

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: P478648

Luminaire Tested: **IFLD-M-SA4E-760-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478648
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-760-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

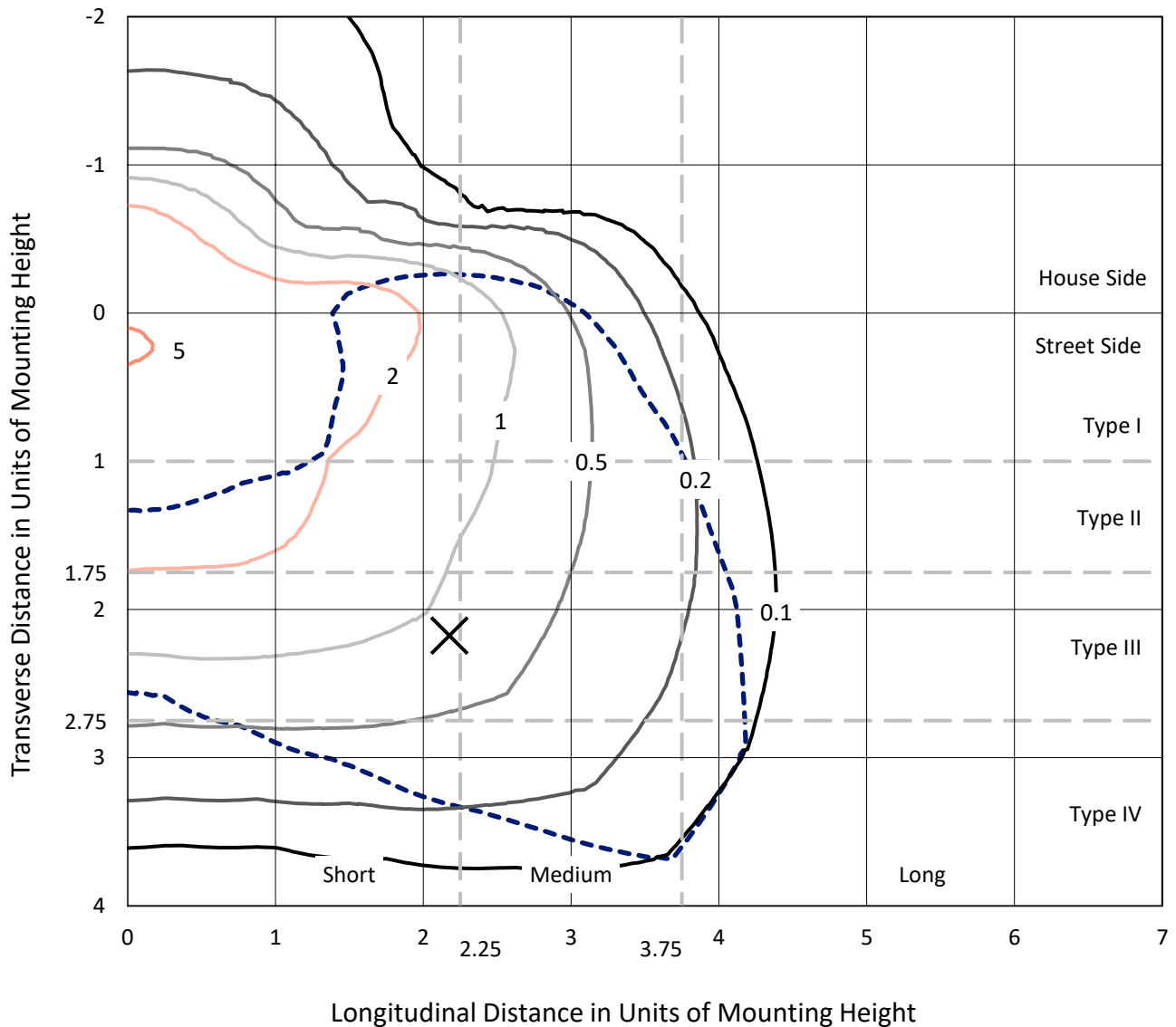
Lumens per Lamp: N/A
Luminaire Lumens: 37432.9 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

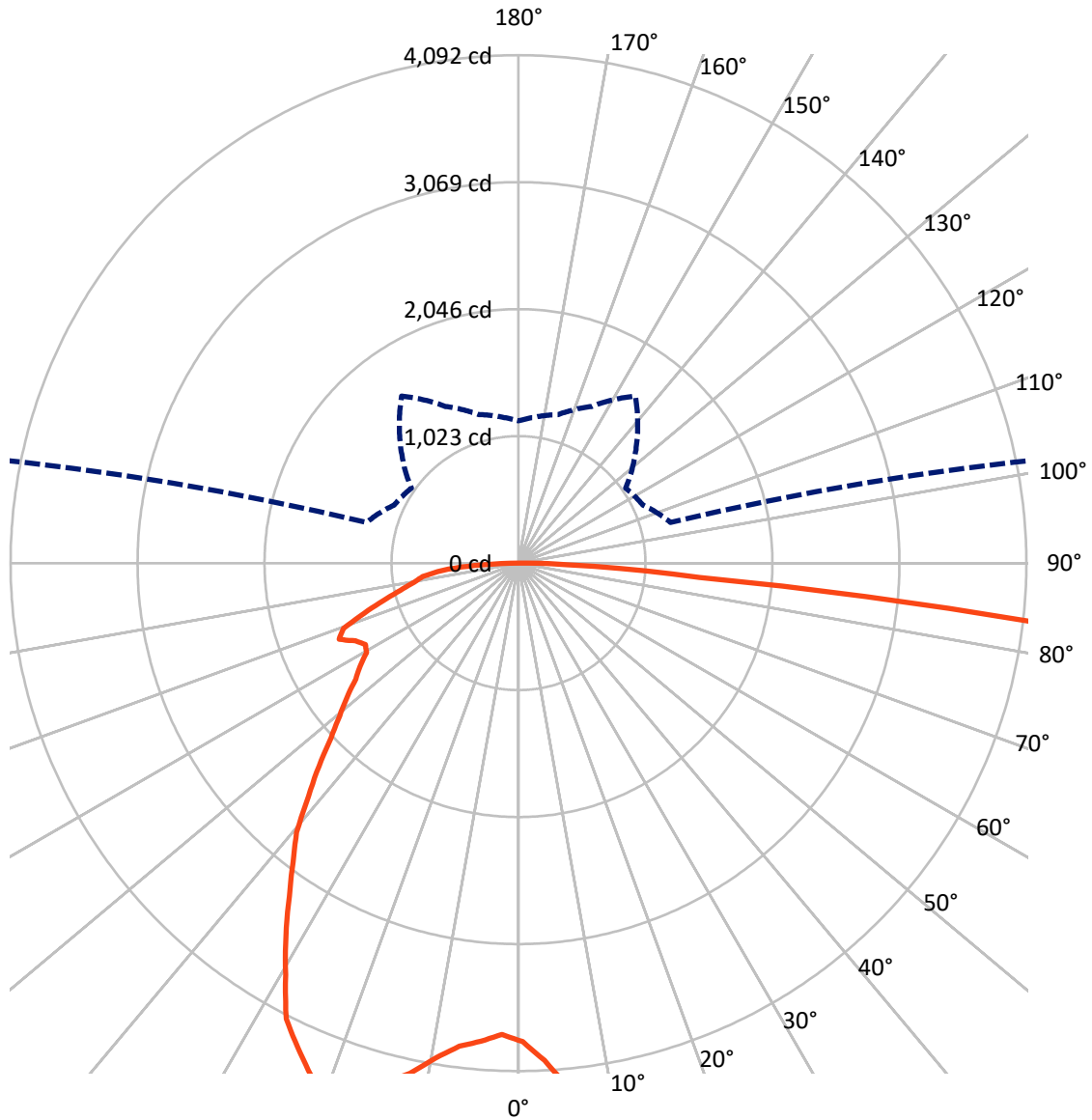
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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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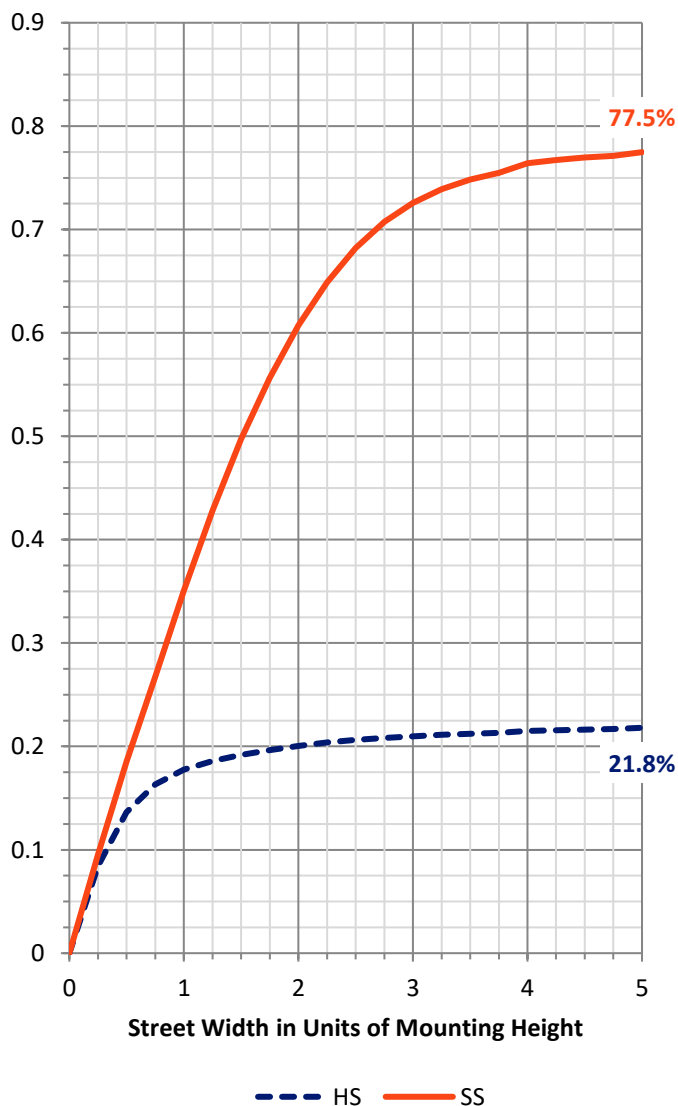
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8332.8	0.0	8332.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29100.1	0.0	29100.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	37432.9	0.0	37432.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	1.1
10°-20°	1312.4	3.5
20°-30°	2216.3	5.9
30°-40°	3067.0	8.2
40°-50°	4387.0	11.7
50°-60°	7075.8	18.9
60°-70°	10435.8	27.9
70°-80°	7578.2	20.2
80°-90°	966.0	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°	37432.9	100.0
0°-180°	37432.9	100.0

Coefficient of Utilization



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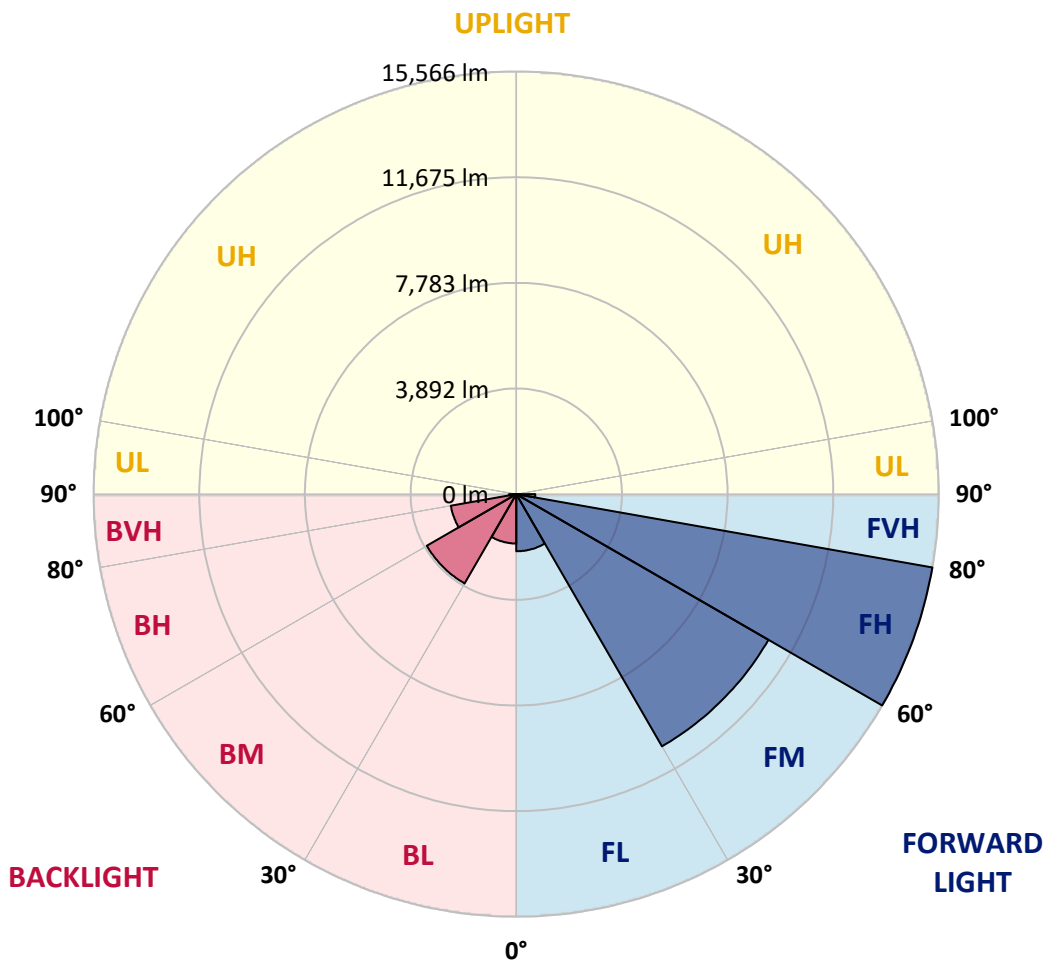
