

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: P478212

Luminaire Tested: **IFLD-S-SA6C-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478212
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

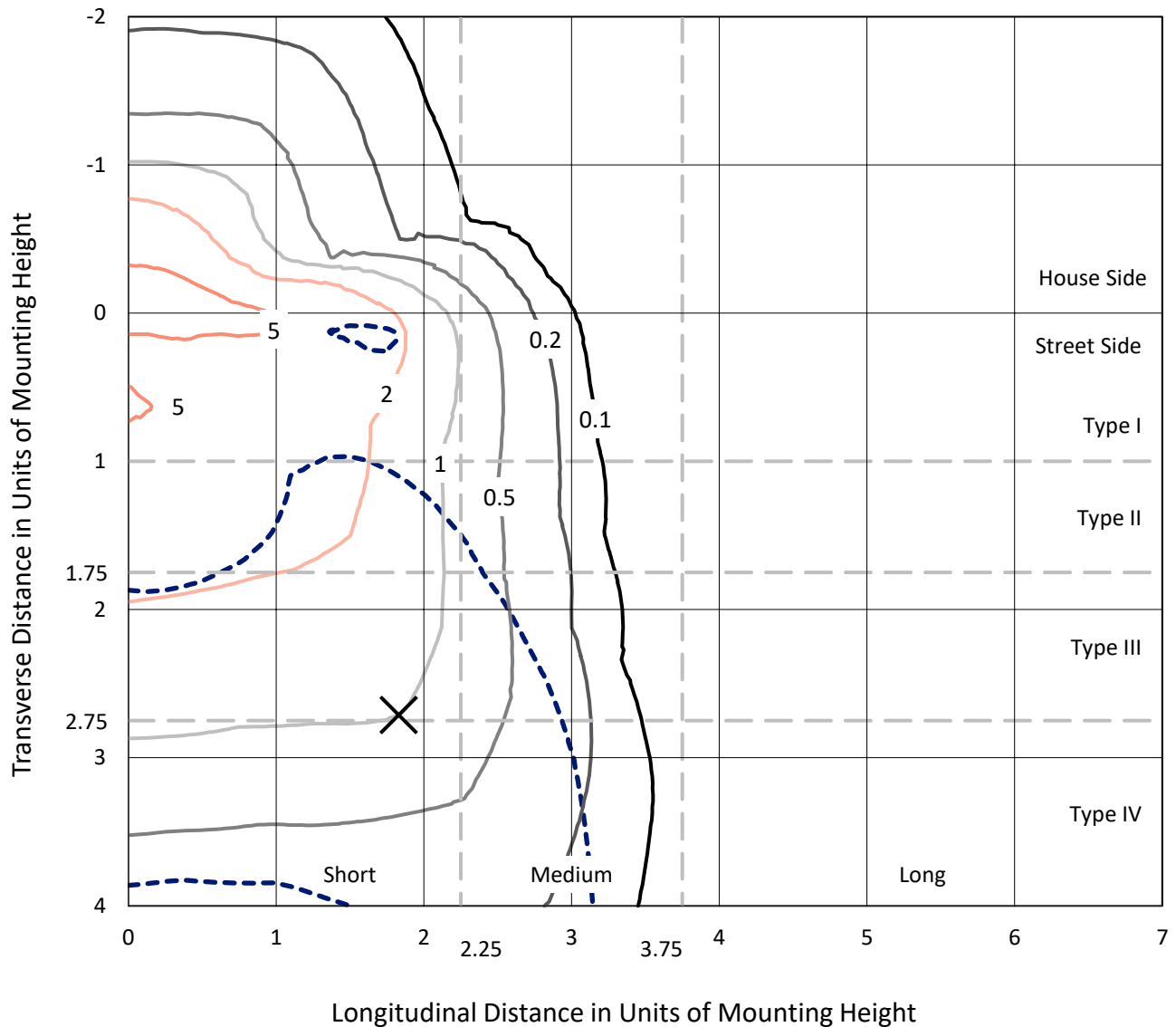
Lumens per Lamp: N/A
Luminaire Lumens: 43544.3 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

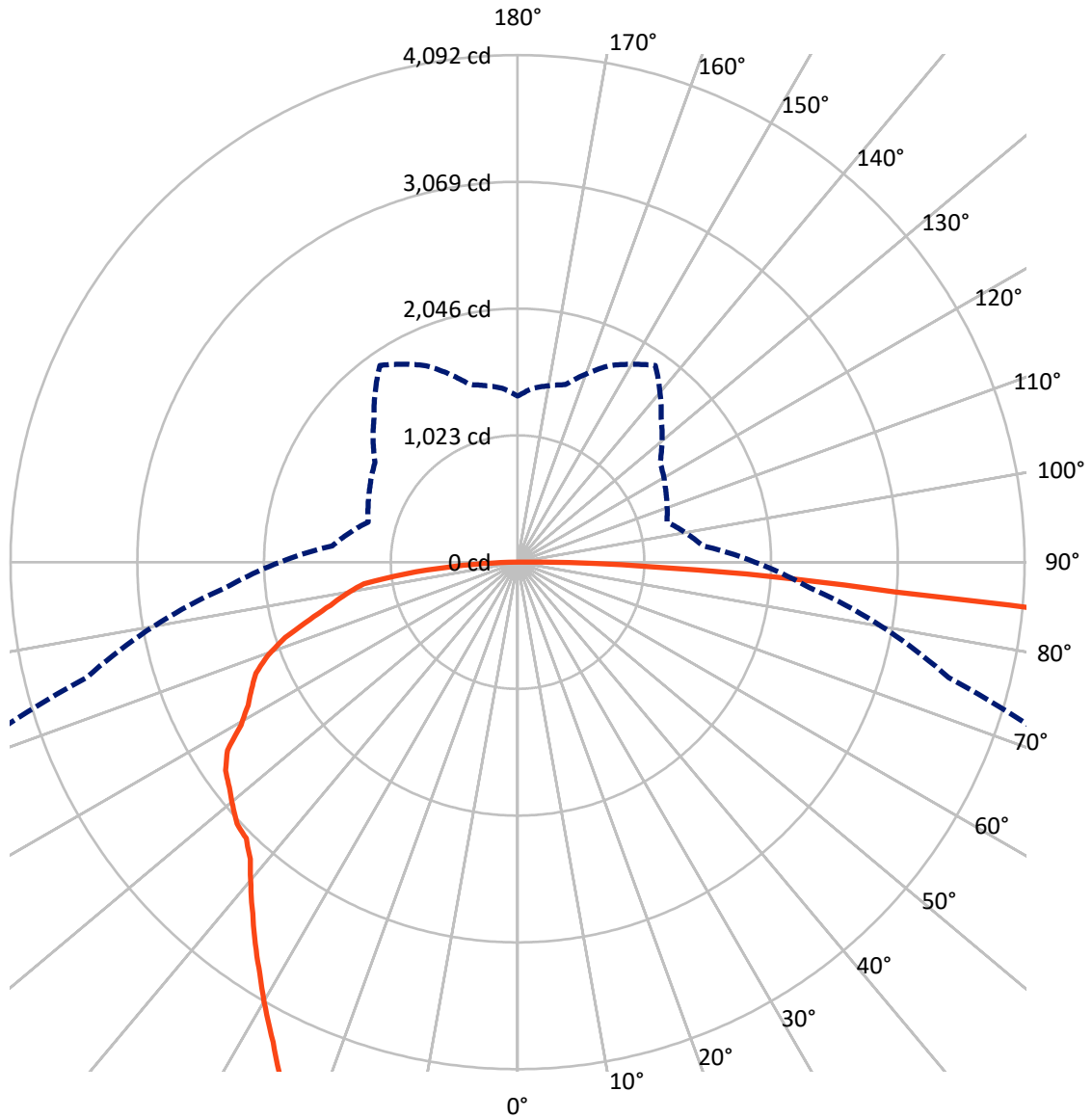
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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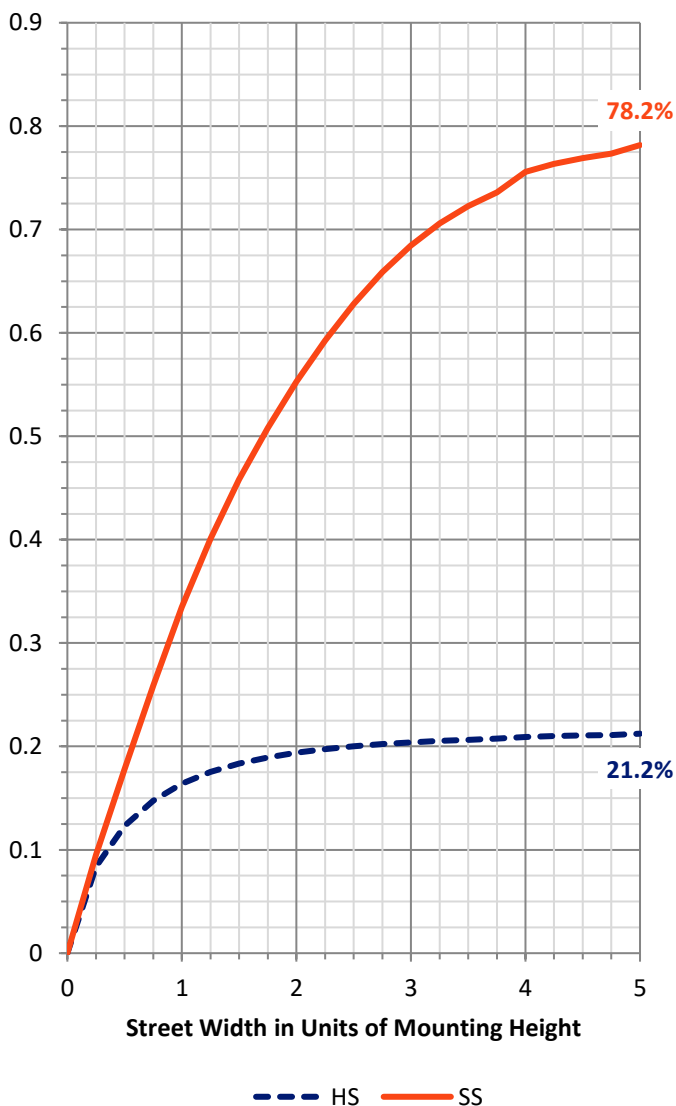
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9406.1	0.0	9406.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	34138.2	0.0	34138.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	43544.3	0.0	43544.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.2	1.3
10°-20°	1612.5	3.7
20°-30°	2653.9	6.1
30°-40°	3968.9	9.1
40°-50°	5883.7	13.5
50°-60°	8479.0	19.5
60°-70°	10820.4	24.8
70°-80°	8420.1	19.3
80°-90°	1129.6	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°	43544.3	100.0
0°-180°	43544.3	100.0

Coefficient of Utilization



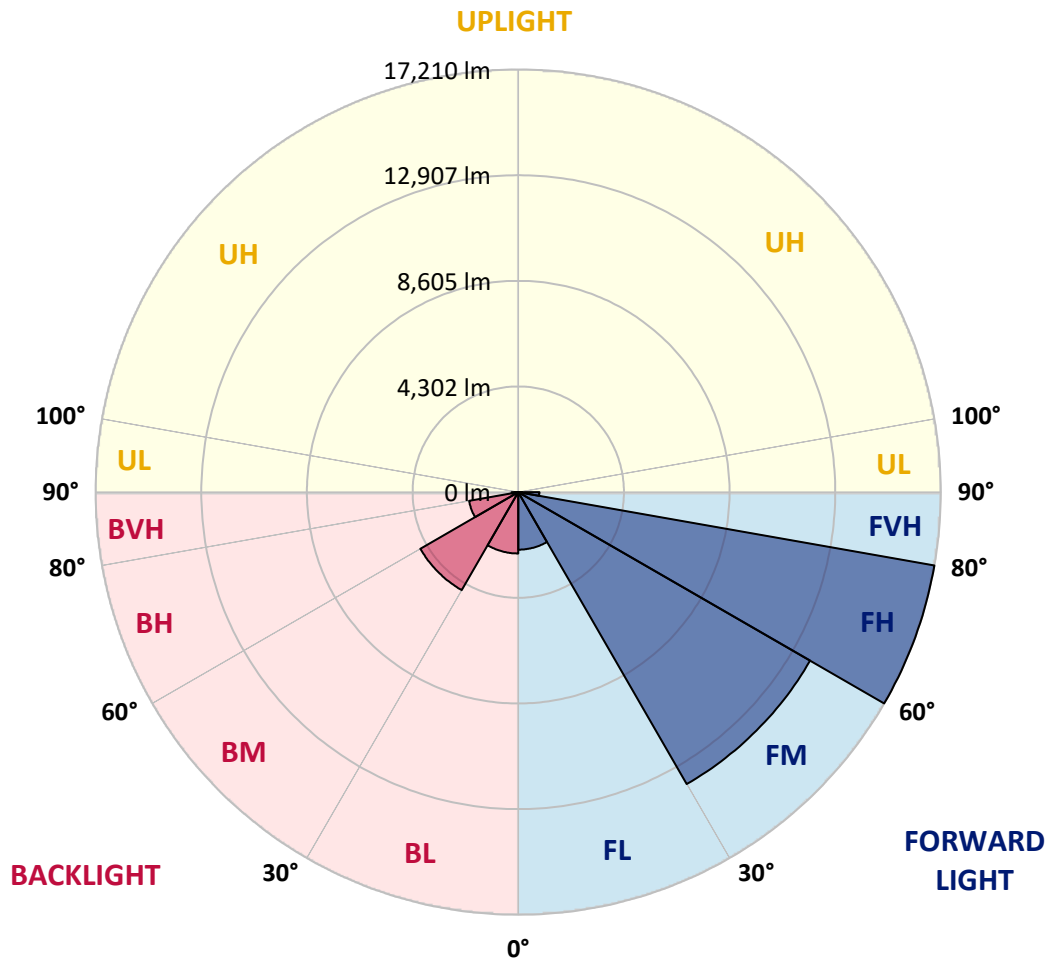
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.4	5.4			
FM (30°-60°)	13725.4	31.5			
FH (60°-80°)	17209.5	39.5			G5
FVH (80°-90°)	859.8	2.0			G5
