

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: P478187

Luminaire Tested: **IFLD-L-SA8B-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478187
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

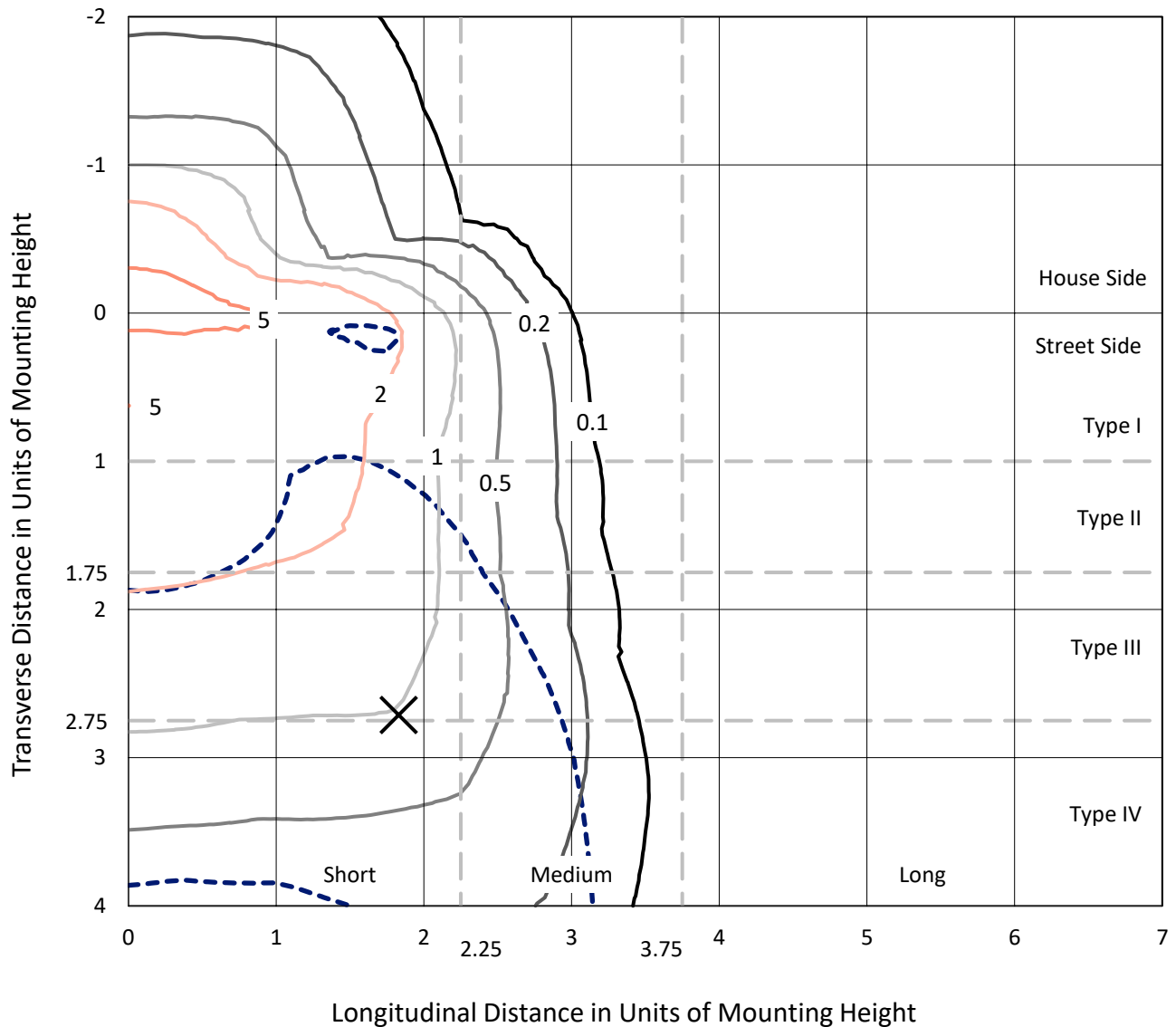
Lumens per Lamp: N/A
Luminaire Lumens: 41695.4 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

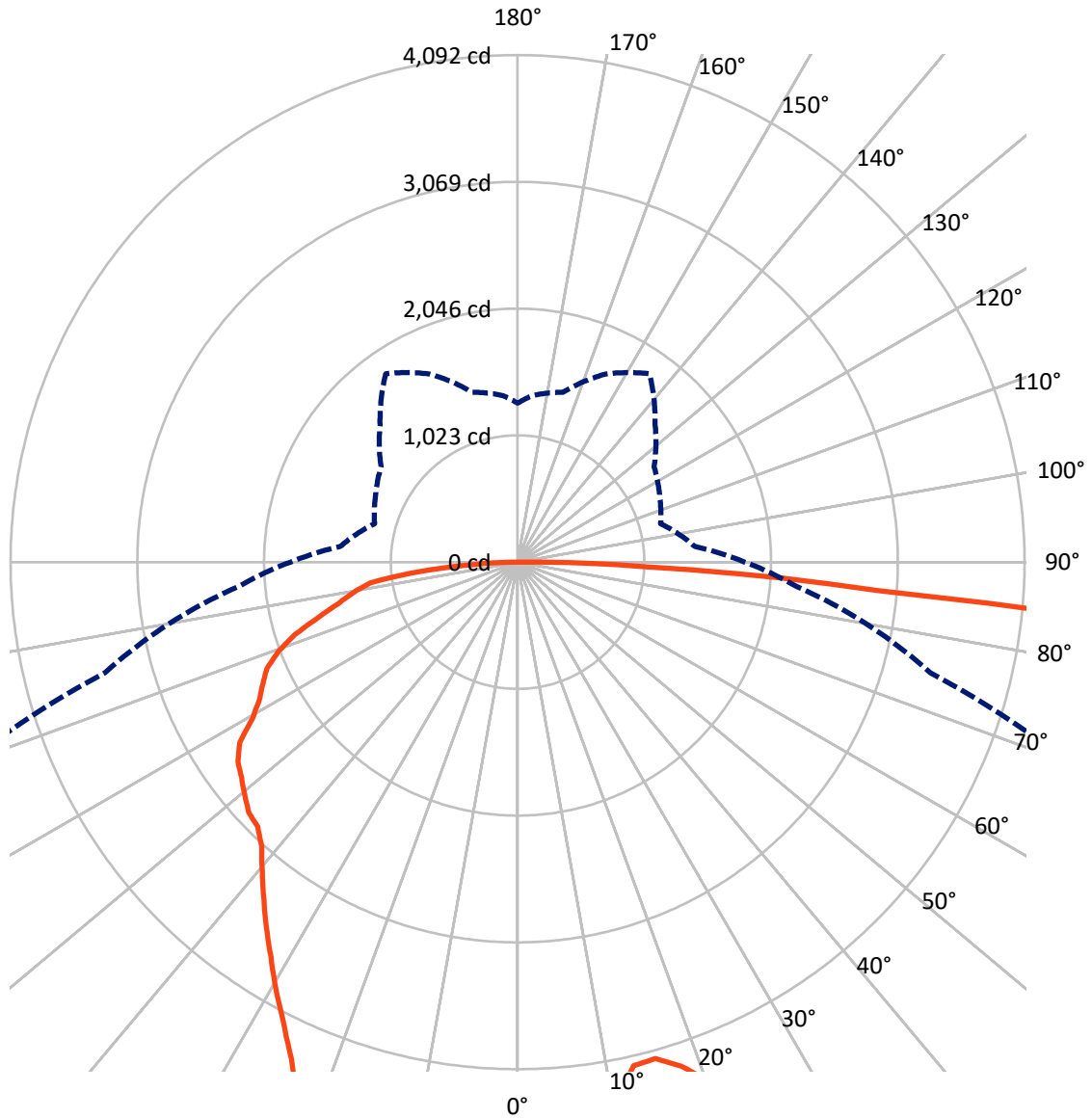
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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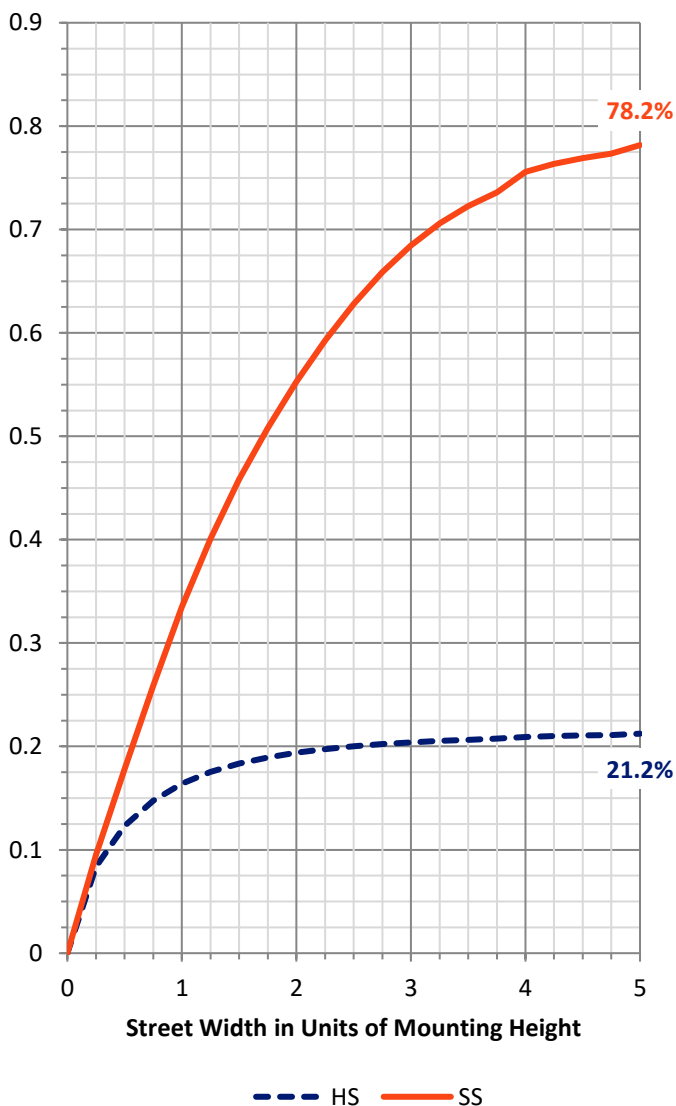
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9006.7	0.0	9006.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32688.7	0.0	32688.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	41695.4	0.0	41695.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.7	1.3
10°-20°	1544.0	3.7
20°-30°	2541.2	6.1
30°-40°	3800.4	9.1
40°-50°	5633.9	13.5
50°-60°	8119.0	19.5
60°-70°	10361.0	24.8
70°-80°	8062.6	19.3
80°-90°	1081.6	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°	41695.4	100.0
0°-180°	41695.4	100.0

Coefficient of Utilization



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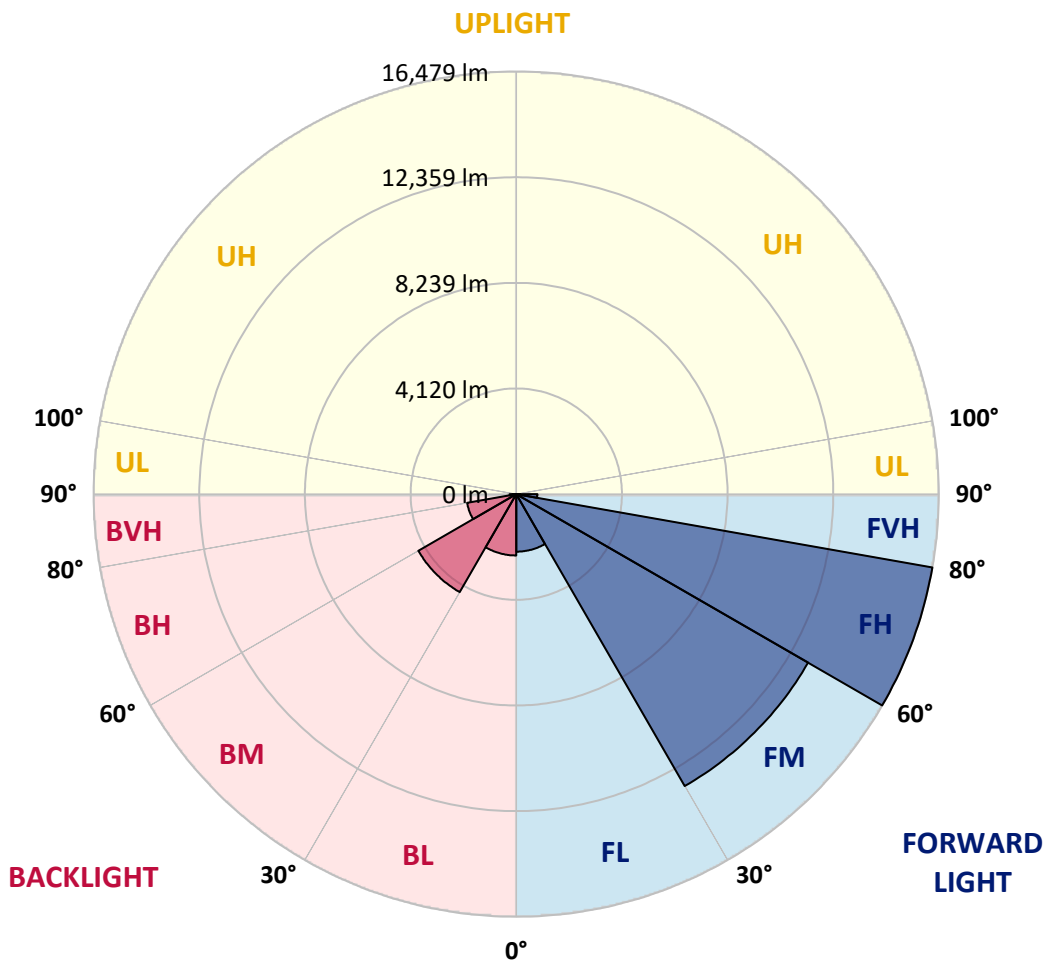
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2243.9	5.4			
FM (30°-60°)	13142.7	31.5			