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2103.8	5.6			
FM (30°-60°)	10727.0	28.7			
FH (60°-80°)	15566.3	41.6			G5
FVH (80°-90°)	703.1	1.9			G4/750
BL (0°-30°)	1819.4	4.9	B3/2500		
BM (30°-60°)	3802.8	10.2	B3/5000		
BH (60°-80°)	2447.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	262.9	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°	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9
2.5°	4060.8	4085.0	4060.8	4056.7	4016.4	3988.1	4012.3	3976.0	3935.6	3919.5	3883.2
5°	4432.1	4436.2	4391.8	4395.8	4311.0	4222.2	4238.4	4129.4	4012.3	3967.9	3895.3
7.5°	4811.6	4767.2	4702.6	4682.4	4549.2	4452.3	4440.2	4343.3	4161.7	4060.8	3959.9
10°	5057.8	5073.9	4969.0	4880.2	4767.2	4650.1	4646.1	4464.4	4359.5	4210.1	4081.0
12.5°	5275.8	5279.8	5191.0	5049.7	4908.5	4763.1	4783.3	4702.6	4525.0	4383.7	4254.5
15°	5445.3	5421.1	5324.2	5195.0	5045.7	4932.7	4920.6	4851.9	4702.6	4585.5	4371.6
17.5°	5493.8	5481.6	5384.8	5247.5	5102.2	5017.4	5049.7	4936.7	4876.2	4771.2	4565.3
20°	5400.9	5372.7	5356.5	5203.1	5098.2	5090.1	5061.8	5086.1	4985.1	4888.3	4738.9
22.5°	5231.4	5219.3	5211.2	5090.1	5041.7	5078.0	5126.4	5162.8	5146.6	5053.8	4884.2
25°	5057.8	5114.3	5061.8	5005.3	5073.9	5166.8	5154.7	5271.7	5271.7	5243.5	5102.2
27.5°	5178.9	5142.6	5102.2	5073.9	5098.2	5243.5	5235.4	5376.7	5429.2	5376.7	5215.2
