

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: P478717

Luminaire Tested: **IFLD-S-SA6A-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478717
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

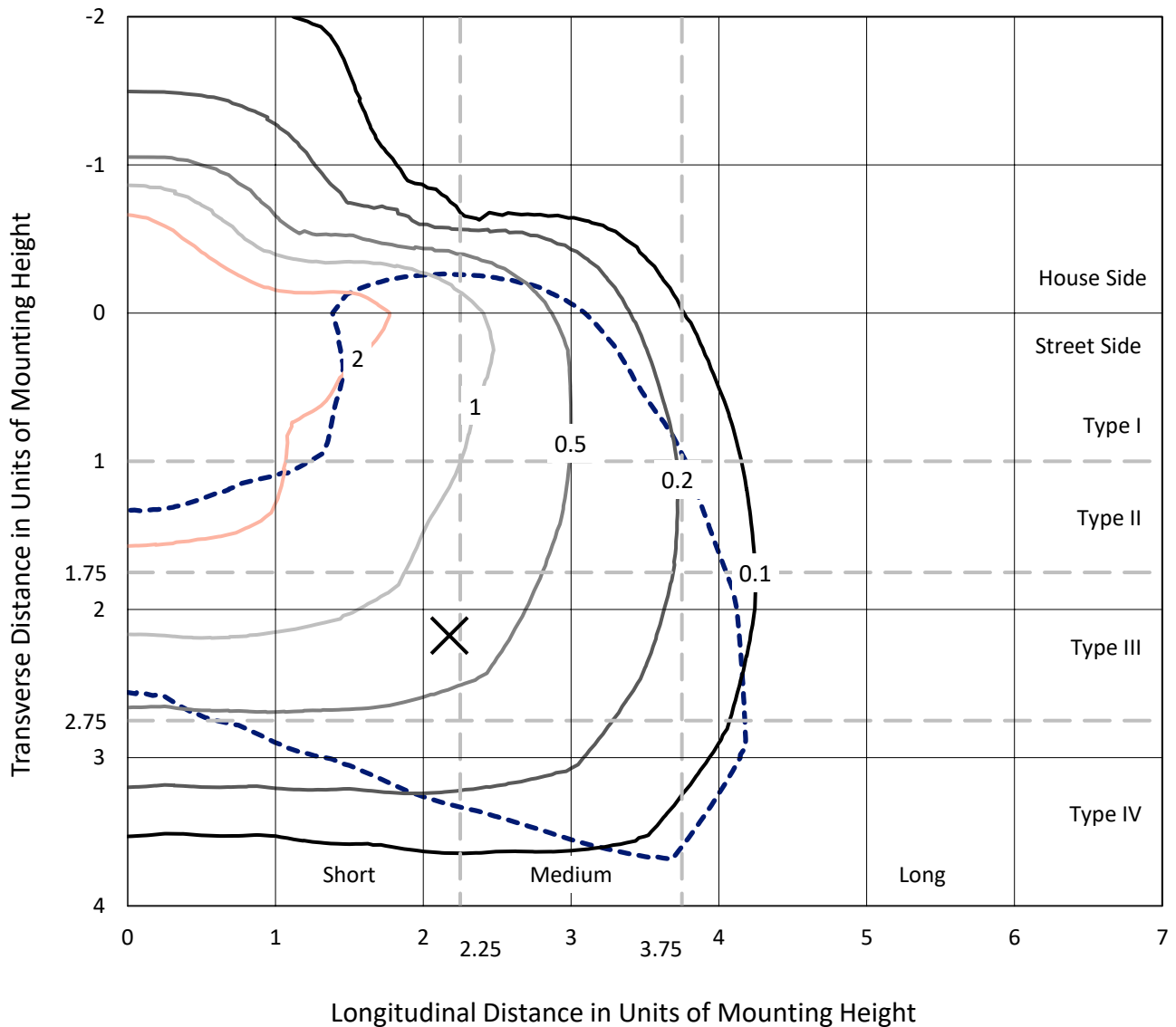
Lumens per Lamp: N/A
Luminaire Lumens: 21677.4 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

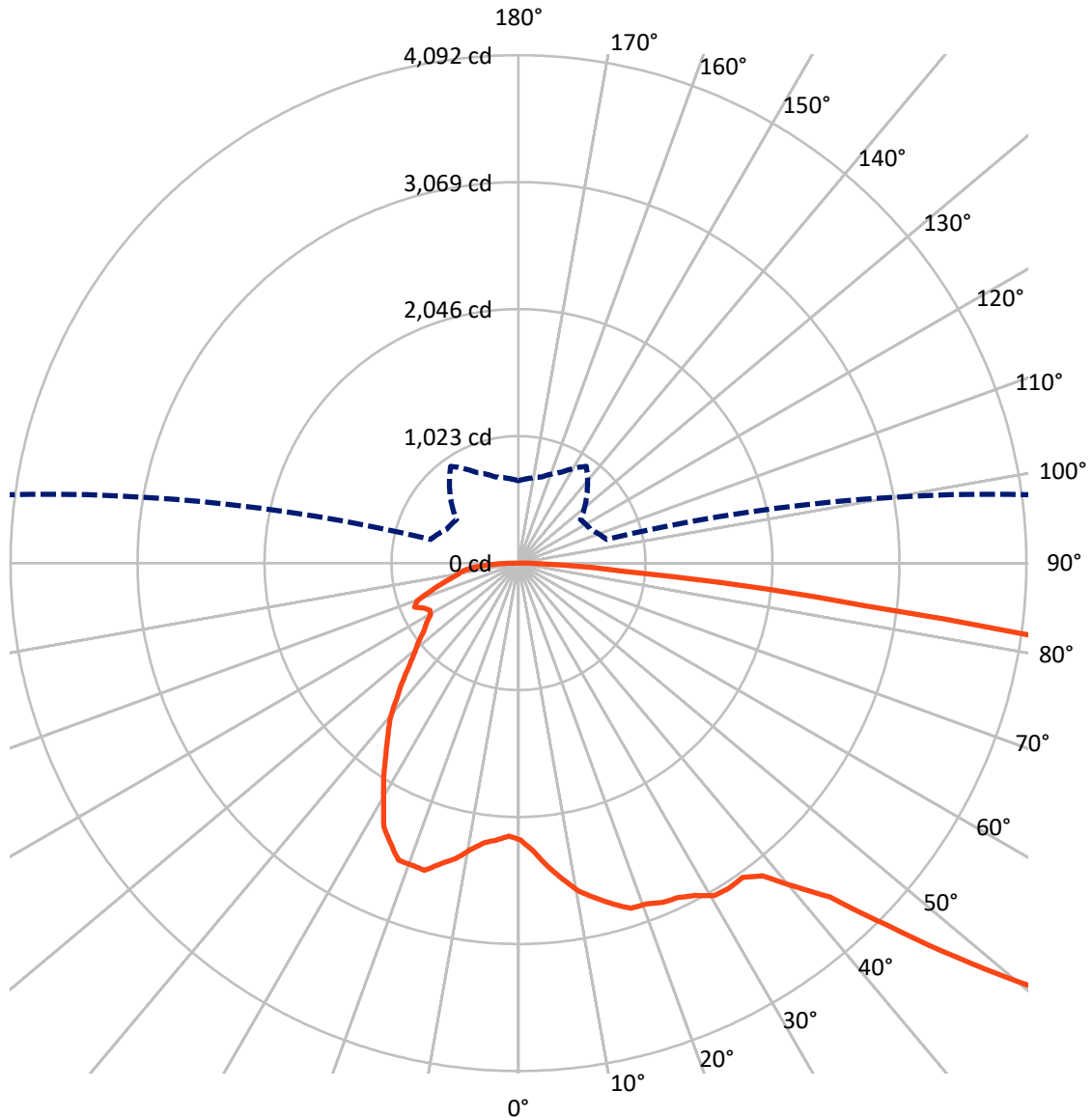
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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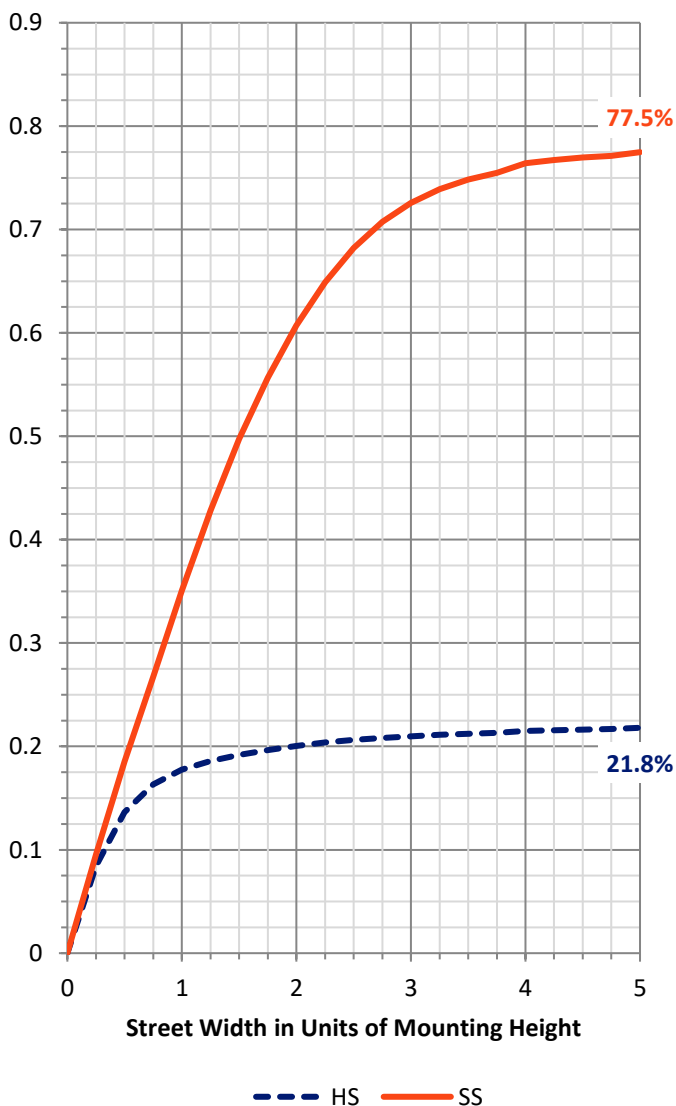
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4825.5	0.0	4825.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16851.9	0.0	16851.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	21677.4	0.0	21677.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	1.1
10°-20°	760.0	3.5
20°-30°	1283.5	5.9
30°-40°	1776.1	8.2
40°-50°	2540.5	11.7
50°-60°	4097.6	18.9
60°-70°	6043.3	27.9
70°-80°	4388.5	20.2
80°-90°	559.4	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°	21677.4	100.0
0°-180°	21677.4	100.0



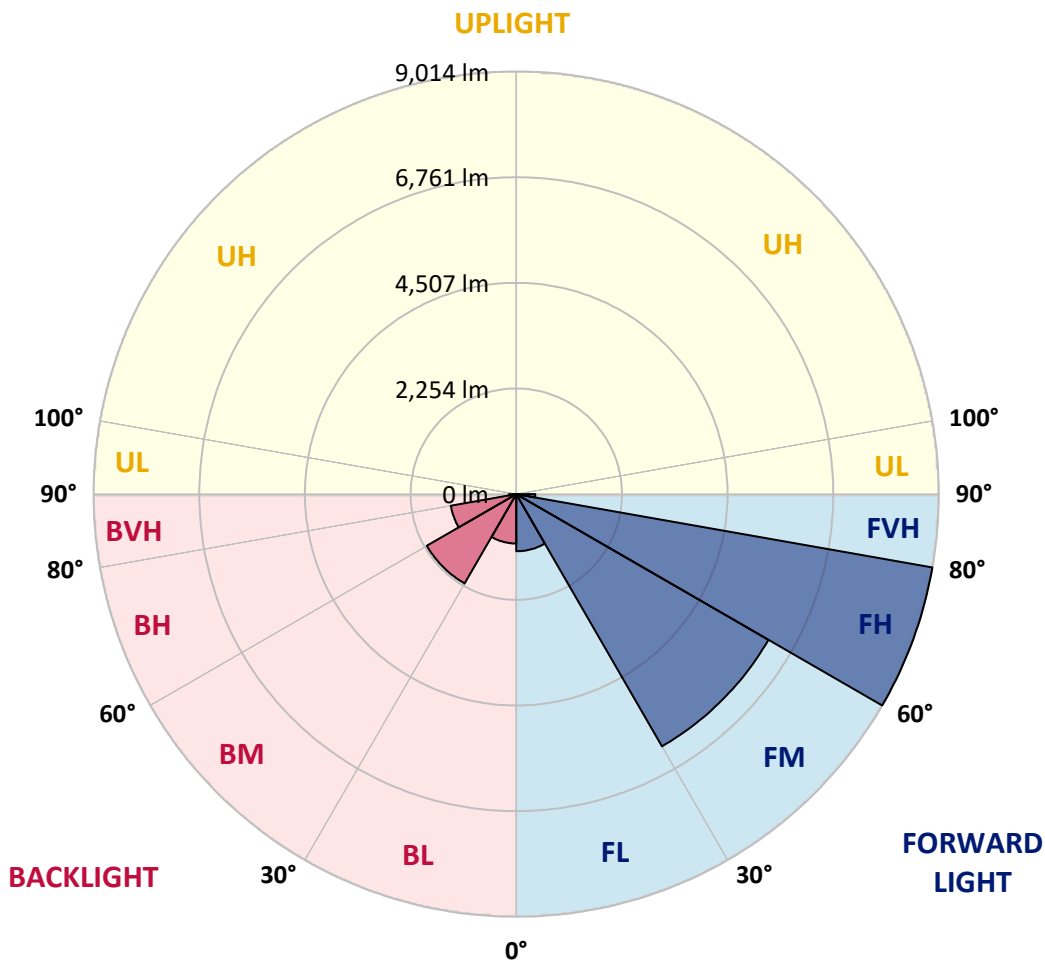
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.3	5.6			
FM (30°-60°)	6212.0	28.7			
FH (60°-80°)	9014.4	41.6			G4/12000
