

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: P478433

Luminaire Tested: **IFLD-S-SA3E-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478433
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

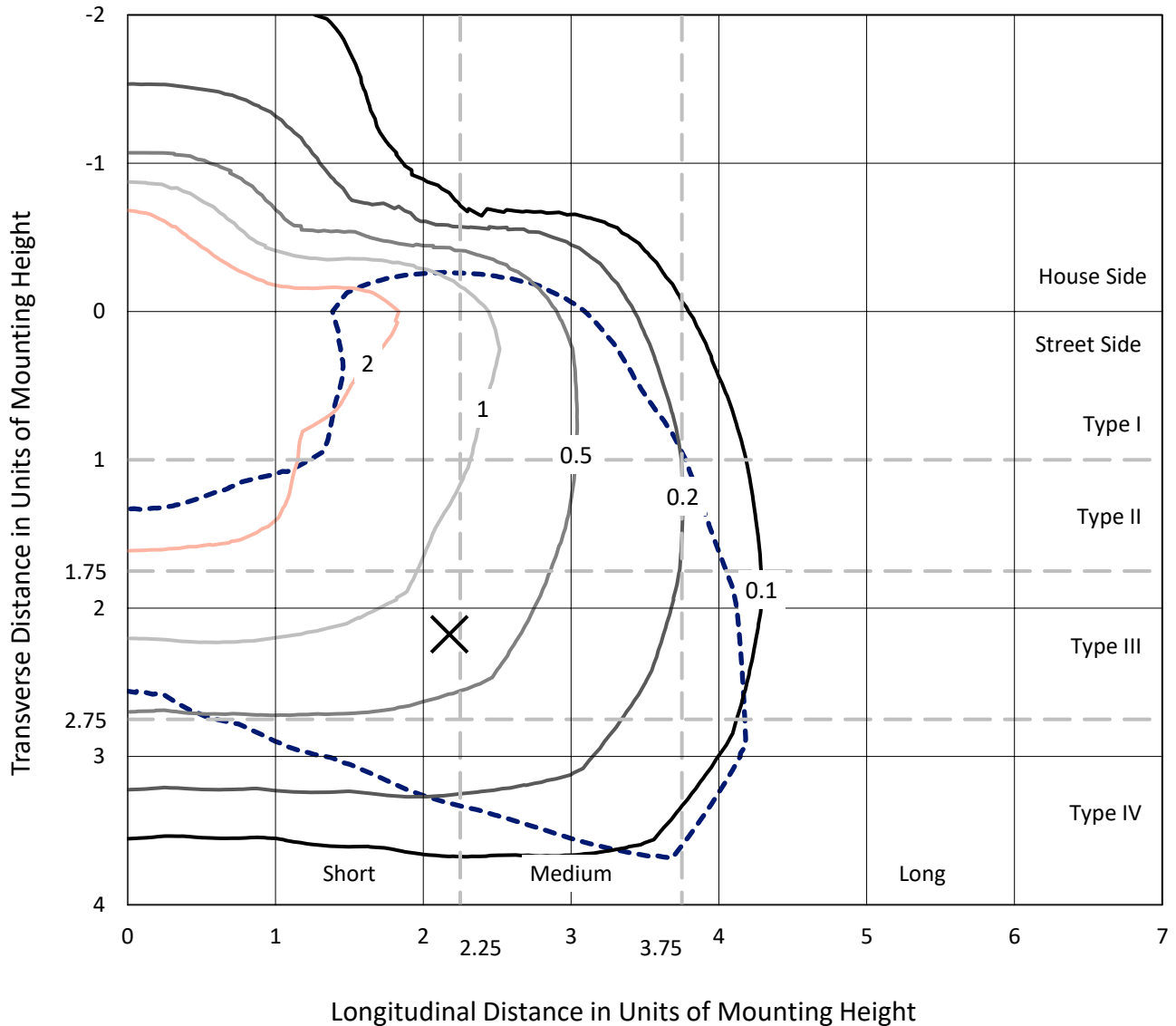
Lumens per Lamp: N/A
Luminaire Lumens: 22801 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

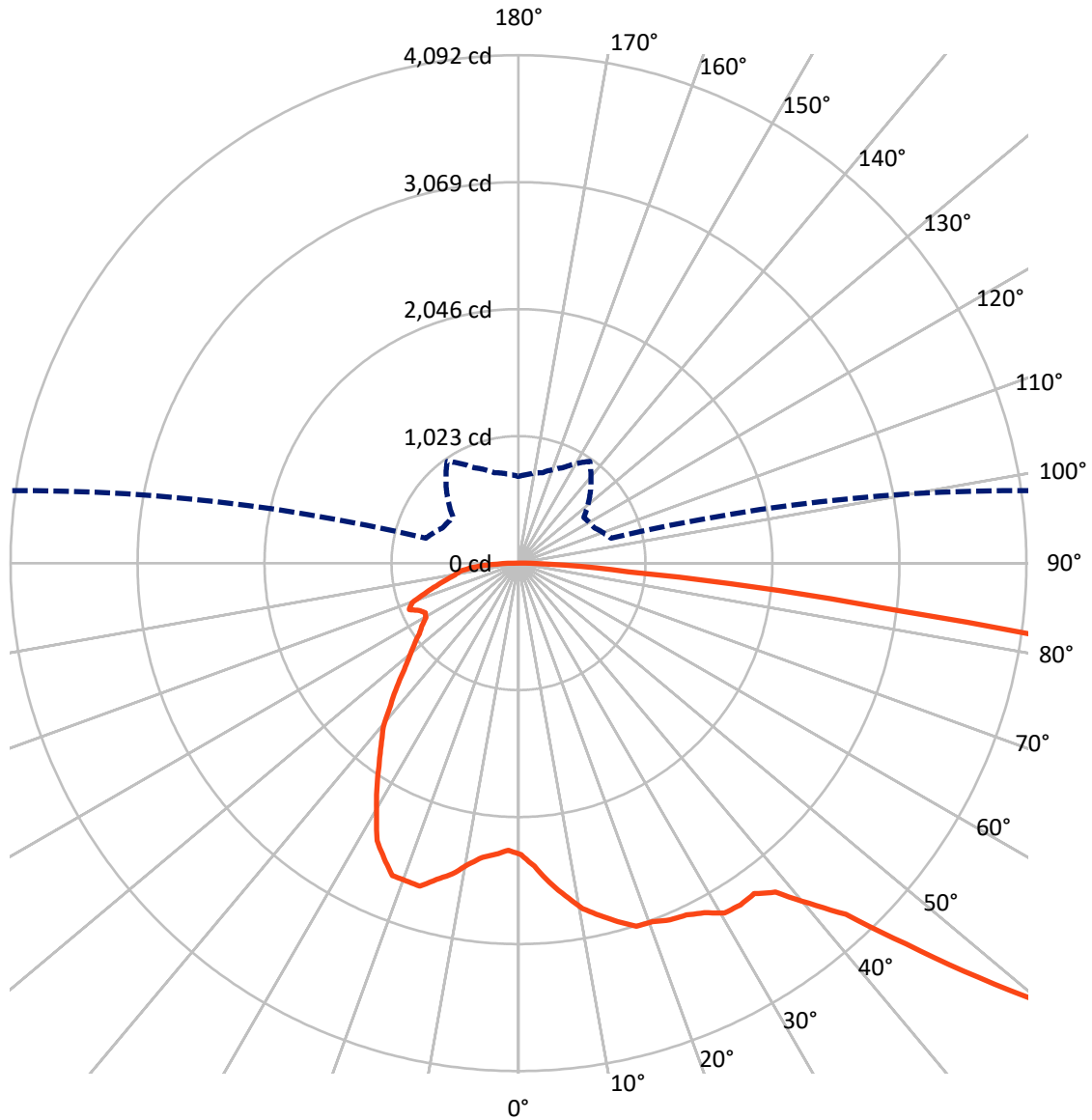
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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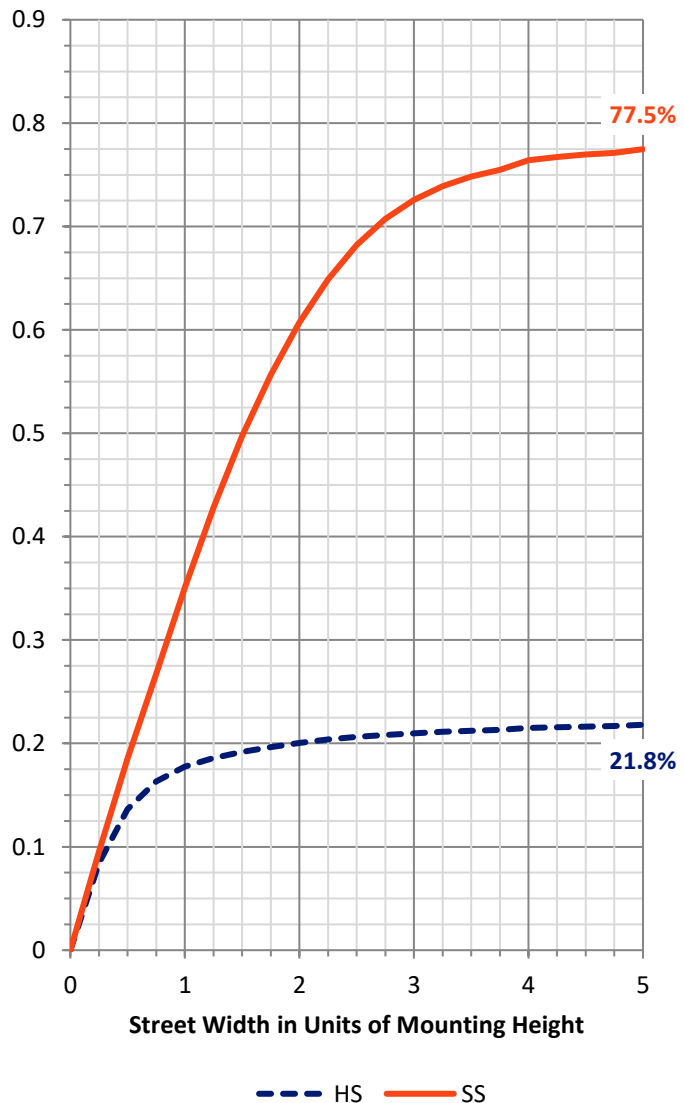
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5075.6	0.0	5075.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17725.3	0.0	17725.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	22801.0	0.0	22801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.1
10°-20°	799.4	3.5
20°-30°	1350.0	5.9
30°-40°	1868.1	8.2
40°-50°	2672.2	11.7
50°-60°	4310.0	18.9
60°-70°	6356.6	27.9
70°-80°	4616.0	20.2
80°-90°	588.4	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°	22801.0	100.0
0°-180°	22801.0	100.0

Coefficient of Utilization



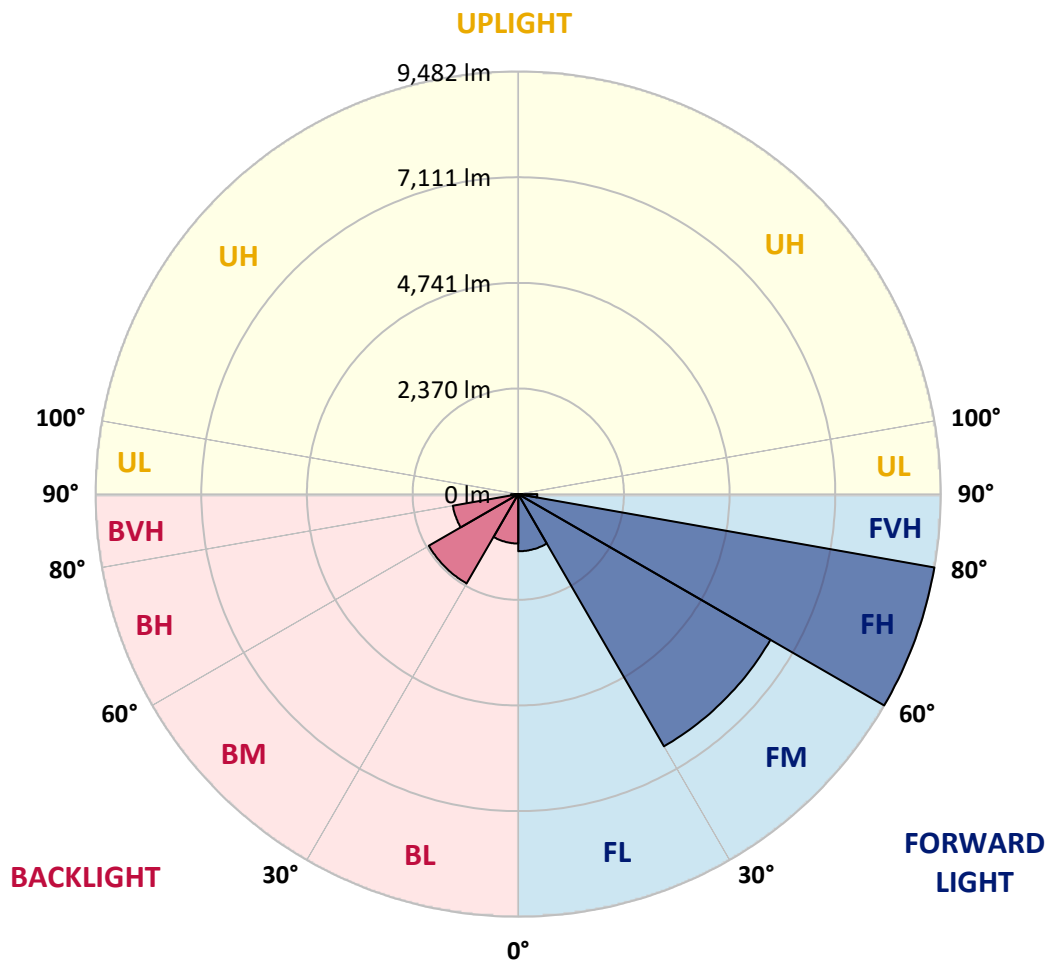
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.4	5.6			
FM (30°-60°)	6534.0	28.7			
FH (60°-80°)	9481.7	41.6			G4/12000
