

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: P478471

Luminaire Tested: **IFLD-S-SA3D-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478471
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

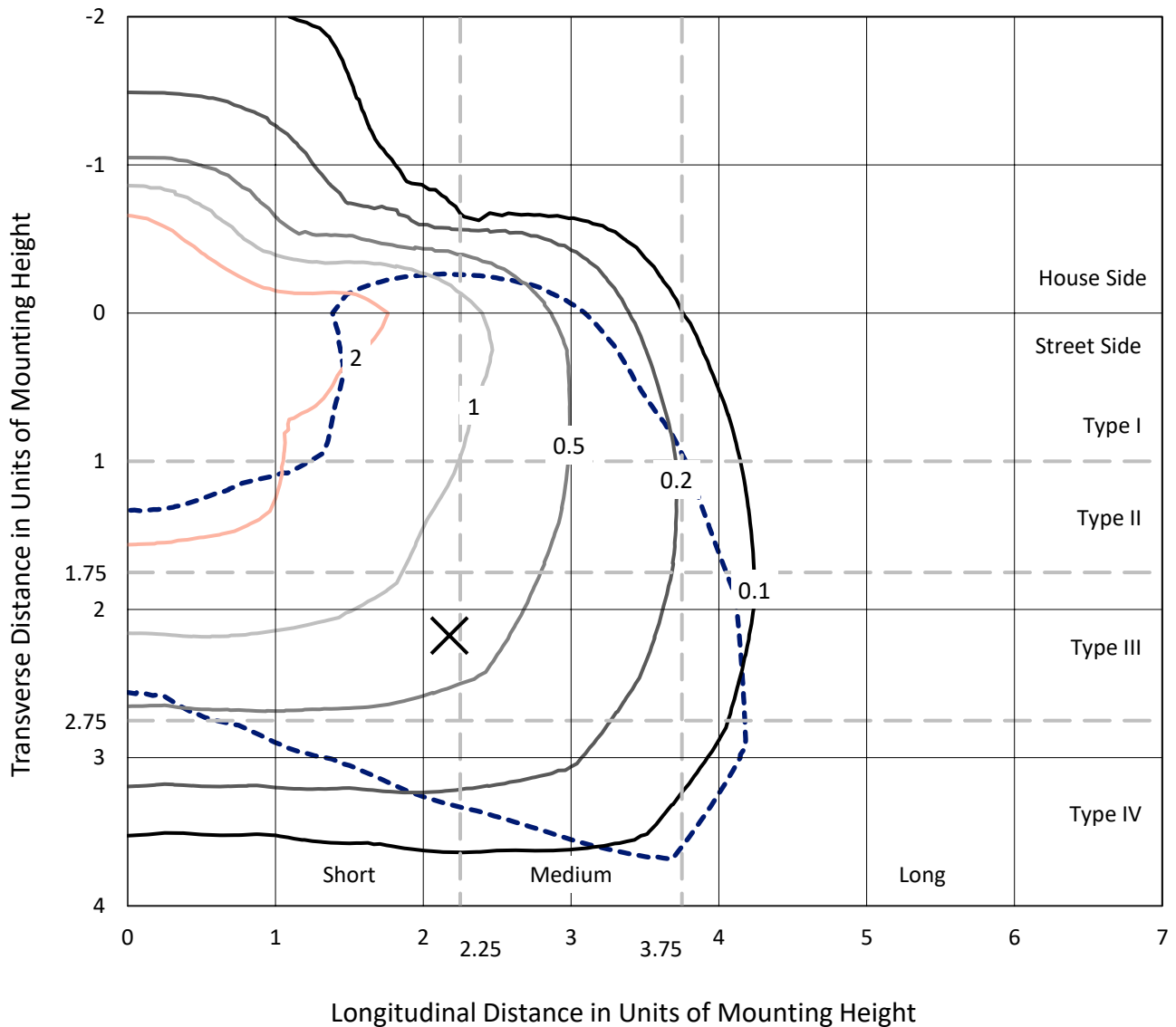
Lumens per Lamp: N/A
Luminaire Lumens: 21452.1 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

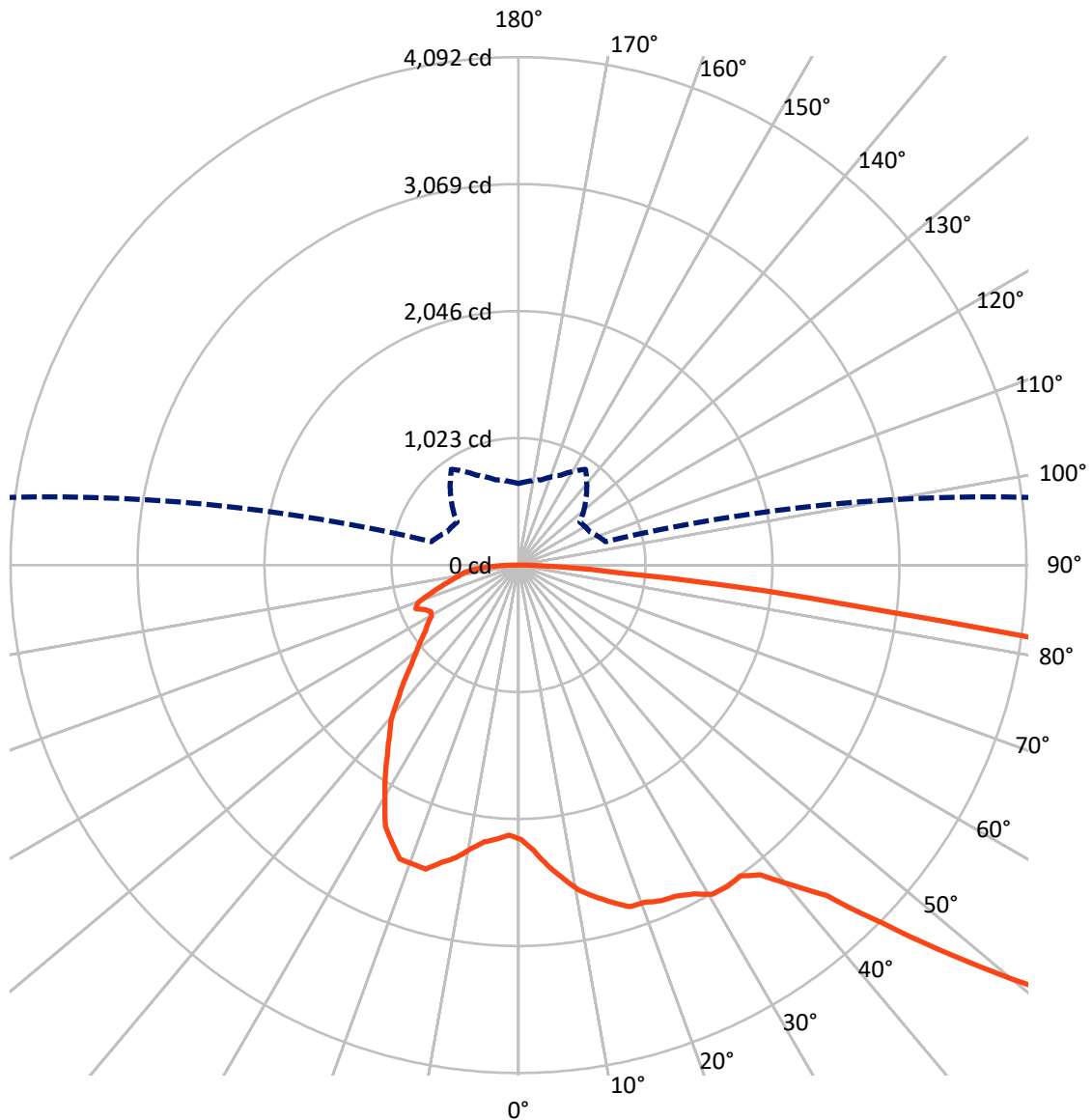
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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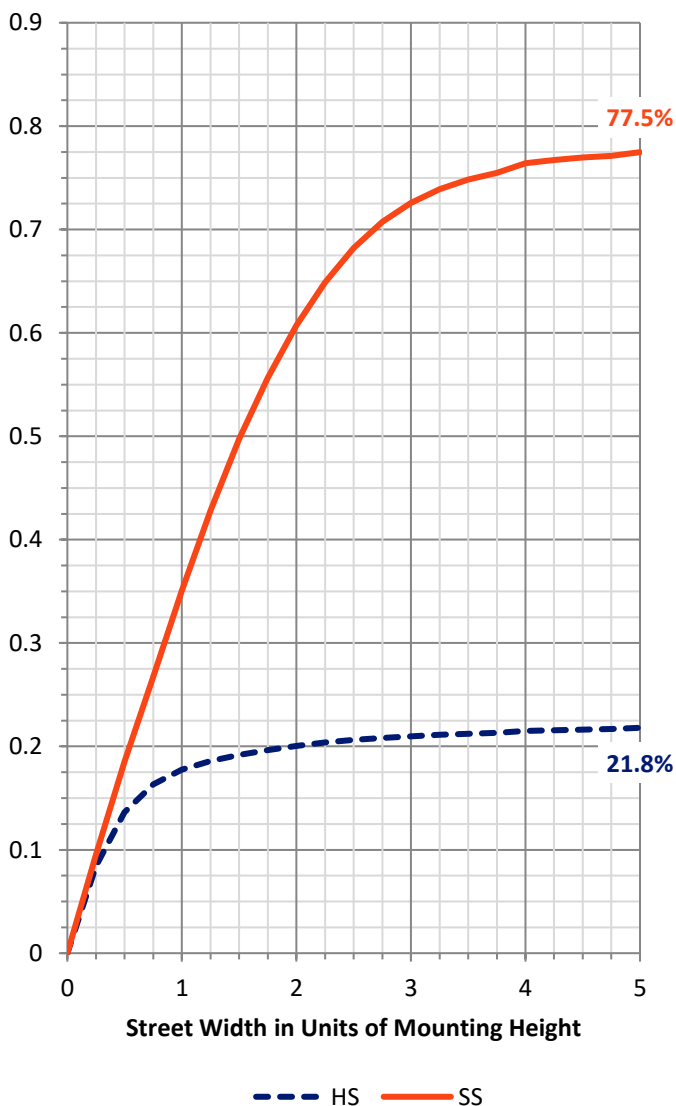
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4775.4	0.0	4775.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16676.8	0.0	16676.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	21452.1	0.0	21452.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	1.1
10°-20°	752.1	3.5
20°-30°	1270.1	5.9
30°-40°	1757.6	8.2
40°-50°	2514.1	11.7
50°-60°	4055.0	18.9
60°-70°	5980.6	27.9
70°-80°	4342.9	20.2
80°-90°	553.6	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°	21452.1	100.0
0°-180°	21452.1	100.0

Coefficient of Utilization



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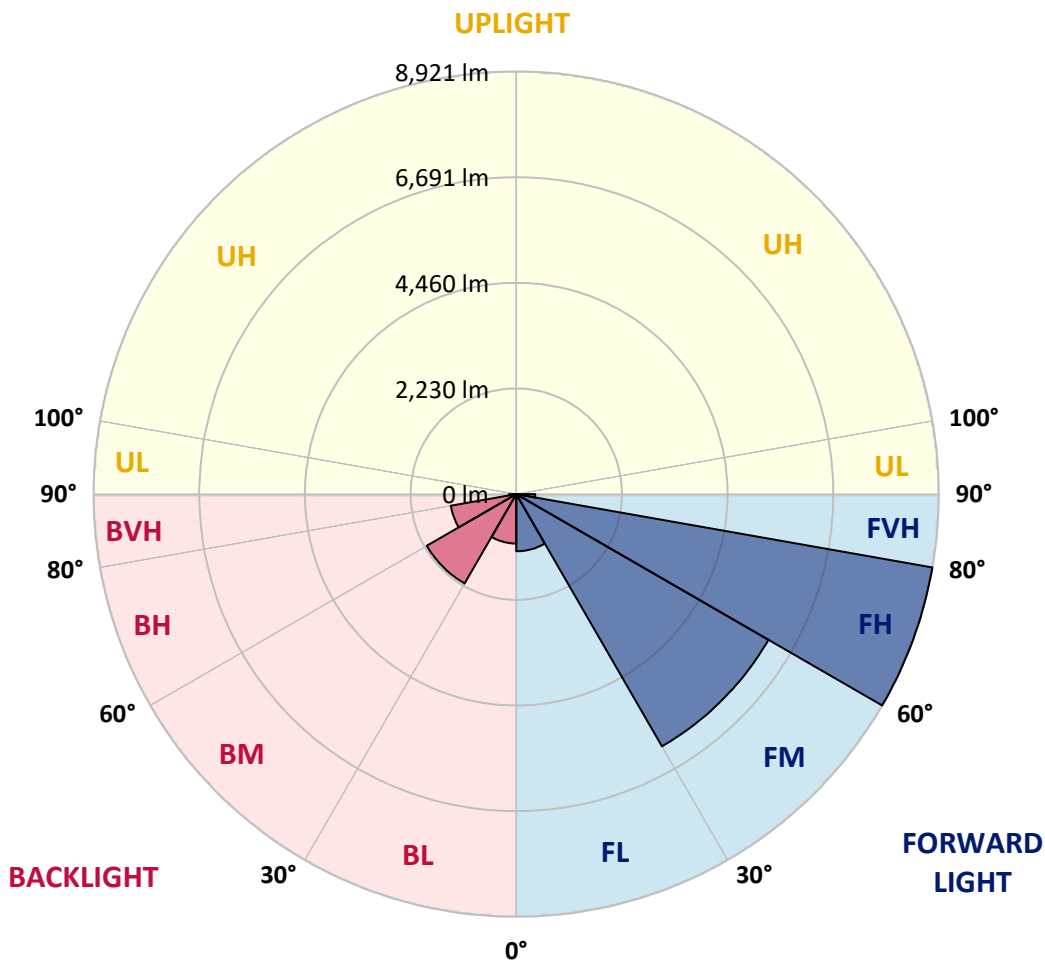
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.6	5.6			
