

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: P478198

Luminaire Tested: **IFLD-S-SA3D-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478198
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

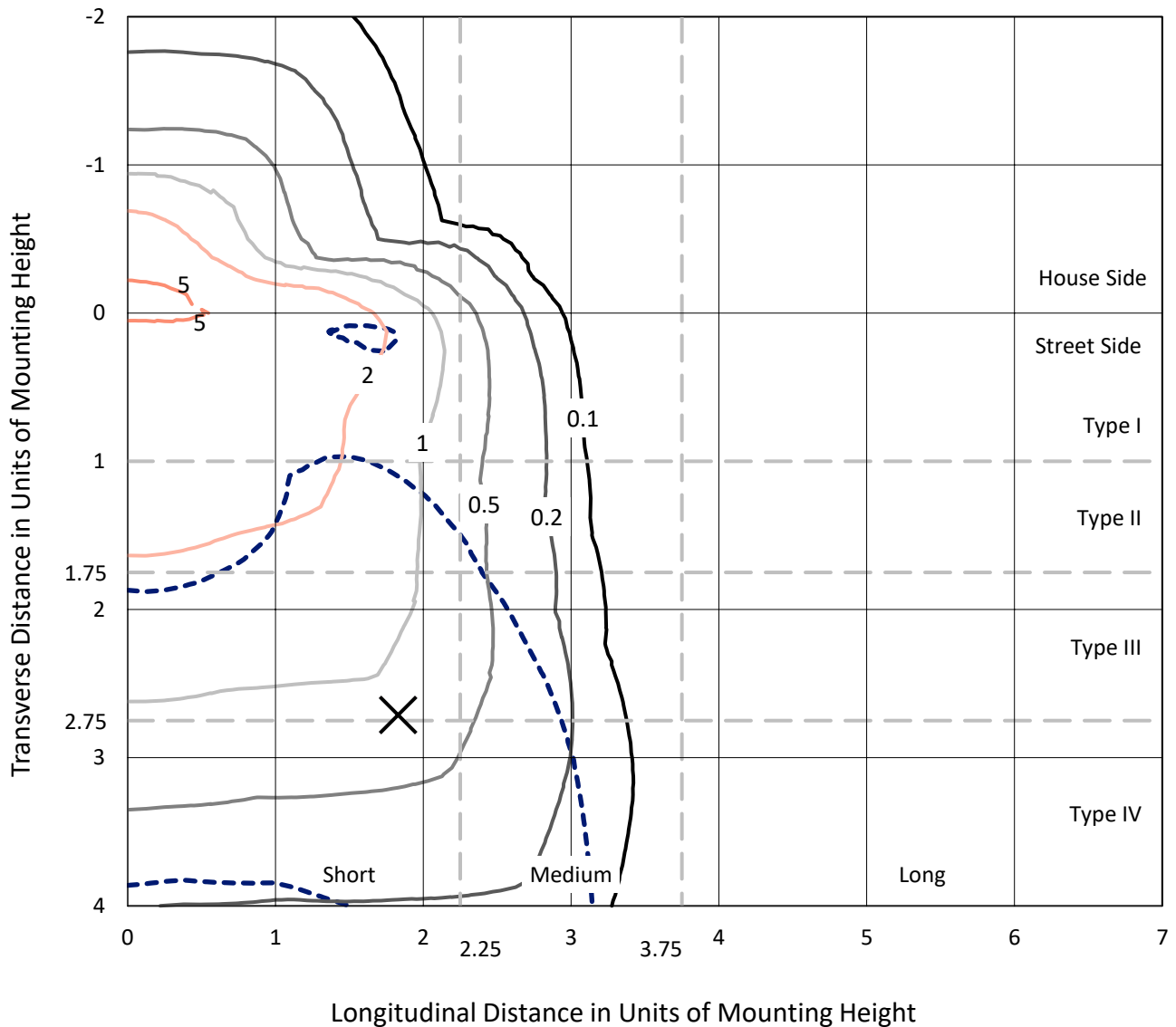
Lumens per Lamp: N/A
Luminaire Lumens: 24424.6 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

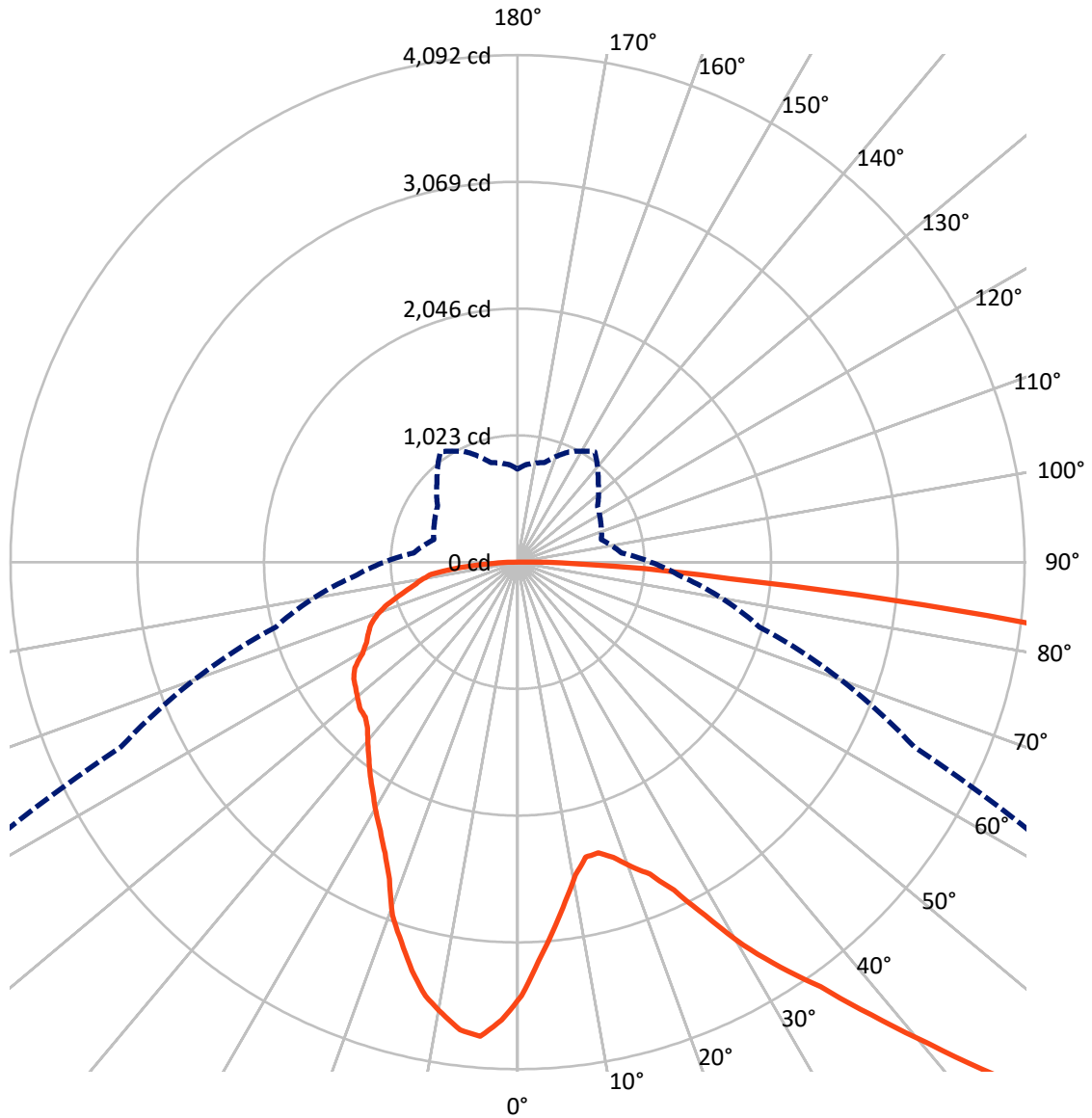
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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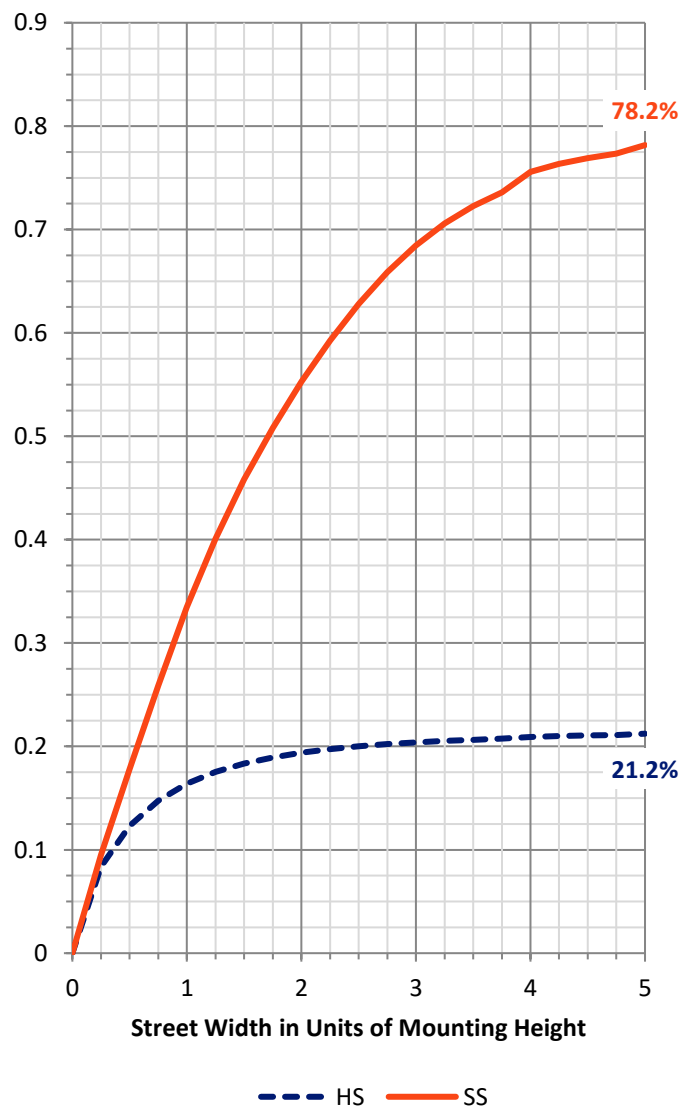
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5276.0	0.0	5276.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19148.6	0.0	19148.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	24424.6	0.0	24424.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	1.3
10°-20°	904.5	3.7
20°-30°	1488.6	6.1
30°-40°	2226.2	9.1
40°-50°	3300.3	13.5
50°-60°	4756.0	19.5
60°-70°	6069.3	24.8
70°-80°	4722.9	19.3
80°-90°	633.6	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°	24424.6	100.0
0°-180°	24424.6	100.0

Coefficient of Utilization



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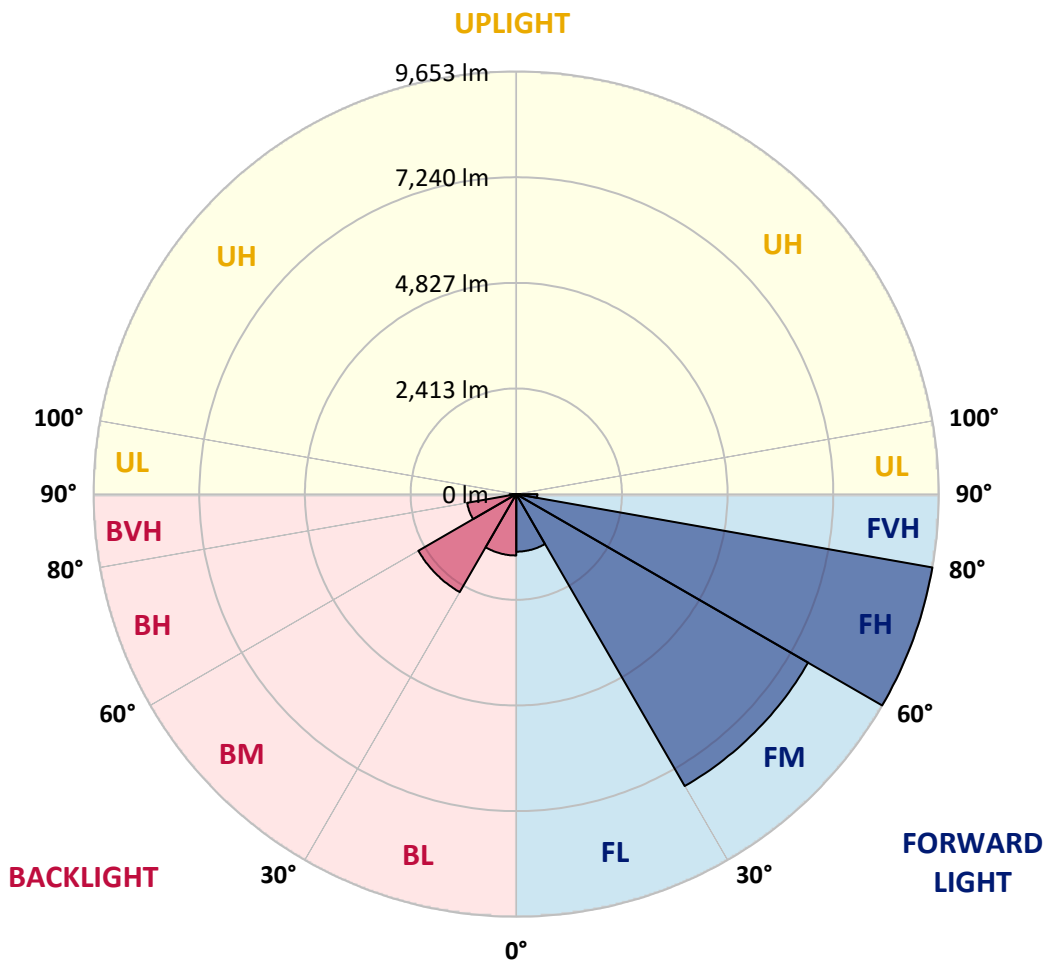
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.5	5.4			
