

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: P478446

Luminaire Tested: **IFLD-S-SA6C-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

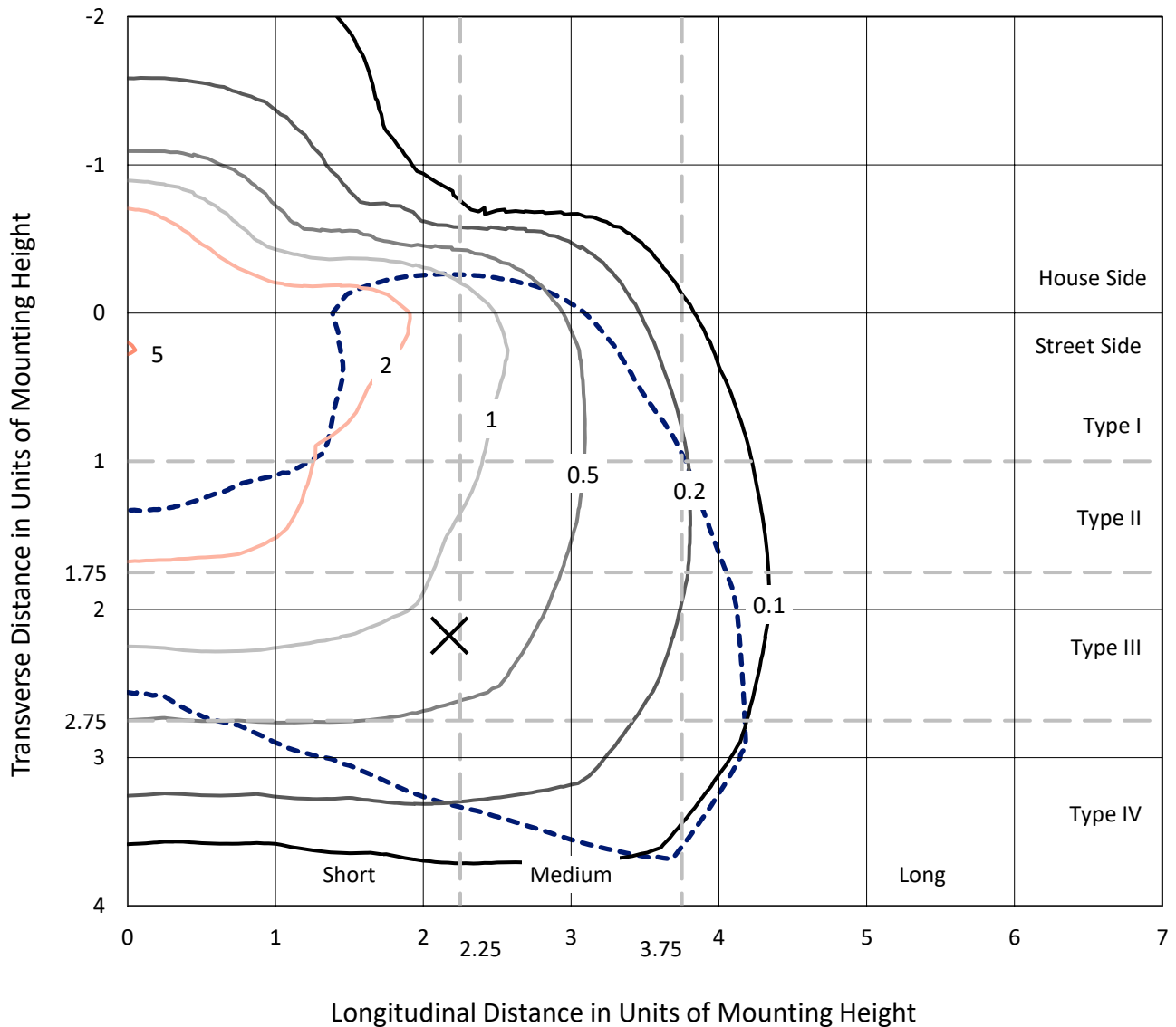
Lumens per Lamp: N/A
Luminaire Lumens: 35124.4 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

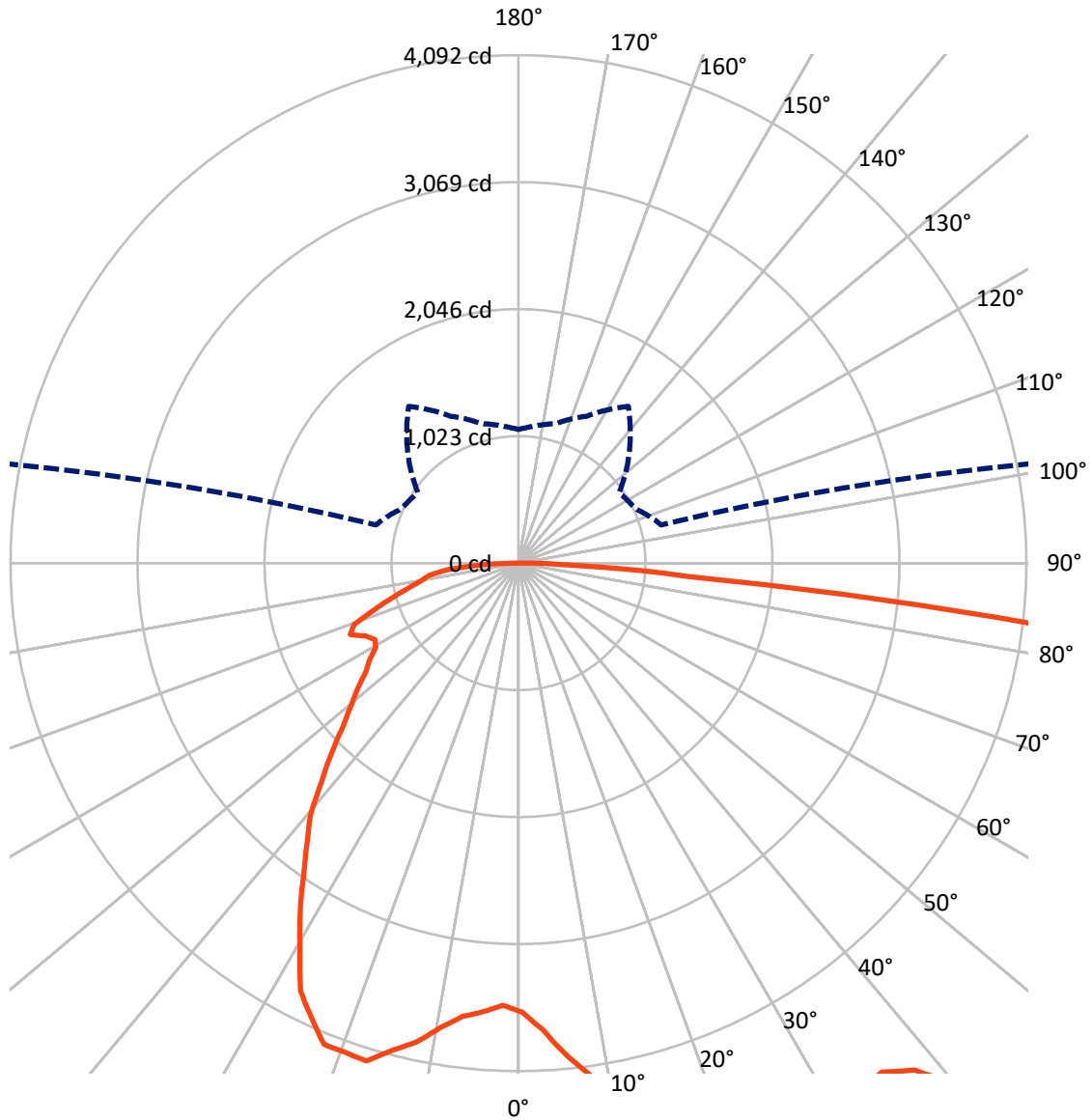
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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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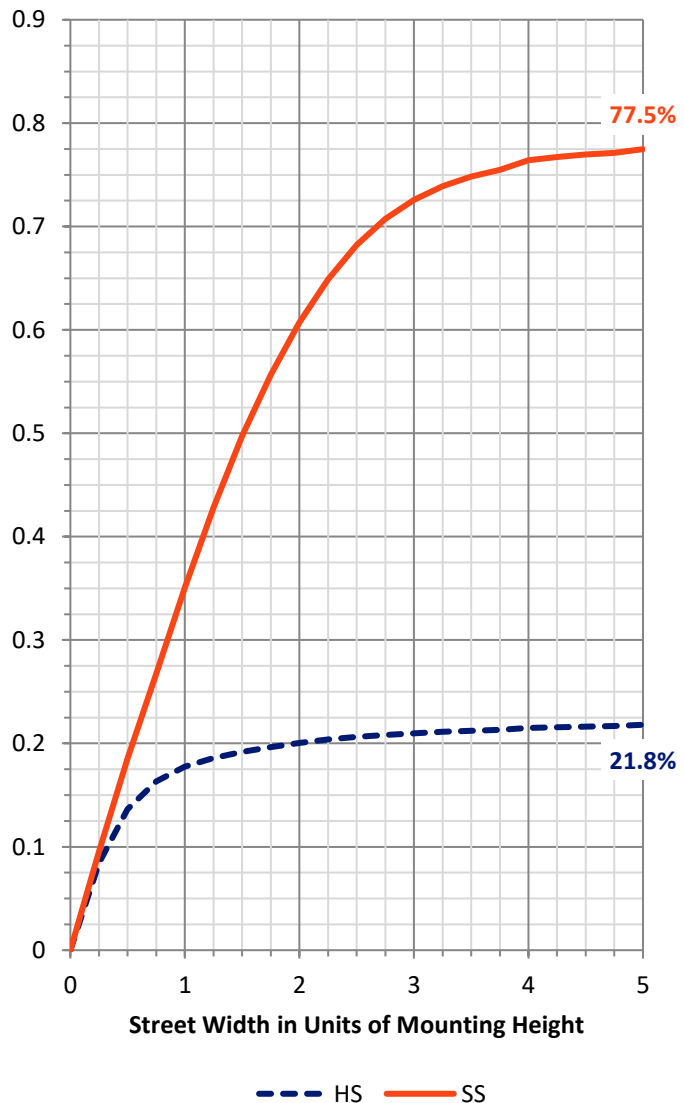
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7818.9	0.0	7818.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27305.5	0.0	27305.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	35124.4	0.0	35124.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.1	1.1
10°-20°	1231.5	3.5
20°-30°	2079.6	5.9
30°-40°	2877.8	8.2
40°-50°	4116.5	11.7
50°-60°	6639.4	18.9
60°-70°	9792.2	27.9
70°-80°	7110.8	20.2
80°-90°	906.4	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°	35124.4	100.0
0°-180°	35124.4	100.0

Coefficient of Utilization



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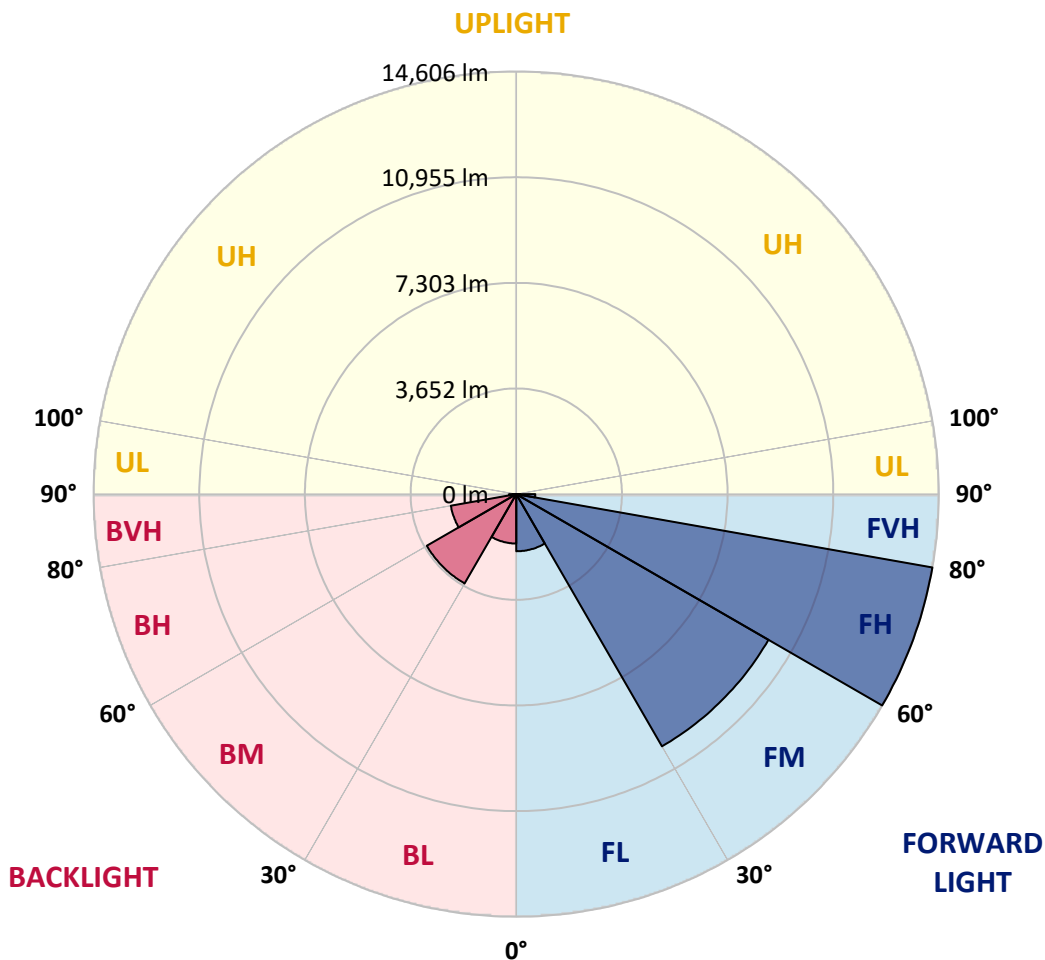
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.0	5.6			
FM (30°-60°)	10065.4	28.7			
FH (60°-80°)	14606.3	41.6			G5