FM (30°-60°)	6147.4	28.7			
FH (60°-80°)	8920.8	41.6			G4/12000
FVH (80°-90°)	402.9	1.9			G3/500
BL (0°-30°)	1042.7	4.9	B3/2500		
BM (30°-60°)	2179.3	10.2	B2/2500		
BH (60°-80°)	1402.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	150.7	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°	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2
2.5°	2327.2	2341.0	2327.2	2324.8	2301.7	2285.5	2299.4	2278.6	2255.4	2246.2	2225.4
5°	2540.0	2542.3	2516.8	2519.2	2470.6	2419.7	2428.9	2366.5	2299.4	2274.0	2232.3
7.5°	2757.4	2732.0	2695.0	2683.4	2607.1	2551.5	2544.6	2489.1	2385.0	2327.2	2269.3
10°	2898.5	2907.8	2847.6	2796.8	2732.0	2664.9	2662.6	2558.5	2498.3	2412.8	2338.7
12.5°	3023.5	3025.8	2974.9	2893.9	2812.9	2729.7	2741.2	2695.0	2593.2	2512.2	2438.2
15°	3120.6	3106.7	3051.2	2977.2	2891.6	2826.8	2819.9	2780.6	2695.0	2627.9	2505.3
17.5°	3148.4	3141.4	3085.9	3007.3	2924.0	2875.4	2893.9	2829.1	2794.4	2734.3	2616.3
20°	3095.2	3079.0	3069.7	2981.8	2921.7	2917.0	2900.9	2914.7	2856.9	2801.4	2715.8
22.5°	2998.0	2991.1	2986.4	2917.0	2889.3	2910.1	2937.9	2958.7	2949.4	2896.2	2799.1
25°	2898.5	2930.9	2900.9	2868.5	2907.8	2961.0	2954.1	3021.1	3021.1	3005.0	2924.0
27.5°	2967.9	2947.1	2924.0	2907.8	2921.7	3005.0	3000.3	3081.3	3111.4	3081.3	2988.8