FVH (80°-90°)	428.3	1.9			G3/500
BL (0°-30°)	1108.2	4.9	B3/2500		
BM (30°-60°)	2316.4	10.2	B2/2500		
BH (60°-80°)	1490.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	160.1	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1
2.5°	2473.5	2488.2	2473.5	2471.0	2446.4	2429.2	2444.0	2421.8	2397.3	2387.4	2365.3
5°	2699.7	2702.1	2675.1	2677.6	2625.9	2571.8	2581.7	2515.3	2444.0	2416.9	2372.7
7.5°	2930.8	2903.8	2864.4	2852.1	2771.0	2712.0	2704.6	2645.6	2535.0	2473.5	2412.0
10°	3080.8	3090.6	3026.7	2972.6	2903.8	2832.5	2830.0	2719.4	2655.4	2564.5	2485.8
12.5°	3213.6	3216.0	3161.9	3075.9	2989.8	2901.3	2913.6	2864.4	2756.2	2670.2	2591.5
15°	3316.8	3302.1	3243.1	3164.4	3073.4	3004.6	2997.2	2955.4	2864.4	2793.1	2662.8
17.5°	3346.3	3339.0	3279.9	3196.4	3107.8	3056.2	3075.9	3007.0	2970.1	2906.2	2780.8
20°	3289.8	3272.6	3262.7	3169.3	3105.4	3100.5	3083.2	3098.0	3036.5	2977.5	2886.5
22.5°	3186.5	3179.1	3174.2	3100.5	3071.0	3093.1	3122.6	3144.7	3134.9	3078.3	2975.1
25°	3080.8	3115.2	3083.2	3048.8	3090.6	3147.2	3139.8	3211.1	3211.1	3193.9	3107.8
27.5°	3154.6	3132.4	3107.8	3090.6	3105.4	3193.9	3189.0	3275.0	3307.0	3275.0	3176.7
30°	3339.0	3316.8	3245.5	3169.3	3149.6	3245.5	3270.1	3346.3	3361.1	3282.4	3198.8