30°	5481.6	5445.3	5328.3	5203.1	5170.8	5328.3	5368.6	5493.8	5518.0	5388.8	5251.6
32.5°	6050.8	6030.6	5844.9	5477.6	5279.8	5368.6	5388.8	5530.1	5509.9	5429.2	5372.7
35°	6894.4	6825.8	6567.5	5945.8	5509.9	5421.1	5368.6	5481.6	5558.3	5518.0	5465.5
37.5°	7818.8	7742.1	7423.2	6636.1	5925.7	5562.4	5522.0	5614.8	5703.7	5683.5	5574.5
40°	8702.8	8702.8	8416.2	7499.9	6543.3	5905.5	5913.6	5808.6	5889.3	5853.0	5873.2
42.5°	9574.7	9542.4	9425.4	8513.1	7205.3	6478.7	6349.5	6087.1	6232.4	6220.3	6248.6
45°	10458.7	10434.5	10402.2	9457.6	8153.8	7253.7	7185.1	6712.8	6846.0	6789.5	6910.6
47.5°	11165.1	11193.4	11193.4	10511.2	9167.0	8287.0	8186.1	7439.4	7693.7	7721.9	7750.2
50°	11766.6	11778.7	11766.6	11516.3	10297.3	9469.8	9263.9	8505.0	8759.3	8981.3	9239.7
52.5°	12598.1	12614.2	12557.7	12460.8	11831.1	10713.0	10482.9	9639.3	10160.0	10394.1	10858.3
55°	13623.4	13502.3	13397.3	13470.0	13304.5	12081.4	11843.3	10809.9	11593.0	11903.8	12832.2
57.5°	13813.1	13918.0	14184.5	14761.7	14999.8	13413.5	13276.2	12246.9	13211.6	13482.1	15032.1
60°	14483.2	14309.6	14963.5	16214.8	16481.3	15149.2	15007.9	13821.2	14822.2	15104.8	17062.5
62.5°	14923.1	14915.1	15883.8	17369.3	17974.8	16949.5	16662.9	15867.7	16562.0	16836.5	19274.5
65°	14794.0	14911.0	16630.6	18047.4	19222.1	18996.0	18830.5	17627.6	18543.9	18519.7	20715.6