30°	3141.4	3120.6	3053.5	2981.8	2963.3	3053.5	3076.7	3148.4	3162.3	3088.2	3009.6
32.5°	3467.6	3456.0	3349.6	3139.1	3025.8	3076.7	3088.2	3169.2	3157.6	3111.4	3079.0
35°	3951.1	3911.8	3763.7	3407.5	3157.6	3106.7	3076.7	3141.4	3185.4	3162.3	3132.2
37.5°	4480.8	4436.9	4254.1	3803.0	3395.9	3187.7	3164.6	3217.8	3268.7	3257.1	3194.6
40°	4987.4	4987.4	4823.2	4298.1	3749.8	3384.3	3389.0	3328.8	3375.1	3354.3	3365.8
42.5°	5487.1	5468.6	5401.5	4878.7	4129.2	3712.8	3638.8	3488.4	3571.7	3564.8	3581.0
45°	5993.7	5979.8	5961.3	5420.0	4672.8	4157.0	4117.6	3847.0	3923.3	3890.9	3960.3
47.5°	6398.5	6414.7	6414.7	6023.8	5253.5	4749.2	4691.3	4263.4	4409.1	4425.3	4441.5
50°	6743.2	6750.2	6743.2	6599.8	5901.2	5427.0	5309.0	4874.1	5019.8	5147.0	5295.1
52.5°	7219.7	7229.0	7196.6	7141.1	6780.2	6139.4	6007.6	5524.1	5822.5	5956.7	6222.7
55°	7807.3	7737.9	7677.8	7719.4	7624.6	6923.6	6787.2	6195.0	6643.7	6821.9	7353.9
57.5°	7916.0	7976.2	8128.9	8459.7	8596.1	7687.0	7608.4	7018.5	7571.4	7726.4	8614.7
60°	8300.0	8200.6	8575.3	9292.4	9445.1	8681.7	8600.8	7920.7	8494.4	8656.3	9778.2
62.5°	8552.2	8547.6	9102.8	9954.0	10301.0	9713.5	9549.2	9093.5	9491.4	9648.7	11045.9
65°	8478.2	8545.3	9530.7	10342.7	11015.8	10886.3	10791.5	10102.1	10627.2	10613.3	11871.8
