

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: P478489

Luminaire Tested: **IFLD-M-SA4B-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478489
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

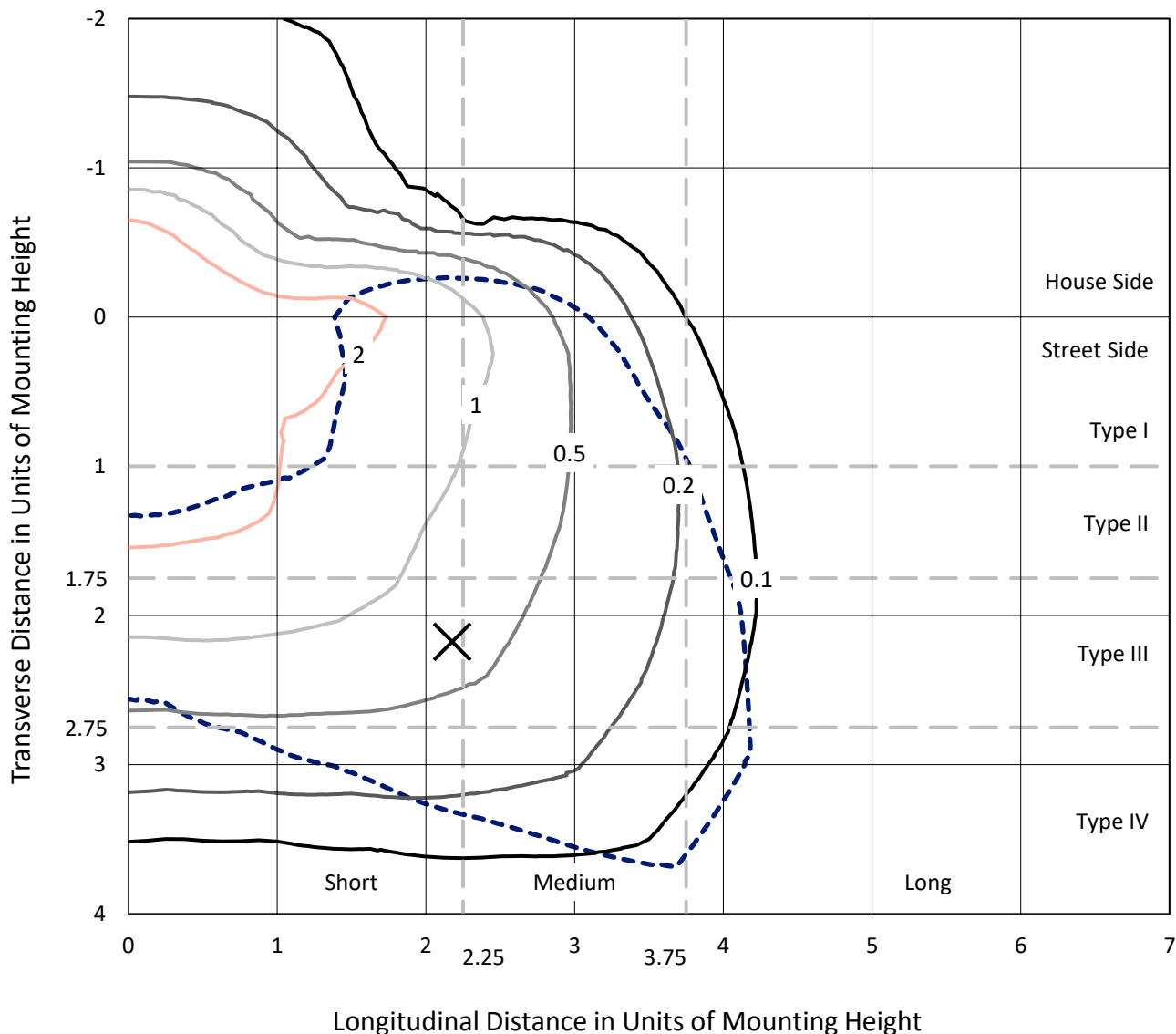
Lumens per Lamp: N/A
Luminaire Lumens: 21021.8 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

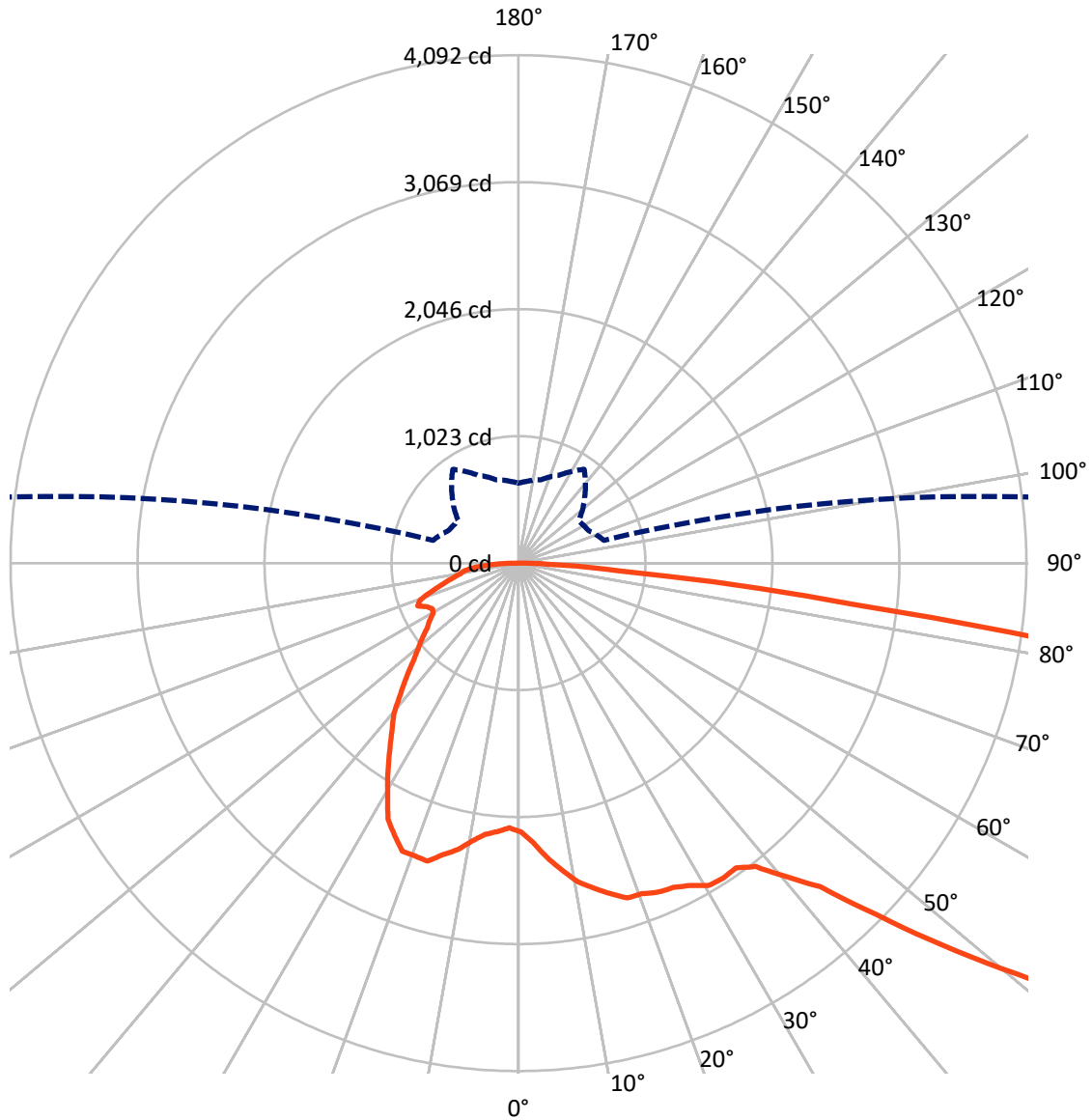
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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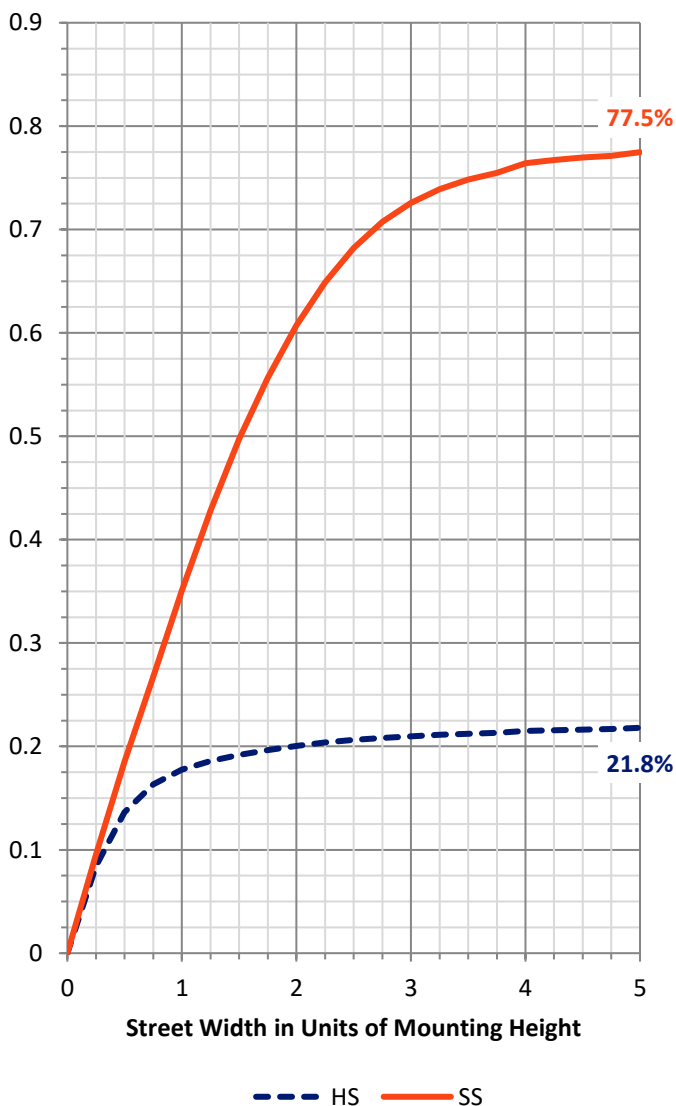
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4679.6	0.0	4679.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16342.2	0.0	16342.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	21021.8	0.0	21021.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.1
10°-20°	737.0	3.5
20°-30°	1244.6	5.9
30°-40°	1722.4	8.2
40°-50°	2463.7	11.7
50°-60°	3973.7	18.9
60°-70°	5860.6	27.9
70°-80°	4255.8	20.2
80°-90°	542.5	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°	21021.8	100.0
0°-180°	21021.8	100.0

Coefficient of Utilization



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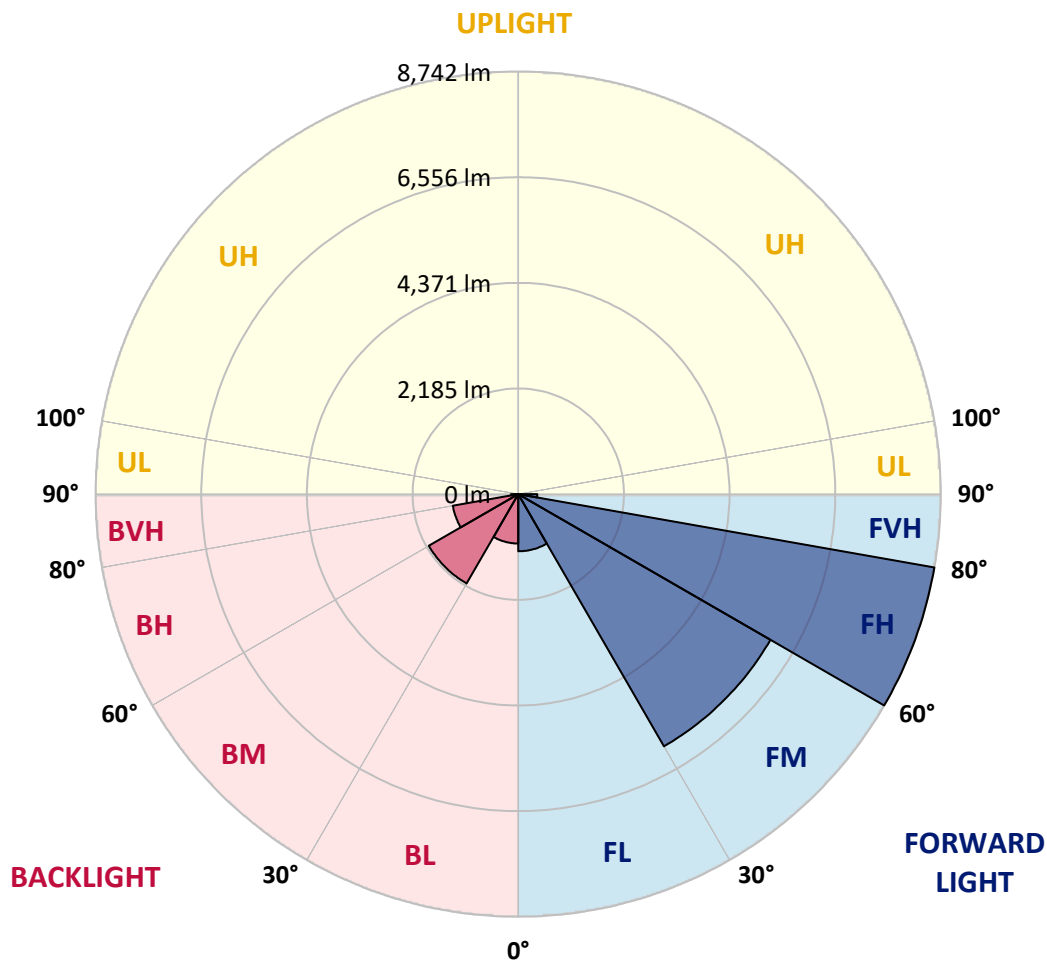
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.4	5.6			