67.5°	13615.3	13946.3	16158.3	18535.9	21078.9	21490.6	21438.1	20102.0	20154.5	19641.9	21357.4
70°	11980.5	11867.5	14160.2	18027.3	22007.3	24449.4	24437.3	21942.7	21603.6	19888.1	19516.7
72°	9203.3	9078.2	10963.3	15480.2	21518.9	25632.1	25995.4	23218.3	21587.5	18866.9	16122.0
72.5°	8355.7	8246.7	10123.7	14572.0	20978.0	25938.9	25769.4	23266.7	21418.0	18386.5	15060.4
75°	3846.8	3721.7	5057.8	8920.8	16364.2	22984.1	23561.4	21773.2	18705.4	14636.5	9021.7
77.5°	1146.4	1110.1	1626.7	3600.6	9510.1	16933.3	17155.4	16428.8	13058.3	8016.6	3346.3
80°	637.8	641.8	839.6	1348.2	4181.9	9788.6	10587.9	10147.9	6406.0	2648.0	1114.1
82.5°	355.2	375.4	524.8	799.2	1921.4	4492.7	4835.8	4662.2	2317.0	1243.3	609.5
85°	185.7	193.8	274.5	427.9	1089.9	1420.9	1461.2	1566.2	1202.9	847.7	327.0
87.5°	72.7	72.7	100.9	177.6	403.7	440.0	395.6	480.4	690.3	549.0	161.5
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°	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9	3854.9
2.5°	3915.5	3883.2	3879.1	3826.7	3842.8	3798.4	3802.4	3794.4	3798.4	3790.3	3770.1
5°	3895.3	3871.1	3802.4	3846.8	3806.5	3863.0	3907.4	3891.2	3903.3	3899.3	3903.3
7.5°	3923.5	3891.2	3883.2	3858.9	3895.3	3919.5	3955.8	4056.7	4048.7	4060.8	4085.0
10°	4008.3	3972.0	3947.8	3984.1	3963.9	4040.6	4081.0	4133.4	4226.3	4230.3	4181.9