67.5°	7802.7	7992.4	9260.1	10622.6	12079.9	12315.9	12285.8	11520.1	11550.2	11256.4	12239.6
70°	6865.8	6801.0	8115.0	10331.1	12612.0	14011.5	14004.6	12575.0	12380.7	11397.5	11184.7
72°	5274.3	5202.6	6282.9	8871.4	12332.1	14689.3	14897.5	13306.0	12371.4	10812.3	9239.2
72.5°	4788.5	4726.0	5801.7	8350.9	12022.1	14865.1	14768.0	13333.7	12274.3	10537.0	8630.8
75°	2204.6	2132.8	2898.5	5112.3	9378.0	13171.8	13502.6	12477.8	10719.7	8388.0	5170.2
77.5°	657.0	636.2	932.3	2063.4	5450.1	9704.2	9831.4	9415.1	7483.5	4594.2	1917.7
80°	365.5	367.8	481.2	772.6	2396.6	5609.7	6067.7	5815.6	3671.2	1517.5	638.5
82.5°	203.6	215.1	300.7	458.0	1101.1	2574.7	2771.3	2671.8	1327.8	712.5	349.3
85°	106.4	111.0	157.3	245.2	624.6	814.3	837.4	897.6	689.4	485.8	187.4
87.5°	41.6	41.6	57.8	101.8	231.3	252.1	226.7	275.3	395.6	314.6	92.5
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°	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2	2209.2
2.5°	2243.9	2225.4	2223.1	2193.0	2202.2	2176.8	2179.1	2174.5	2176.8	2172.2	2160.6
5°	2232.3	2218.4	2179.1	2204.6	2181.4	2213.8	2239.3	2230.0	2236.9	2234.6	2236.9
7.5°	2248.5	2230.0	2225.4	2211.5	2232.3	2246.2	2267.0	2324.8	2320.2	2327.2	2341.0
10°	2297.1	2276.3	2262.4	2283.2	2271.6	2315.6	2338.7	2368.8	2422.0	2424.3	2396.6