FM (30°-60°)	7698.8	31.5			
FH (60°-80°)	9653.1	39.5			G4/12000
FVH (80°-90°)	482.3	2.0			G3/500
BL (0°-30°)	1401.8	5.7	B3/2500		
BM (30°-60°)	2583.7	10.6	B3/5000		
BH (60°-80°)	1139.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	151.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7
2.5°	3137.5	3147.9	3181.4	3189.2	3225.3	3204.7	3248.6	3326.1	3370.0	3434.5	3512.0
5°	2889.6	2845.7	2866.4	2946.5	2987.8	2998.1	3044.6	3176.3	3258.9	3354.5	3499.1
7.5°	2597.8	2590.1	2631.4	2683.1	2765.7	2773.4	2876.7	2992.9	3163.4	3375.1	3545.6
10°	2399.0	2432.6	2455.8	2510.0	2566.8	2566.8	2698.5	2900.0	3093.6	3297.6	3555.9
12.5°	2388.7	2368.0	2373.2	2401.6	2442.9	2494.5	2618.5	2799.3	3044.6	3282.2	3599.8
15°	2422.2	2430.0	2383.5	2419.7	2435.1	2453.2	2590.1	2794.1	3013.6	3336.4	3674.7
17.5°	2600.4	2556.5	2484.2	2450.6	2504.9	2504.9	2597.8	2757.9	3018.8	3364.8	3783.1
20°	2739.9	2739.9	2621.1	2584.9	2623.7	2615.9	2680.5	2799.3	3044.6	3421.6	3904.5
22.5°	2974.9	3008.4	2812.2	2737.3	2734.7	2755.4	2812.2	2912.9	3116.9	3501.7	4020.7
25°	3313.1	3320.9	3093.6	3016.2	2933.5	2967.1	2977.4	3078.2	3181.4	3594.6	4152.4
27.5°	3690.2	3685.0	3475.8	3282.2	3227.9	3235.7	3178.9	3246.0	3277.0	3623.0	4340.9
30°	4108.5	4062.0	3904.5	3630.8	3586.9	3537.8	3413.9	3411.3	3475.8	3783.1	4601.7