12.5°	4173.8	4149.6	4101.1	4109.2	4177.8	4202.1	4226.3	4258.6	4319.1	4307.0	4351.4
15°	4363.5	4311.0	4282.8	4274.7	4290.9	4319.1	4315.1	4347.4	4379.7	4407.9	4395.8
17.5°	4500.8	4432.1	4440.2	4480.6	4476.5	4468.5	4416.0	4399.8	4416.0	4432.1	4424.1
20°	4642.0	4650.1	4589.6	4553.2	4537.1	4456.4	4416.0	4367.6	4319.1	4343.3	4379.7
22.5°	4819.6	4783.3	4694.5	4585.5	4504.8	4456.4	4331.2	4246.5	4246.5	4270.7	4258.6
25°	5021.5	4944.8	4791.4	4593.6	4492.7	4286.8	4198.0	4185.9	4153.6	4189.9	4206.1
27.5°	5178.9	5110.3	4900.4	4565.3	4286.8	4121.3	4068.8	4052.7	4105.2	4109.2	4173.8
30°	5243.5	5223.3	4916.5	4492.7	4076.9	3810.5	3778.2	3850.9	3907.4	3992.2	3996.2
32.5°	5328.3	5336.3	4940.7	4323.2	3802.4	3536.0	3487.6	3576.4	3737.8	3806.5	3858.9
35°	5469.5	5509.9	4920.6	4113.2	3511.8	3257.5	3249.4	3273.6	3431.1	3552.2	3620.8
37.5°	5715.8	5707.7	4916.5	3863.0	3281.7	3015.3	2950.7	2958.8	3063.7	3164.7	3152.5
40°	6046.8	6014.5	4904.4	3536.0	2983.0	2809.4	2700.5	2660.1	2652.0	2623.8	2631.8
42.5°	6498.9	6434.3	4900.4	3205.0	2712.6	2526.9	2450.2	2345.2	2268.5	2123.2	2131.3
45°	7128.6	7015.5	4795.4	2894.2	2446.2	2292.8	2175.7	2099.0	1933.5	1751.9	1751.9
47.5°	8101.4	7734.0	4799.5	2551.1	2187.8	2062.7	1981.9	1848.7	1671.1	1525.8	1509.7
50°	9534.3	8694.7	4662.2	2280.7	1977.9	1893.1	1808.4	1655.0	1485.5	1384.5	1396.6