FVH (80°-90°)	407.2	1.9			G3/500
BL (0°-30°)	1053.6	4.9	B3/2500		
BM (30°-60°)	2202.2	10.2	B2/2500		
BH (60°-80°)	1417.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	152.2	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°	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4
2.5°	2351.6	2365.6	2351.6	2349.3	2325.9	2309.5	2323.5	2302.5	2279.1	2269.8	2248.7
5°	2566.7	2569.0	2543.3	2545.6	2496.5	2445.1	2454.4	2391.3	2323.5	2297.8	2255.8
7.5°	2786.4	2760.7	2723.3	2711.6	2634.4	2578.3	2571.3	2515.2	2410.0	2351.6	2293.2
10°	2929.0	2938.3	2877.5	2826.1	2760.7	2692.9	2690.5	2585.4	2524.6	2438.1	2363.3
12.5°	3055.2	3057.5	3006.1	2924.3	2842.5	2758.3	2770.0	2723.3	2620.4	2538.6	2463.8
15°	3153.4	3139.4	3083.3	3008.5	2922.0	2856.5	2849.5	2809.8	2723.3	2655.5	2531.6
17.5°	3181.4	3174.4	3118.3	3038.8	2954.7	2905.6	2924.3	2858.8	2823.8	2763.0	2643.8
20°	3127.7	3111.3	3102.0	3013.1	2952.4	2947.7	2931.3	2945.3	2886.9	2830.8	2744.3
22.5°	3029.5	3022.5	3017.8	2947.7	2919.6	2940.7	2968.7	2989.8	2980.4	2926.6	2828.5
25°	2929.0	2961.7	2931.3	2898.6	2938.3	2992.1	2985.1	3052.9	3052.9	3036.5	2954.7
27.5°	2999.1	2978.1	2954.7	2938.3	2952.4	3036.5	3031.8	3113.6	3144.0	3113.6	3020.1
30°	3174.4	3153.4	3085.6	3013.1	2994.4	3085.6	3109.0	3181.4	3195.5	3120.7	3041.2