FVH (80°-90°)	659.8	1.9			G4/750
BL (0°-30°)	1707.2	4.9	B3/2500		
BM (30°-60°)	3568.3	10.2	B3/5000		
BH (60°-80°)	2296.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	246.7	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°	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2
2.5°	3810.3	3833.1	3810.3	3806.6	3768.7	3742.2	3764.9	3730.8	3692.9	3677.8	3643.7
5°	4158.8	4162.6	4120.9	4124.7	4045.2	3961.8	3977.0	3874.7	3764.9	3723.2	3655.1
7.5°	4514.8	4473.2	4412.6	4393.6	4268.6	4177.7	4166.4	4075.5	3905.0	3810.3	3715.7
10°	4745.9	4761.0	4662.6	4579.2	4473.2	4363.3	4359.5	4189.1	4090.6	3950.5	3829.3
12.5°	4950.4	4954.2	4870.9	4738.3	4605.7	4469.4	4488.3	4412.6	4245.9	4113.4	3992.1
15°	5109.5	5086.8	4995.9	4874.7	4734.5	4628.5	4617.1	4552.7	4412.6	4302.7	4102.0
17.5°	5154.9	5143.6	5052.7	4923.9	4787.5	4708.0	4738.3	4632.3	4575.4	4477.0	4283.8
20°	5067.8	5041.3	5026.2	4882.2	4783.8	4776.2	4749.7	4772.4	4677.7	4586.8	4446.7
22.5°	4908.8	4897.4	4889.8	4776.2	4730.7	4764.8	4810.3	4844.4	4829.2	4742.1	4583.0
25°	4745.9	4798.9	4749.7	4696.6	4761.0	4848.2	4836.8	4946.6	4946.6	4920.1	4787.5
27.5°	4859.5	4825.4	4787.5	4761.0	4783.8	4920.1	4912.5	5045.1	5094.3	5045.1	4893.6
30°	5143.6	5109.5	4999.7	4882.2	4851.9	4999.7	5037.5	5154.9	5177.7	5056.5	4927.7
