

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: P478025

Luminaire Tested: **IFLD-L-SA7A-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478025
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

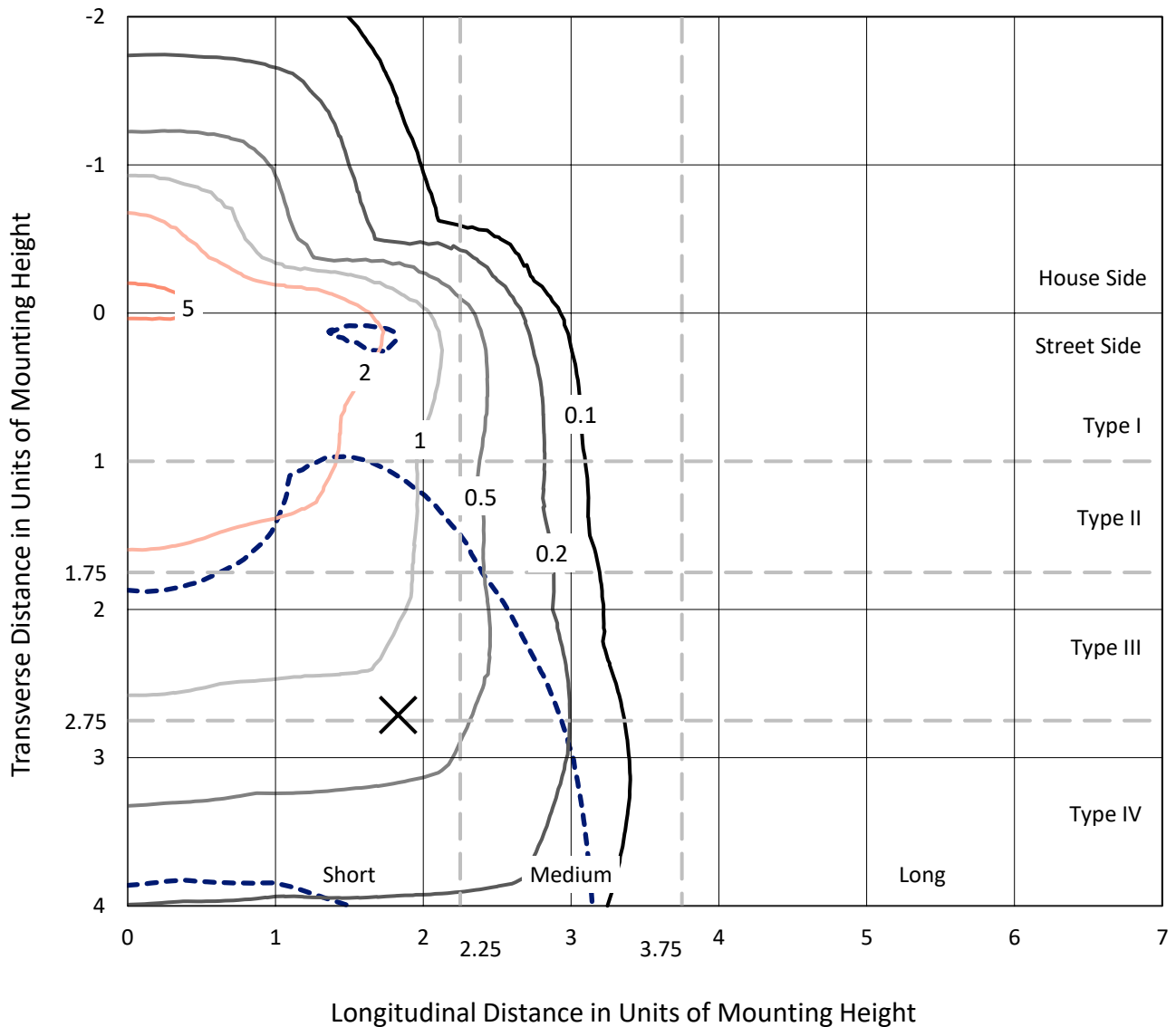
Lumens per Lamp: N/A
Luminaire Lumens: 23620.6 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

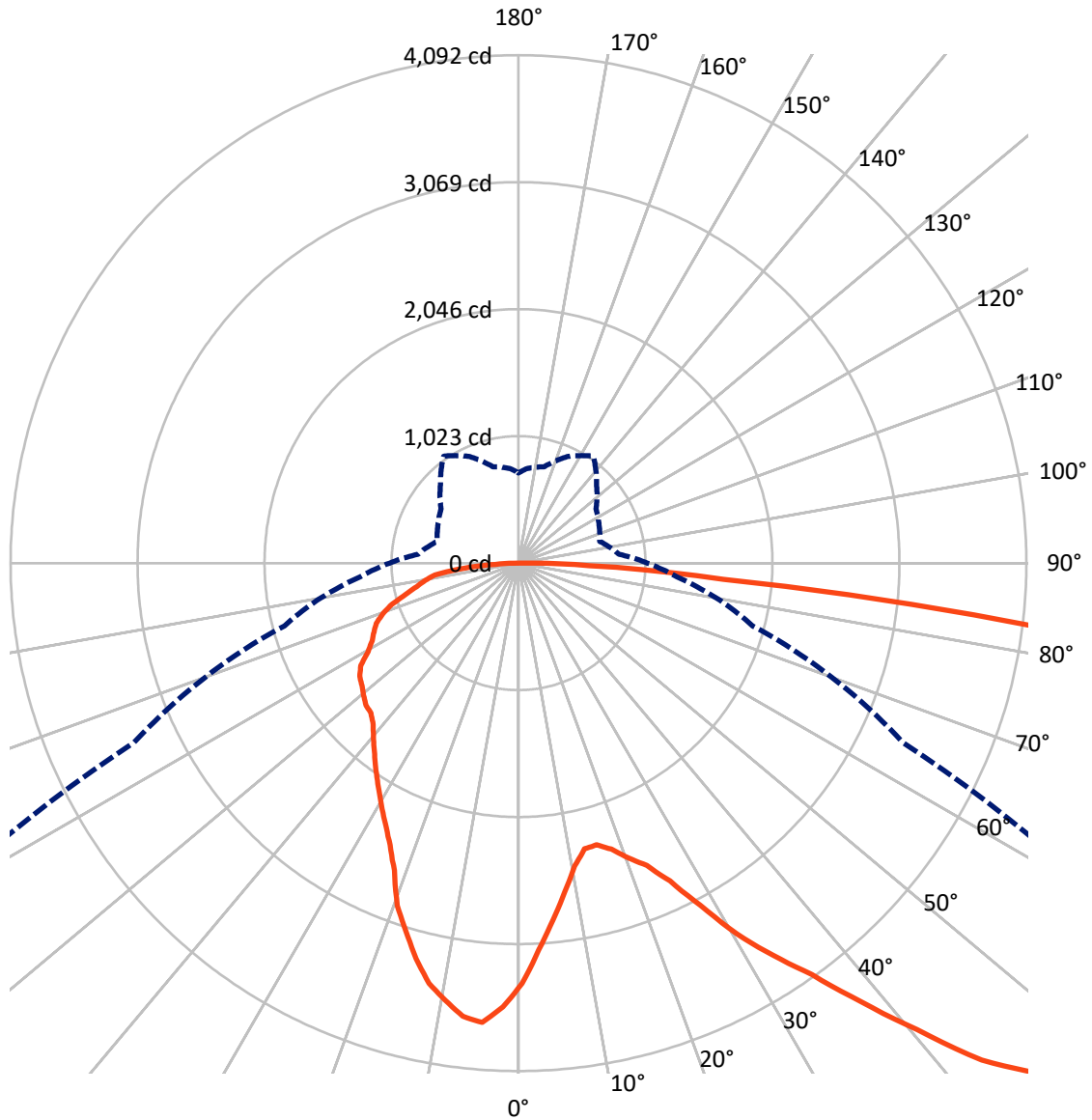
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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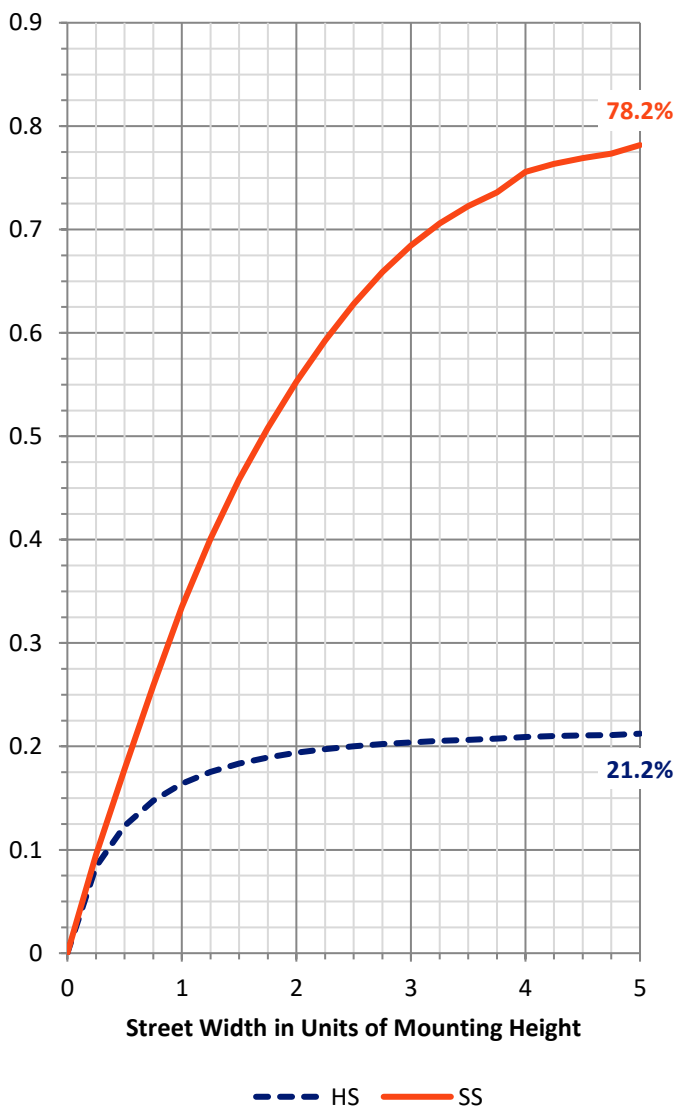
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5102.4	0.0	5102.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18518.3	0.0	18518.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	23620.6	0.0	23620.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.5	1.3
10°-20°	874.7	3.7
20°-30°	1439.6	6.1
30°-40°	2152.9	9.1
40°-50°	3191.6	13.5
50°-60°	4599.5	19.5
60°-70°	5869.5	24.8
70°-80°	4567.5	19.3
80°-90°	612.8	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°	23620.6	100.0
0°-180°	23620.6	100.0



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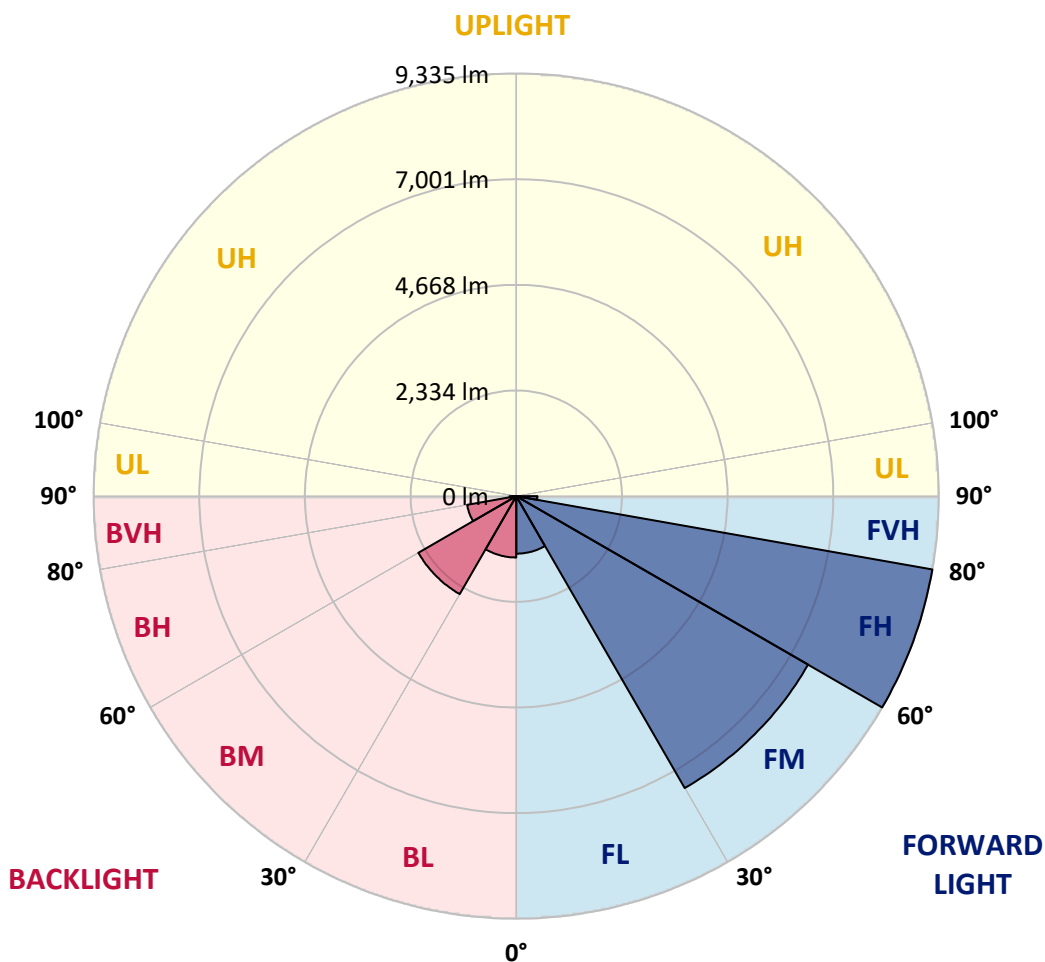
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.2	5.4			
FM (30°-60°)	7445.4	31.5			