32.5°	3504.0	3492.3	3384.8	3172.1	3057.5	3109.0	3120.7	3202.5	3190.8	3144.0	3111.3
35°	3992.6	3952.8	3803.2	3443.2	3190.8	3139.4	3109.0	3174.4	3218.8	3195.5	3165.1
37.5°	4527.9	4483.5	4298.8	3843.0	3431.6	3221.2	3197.8	3251.6	3303.0	3291.3	3228.2
40°	5039.8	5039.8	4873.8	4343.2	3789.2	3419.9	3424.5	3363.8	3410.5	3389.5	3401.2
42.5°	5544.7	5526.0	5458.2	4929.9	4172.6	3751.8	3677.0	3525.1	3609.2	3602.2	3618.6
45°	6056.6	6042.6	6023.9	5476.9	4721.9	4200.6	4160.9	3887.4	3964.5	3931.8	4001.9
47.5°	6465.7	6482.1	6482.1	6087.0	5308.6	4799.0	4740.6	4308.1	4455.4	4471.8	4488.1
50°	6814.0	6821.0	6814.0	6669.1	5963.1	5483.9	5364.7	4925.3	5072.5	5201.1	5350.7
52.5°	7295.6	7304.9	7272.2	7216.1	6851.4	6203.9	6070.7	5582.1	5883.7	6019.2	6288.1
55°	7889.3	7819.2	7758.4	7800.5	7704.6	6996.3	6858.4	6260.0	6713.5	6893.5	7431.1
57.5°	7999.2	8059.9	8214.2	8548.5	8686.4	7767.7	7688.3	7092.2	7650.9	7807.5	8705.1
60°	8387.2	8286.7	8665.4	9390.0	9544.3	8772.9	8691.1	8003.8	8583.6	8747.2	9880.9
62.5°	8642.0	8637.3	9198.3	10058.6	10409.2	9815.5	9649.5	9189.0	9591.0	9750.0	11161.9
65°	8567.2	8635.0	9630.8	10451.3	11131.5	11000.6	10904.8	10208.2	10738.8	10724.8	11996.4
67.5°	7884.6	8076.3	9357.3	10734.1	12206.8	12445.2	12414.8	11641.1	11671.5	11374.6	12368.1