BL (0°-30°)	2499.1	5.7	B3/2500		
BM (30°-60°)	4606.2	10.6	B3/5000		
BH (60°-80°)	2031.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	269.8	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°	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8
2.5°	5593.6	5612.0	5671.9	5685.7	5750.2	5713.3	5791.6	5929.7	6008.0	6123.1	6261.2
5°	5151.7	5073.4	5110.2	5252.9	5326.6	5345.0	5427.9	5662.7	5810.0	5980.3	6238.2
7.5°	4631.4	4617.6	4691.3	4783.4	4930.7	4944.5	5128.6	5335.8	5639.7	6017.2	6321.0
10°	4276.9	4336.8	4378.2	4474.9	4576.2	4576.2	4811.0	5170.1	5515.4	5879.1	6339.4
12.5°	4258.5	4221.7	4230.9	4281.5	4355.2	4447.3	4668.3	4990.5	5427.9	5851.4	6417.7
15°	4318.4	4332.2	4249.3	4313.8	4341.4	4373.6	4617.6	4981.3	5372.6	5948.1	6551.2
17.5°	4636.0	4557.8	4428.9	4369.0	4465.7	4465.7	4631.4	4916.9	5381.9	5998.8	6744.6
20°	4884.6	4884.6	4672.9	4608.4	4677.5	4663.7	4778.8	4990.5	5427.9	6100.0	6961.0
22.5°	5303.6	5363.4	5013.5	4880.0	4875.4	4912.3	5013.5	5193.1	5556.8	6242.8	7168.1
25°	5906.7	5920.5	5515.4	5377.2	5229.9	5289.8	5308.2	5487.7	5671.9	6408.5	7402.9
27.5°	6578.8	6569.6	6196.7	5851.4	5754.8	5768.6	5667.3	5787.0	5842.2	6459.1	7739.0
30°	7324.7	7241.8	6961.0	6473.0	6394.7	6307.2	6086.2	6081.6	6196.7	6744.6	8204.0
32.5°	7812.7	7706.8	7513.4	7163.5	6947.1	6956.4	6606.5	6601.9	6500.6	7057.6	8609.1