12.5°	2391.9	2378.1	2350.3	2354.9	2394.2	2408.1	2422.0	2440.5	2475.2	2468.3	2493.7
15°	2500.7	2470.6	2454.4	2449.8	2459.0	2475.2	2472.9	2491.4	2509.9	2526.1	2519.2
17.5°	2579.3	2540.0	2544.6	2567.7	2565.4	2560.8	2530.7	2521.5	2530.7	2540.0	2535.4
20°	2660.3	2664.9	2630.2	2609.4	2600.1	2553.9	2530.7	2503.0	2475.2	2489.1	2509.9
22.5°	2762.1	2741.2	2690.3	2627.9	2581.6	2553.9	2482.1	2433.6	2433.6	2447.5	2440.5
25°	2877.7	2833.8	2745.9	2632.5	2574.7	2456.7	2405.8	2398.9	2380.4	2401.2	2410.4
27.5°	2967.9	2928.6	2808.3	2616.3	2456.7	2361.9	2331.8	2322.5	2352.6	2354.9	2391.9
30°	3005.0	2993.4	2817.6	2574.7	2336.4	2183.7	2165.2	2206.9	2239.3	2287.8	2290.1
32.5°	3053.5	3058.2	2831.5	2477.5	2179.1	2026.4	1998.7	2049.6	2142.1	2181.4	2211.5
35°	3134.5	3157.6	2819.9	2357.2	2012.6	1866.8	1862.2	1876.1	1966.3	2035.7	2075.0
37.5°	3275.6	3271.0	2817.6	2213.8	1880.7	1728.0	1691.0	1695.6	1755.8	1813.6	1806.7
40°	3465.3	3446.8	2810.6	2026.4	1709.5	1610.0	1547.6	1524.5	1519.8	1503.6	1508.3
42.5°	3724.4	3687.4	2808.3	1836.7	1554.5	1448.1	1404.2	1344.0	1300.1	1216.8	1221.4
45°	4085.3	4020.5	2748.2	1658.6	1401.8	1313.9	1246.9	1202.9	1108.1	1004.0	1004.0
47.5°	4642.8	4432.2	2750.5	1462.0	1253.8	1182.1	1135.8	1059.5	957.7	874.4	865.2
50°	5464.0	4982.8	2671.8	1307.0	1133.5	1084.9	1036.3	948.4	851.3	793.5	800.4