70°	6937.9	6872.5	8200.2	10439.6	12744.4	14158.7	14151.6	12707.0	12510.7	11517.2	11302.1
72°	5329.7	5257.2	6348.8	8964.6	12461.6	14843.6	15053.9	13445.7	12501.3	10925.8	9336.3
72.5°	4838.8	4775.7	5862.6	8438.6	12148.3	15021.2	14923.0	13473.8	12403.1	10647.6	8721.5
75°	2227.7	2155.2	2929.0	5166.0	9476.5	13310.1	13644.4	12608.9	10832.3	8476.0	5224.5
77.5°	663.9	642.8	942.0	2085.1	5507.3	9806.1	9934.7	9513.9	7562.0	4642.4	1937.8
80°	369.3	371.7	486.2	780.7	2421.7	5668.6	6131.4	5876.6	3709.7	1533.4	645.2
82.5°	205.7	217.4	303.9	462.8	1112.7	2601.7	2800.4	2699.9	1341.8	720.0	353.0
85°	107.5	112.2	159.0	247.8	631.1	822.8	846.2	907.0	696.6	490.9	189.3
87.5°	42.1	42.1	58.4	102.9	233.8	254.8	229.1	278.2	399.7	317.9	93.5
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°	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4
2.5°	2267.4	2248.7	2246.4	2216.0	2225.4	2199.7	2202.0	2197.3	2199.7	2195.0	2183.3
5°	2255.8	2241.7	2202.0	2227.7	2204.3	2237.1	2262.8	2253.4	2260.4	2258.1	2260.4
7.5°	2272.1	2253.4	2248.7	2234.7	2255.8	2269.8	2290.8	2349.3	2344.6	2351.6	2365.6
10°	2321.2	2300.2	2286.1	2307.2	2295.5	2339.9	2363.3	2393.7	2447.4	2449.8	2421.7
12.5°	2417.0	2403.0	2375.0	2379.6	2419.4	2433.4	2447.4	2466.1	2501.2	2494.2	2519.9