FM (30°-60°)	6024.1	28.7			
FH (60°-80°)	8741.8	41.6			G4/12000
FVH (80°-90°)	394.9	1.9			G3/500
BL (0°-30°)	1021.8	4.9	B3/2500		
BM (30°-60°)	2135.6	10.2	B2/2500		
BH (60°-80°)	1374.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	147.6	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°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9
2.5°	2280.5	2294.1	2280.5	2278.2	2255.5	2239.7	2253.3	2232.9	2210.2	2201.1	2180.7
5°	2489.0	2491.3	2466.4	2468.6	2421.0	2371.1	2380.2	2319.0	2253.3	2228.3	2187.5
7.5°	2702.1	2677.2	2640.9	2629.6	2554.8	2500.4	2493.6	2439.2	2337.1	2280.5	2223.8
10°	2840.4	2849.5	2790.5	2740.6	2677.2	2611.4	2609.2	2507.2	2448.2	2364.3	2291.8
12.5°	2962.8	2965.1	2915.2	2835.9	2756.5	2674.9	2686.2	2640.9	2541.2	2461.8	2389.3
15°	3058.0	3044.4	2990.0	2917.5	2833.6	2770.1	2763.3	2724.8	2640.9	2575.2	2455.0
17.5°	3085.2	3078.4	3024.0	2946.9	2865.3	2817.7	2835.9	2772.4	2738.4	2679.4	2563.8
20°	3033.1	3017.2	3008.1	2922.0	2863.1	2858.5	2842.7	2856.3	2799.6	2745.2	2661.3
22.5°	2937.9	2931.1	2926.5	2858.5	2831.3	2851.7	2878.9	2899.3	2890.3	2838.1	2742.9
25°	2840.4	2872.1	2842.7	2810.9	2849.5	2901.6	2894.8	2960.5	2960.5	2944.7	2865.3
27.5°	2908.4	2888.0	2865.3	2849.5	2863.1	2944.7	2940.1	3019.5	3048.9	3019.5	2928.8