FH (60°-80°)	16478.8	39.5			G5
FVH (80°-90°)	823.3	2.0			G5
BL (0°-30°)	2393.0	5.7	B3/2500		
BM (30°-60°)	4410.6	10.6	B3/5000		
BH (60°-80°)	1944.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	258.3	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°	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7
2.5°	5356.1	5373.8	5431.1	5444.3	5506.0	5470.7	5545.7	5677.9	5752.9	5863.1	5995.3
5°	4932.9	4858.0	4893.2	5029.9	5100.4	5118.1	5197.4	5422.2	5563.3	5726.4	5973.3
7.5°	4434.8	4421.6	4492.1	4580.3	4721.3	4734.5	4910.9	5109.3	5400.2	5761.7	6052.6
10°	4095.3	4152.6	4192.3	4284.9	4381.9	4381.9	4606.7	4950.6	5281.2	5629.4	6070.3
12.5°	4077.7	4042.4	4051.3	4099.7	4170.3	4258.4	4470.0	4778.6	5197.4	5603.0	6145.2
15°	4135.0	4148.2	4068.9	4130.6	4157.1	4187.9	4421.6	4769.8	5144.5	5695.6	6273.1
17.5°	4439.2	4364.2	4240.8	4183.5	4276.1	4276.1	4434.8	4708.1	5153.3	5744.1	6458.2
20°	4677.2	4677.2	4474.5	4412.7	4478.9	4465.6	4575.8	4778.6	5197.4	5841.0	6665.4
22.5°	5078.4	5135.7	4800.7	4672.8	4668.4	4703.7	4800.7	4972.6	5320.9	5977.7	6863.8
25°	5655.9	5669.1	5281.2	5148.9	5007.9	5065.2	5082.8	5254.7	5431.1	6136.4	7088.6
27.5°	6299.5	6290.7	5933.6	5603.0	5510.4	5523.6	5426.7	5541.3	5594.2	6184.9	7410.4
30°	7013.7	6934.3	6665.4	6198.1	6123.2	6039.4	5827.8	5823.4	5933.6	6458.2	7855.6
