

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: P478180

Luminaire Tested: **IFLD-M-SA4E-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478180
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

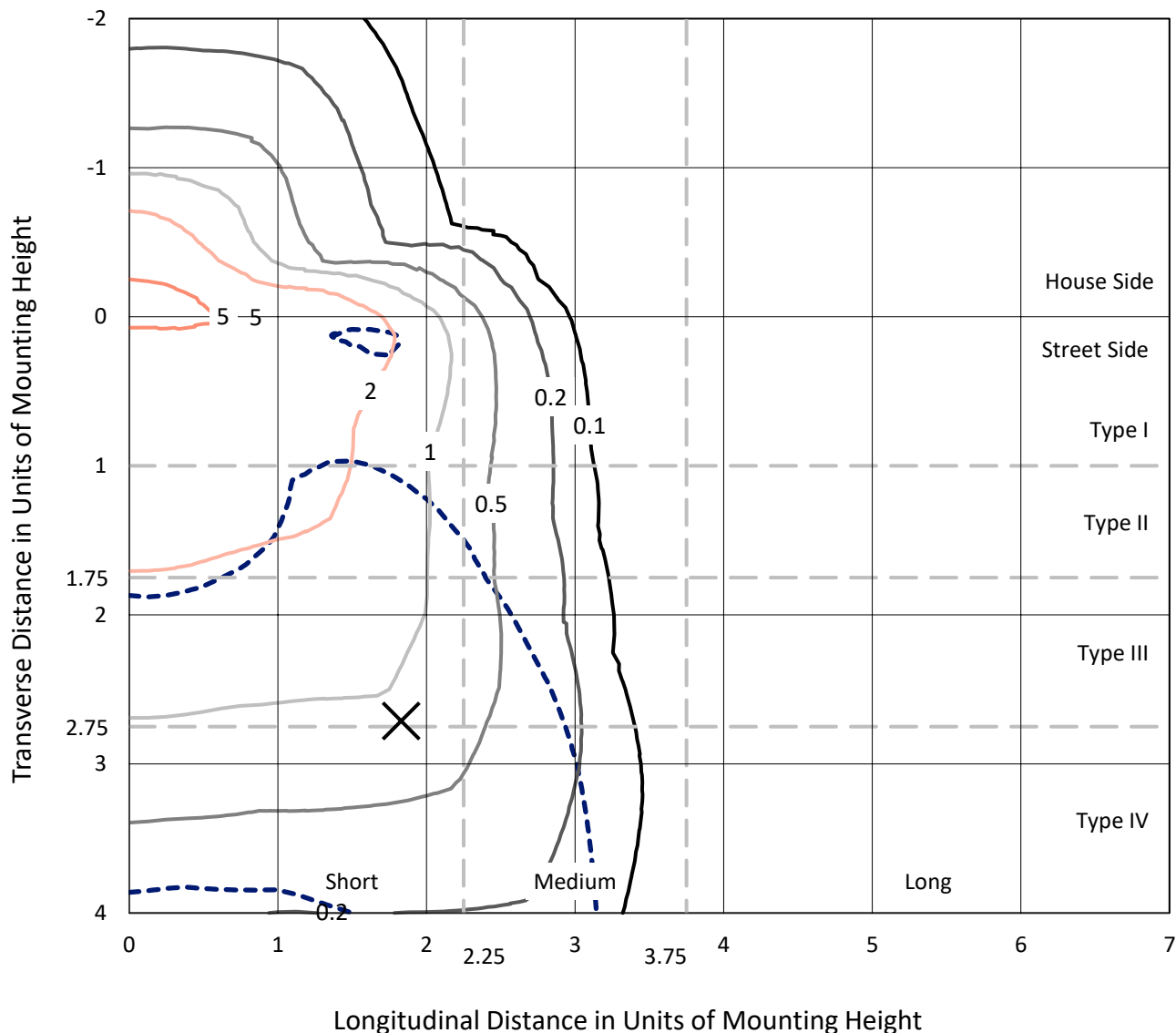
Lumens per Lamp: N/A
Luminaire Lumens: 37091.3 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

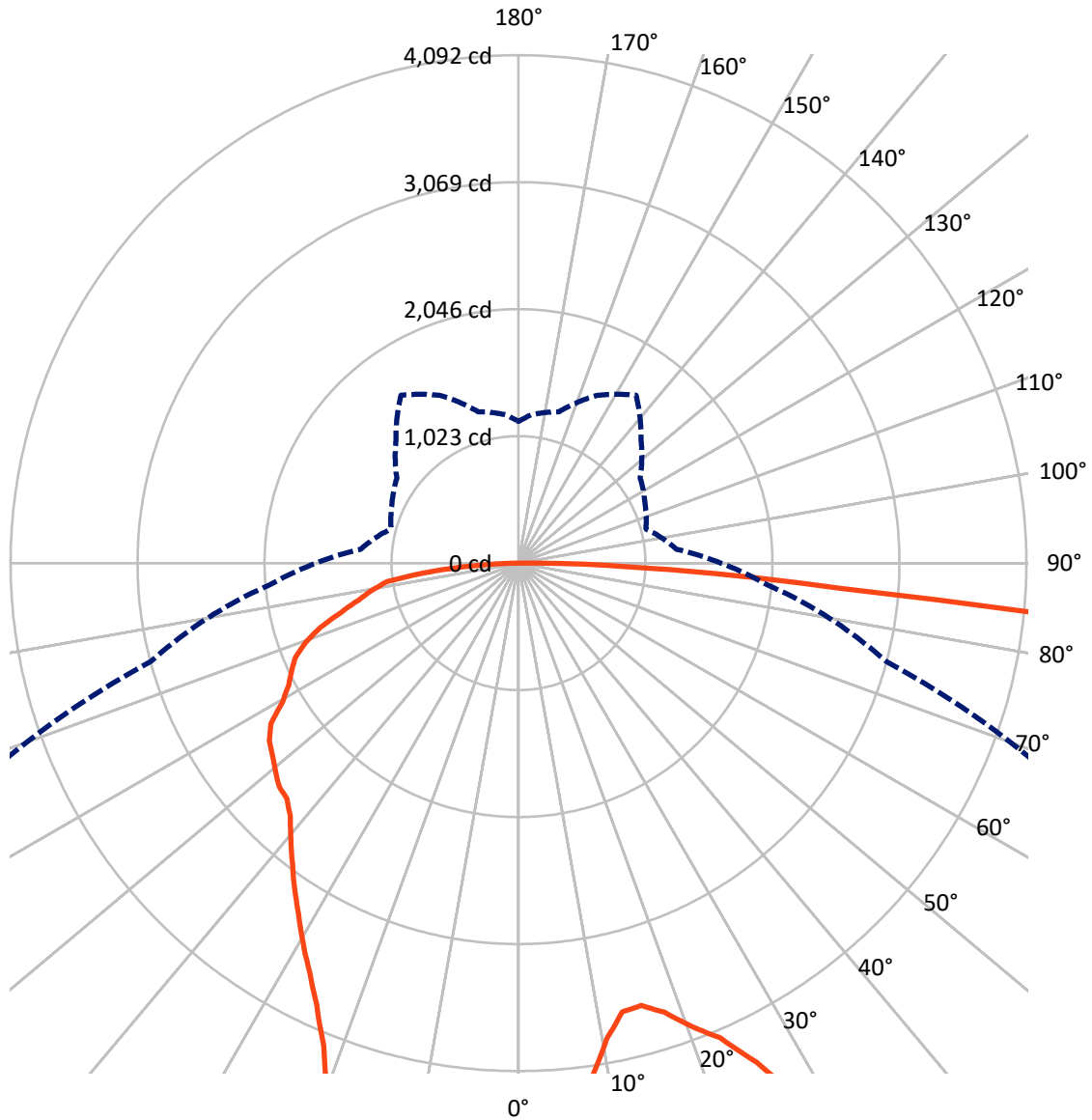
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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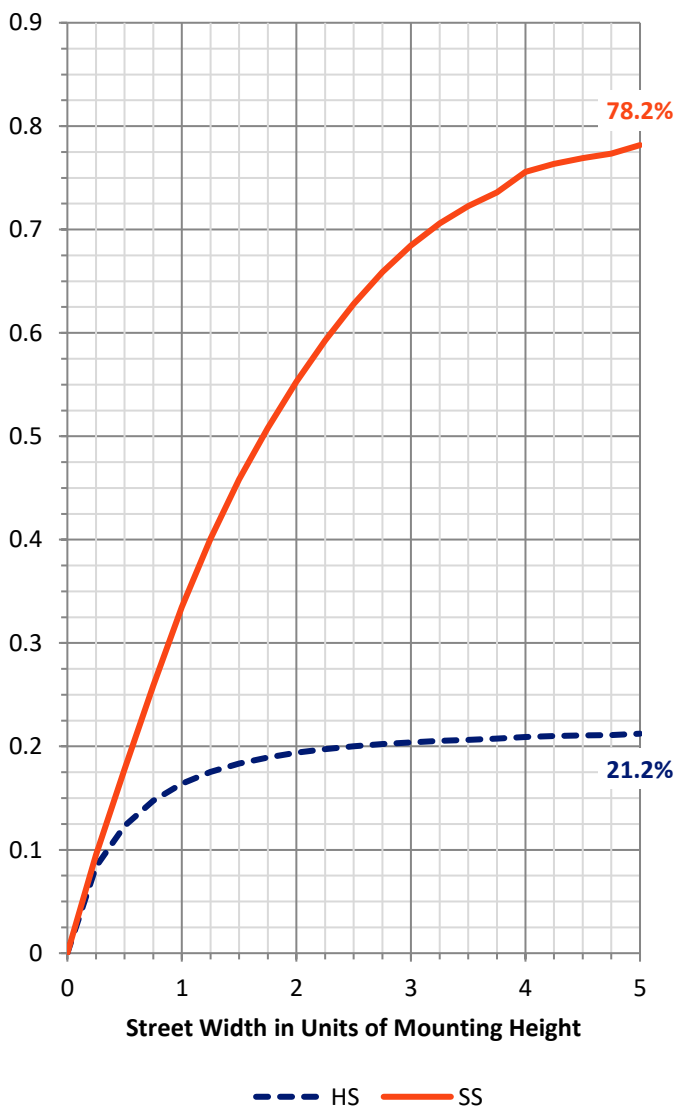
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8012.2	0.0	8012.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29079.1	0.0	29079.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	37091.3	0.0	37091.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.3
10°-20°	1373.5	3.7
20°-30°	2260.6	6.1
30°-40°	3380.7	9.1
40°-50°	5011.8	13.5
50°-60°	7222.5	19.5
60°-70°	9216.9	24.8
70°-80°	7172.3	19.3
80°-90°	962.2	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°	37091.3	100.0
0°-180°	37091.3	100.0

Coefficient of Utilization



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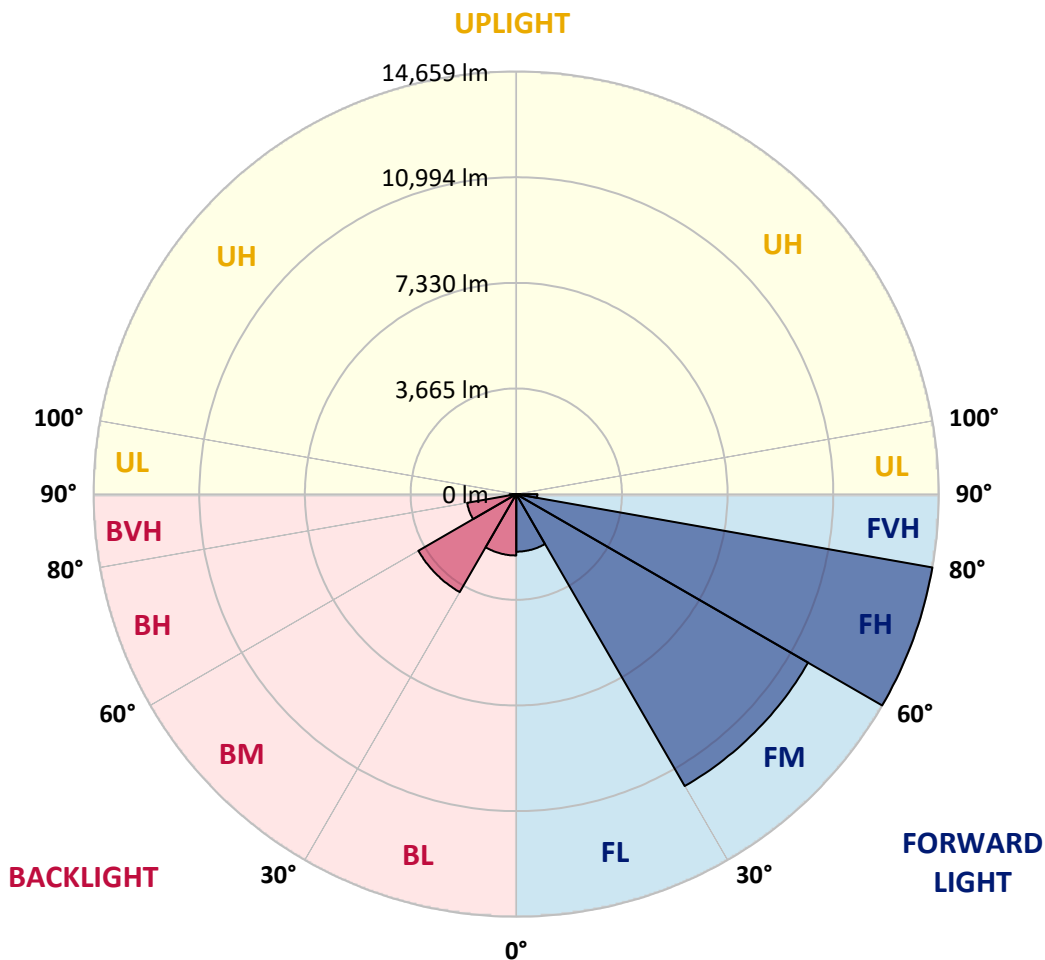
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.1	5.4			
FM (30°-60°)	11691.4	31.5			