30°	3078.4	3058.0	2992.3	2922.0	2903.9	2992.3	3014.9	3085.2	3098.8	3026.3	2949.2
32.5°	3398.0	3386.7	3282.4	3076.1	2965.1	3014.9	3026.3	3105.6	3094.3	3048.9	3017.2
35°	3871.8	3833.3	3688.2	3339.1	3094.3	3044.4	3014.9	3078.4	3121.5	3098.8	3069.3
37.5°	4390.9	4347.9	4168.8	3726.7	3327.8	3123.8	3101.1	3153.2	3203.1	3191.8	3130.6
40°	4887.4	4887.4	4726.4	4211.9	3674.6	3316.4	3321.0	3262.0	3307.4	3287.0	3298.3
42.5°	5377.0	5358.9	5293.1	4780.8	4046.4	3638.3	3565.8	3418.4	3500.1	3493.3	3509.1
45°	5873.5	5859.9	5841.7	5311.3	4579.1	4073.6	4035.0	3769.8	3844.6	3812.9	3880.9
47.5°	6270.2	6286.0	6286.0	5902.9	5148.1	4653.9	4597.2	4177.8	4320.7	4336.5	4352.4
50°	6607.9	6614.7	6607.9	6467.4	5782.8	5318.1	5202.5	4776.3	4919.1	5043.8	5188.9
52.5°	7074.9	7084.0	7052.2	6997.8	6644.2	6016.3	5887.1	5413.3	5705.7	5837.2	6097.9
55°	7650.7	7582.7	7523.8	7564.6	7471.6	6784.8	6651.0	6070.7	6510.5	6685.0	7206.4
57.5°	7757.2	7816.2	7965.8	8290.0	8423.7	7532.8	7455.7	6877.7	7419.5	7571.4	8441.8
60°	8133.5	8036.1	8403.3	9106.0	9255.6	8507.6	8428.2	7761.8	8324.0	8482.6	9582.1
62.5°	8380.6	8376.1	8920.1	9754.4	10094.4	9518.6	9357.7	8911.1	9301.0	9455.1	10824.3
65°	8308.1	8373.8	9339.5	10135.2	10794.9	10667.9	10575.0	9899.4	10414.0	10400.4	11633.6