32.5°	7480.9	7379.5	7194.4	6859.4	6652.2	6661.0	6326.0	6321.5	6224.6	6758.0	8243.6
35°	7939.4	7785.1	7736.6	7392.8	7185.6	7207.6	6938.7	6903.4	6727.1	7212.0	8882.8
37.5°	8490.4	8353.8	8428.7	8168.6	7913.0	7807.2	7683.7	7639.6	7410.4	7851.2	9755.6
40°	9098.8	9054.7	9006.2	8878.4	8724.1	8732.9	8600.7	8556.6	8217.1	8622.7	10593.2
42.5°	9918.7	9751.2	9500.0	9583.7	9663.1	9746.8	9702.7	9588.1	9235.5	9407.4	11527.8
45°	10681.4	10461.0	9998.1	10024.5	10350.8	10416.9	10950.3	10937.1	10227.3	10403.7	12590.2
47.5°	11197.2	11095.8	10818.0	10787.2	11254.5	11250.1	12211.1	12211.1	11272.1	11395.5	13732.0
50°	11964.2	11699.7	11580.7	11735.0	11973.0	12136.1	13498.3	13582.1	12299.2	12431.5	15226.4
52.5°	12863.5	12532.9	12233.1	12629.9	13053.1	13158.9	14772.3	14737.1	13088.3	13635.0	16976.5
55°	13608.5	13441.0	13233.8	13463.0	14155.2	14287.4	16050.7	15724.5	13877.4	14631.3	17818.5
57.5°	14477.0	14578.4	14622.4	14565.1	15389.5	15596.7	17509.9	16575.3	14556.3	15301.3	18312.2
60°	15786.2	15848.0	15905.3	16041.9	16914.8	17205.7	18664.9	17642.1	14983.9	15689.3	18351.9
62.5°	17778.8	17540.8	17668.6	18140.3	18841.2	19171.8	20366.5	18391.6	15310.1	15922.9	17055.8
65°	20057.9	19736.1	19603.9	20212.2	22028.4	21763.9	22491.3	18951.4	14838.4	15050.0	14463.7
67.5°	22367.9	22403.1	22063.7	23284.8	25511.0	25511.0	24466.2	19220.3	13560.0	12197.9	10143.6