15°	2526.9	2496.5	2480.2	2475.5	2484.8	2501.2	2498.9	2517.6	2536.3	2552.6	2545.6
17.5°	2606.4	2566.7	2571.3	2594.7	2592.4	2587.7	2557.3	2548.0	2557.3	2566.7	2562.0
20°	2688.2	2692.9	2657.8	2636.8	2627.4	2580.7	2557.3	2529.3	2501.2	2515.2	2536.3
22.5°	2791.1	2770.0	2718.6	2655.5	2608.7	2580.7	2508.2	2459.1	2459.1	2473.1	2466.1
25°	2907.9	2863.5	2774.7	2660.2	2601.7	2482.5	2431.1	2424.1	2405.4	2426.4	2435.7
27.5°	2999.1	2959.4	2837.8	2643.8	2482.5	2386.7	2356.3	2346.9	2377.3	2379.6	2417.0
30°	3036.5	3024.8	2847.2	2601.7	2360.9	2206.7	2188.0	2230.0	2262.8	2311.9	2314.2
32.5°	3085.6	3090.3	2861.2	2503.5	2202.0	2047.7	2019.7	2071.1	2164.6	2204.3	2234.7
35°	3167.4	3190.8	2849.5	2382.0	2033.7	1886.4	1881.7	1895.8	1986.9	2057.1	2096.8
37.5°	3310.0	3305.3	2847.2	2237.1	1900.4	1746.2	1708.8	1713.4	1774.2	1832.7	1825.6
40°	3501.7	3483.0	2840.1	2047.7	1727.5	1626.9	1563.8	1540.5	1535.8	1519.4	1524.1
42.5°	3763.5	3726.1	2837.8	1856.0	1570.8	1463.3	1418.9	1358.1	1313.7	1229.6	1234.2
45°	4128.1	4062.7	2777.0	1676.0	1416.6	1327.7	1260.0	1215.5	1119.7	1014.5	1014.5
47.5°	4691.5	4478.8	2779.4	1477.3	1267.0	1194.5	1147.7	1070.6	967.8	883.6	874.3
50°	5521.3	5035.1	2699.9	1320.7	1145.4	1096.3	1047.2	958.4	860.2	801.8	808.8