67.5°	7646.2	7832.0	9074.3	10409.5	11837.6	12068.8	12039.4	11289.0	11318.5	11030.6	11994.0
70°	6728.1	6664.6	7952.2	10123.9	12359.0	13730.5	13723.7	12322.7	12132.3	11168.9	10960.3
72°	5168.5	5098.2	6156.8	8693.5	12084.7	14394.6	14598.7	13039.1	12123.2	10595.4	9053.9
72.5°	4692.4	4631.2	5685.3	8183.4	11780.9	14566.9	14471.7	13066.3	12028.0	10325.6	8457.7
75°	2160.3	2090.1	2840.4	5009.8	9189.9	12907.6	13231.7	12227.5	10504.7	8219.7	5066.5
77.5°	643.8	623.4	913.5	2022.1	5340.8	9509.5	9634.2	9226.2	7333.3	4502.0	1879.2
80°	358.2	360.4	471.5	757.1	2348.5	5497.2	5946.0	5698.9	3597.5	1487.1	625.7
82.5°	199.5	210.8	294.7	448.8	1079.0	2523.0	2715.7	2618.2	1301.2	698.2	342.3
85°	104.3	108.8	154.1	240.3	612.1	797.9	820.6	879.5	675.5	476.0	183.6
87.5°	40.8	40.8	56.7	99.7	226.7	247.1	222.2	269.8	387.6	308.3	90.7
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°	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9	2164.9
2.5°	2198.9	2180.7	2178.5	2149.0	2158.1	2133.1	2135.4	2130.9	2133.1	2128.6	2117.3
5°	2187.5	2173.9	2135.4	2160.3	2137.7	2169.4	2194.3	2185.3	2192.1	2189.8	2192.1
7.5°	2203.4	2185.3	2180.7	2167.1	2187.5	2201.1	2221.5	2278.2	2273.7	2280.5	2294.1
10°	2251.0	2230.6	2217.0	2237.4	2226.1	2269.1	2291.8	2321.3	2373.4	2375.7	2348.5