FH (60°-80°)	9335.3	39.5			G4/12000
FVH (80°-90°)	466.4	2.0			G3/500
BL (0°-30°)	1355.7	5.7	B3/2500		
BM (30°-60°)	2498.6	10.6	B2/2500		
BH (60°-80°)	1101.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	146.3	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°	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4
2.5°	3034.3	3044.3	3076.7	3084.2	3119.2	3099.2	3141.7	3216.6	3259.0	3321.5	3396.4
5°	2794.5	2752.1	2772.0	2849.5	2889.4	2899.4	2944.4	3071.7	3151.6	3244.0	3383.9
7.5°	2512.3	2504.8	2544.8	2594.7	2674.6	2682.1	2782.0	2894.4	3059.2	3264.0	3428.8
10°	2320.0	2352.5	2375.0	2427.4	2482.4	2482.4	2609.7	2804.5	2991.8	3189.1	3438.8
12.5°	2310.0	2290.1	2295.1	2322.5	2362.5	2412.4	2532.3	2707.1	2944.4	3174.1	3481.3
15°	2342.5	2350.0	2305.0	2340.0	2355.0	2372.5	2504.8	2702.1	2914.4	3226.6	3553.7
17.5°	2514.8	2472.4	2402.4	2370.0	2422.4	2422.4	2512.3	2667.2	2919.4	3254.0	3658.6
20°	2649.7	2649.7	2534.8	2499.8	2537.3	2529.8	2592.2	2707.1	2944.4	3309.0	3776.0
22.5°	2876.9	2909.4	2719.6	2647.2	2644.7	2664.7	2719.6	2817.0	3014.3	3386.4	3888.4
25°	3204.1	3211.6	2991.8	2916.9	2837.0	2869.4	2879.4	2976.8	3076.7	3476.3	4015.7
27.5°	3568.7	3563.7	3361.4	3174.1	3121.7	3129.2	3074.2	3139.2	3169.1	3503.8	4198.0
30°	3973.3	3928.3	3776.0	3511.3	3468.8	3421.4	3301.5	3299.0	3361.4	3658.6	4450.3