52.5°	6591.9	5865.0	2697.6	1180.5	1049.6	1014.5	960.7	881.3	808.8	771.4	757.4
55°	7868.3	6963.6	2781.7	1065.9	951.4	932.7	909.3	843.9	773.7	741.0	738.7
57.5°	9175.0	8036.6	2917.3	984.1	867.2	881.3	864.9	813.5	757.4	720.0	715.3
60°	10336.7	8887.4	2643.8	885.9	792.4	822.8	846.2	801.8	771.4	769.1	752.7
62.5°	11213.3	9252.1	2010.3	811.1	752.7	808.8	871.9	900.0	885.9	904.6	907.0
65°	11533.6	9032.4	1383.8	771.4	722.3	841.5	981.8	972.4	890.6	855.6	874.3
67.5°	11084.8	8141.8	1026.2	724.6	701.3	909.3	1044.9	928.0	804.1	799.4	785.4
70°	9532.6	6900.5	836.8	675.6	666.2	871.9	1016.8	860.2	757.4	727.0	713.0
72°	7594.8	5374.1	734.0	640.5	610.1	778.4	951.4	806.5	717.6	680.2	663.9
72.5°	6933.2	4981.4	720.0	624.1	598.4	757.4	918.7	790.1	708.3	675.6	649.8
75°	3803.2	2550.3	633.5	572.7	504.9	654.5	850.9	741.0	668.5	621.8	617.1
77.5°	1414.2	988.8	547.0	507.3	437.1	565.7	773.7	703.6	607.8	549.3	537.6
80°	542.3	521.3	446.5	427.8	367.0	495.6	713.0	631.1	516.6	458.2	439.5
82.5°	329.6	303.9	338.9	334.3	280.5	451.2	670.9	591.4	458.2	371.7	360.0
85°	180.0	180.0	236.1	226.7	196.4	360.0	507.3	392.7	289.9	238.4	243.1
87.5°	79.5	93.5	126.2	119.2	107.5	203.4	247.8	208.0	144.9	98.2	105.2
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)