FH (60°-80°)	14659.1	39.5			G5
FVH (80°-90°)	732.4	2.0			G4/750
BL (0°-30°)	2128.8	5.7	B3/2500		
BM (30°-60°)	3923.6	10.6	B3/5000		
BH (60°-80°)	1730.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	229.8	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6
2.5°	4764.7	4780.4	4831.3	4843.1	4898.0	4866.6	4933.3	5051.0	5117.6	5215.7	5333.3
5°	4388.2	4321.5	4352.9	4474.5	4537.2	4552.9	4623.5	4823.5	4949.0	5094.1	5313.7
7.5°	3945.1	3933.3	3996.1	4074.5	4200.0	4211.7	4368.6	4545.1	4803.9	5125.5	5384.3
10°	3643.1	3694.1	3729.4	3811.7	3898.0	3898.0	4098.0	4403.9	4698.0	5007.8	5400.0
12.5°	3627.4	3596.1	3603.9	3647.0	3709.8	3788.2	3976.4	4251.0	4623.5	4984.3	5466.6
15°	3678.4	3690.2	3619.6	3674.5	3698.0	3725.5	3933.3	4243.1	4576.4	5066.6	5580.4
17.5°	3949.0	3882.3	3772.5	3721.5	3803.9	3803.9	3945.1	4188.2	4584.3	5109.8	5745.1
20°	4160.8	4160.8	3980.4	3925.5	3984.3	3972.5	4070.6	4251.0	4623.5	5196.1	5929.4
22.5°	4517.6	4568.6	4270.6	4156.8	4152.9	4184.3	4270.6	4423.5	4733.3	5317.6	6105.9
25°	5031.3	5043.1	4698.0	4580.4	4454.9	4505.9	4521.5	4674.5	4831.3	5458.8	6305.8
27.5°	5603.9	5596.0	5278.4	4984.3	4901.9	4913.7	4827.4	4929.4	4976.4	5501.9	6592.1
30°	6239.2	6168.6	5929.4	5513.7	5447.0	5372.5	5184.3	5180.4	5278.4	5745.1	6988.2