52.5°	11383.1	10127.7	4658.2	2038.5	1812.4	1751.9	1659.0	1521.8	1396.6	1332.1	1307.8
55°	13587.0	12024.9	4803.5	1840.7	1642.9	1610.6	1570.2	1457.2	1336.1	1279.6	1275.6
57.5°	15843.5	13877.7	5037.6	1699.4	1497.6	1521.8	1493.5	1404.7	1307.8	1243.3	1235.2
60°	17849.6	15347.0	4565.3	1529.9	1368.4	1420.9	1461.2	1384.5	1332.1	1328.0	1299.8
62.5°	19363.4	15976.7	3471.4	1400.7	1299.8	1396.6	1505.6	1554.1	1529.9	1562.1	1566.2
65°	19916.4	15597.2	2389.6	1332.1	1247.3	1453.2	1695.4	1679.2	1537.9	1477.4	1509.7
67.5°	19141.3	14059.3	1772.0	1251.3	1211.0	1570.2	1804.3	1602.5	1388.6	1380.5	1356.3
70°	16461.1	11915.9	1445.1	1166.6	1150.4	1505.6	1755.9	1485.5	1307.8	1255.4	1231.1
72°	13114.8	9280.0	1267.5	1106.0	1053.5	1344.2	1642.9	1392.6	1239.2	1174.6	1146.4
72.5°	11972.4	8601.9	1243.3	1077.8	1033.4	1307.8	1586.4	1364.4	1223.1	1166.6	1122.2
75°	6567.5	4403.9	1093.9	989.0	871.9	1130.2	1469.3	1279.6	1154.5	1073.7	1065.7
77.5°	2442.1	1707.5	944.6	875.9	754.8	976.8	1336.1	1215.0	1049.5	948.6	928.4
80°	936.5	900.2	771.0	738.7	633.7	855.7	1231.1	1089.9	892.1	791.2	758.9
82.5°	569.2	524.8	585.3	577.2	484.4	779.1	1158.5	1021.2	791.2	641.8	621.6
85°	310.8	310.8	407.7	391.5	339.1	621.6	875.9	678.1	500.5	411.7	419.8
87.5°	137.2	161.5	218.0	205.9	185.7	351.2	427.9	359.3	250.3	169.5	181.6
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)