32.5°	4238.0	4180.5	4075.7	3885.9	3768.5	3773.5	3583.7	3581.2	3526.2	3828.4	4670.0
35°	4497.7	4410.3	4382.8	4188.0	4070.7	4083.1	3930.8	3910.8	3810.9	4085.6	5032.1
37.5°	4809.9	4732.5	4774.9	4627.6	4482.7	4422.8	4352.9	4327.9	4198.0	4447.8	5526.6
40°	5154.5	5129.5	5102.1	5029.6	4942.2	4947.2	4872.3	4847.3	4655.0	4884.8	6001.1
42.5°	5619.0	5524.1	5381.8	5429.2	5474.2	5521.6	5496.6	5431.7	5231.9	5329.3	6530.5
45°	6051.0	5926.2	5664.0	5678.9	5863.7	5901.2	6203.4	6195.9	5793.8	5893.7	7132.4
47.5°	6343.2	6285.8	6128.5	6111.0	6375.7	6373.2	6917.6	6917.6	6385.7	6455.6	7779.2
50°	6777.8	6627.9	6560.5	6647.9	6782.8	6875.2	7646.8	7694.3	6967.6	7042.5	8625.8
52.5°	7287.2	7099.9	6930.1	7154.9	7394.6	7454.6	8368.6	8348.6	7414.6	7724.3	9617.2
55°	7709.3	7614.4	7497.0	7626.9	8018.9	8093.9	9092.8	8908.0	7861.6	8288.7	10094.2
57.5°	8201.3	8258.7	8283.7	8251.2	8718.2	8835.6	9919.4	9390.0	8246.2	8668.3	10373.9
60°	8943.0	8977.9	9010.4	9087.8	9582.3	9747.1	10573.7	9994.3	8488.4	8888.0	10396.4
62.5°	10071.8	9936.9	10009.3	10276.5	10673.6	10860.9	11537.7	10418.9	8673.3	9020.4	9662.2
65°	11362.9	11180.6	11105.7	11450.3	12479.2	12329.4	12741.4	10736.1	8406.0	8525.9	8193.8
67.5°	12671.5	12691.5	12499.2	13190.9	14452.1	14452.1	13860.2	10888.4	7681.8	6910.1	5746.4