32.5°	6654.9	6564.7	6400.0	6101.9	5917.6	5925.5	5627.4	5623.5	5537.2	6011.7	7333.3
35°	7062.7	6925.5	6882.3	6576.4	6392.1	6411.7	6172.5	6141.1	5984.3	6415.7	7901.9
37.5°	7552.9	7431.3	7498.0	7266.6	7039.2	6945.1	6835.3	6796.0	6592.1	6984.3	8678.4
40°	8094.1	8054.9	8011.7	7898.0	7760.7	7768.6	7650.9	7611.7	7309.8	7670.5	9423.5
42.5°	8823.5	8674.5	8450.9	8525.4	8596.0	8670.5	8631.3	8529.4	8215.6	8368.6	10254.8
45°	9501.9	9305.8	8894.1	8917.6	9207.8	9266.6	9741.1	9729.4	9098.0	9254.9	11199.9
47.5°	9960.7	9870.5	9623.5	9596.0	10011.7	10007.8	10862.7	10862.7	10027.4	10137.2	12215.6
50°	10643.1	10407.8	10301.9	10439.2	10650.9	10796.0	12007.8	12082.3	10941.1	11058.8	13545.0
52.5°	11443.1	11149.0	10882.3	11235.2	11611.7	11705.8	13141.1	13109.7	11643.1	12129.3	15101.9
55°	12105.8	11956.8	11772.5	11976.4	12592.1	12709.7	14278.4	13988.2	12345.0	13015.6	15850.9
57.5°	12878.4	12968.6	13007.8	12956.8	13690.1	13874.4	15576.4	14745.0	12949.0	13611.7	16290.1
60°	14043.1	14098.0	14148.9	14270.5	15047.0	15305.8	16603.8	15694.0	13329.3	13956.8	16325.4
62.5°	15815.6	15603.8	15717.6	16137.2	16760.7	17054.8	18117.6	16360.7	13619.5	14164.6	15172.5
65°	17843.0	17556.8	17439.1	17980.3	19596.0	19360.7	20007.7	16858.7	13199.9	13388.2	12866.6
67.5°	19897.9	19929.3	19627.3	20713.6	22694.0	22694.0	21764.6	17097.9	12062.7	10850.9	9023.5