32.5°	4382.2	4322.8	4214.4	4018.1	3896.8	3901.9	3705.7	3703.1	3646.3	3958.7	4829.0
35°	4650.8	4560.4	4532.0	4330.6	4209.2	4222.1	4064.6	4043.9	3940.7	4224.7	5203.4
37.5°	4973.6	4893.5	4937.4	4785.1	4635.3	4573.3	4501.0	4475.2	4340.9	4599.1	5714.7
40°	5330.0	5304.1	5275.7	5200.8	5110.5	5115.6	5038.1	5012.3	4813.5	5051.1	6205.4
42.5°	5810.3	5712.1	5564.9	5614.0	5660.5	5709.6	5683.7	5616.6	5410.0	5510.7	6752.8
45°	6257.0	6127.9	5856.7	5872.2	6063.3	6102.1	6414.5	6406.8	5991.0	6094.3	7375.2
47.5°	6559.1	6499.8	6337.1	6319.0	6592.7	6590.1	7153.1	7153.1	6603.0	6675.4	8044.0
50°	7008.5	6853.5	6783.8	6874.2	7013.6	7109.2	7907.1	7956.2	7204.7	7282.2	8919.4
52.5°	7535.3	7341.6	7166.0	7398.4	7646.3	7708.3	8653.4	8632.8	7667.0	7987.2	9944.6
55°	7971.7	7873.6	7752.2	7886.5	8291.9	8369.4	9402.3	9211.2	8129.2	8570.8	10437.8
57.5°	8480.4	8539.8	8565.6	8532.1	9015.0	9136.3	10257.1	9709.6	8526.9	8963.3	10727.0
60°	9247.4	9283.5	9317.1	9397.1	9908.4	10078.9	10933.6	10334.5	8777.4	9190.6	10750.3
62.5°	10414.6	10275.1	10350.0	10626.3	11036.9	11230.6	11930.4	10773.5	8968.5	9327.4	9991.1
65°	11749.7	11561.1	11483.7	11840.0	12904.0	12749.0	13175.1	11101.5	8692.2	8816.1	8472.7
67.5°	13102.8	13123.5	12924.6	13639.9	14944.0	14944.0	14332.0	11259.0	7943.3	7145.3	5942.0