70°	13710.4	13772.8	13877.7	15218.8	17216.6	17518.8	15246.2	10264.1	6205.9	4600.1	3141.7
72.5°	13695.4	13508.1	14045.0	16514.9	19729.0	19476.7	15535.9	8116.3	3873.4	2252.6	1441.0
73°	13388.2	13230.9	13817.8	16502.4	19831.4	19594.1	15323.7	7482.0	3416.4	1952.9	1281.1
75°	10933.3	10648.6	11647.6	14946.6	18347.9	18530.2	13018.6	4879.8	1873.0	1203.7	901.5
77.5°	4984.7	5109.6	6410.7	10026.8	14139.9	14354.7	8558.4	2110.2	1026.4	844.1	664.3
80°	1600.8	1680.7	2494.8	4984.7	8863.0	9250.1	3955.8	959.0	731.7	646.8	497.0
82.5°	611.8	609.4	1046.4	2072.8	4200.5	4447.8	1446.0	584.4	544.4	477.0	352.1
85°	214.8	224.8	394.6	819.1	1653.2	1730.7	502.0	324.7	377.1	319.7	202.3
87.5°	74.9	77.4	139.9	297.2	569.4	601.9	139.9	129.9	187.3	184.8	102.4
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°	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4	3386.4
2.5°	3421.4	3443.8	3451.3	3541.2	3541.2	3541.2	3576.2	3576.2	3566.2	3541.2	3601.2
5°	3436.3	3476.3	3553.7	3631.1	3651.1	3668.6	3716.0	3676.1	3691.1	3666.1	3688.6
7.5°	3478.8	3533.7	3678.6	3726.0	3693.6	3731.0	3681.1	3653.6	3626.1	3636.1	3601.2
10°	3551.2	3621.1	3688.6	3776.0	3713.5	3676.1	3573.7	3548.7	3461.3	3431.3	3458.8
12.5°	3641.1	3726.0	3840.9	3808.4	3688.6	3581.2	3471.3	3366.4	3314.0	3239.0	3259.0