70°	21529.3	21627.3	21792.0	23897.9	27035.2	27509.7	23941.0	16117.6	9745.0	7223.5	4933.3
72.5°	21505.8	21211.7	22054.8	25933.2	30980.2	30584.2	24395.9	12745.0	6082.3	3537.2	2262.7
73°	21023.4	20776.4	21697.9	25913.6	31141.0	30768.5	24062.6	11749.0	5364.7	3066.7	2011.8
75°	17168.5	16721.5	18290.1	23470.5	28811.6	29097.9	20443.0	7662.7	2941.2	1890.2	1415.7
77.5°	7827.4	8023.5	10066.6	15745.0	22203.8	22541.1	13439.1	3313.7	1611.8	1325.5	1043.1
80°	2513.7	2639.2	3917.6	7827.4	13917.6	14525.4	6211.7	1505.9	1149.0	1015.7	780.4
82.5°	960.8	956.9	1643.1	3254.9	6596.0	6984.3	2270.6	917.6	854.9	749.0	552.9
85°	337.3	352.9	619.6	1286.3	2596.1	2717.6	788.2	509.8	592.2	502.0	317.6
87.5°	117.6	121.6	219.6	466.7	894.1	945.1	219.6	203.9	294.1	290.2	160.8
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°	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6	5317.6
2.5°	5372.5	5407.8	5419.6	5560.8	5560.8	5560.8	5615.7	5615.7	5600.0	5560.8	5654.9
5°	5396.0	5458.8	5580.4	5701.9	5733.3	5760.8	5835.3	5772.5	5796.0	5756.8	5792.1
7.5°	5462.7	5549.0	5776.4	5850.9	5800.0	5858.8	5780.4	5737.2	5694.1	5709.8	5654.9
10°	5576.4	5686.2	5792.1	5929.4	5831.3	5772.5	5611.7	5572.5	5435.3	5388.2	5431.3
12.5°	5717.6	5850.9	6031.3	5980.4	5792.1	5623.5	5451.0	5286.2	5203.9	5086.2	5117.6