35°	8291.5	8130.3	8079.7	7720.6	7504.2	7527.2	7246.4	7209.6	7025.4	7531.8	9276.7
37.5°	8866.9	8724.2	8802.5	8530.9	8263.8	8153.3	8024.4	7978.4	7739.0	8199.4	10188.2
40°	9502.3	9456.2	9405.6	9272.1	9110.9	9120.1	8982.0	8936.0	8581.5	9005.0	11062.9
42.5°	10358.6	10183.6	9921.2	10008.7	10091.5	10179.0	10133.0	10013.3	9645.0	9824.5	12039.0
45°	11155.0	10924.8	10441.4	10469.1	10809.7	10878.8	11435.9	11422.0	10680.8	10865.0	13148.5
47.5°	11693.7	11587.8	11297.7	11265.5	11753.5	11748.9	12752.5	12752.5	11771.9	11900.8	14340.9
50°	12494.7	12218.5	12094.2	12255.3	12503.9	12674.3	14096.9	14184.3	12844.6	12982.7	15901.5
52.5°	13433.9	13088.6	12775.6	13189.9	13631.9	13742.4	15427.4	15390.5	13668.7	14239.6	17729.3
55°	14212.0	14037.0	13820.6	14060.0	14782.8	14920.9	16762.5	16421.8	14492.8	15280.0	18608.6
57.5°	15118.9	15224.8	15270.8	15211.0	16071.9	16288.3	18286.3	17310.3	15201.8	15979.8	19124.2
60°	16486.2	16550.7	16610.5	16753.3	17664.8	17968.7	19492.5	18424.4	15648.3	16384.9	19165.6
62.5°	18567.2	18318.5	18452.1	18944.7	19676.7	20022.0	21269.6	19207.1	15989.0	16629.0	17812.1
65°	20947.3	20611.2	20473.1	21108.5	23005.2	22729.0	23488.6	19791.8	15496.4	15717.4	15105.1
67.5°	23359.7	23396.5	23042.1	24317.3	26642.2	26642.2	25551.1	20072.6	14161.3	12738.7	10593.4