70°	24201.7	24311.9	24497.1	26864.4	30391.0	30924.4	26912.9	18118.2	10954.7	8120.1	5545.7
72.5°	24175.3	23844.7	24792.5	29152.3	34825.8	34380.6	27424.2	14327.1	6837.3	3976.3	2543.6
73°	23633.1	23355.3	24391.3	29130.3	35006.6	34587.8	27049.5	13207.4	6030.6	3447.3	2261.5
75°	19299.7	18797.1	20560.5	26383.9	32388.0	32709.8	22980.6	8613.9	3306.2	2124.8	1591.4
77.5°	8799.0	9019.4	11316.2	17699.5	24960.0	25339.1	15107.4	3725.0	1811.8	1490.0	1172.6
80°	2825.7	2966.8	4403.9	8799.0	15645.2	16328.5	6982.8	1692.8	1291.6	1141.8	877.3
82.5°	1080.0	1075.6	1847.1	3658.9	7414.8	7851.2	2552.4	1031.5	961.0	842.0	621.6
85°	379.1	396.7	696.5	1445.9	2918.3	3055.0	886.1	573.1	665.7	564.3	357.1
87.5°	132.2	136.7	246.9	524.6	1005.1	1062.4	246.9	229.2	330.6	326.2	180.7
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°	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7	5977.7
2.5°	6039.4	6079.1	6092.3	6251.0	6251.0	6251.0	6312.7	6312.7	6295.1	6251.0	6356.8
5°	6065.9	6136.4	6273.1	6409.7	6445.0	6475.8	6559.6	6489.1	6515.5	6471.4	6511.1
7.5°	6140.8	6237.8	6493.5	6577.2	6519.9	6586.0	6497.9	6449.4	6400.9	6418.5	6356.8
10°	6268.6	6392.1	6511.1	6665.4	6555.2	6489.1	6308.3	6264.2	6109.9	6057.0	6105.5
12.5°	6427.3	6577.2	6780.0	6722.7	6511.1	6321.5	6127.6	5942.4	5849.9	5717.6	5752.9