32.5°	3685.6	3673.3	3560.2	3336.5	3216.0	3270.1	3282.4	3368.5	3356.2	3307.0	3272.6
35°	4199.5	4157.7	4000.4	3621.7	3356.2	3302.1	3270.1	3339.0	3385.7	3361.1	3329.1
37.5°	4762.6	4715.8	4521.6	4042.2	3609.4	3388.1	3363.5	3420.1	3474.2	3461.9	3395.5
40°	5301.0	5301.0	5126.5	4568.3	3985.6	3597.1	3602.0	3538.1	3587.3	3565.2	3577.5
42.5°	5832.1	5812.4	5741.1	5185.5	4388.8	3946.3	3867.6	3707.8	3796.3	3788.9	3806.1
45°	6370.6	6355.8	6336.1	5760.8	4966.6	4418.3	4376.5	4088.9	4170.0	4135.6	4209.3
47.5°	6800.8	6818.1	6818.1	6402.5	5583.8	5047.8	4986.3	4531.4	4686.3	4703.6	4720.8
50°	7167.2	7174.6	7167.2	7014.8	6272.2	5768.2	5642.8	5180.5	5335.4	5470.7	5628.0
52.5°	7673.7	7683.5	7649.1	7590.1	7206.5	6525.5	6385.3	5871.4	6188.6	6331.2	6614.0
55°	8298.2	8224.5	8160.5	8204.8	8104.0	7359.0	7213.9	6584.5	7061.5	7250.8	7816.3
57.5°	8413.8	8477.7	8640.0	8991.6	9136.6	8170.4	8086.8	7459.8	8047.4	8212.2	9156.3
60°	8821.9	8716.2	9114.5	9876.7	10039.0	9227.6	9141.6	8418.7	9028.5	9200.6	10393.1
62.5°	9089.9	9085.0	9675.1	10579.9	10948.7	10324.2	10149.6	9665.3	10088.2	10255.4	11740.4
65°	9011.2	9082.6	10130.0	10993.0	11708.5	11570.8	11470.0	10737.3	11295.4	11280.7	12618.2
67.5°	8293.3	8494.9	9842.3	11290.5	12839.5	13090.3	13058.3	12244.5	12276.4	11964.2	13009.1