70°	25274.9	25390.0	25583.4	28055.6	31738.6	32295.7	28106.2	18921.6	11440.5	8480.2	5791.6
72.5°	25247.3	24902.0	25891.8	30445.0	36370.1	35905.1	28640.3	14962.4	7140.5	4152.6	2656.4
73°	24681.0	24391.0	25472.9	30422.0	36558.8	36121.5	28249.0	13793.0	6298.0	3600.2	2361.8
75°	20155.5	19630.6	21472.2	27553.8	33824.2	34160.2	23999.6	8995.8	3452.9	2219.0	1662.0
77.5°	9189.2	9419.4	11818.0	18484.3	26066.8	26462.7	15777.2	3890.2	1892.2	1556.1	1224.6
80°	2951.0	3098.4	4599.2	9189.2	16338.9	17052.5	7292.4	1767.9	1348.9	1192.4	916.2
82.5°	1127.9	1123.3	1929.0	3821.2	7743.6	8199.4	2665.6	1077.3	1003.6	879.3	649.1
85°	395.9	414.3	727.4	1510.0	3047.7	3190.4	925.4	598.5	695.2	589.3	372.9
87.5°	138.1	142.7	257.8	547.9	1049.7	1109.5	257.8	239.4	345.3	340.7	188.8
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°	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8	6242.8
2.5°	6307.2	6348.6	6362.5	6528.2	6528.2	6528.2	6592.7	6592.7	6574.2	6528.2	6638.7
5°	6334.8	6408.5	6551.2	6693.9	6730.8	6763.0	6850.5	6776.8	6804.4	6758.4	6799.8
7.5°	6413.1	6514.4	6781.4	6868.9	6809.0	6878.1	6786.0	6735.4	6684.7	6703.1	6638.7
10°	6546.6	6675.5	6799.8	6961.0	6845.9	6776.8	6588.0	6542.0	6380.9	6325.6	6376.3
12.5°	6712.4	6868.9	7080.7	7020.8	6799.8	6601.9	6399.3	6205.9	6109.3	5971.1	6008.0