32.5°	5677.6	5658.7	5484.5	5139.8	4954.2	5037.5	5056.5	5189.0	5170.1	5094.3	5041.3
35°	6469.3	6404.9	6162.5	5579.2	5170.1	5086.8	5037.5	5143.6	5215.6	5177.7	5128.4
37.5°	7336.6	7264.7	6965.4	6226.8	5560.2	5219.3	5181.5	5268.6	5351.9	5333.0	5230.7
40°	8166.1	8166.1	7897.2	7037.4	6139.7	5541.3	5548.9	5450.4	5526.1	5492.0	5511.0
42.5°	8984.2	8953.9	8844.1	7988.1	6760.9	6079.1	5957.9	5711.7	5848.1	5836.7	5863.2
45°	9813.7	9791.0	9760.7	8874.4	7651.0	6806.3	6742.0	6298.8	6423.8	6370.8	6484.4
47.5°	10476.6	10503.1	10503.1	9863.0	8601.7	7776.0	7681.3	6980.6	7219.2	7245.7	7272.2
50°	11040.9	11052.3	11040.9	10806.1	9662.2	8885.8	8692.6	7980.5	8219.1	8427.5	8669.9
52.5°	11821.2	11836.3	11783.3	11692.4	11101.5	10052.3	9836.4	9044.8	9533.4	9753.1	10188.7
55°	12783.2	12669.6	12571.1	12639.3	12484.0	11336.3	11112.9	10143.2	10878.0	11169.7	12040.8
57.5°	12961.2	13059.7	13309.7	13851.3	14074.8	12586.3	12457.5	11491.6	12396.9	12650.6	14105.1
60°	13590.0	13427.1	14040.7	15214.9	15464.8	14214.9	14082.4	12968.8	13908.1	14173.3	16010.3
62.5°	14002.8	13995.2	14904.3	16298.1	16866.3	15904.2	15635.3	14889.1	15540.6	15798.2	18085.9
65°	13881.6	13991.5	15605.0	16934.4	18036.6	17824.5	17669.2	16540.5	17400.3	17377.6	19438.1
67.5°	12775.6	13086.2	15161.8	17392.7	19778.9	20165.3	20116.0	18862.3	18911.6	18430.6	20040.3