70°	7297.5	7228.7	8625.2	10980.7	13405.0	14892.5	14885.2	13365.7	13159.1	12114.2	11888.0
72°	5605.9	5529.7	6677.9	9429.2	13107.5	15612.9	15834.2	14142.6	13149.3	11492.1	9820.2
72.5°	5089.6	5023.2	6166.5	8876.0	12778.0	15799.8	15696.5	14172.1	13046.0	11199.5	9173.5
75°	2343.2	2266.9	3080.8	5433.8	9967.7	14000.0	14351.6	13262.4	11393.8	8915.4	5495.3
77.5°	698.3	676.2	990.9	2193.2	5792.8	10314.4	10449.6	10007.0	7954.0	4883.0	2038.3
80°	388.5	390.9	511.4	821.2	2547.2	5962.4	6449.3	6181.2	3902.0	1612.9	678.6
82.5°	216.4	228.7	319.6	486.8	1170.4	2736.6	2945.6	2839.8	1411.3	757.3	371.3
85°	113.1	118.0	167.2	260.6	663.9	865.5	890.1	954.0	732.7	516.3	199.2
87.5°	44.3	44.3	61.5	108.2	245.9	268.0	241.0	292.6	420.4	334.4	98.3
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°	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1	2348.1
2.5°	2385.0	2365.3	2362.8	2330.9	2340.7	2313.7	2316.1	2311.2	2313.7	2308.7	2296.5
5°	2372.7	2357.9	2316.1	2343.2	2318.6	2353.0	2380.1	2370.2	2377.6	2375.1	2377.6
7.5°	2389.9	2370.2	2365.3	2350.5	2372.7	2387.4	2409.6	2471.0	2466.1	2473.5	2488.2
10°	2441.5	2419.4	2404.6	2426.8	2414.5	2461.2	2485.8	2517.7	2574.3	2576.7	2547.2
12.5°	2542.3	2527.6	2498.1	2503.0	2544.8	2559.5	2574.3	2594.0	2630.8	2623.5	2650.5