12.5°	2343.9	2330.3	2303.1	2307.7	2346.2	2359.8	2373.4	2391.6	2425.6	2418.8	2443.7
15°	2450.5	2421.0	2405.2	2400.6	2409.7	2425.6	2423.3	2441.4	2459.6	2475.4	2468.6
17.5°	2527.6	2489.0	2493.6	2516.2	2514.0	2509.4	2480.0	2470.9	2480.0	2489.0	2484.5
20°	2606.9	2611.4	2577.4	2557.0	2548.0	2502.6	2480.0	2452.8	2425.6	2439.2	2459.6
22.5°	2706.6	2686.2	2636.4	2575.2	2529.8	2502.6	2432.4	2384.8	2384.8	2398.4	2391.6
25°	2820.0	2776.9	2690.8	2579.7	2523.0	2407.4	2357.5	2350.7	2332.6	2353.0	2362.1
27.5°	2908.4	2869.9	2752.0	2563.8	2407.4	2314.5	2285.0	2275.9	2305.4	2307.7	2343.9
30°	2944.7	2933.3	2761.1	2523.0	2289.5	2139.9	2121.8	2162.6	2194.3	2241.9	2244.2
32.5°	2992.3	2996.8	2774.7	2427.8	2135.4	1985.8	1958.6	2008.4	2099.1	2137.7	2167.1
35°	3071.6	3094.3	2763.3	2309.9	1972.2	1829.4	1824.8	1838.4	1926.8	1994.8	2033.4
37.5°	3209.9	3205.4	2761.1	2169.4	1843.0	1693.4	1657.1	1661.6	1720.6	1777.2	1770.4
40°	3395.8	3377.6	2754.3	1985.8	1675.2	1577.7	1516.5	1493.9	1489.3	1473.5	1478.0
42.5°	3649.7	3613.4	2752.0	1799.9	1523.3	1419.1	1376.0	1317.1	1274.0	1192.4	1196.9
45°	4003.3	3939.8	2693.0	1625.3	1373.7	1287.6	1221.8	1178.8	1085.8	983.8	983.8
47.5°	4549.6	4343.3	2695.3	1432.7	1228.6	1158.4	1113.0	1038.2	938.5	856.9	847.8
50°	5354.4	4882.8	2618.2	1280.8	1110.8	1063.2	1015.6	929.4	834.2	777.5	784.3