15°	5858.8	6011.7	6039.2	5952.9	5717.6	5505.9	5192.1	4960.8	4878.4	4772.5	4827.4
17.5°	6011.7	6156.8	6109.8	5886.2	5568.6	5247.0	4890.2	4662.7	4490.2	4423.5	4423.5
20°	6239.2	6309.8	6235.3	5776.4	5388.2	4964.7	4619.6	4360.8	4188.2	4160.8	4117.6
22.5°	6415.7	6529.4	6196.0	5615.7	5125.5	4596.1	4200.0	4101.9	4051.0	4007.8	3952.9
25°	6643.1	6639.2	6125.5	5466.6	4674.5	4156.8	3917.6	3909.8	3886.3	3870.6	3945.1
27.5°	6858.8	6768.6	6043.1	5098.0	4207.8	3823.5	3694.1	3780.4	3815.7	3792.1	3823.5
30°	7200.0	7050.9	5925.5	4705.9	3796.1	3486.3	3509.8	3627.4	3686.3	3721.5	3674.5
32.5°	7560.7	7333.3	5682.3	4298.0	3431.4	3274.5	3329.4	3451.0	3521.6	3560.8	3603.9
35°	8082.3	7552.9	5435.3	3764.7	3168.6	3145.1	3176.5	3243.1	3345.1	3372.5	3384.3
37.5°	8725.4	7886.2	5101.9	3337.2	2964.7	2992.1	3023.5	3047.0	3051.0	3101.9	3082.3
40°	9368.6	8168.6	4615.7	2929.4	2752.9	2901.9	2886.3	2843.1	2807.8	2760.8	2749.0
42.5°	9933.3	8415.6	4074.5	2584.3	2564.7	2807.8	2756.8	2647.0	2564.7	2529.4	2470.6
45°	10568.6	8764.7	3529.4	2368.6	2419.6	2694.1	2678.4	2509.8	2403.9	2278.4	2262.7
47.5°	11392.1	9129.4	3007.8	2145.1	2282.3	2651.0	2658.8	2443.1	2290.2	2121.6	2098.0
50°	12447.0	9654.9	2611.8	2051.0	2200.0	2588.2	2600.0	2352.9	2152.9	1980.4	1964.7
52.5°	13458.8	10192.1	2282.3	1905.9	2145.1	2513.7	2541.2	2270.6	2039.2	1823.5	1835.3