15°	2657.9	2625.9	2608.7	2603.8	2613.6	2630.8	2628.4	2648.1	2667.7	2684.9	2677.6
17.5°	2741.5	2699.7	2704.6	2729.2	2726.7	2721.8	2689.9	2680.0	2689.9	2699.7	2694.8
20°	2827.5	2832.5	2795.6	2773.4	2763.6	2714.4	2689.9	2660.3	2630.8	2645.6	2667.7
22.5°	2935.7	2913.6	2859.5	2793.1	2743.9	2714.4	2638.2	2586.6	2586.6	2601.3	2594.0
25°	3058.7	3011.9	2918.5	2798.0	2736.6	2611.2	2557.1	2549.7	2530.0	2552.2	2562.0
27.5°	3154.6	3112.8	2984.9	2780.8	2611.2	2510.4	2478.4	2468.6	2500.5	2503.0	2542.3
30°	3193.9	3181.6	2994.7	2736.6	2483.3	2321.0	2301.4	2345.6	2380.1	2431.7	2434.1
32.5°	3245.5	3250.4	3009.5	2633.3	2316.1	2153.8	2124.3	2178.4	2276.8	2318.6	2350.5
35°	3331.6	3356.2	2997.2	2505.4	2139.1	1984.2	1979.3	1994.0	2089.9	2163.7	2205.5
37.5°	3481.6	3476.6	2994.7	2353.0	1998.9	1836.7	1797.3	1802.2	1866.2	1927.6	1920.3
40°	3683.2	3663.5	2987.4	2153.8	1817.0	1711.3	1644.9	1620.3	1615.4	1598.2	1603.1
42.5°	3958.6	3919.2	2984.9	1952.2	1652.3	1539.2	1492.4	1428.5	1381.8	1293.3	1298.2
45°	4342.1	4273.3	2921.0	1762.9	1490.0	1396.6	1325.3	1278.5	1177.7	1067.1	1067.1
47.5°	4934.7	4710.9	2923.4	1553.9	1332.6	1256.4	1207.2	1126.1	1017.9	929.4	919.6
50°	5807.5	5296.1	2839.8	1389.2	1204.8	1153.1	1101.5	1008.1	904.8	843.3	850.7