70°	11241.7	11135.6	13287.0	16915.5	20650.1	22941.6	22930.2	20589.5	20271.3	18661.6	18313.1
72°	8635.8	8518.4	10287.2	14525.5	20191.8	24051.4	24392.3	21786.4	20256.2	17703.3	15127.7
72.5°	7840.4	7738.1	9499.3	13673.3	19684.3	24339.2	24180.2	21831.8	20097.1	17252.6	14131.6
75°	3609.6	3492.2	4745.9	8370.6	15355.0	21566.7	22108.3	20430.4	17551.8	13733.9	8465.3
77.5°	1075.7	1041.6	1526.4	3378.6	8923.6	15889.1	16097.4	15415.6	12252.9	7522.2	3139.9
80°	598.4	602.2	787.8	1265.1	3924.0	9185.0	9934.9	9522.1	6011.0	2484.7	1045.4
82.5°	333.3	352.2	492.4	749.9	1802.9	4215.6	4537.6	4374.7	2174.1	1166.6	571.9
85°	174.2	181.8	257.6	401.5	1022.7	1333.2	1371.1	1469.6	1128.7	795.4	306.8
87.5°	68.2	68.2	94.7	166.7	378.8	412.9	371.2	450.7	647.7	515.1	151.5
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°	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2	3617.2
2.5°	3674.0	3643.7	3639.9	3590.7	3605.8	3564.1	3567.9	3560.4	3564.1	3556.6	3537.6
5°	3655.1	3632.3	3567.9	3609.6	3571.7	3624.8	3666.4	3651.3	3662.6	3658.8	3662.6
7.5°	3681.6	3651.3	3643.7	3621.0	3655.1	3677.8	3711.9	3806.6	3799.0	3810.3	3833.1
10°	3761.1	3727.0	3704.3	3738.4	3719.4	3791.4	3829.3	3878.5	3965.6	3969.4	3924.0
12.5°	3916.4	3893.7	3848.2	3855.8	3920.2	3942.9	3965.6	3995.9	4052.8	4041.4	4083.1