55°	13968.6	9996.0	2000.0	1800.0	2019.6	2392.1	2494.1	2211.8	1866.7	1717.6	1713.7
57.5°	14082.3	9513.7	1776.5	1690.2	1913.7	2262.7	2415.7	2035.3	1788.2	1662.7	1647.1
60°	13709.7	8670.5	1600.0	1572.5	1780.4	2129.4	2235.3	1941.2	1709.8	1607.8	1584.3
62.5°	12792.1	7796.0	1478.4	1517.6	1666.7	1984.3	2121.6	1874.5	1635.3	1564.7	1513.7
65°	10490.1	6411.7	1380.4	1411.8	1549.0	1843.1	2051.0	1800.0	1568.6	1502.0	1498.0
67.5°	7266.6	4419.6	1302.0	1360.8	1454.9	1741.2	1980.4	1717.6	1482.3	1458.8	1427.4
70°	3721.5	2356.9	1200.0	1247.1	1352.9	1611.8	1854.9	1631.4	1392.1	1388.2	1349.0
72.5°	1886.3	1380.4	1082.3	1152.9	1227.4	1443.1	1698.0	1517.6	1278.4	1235.3	1172.5
73°	1631.4	1278.4	1062.7	1125.5	1196.1	1396.1	1651.0	1490.2	1262.7	1200.0	1141.2
75°	1188.2	1007.8	952.9	1015.7	1070.6	1258.8	1494.1	1364.7	1160.8	1094.1	1039.2
77.5°	890.2	776.5	792.2	862.7	909.8	1086.3	1329.4	1235.3	1051.0	960.8	937.2
80°	654.9	592.2	654.9	721.6	756.9	956.9	1211.8	1070.6	886.3	784.3	764.7
82.5°	466.7	431.4	505.9	549.0	564.7	792.2	1090.2	854.9	670.6	537.3	494.1
85°	266.7	262.7	341.2	337.3	349.0	462.7	717.6	568.6	431.4	329.4	321.6
87.5°	117.6	129.4	172.5	137.3	145.1	219.6	305.9	211.8	176.5	98.0	74.5
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)