70°	14177.1	14241.6	14350.1	15736.8	17802.7	18115.1	15765.2	10613.4	6417.1	4756.7	3248.6
72.5°	14161.6	13967.9	14523.1	17077.0	20400.5	20139.7	16064.7	8392.6	4005.2	2329.3	1490.0
73°	13843.9	13681.2	14288.1	17064.1	20506.4	20261.0	15845.2	7736.7	3532.6	2019.4	1324.7
75°	11305.5	11011.1	12044.0	15455.3	18972.5	19161.0	13461.7	5045.9	1936.8	1244.7	932.2
77.5°	5154.4	5283.5	6628.9	10368.1	14621.2	14843.3	8849.7	2182.1	1061.3	872.8	686.9
80°	1655.3	1737.9	2579.8	5154.4	9164.7	9565.0	4090.4	991.6	756.6	668.8	513.9
82.5°	632.7	630.1	1082.0	2143.3	4343.5	4599.1	1495.2	604.3	563.0	493.2	364.1
85°	222.1	232.4	408.0	847.0	1709.5	1789.6	519.1	335.7	389.9	330.5	209.2
87.5°	77.5	80.1	144.6	307.3	588.8	622.3	144.6	134.3	193.7	191.1	105.9
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°	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7	3501.7
2.5°	3537.8	3561.0	3568.8	3661.8	3661.8	3661.8	3697.9	3697.9	3687.6	3661.8	3723.7
5°	3553.3	3594.6	3674.7	3754.7	3775.4	3793.5	3842.5	3801.2	3816.7	3790.9	3814.1
7.5°	3597.2	3654.0	3803.8	3852.9	3819.3	3858.0	3806.4	3778.0	3749.6	3759.9	3723.7
10°	3672.1	3744.4	3814.1	3904.5	3839.9	3801.2	3695.3	3669.5	3579.1	3548.1	3576.5
12.5°	3765.1	3852.9	3971.6	3938.1	3814.1	3703.1	3589.5	3481.0	3426.8	3349.3	3370.0