15°	6878.1	7057.6	7089.9	6988.6	6712.4	6463.7	6095.4	5823.8	5727.1	5602.8	5667.3
17.5°	7057.6	7228.0	7172.7	6910.3	6537.4	6159.9	5740.9	5473.9	5271.4	5193.1	5193.1
20°	7324.7	7407.5	7320.1	6781.4	6325.6	5828.4	5423.3	5119.4	4916.9	4884.6	4834.0
22.5°	7531.8	7665.3	7274.0	6592.7	6017.2	5395.7	4930.7	4815.6	4755.7	4705.1	4640.6
25°	7798.8	7794.2	7191.1	6417.7	5487.7	4880.0	4599.2	4590.0	4562.4	4544.0	4631.4
27.5°	8052.1	7946.2	7094.5	5984.9	4939.9	4488.7	4336.8	4438.1	4479.5	4451.9	4488.7
30°	8452.6	8277.6	6956.4	5524.6	4456.5	4092.8	4120.4	4258.5	4327.6	4369.0	4313.8
32.5°	8876.1	8609.1	6670.9	5045.8	4028.3	3844.2	3908.6	4051.4	4134.2	4180.3	4230.9
35°	9488.4	8866.9	6380.9	4419.7	3719.9	3692.3	3729.1	3807.3	3927.0	3959.3	3973.1
37.5°	10243.5	9258.3	5989.6	3917.8	3480.5	3512.7	3549.5	3577.2	3581.8	3641.6	3618.6
40°	10998.5	9589.7	5418.7	3439.0	3231.9	3406.8	3388.4	3337.8	3296.3	3241.1	3227.3
42.5°	11661.4	9879.8	4783.4	3033.9	3010.9	3296.3	3236.5	3107.6	3010.9	2969.5	2900.4
45°	12407.3	10289.5	4143.4	2780.7	2840.5	3162.8	3144.4	2946.4	2822.1	2674.8	2656.4
47.5°	13374.1	10717.7	3531.1	2518.3	2679.4	3112.2	3121.4	2868.2	2688.6	2490.7	2463.0
50°	14612.5	11334.6	3066.1	2407.8	2582.7	3038.5	3052.3	2762.3	2527.5	2324.9	2306.5
52.5°	15800.3	11965.3	2679.4	2237.5	2518.3	2951.0	2983.3	2665.6	2394.0	2140.8	2154.6