15°	6586.0	6758.0	6788.8	6691.8	6427.3	6189.3	5836.6	5576.5	5484.0	5364.9	5426.7
17.5°	6758.0	6921.1	6868.2	6616.9	6259.8	5898.3	5497.2	5241.5	5047.5	4972.6	4972.6
20°	7013.7	7093.0	7009.2	6493.5	6057.0	5580.9	5193.0	4902.1	4708.1	4677.2	4628.7
22.5°	7212.0	7339.9	6965.2	6312.7	5761.7	5166.6	4721.3	4611.1	4553.8	4505.3	4443.6
25°	7467.7	7463.3	6885.8	6145.2	5254.7	4672.8	4403.9	4395.1	4368.7	4351.0	4434.8
27.5°	7710.2	7608.8	6793.2	5730.8	4730.1	4298.1	4152.6	4249.6	4289.3	4262.9	4298.1
30°	8093.7	7926.2	6661.0	5290.0	4267.3	3919.0	3945.5	4077.7	4143.8	4183.5	4130.6
32.5°	8499.3	8243.6	6387.7	4831.5	3857.3	3681.0	3742.7	3879.3	3958.7	4002.8	4051.3
35°	9085.6	8490.4	6109.9	4232.0	3561.9	3535.5	3570.7	3645.7	3760.3	3791.2	3804.4
37.5°	9808.5	8865.2	5735.2	3751.5	3332.7	3363.6	3398.8	3425.3	3429.7	3487.0	3464.9
40°	10531.5	9182.6	5188.6	3293.0	3094.6	3262.2	3244.5	3196.0	3156.4	3103.5	3090.2
42.5°	11166.3	9460.3	4580.3	2905.1	2883.0	3156.4	3099.1	2975.6	2883.0	2843.4	2777.2
45°	11880.5	9852.6	3967.5	2662.6	2719.9	3028.5	3010.9	2821.3	2702.3	2561.2	2543.6
47.5°	12806.2	10262.6	3381.2	2411.4	2565.6	2980.0	2988.8	2746.4	2574.5	2384.9	2358.5
50°	13992.0	10853.3	2935.9	2305.6	2473.1	2909.5	2922.7	2645.0	2420.2	2226.2	2208.6