15°	3858.0	3958.7	3976.8	3920.0	3765.1	3625.6	3419.0	3266.7	3212.4	3142.7	3178.9
17.5°	3958.7	4054.3	4023.3	3876.1	3666.9	3455.2	3220.2	3070.4	2956.8	2912.9	2912.9
20°	4108.5	4155.0	4105.9	3803.8	3548.1	3269.2	3042.0	2871.6	2757.9	2739.9	2711.5
22.5°	4224.7	4299.6	4080.1	3697.9	3375.1	3026.5	2765.7	2701.1	2667.6	2639.2	2603.0
25°	4374.5	4371.9	4033.6	3599.8	3078.2	2737.3	2579.8	2574.6	2559.1	2548.8	2597.8
27.5°	4516.5	4457.1	3979.4	3357.0	2770.9	2517.8	2432.6	2489.4	2512.6	2497.1	2517.8
30°	4741.2	4643.0	3901.9	3098.8	2499.7	2295.7	2311.2	2388.7	2427.4	2450.6	2419.7
32.5°	4978.8	4829.0	3741.8	2830.2	2259.5	2156.3	2192.4	2272.5	2318.9	2344.8	2373.2
35°	5322.2	4973.6	3579.1	2479.0	2086.5	2071.0	2091.7	2135.6	2202.7	2220.8	2228.6
37.5°	5745.7	5193.1	3359.6	2197.6	1952.2	1970.3	1991.0	2006.5	2009.1	2042.6	2029.7
40°	6169.2	5379.0	3039.4	1929.0	1812.8	1910.9	1900.6	1872.2	1849.0	1818.0	1810.2
42.5°	6541.1	5541.7	2683.1	1701.8	1688.9	1849.0	1815.4	1743.1	1688.9	1665.6	1626.9
45°	6959.4	5771.5	2324.1	1559.7	1593.3	1774.1	1763.7	1652.7	1583.0	1500.3	1490.0
47.5°	7501.7	6011.7	1980.7	1412.5	1502.9	1745.7	1750.8	1608.8	1508.1	1397.0	1381.6
50°	8196.4	6357.7	1719.8	1350.6	1448.7	1704.3	1712.1	1549.4	1417.7	1304.1	1293.8