15°	3731.0	3828.4	3845.9	3791.0	3641.1	3506.3	3306.5	3159.1	3106.7	3039.3	3074.2
17.5°	3828.4	3920.8	3890.9	3748.5	3546.2	3341.4	3114.2	2969.3	2859.5	2817.0	2817.0
20°	3973.3	4018.2	3970.8	3678.6	3431.3	3161.6	2941.9	2777.0	2667.2	2649.7	2622.2
22.5°	4085.6	4158.1	3945.8	3576.2	3264.0	2926.9	2674.6	2612.2	2579.7	2552.3	2517.3
25°	4230.5	4228.0	3900.8	3481.3	2976.8	2647.2	2494.8	2489.8	2474.9	2464.9	2512.3
27.5°	4367.8	4310.4	3848.4	3246.5	2679.6	2434.9	2352.5	2407.4	2429.9	2414.9	2434.9
30°	4585.1	4490.2	3773.5	2996.8	2417.4	2220.1	2235.1	2310.0	2347.5	2370.0	2340.0
32.5°	4814.9	4670.0	3618.6	2737.1	2185.2	2085.3	2120.2	2197.7	2242.6	2267.6	2295.1
35°	5147.0	4809.9	3461.3	2397.4	2017.8	2002.9	2022.8	2065.3	2130.2	2147.7	2155.2
37.5°	5556.6	5022.1	3249.0	2125.2	1888.0	1905.5	1925.4	1940.4	1942.9	1975.4	1962.9
40°	5966.1	5202.0	2939.4	1865.5	1753.1	1848.0	1838.0	1810.6	1788.1	1758.1	1750.6
42.5°	6325.8	5359.3	2594.7	1645.7	1633.3	1788.1	1755.6	1685.7	1633.3	1610.8	1573.3
45°	6730.3	5581.5	2247.6	1508.4	1540.9	1715.7	1705.7	1598.3	1530.9	1451.0	1441.0
47.5°	7254.8	5813.8	1915.5	1366.0	1453.5	1688.2	1693.2	1555.8	1458.4	1351.1	1336.1
50°	7926.5	6148.4	1663.2	1306.1	1401.0	1648.2	1655.7	1498.4	1371.0	1261.2	1251.2