52.5°	6392.6	5687.6	2616.0	1144.8	1017.8	983.8	931.7	854.6	784.3	748.1	734.5
55°	7630.3	6753.0	2697.6	1033.7	922.6	904.5	881.8	818.3	750.3	718.6	716.3
57.5°	8897.5	7793.5	2829.1	954.4	841.0	854.6	838.7	788.9	734.5	698.2	693.7
60°	10024.1	8618.7	2563.8	859.1	768.5	797.9	820.6	777.5	748.1	745.8	729.9
62.5°	10874.2	8972.3	1949.5	786.6	729.9	784.3	845.5	872.7	859.1	877.3	879.5
65°	11184.8	8759.2	1342.0	748.1	700.5	816.1	952.1	943.0	863.7	829.7	847.8
67.5°	10749.5	7895.5	995.2	702.7	680.1	881.8	1013.3	899.9	779.8	775.3	761.7
70°	9244.3	6691.8	811.5	655.1	646.1	845.5	986.1	834.2	734.5	705.0	691.4
72°	7365.1	5211.5	711.8	621.1	591.7	754.9	922.6	782.1	695.9	659.7	643.8
72.5°	6723.5	4830.7	698.2	605.3	580.3	734.5	890.9	766.2	686.9	655.1	630.2
75°	3688.2	2473.2	614.3	555.4	489.6	634.7	825.1	718.6	648.3	603.0	598.5
77.5°	1371.5	958.9	530.4	491.9	423.9	548.6	750.3	682.3	589.4	532.7	521.4
80°	525.9	505.5	433.0	414.8	355.9	480.6	691.4	612.1	501.0	444.3	426.2
82.5°	319.6	294.7	328.7	324.2	272.0	437.5	650.6	573.5	444.3	360.4	349.1
85°	174.5	174.5	229.0	219.9	190.4	349.1	491.9	380.8	281.1	231.2	235.8
87.5°	77.1	90.7	122.4	115.6	104.3	197.2	240.3	201.8	140.5	95.2	102.0
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)