15°	4094.4	4045.2	4018.7	4011.1	4026.2	4052.8	4049.0	4079.3	4109.6	4136.1	4124.7
17.5°	4223.2	4158.8	4166.4	4204.3	4200.5	4192.9	4143.7	4128.5	4143.7	4158.8	4151.2
20°	4355.8	4363.3	4306.5	4272.4	4257.3	4181.5	4143.7	4098.2	4052.8	4075.5	4109.6
22.5°	4522.4	4488.3	4405.0	4302.7	4227.0	4181.5	4064.1	3984.6	3984.6	4007.3	3995.9
25°	4711.8	4639.8	4495.9	4310.3	4215.6	4022.5	3939.1	3927.8	3897.5	3931.5	3946.7
27.5°	4859.5	4795.1	4598.2	4283.8	4022.5	3867.2	3817.9	3802.8	3852.0	3855.8	3916.4
30°	4920.1	4901.2	4613.3	4215.6	3825.5	3575.5	3545.2	3613.4	3666.4	3746.0	3749.7
32.5°	4999.7	5007.2	4636.0	4056.5	3567.9	3318.0	3272.5	3355.8	3507.3	3571.7	3621.0
35°	5132.2	5170.1	4617.1	3859.6	3295.2	3056.6	3049.0	3071.8	3219.5	3333.1	3397.5
37.5°	5363.3	5355.7	4613.3	3624.8	3079.3	2829.4	2768.7	2776.3	2874.8	2969.5	2958.1
40°	5673.9	5643.6	4602.0	3318.0	2799.0	2636.2	2533.9	2496.0	2488.5	2462.0	2469.5
42.5°	6098.1	6037.5	4598.2	3007.4	2545.3	2371.0	2299.1	2200.6	2128.6	1992.3	1999.9
45°	6688.9	6582.9	4499.7	2715.7	2295.3	2151.4	2041.5	1969.6	1814.3	1643.8	1643.8
47.5°	7601.7	7257.1	4503.5	2393.8	2052.9	1935.5	1859.7	1734.7	1568.1	1431.7	1416.6
50°	8946.4	8158.5	4374.7	2140.0	1855.9	1776.4	1696.9	1552.9	1393.8	1299.2	1310.5
52.5°	10681.1	9503.1	4370.9	1912.7	1700.6	1643.8	1556.7	1427.9	1310.5	1249.9	1227.2