52.5°	8570.9	6490.6	1453.5	1213.7	1366.0	1600.8	1618.3	1446.0	1298.6	1161.3	1168.8
55°	8895.5	6365.7	1273.6	1146.3	1286.1	1523.4	1588.3	1408.5	1188.7	1093.8	1091.3
57.5°	8967.9	6058.5	1131.3	1076.4	1218.7	1441.0	1538.4	1296.1	1138.8	1058.9	1048.9
60°	8730.7	5521.6	1018.9	1001.4	1133.8	1356.1	1423.5	1236.2	1088.8	1023.9	1008.9
62.5°	8146.3	4964.7	941.5	966.5	1061.4	1263.7	1351.1	1193.7	1041.4	996.4	964.0
65°	6680.4	4083.1	879.1	899.0	986.4	1173.7	1306.1	1146.3	998.9	956.5	954.0
67.5°	4627.6	2814.5	829.1	866.6	926.5	1108.8	1261.2	1093.8	944.0	929.0	909.0
70°	2370.0	1500.9	764.2	794.2	861.6	1026.4	1181.2	1038.9	886.6	884.1	859.1
72.5°	1201.2	879.1	689.3	734.2	781.7	919.0	1081.3	966.5	814.1	786.7	746.7
73°	1038.9	814.1	676.8	716.7	761.7	889.1	1051.4	949.0	804.1	764.2	726.7
75°	756.7	641.8	606.9	646.8	681.8	801.6	951.5	869.1	739.2	696.8	661.8
77.5°	566.9	494.5	504.5	549.4	579.4	691.8	846.6	786.7	669.3	611.8	596.9
80°	417.1	377.1	417.1	459.5	482.0	609.4	771.7	681.8	564.4	499.5	487.0
82.5°	297.2	274.7	322.2	349.6	359.6	504.5	694.3	544.4	427.0	342.1	314.7
85°	169.8	167.3	217.3	214.8	222.3	294.7	457.0	362.1	274.7	209.8	204.8
87.5°	74.9	82.4	109.9	87.4	92.4	139.9	194.8	134.9	112.4	62.4	47.4
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)