52.5°	6933.6	6169.0	2837.4	1241.7	1104.0	1067.1	1010.5	926.9	850.7	811.4	796.6
55°	8276.1	7324.6	2925.9	1121.2	1000.7	981.0	956.4	887.6	813.8	779.4	777.0
57.5°	9650.5	8453.1	3068.5	1035.1	912.2	926.9	909.7	855.6	796.6	757.3	752.4
60°	10872.5	9348.1	2780.8	931.9	833.5	865.5	890.1	843.3	811.4	808.9	791.7
62.5°	11794.5	9731.7	2114.5	853.2	791.7	850.7	917.1	946.6	931.9	951.5	954.0
65°	12131.4	9500.5	1455.6	811.4	759.7	885.1	1032.7	1022.8	936.8	899.9	919.6
67.5°	11659.3	8563.8	1079.4	762.2	737.6	956.4	1099.1	976.1	845.8	840.9	826.1
70°	10026.7	7258.2	880.2	710.6	700.7	917.1	1069.5	904.8	796.6	764.7	749.9
72°	7988.4	5652.6	772.0	673.7	641.7	818.8	1000.7	848.3	754.8	715.5	698.3
72.5°	7292.6	5239.6	757.3	656.5	629.4	796.6	966.3	831.1	745.0	710.6	683.5
75°	4000.4	2682.5	666.3	602.4	531.1	688.4	895.0	779.4	703.2	654.0	649.1
77.5°	1487.5	1040.0	575.3	533.5	459.8	595.0	813.8	740.1	639.3	577.8	565.5
80°	570.4	548.3	469.6	449.9	386.0	521.3	749.9	663.9	543.4	481.9	462.2
82.5°	346.7	319.6	356.5	351.6	295.0	474.5	705.7	622.1	481.9	390.9	378.6
85°	189.3	189.3	248.3	238.5	206.5	378.6	533.5	413.1	304.9	250.8	255.7
87.5°	83.6	98.3	132.8	125.4	113.1	213.9	260.6	218.8	152.4	103.3	110.6
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)