55°	16398.8	11735.1	2347.9	2113.1	2371.0	2808.3	2928.0	2596.5	2191.4	2016.5	2011.9
57.5°	16532.3	11168.8	2085.5	1984.2	2246.7	2656.4	2835.9	2389.4	2099.3	1952.0	1933.6
60°	16094.9	10179.0	1878.4	1846.1	2090.1	2499.9	2624.2	2278.9	2007.3	1887.6	1859.9
62.5°	15017.6	9152.4	1735.6	1781.7	1956.6	2329.5	2490.7	2200.6	1919.8	1836.9	1777.1
65°	12315.2	7527.2	1620.5	1657.4	1818.5	2163.8	2407.8	2113.1	1841.5	1763.3	1758.7
67.5°	8530.9	5188.5	1528.5	1597.5	1708.0	2044.1	2324.9	2016.5	1740.2	1712.6	1675.8
70°	4369.0	2766.9	1408.8	1464.0	1588.3	1892.2	2177.6	1915.2	1634.4	1629.7	1583.7
72.5°	2214.4	1620.5	1270.7	1353.5	1441.0	1694.2	1993.4	1781.7	1500.8	1450.2	1376.5
73°	1915.2	1500.8	1247.6	1321.3	1404.2	1639.0	1938.2	1749.4	1482.4	1408.8	1339.7
75°	1395.0	1183.2	1118.7	1192.4	1256.8	1477.8	1754.1	1602.1	1362.7	1284.5	1220.0
77.5°	1045.1	911.6	930.0	1012.8	1068.1	1275.3	1560.7	1450.2	1233.8	1127.9	1100.3
80°	768.8	695.2	768.8	847.1	888.5	1123.3	1422.6	1256.8	1040.5	920.8	897.7
82.5°	547.9	506.4	593.9	644.5	662.9	930.0	1279.9	1003.6	787.3	630.7	580.1
85°	313.1	308.5	400.5	395.9	409.7	543.2	842.5	667.6	506.4	386.7	377.5
87.5°	138.1	151.9	202.6	161.1	170.3	257.8	359.1	248.6	207.2	115.1	87.5
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)