52.5°	6523.5	5804.0	2669.5	1168.2	1038.7	1004.0	950.8	872.1	800.4	763.4	749.5
55°	7786.5	6891.3	2752.8	1054.9	941.5	923.0	899.9	835.1	765.7	733.3	731.0
57.5°	9079.6	7953.1	2887.0	973.9	858.2	872.1	855.9	805.0	749.5	712.5	707.9
60°	10229.3	8795.1	2616.3	876.7	784.2	814.3	837.4	793.5	763.4	761.1	744.9
62.5°	11096.8	9156.0	1989.4	802.7	744.9	800.4	862.9	890.6	876.7	895.2	897.6
65°	11413.7	8938.5	1369.5	763.4	714.8	832.8	971.6	962.3	881.4	846.7	865.2
67.5°	10969.6	8057.2	1015.5	717.1	694.0	899.9	1034.0	918.4	795.8	791.1	777.3
70°	9433.6	6828.8	828.2	668.5	659.3	862.9	1006.3	851.3	749.5	719.4	705.6
72°	7515.8	5318.2	726.4	633.8	603.8	770.3	941.5	798.1	710.2	673.2	657.0
72.5°	6861.2	4929.6	712.5	617.6	592.2	749.5	909.1	781.9	700.9	668.5	643.1
75°	3763.7	2523.8	626.9	566.8	499.7	647.7	842.0	733.3	661.6	615.3	610.7
77.5°	1399.5	978.5	541.3	502.0	432.6	559.8	765.7	696.3	601.5	543.6	532.1
80°	536.7	515.9	441.8	423.3	363.2	490.4	705.6	624.6	511.2	453.4	434.9
82.5°	326.2	300.7	335.4	330.8	277.6	446.5	663.9	585.3	453.4	367.8	356.2
85°	178.1	178.1	233.6	224.4	194.3	356.2	502.0	388.6	286.8	236.0	240.6
87.5°	78.7	92.5	124.9	118.0	106.4	201.3	245.2	205.9	143.4	97.2	104.1
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)