55°	12749.1	11283.3	4507.3	1727.2	1541.6	1511.3	1473.4	1367.3	1253.7	1200.7	1196.9
57.5°	14866.4	13021.8	4726.9	1594.6	1405.2	1427.9	1401.4	1318.1	1227.2	1166.6	1159.0
60°	16748.8	14400.5	4283.8	1435.5	1284.0	1333.2	1371.1	1299.2	1249.9	1246.1	1219.6
62.5°	18169.2	14991.4	3257.4	1314.3	1219.6	1310.5	1412.8	1458.2	1435.5	1465.8	1469.6
65°	18688.1	14635.4	2242.3	1249.9	1170.4	1363.5	1590.8	1575.6	1443.1	1386.3	1416.6
67.5°	17960.9	13192.3	1662.8	1174.2	1136.3	1473.4	1693.1	1503.7	1302.9	1295.4	1272.6
70°	15445.9	11181.0	1356.0	1094.6	1079.5	1412.8	1647.6	1393.8	1227.2	1177.9	1155.2
72°	12306.0	8707.7	1189.3	1037.8	988.6	1261.3	1541.6	1306.7	1162.8	1102.2	1075.7
72.5°	11234.1	8071.4	1166.6	1011.3	969.6	1227.2	1488.5	1280.2	1147.6	1094.6	1053.0
75°	6162.5	4132.3	1026.4	928.0	818.1	1060.5	1378.7	1200.7	1083.3	1007.5	999.9
77.5°	2291.5	1602.2	886.3	821.9	708.3	916.6	1253.7	1140.1	984.8	890.1	871.2
80°	878.7	844.6	723.4	693.1	594.7	803.0	1155.2	1022.7	837.1	742.4	712.1
82.5°	534.1	492.4	549.2	541.6	454.5	731.0	1087.0	958.3	742.4	602.2	583.3
85°	291.6	291.6	382.5	367.4	318.2	583.3	821.9	636.3	469.7	386.3	393.9
87.5°	128.8	151.5	204.5	193.2	174.2	329.5	401.5	337.1	234.8	159.1	170.4
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)