52.5°	15129.4	11457.3	2565.6	2142.4	2411.4	2825.7	2856.6	2552.4	2292.3	2049.9	2063.1
55°	15702.5	11236.8	2248.2	2023.4	2270.3	2689.1	2803.7	2486.3	2098.4	1930.8	1926.4
57.5°	15830.3	10694.6	1997.0	1900.0	2151.3	2543.6	2715.5	2287.9	2010.2	1869.1	1851.5
60°	15411.5	9746.8	1798.6	1767.7	2001.4	2393.7	2512.7	2182.1	1922.0	1807.4	1781.0
62.5°	14380.0	8763.8	1661.9	1706.0	1873.5	2230.6	2384.9	2107.2	1838.3	1758.9	1701.6
65°	11792.3	7207.6	1551.7	1587.0	1741.3	2071.9	2305.6	2023.4	1763.3	1688.4	1684.0
67.5°	8168.6	4968.2	1463.6	1529.7	1635.5	1957.3	2226.2	1930.8	1666.3	1639.9	1604.6
70°	4183.5	2649.4	1348.9	1401.8	1520.9	1811.8	2085.1	1833.9	1565.0	1560.5	1516.5
72.5°	2120.4	1551.7	1216.7	1296.0	1379.8	1622.3	1908.8	1706.0	1437.1	1388.6	1318.1
73°	1833.9	1437.1	1194.7	1265.2	1344.5	1569.4	1855.9	1675.2	1419.5	1348.9	1282.8
75°	1335.7	1132.9	1071.2	1141.8	1203.5	1415.1	1679.6	1534.1	1304.9	1229.9	1168.2
77.5°	1000.7	872.8	890.5	969.8	1022.7	1221.1	1494.4	1388.6	1181.4	1080.0	1053.6
80°	736.2	665.7	736.2	811.1	850.8	1075.6	1362.2	1203.5	996.3	881.7	859.6
82.5°	524.6	484.9	568.7	617.2	634.8	890.5	1225.5	961.0	753.8	603.9	555.4
85°	299.8	295.4	383.5	379.1	392.3	520.2	806.7	639.2	484.9	370.3	361.5
87.5°	132.2	145.5	194.0	154.3	163.1	246.9	343.8	238.0	198.4	110.2	83.8
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)