2	4650.2	4483.3	2228.0	1195.5	586.1
85°	178.6	186.3	263.9	411.5	1048.0	1366.3	1405.1	1506.1	1156.7	815.1	314.4
87.5°	69.9	69.9	97.0	170.8	388.2	423.1	380.4	461.9	663.8	527.9	155.3
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°	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9
2.5°	3765.2	3734.1	3730.2	3679.8	3695.3	3652.6	3656.5	3648.7	3652.6	3644.8	3625.4
5°	3745.7	3722.5	3656.5	3699.2	3660.4	3714.7	3757.4	3741.9	3753.5	3749.6	3753.5
7.5°	3772.9	3741.9	3734.1	3710.8	3745.7	3769.0	3804.0	3901.0	3893.3	3904.9	3928.2
10°	3854.4	3819.5	3796.2	3831.1	3811.7	3885.5	3924.3	3974.8	4064.0	4067.9	4021.3
12.5°	4013.6	3990.3	3943.7	3951.5	4017.5	4040.8	4064.0	4095.1	4153.3	4141.7	4184.4
15°	4196.0	4145.6	4118.4	4110.6	4126.1	4153.3	4149.4	4180.5	4211.5	4238.7	4227.1
17.5°	4328.0	4262.0	4269.8	4308.6	4304.7	4296.9	4246.5	4230.9	4246.5	4262.0	4254.2
20°	4463.8	4471.6	4413.4	4378.5	4362.9	4285.3	4246.5	4199.9	4153.3	4176.6	4211.5
22.5°	4634.6	4599.7	4514.3	4409.5	4331.9	4285.3	4165.0	4083.4	4083.4	4106.7	4095.1
25°	4828.7	4755.0	4607.5	4417.3	4320.2	4122.3	4036.9	4025.2	3994.2	4029.1	4044.6
27.5°	4980.1	4914.1	4712.3	4390.1	4122.3	3963.1	3912.7	3897.1	3947.6	3951.5	4013.6
30°	5042.2	5022.8	4727.8	4320.2	3920.4	3664.2	3633.2	3703.1	3757.4	3838.9	3842.8
32.5°	5123.7	5131.5	4751.1	4157.2	3656.5	3400.3	3353.7	3439.1	3594.4	3660.4	3710.8
35°	5259.6	5298.4	4731.7	3955.4	3377.0	3132.5	3124.7	3148.0	3299.4	3415.8	3481.8
37.5°	5496.4	5488.6	4727.8	3714.7	3155.7	2899.6	2837.5	2845.2	2946.1	3043.2	3031.5
40°	5814.6	5783.6	4716.2	3400.3	2868.5	2701.6	2596.8	2558.0	2550.2	2523.0	2530.8
42.5°	6249.4	6187.3	4712.3	3082.0	2608.4	2429.9	2356.1	2255.2	2181.5	2041.7	2049.5
45°	6854.9	6746.2	4611.3	2783.1	2352.3	2204.8	2092.2	2018.4	1859.3	1684.6	1684.6
47.5°	7790.4	7437.2	4615.2	2453.2	2103.8	1983.5	1905.9	1777.8	1607.0	1467.2	1451.7
50°	9168.4	8361.0	4483.3	2193.1	1902.0	1820.5	1739.0	1591.5	1428.4	1331.4	1343.0
52.5°	10946.1	9738.9	4479.4	1960.2	1742.8	1684.6	1595.3	1463.4	1343.0	1280.9	1257.6
55°	13065.5	11563.3	4619.1	1770.0	1579.8	1548.8	1509.9	1401.3	1284.8	1230.5	1226.6
57.5°	15235.3	13345.0	4844.2	1634.2	1440.1	1463.4	1436.2	1350.8	1257.6	1195.5	1187.8
60°	17164.5	14757.9	4390.1	1471.1	1315.9	1366.3	1405.1	1331.4	1280.9	1277.0	1249.9
62.5°	18620.1	15363.4	3338.2	1346.9	1249.9	1343.0	1447.8	1494.4	1471.1	1502.2	1506.1
65°	19151.8	14998.5	2297.9	1280.9	1199.4	1397.4	1630.3	1614.7	1478.9	1420.7	1451.7
67.5°	18406.6	13519.6	1704.0	1203.3	1164.5	1509.9	1735.1	1541.0	1335.3	1327.5	1304.2
70°	15829.2	11458.5	1389.6	1121.8	1106.3	1447.8	1688.5	1428.4	1257.6	1207.2	1183.9
72°	12611.3	8923.8	1218.8	1063.6	1013.1	1292.6	1579.8	1339.2	1191.7	1129.5	1102.4
72.5°	11512.8	8271.7	1195.5	1036.4	993.7	1257.6	1525.5	1312.0	1176.1	1121.8	1079.1
75°	6315.4	4234.8	1051.9	951.0	838.4	1086.8	1412.9	1230.5	1110.1	1032.5	1024.7
77.5°	2348.4	1641.9	908.3	842.3	725.9	939.3	1284.8	1168.4	1009.2	912.2	892.8
80°	900.5	865.6	741.4	710.3	609.4	822.9	1183.9	1048.0	857.8	760.8	729.7
82.5°	547.3	504.6	562.8	555.1	465.8	749.1	1114.0	982.0	760.8	617.2	597.8
85°	298.9	298.9	392.0	376.5	326.1	597.8	842.3	652.1	481.3	395.9	403.7
87.5°	132.0	155.3	209.6	198.0	178.6	337.7	411.5	345.5	240.7	163.0	174.7
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)