52.5°	8862.6	6711.5	1502.9	1255.0	1412.5	1655.3	1673.4	1495.2	1342.8	1200.8	1208.5
55°	9198.3	6582.4	1317.0	1185.3	1329.9	1575.2	1642.4	1456.4	1229.2	1131.1	1128.5
57.5°	9273.2	6264.8	1169.8	1113.0	1260.2	1490.0	1590.7	1340.2	1177.5	1094.9	1084.6
60°	9027.9	5709.6	1053.6	1035.5	1172.4	1402.2	1471.9	1278.3	1125.9	1058.8	1043.3
62.5°	8423.6	5133.7	973.5	999.4	1097.5	1306.7	1397.0	1234.4	1076.8	1030.4	996.8
65°	6907.8	4222.1	909.0	929.6	1020.0	1213.7	1350.6	1185.3	1032.9	989.0	986.5
67.5°	4785.1	2910.3	857.3	896.1	958.0	1146.6	1304.1	1131.1	976.1	960.6	940.0
70°	2450.6	1552.0	790.2	821.2	890.9	1061.3	1221.4	1074.3	916.7	914.1	888.3
72.5°	1242.1	909.0	712.7	759.2	808.3	950.3	1118.2	999.4	841.8	813.4	772.1
73°	1074.3	841.8	699.8	741.1	787.6	919.3	1087.2	981.3	831.5	790.2	751.5
75°	782.4	663.7	627.5	668.8	705.0	828.9	983.9	898.7	764.4	720.5	684.3
77.5°	586.2	511.3	521.6	568.1	599.1	715.3	875.4	813.4	692.1	632.7	617.2
80°	431.3	389.9	431.3	475.2	498.4	630.1	797.9	705.0	583.6	516.5	503.6
82.5°	307.3	284.1	333.1	361.5	371.9	521.6	717.9	563.0	441.6	353.8	325.4
85°	175.6	173.0	224.7	222.1	229.8	304.7	472.6	374.4	284.1	216.9	211.8
87.5°	77.5	85.2	113.6	90.4	95.5	144.6	201.4	139.4	116.2	64.6	49.1
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)