

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: P478706

Luminaire Tested: **IFLD-S-SA3E-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478706
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

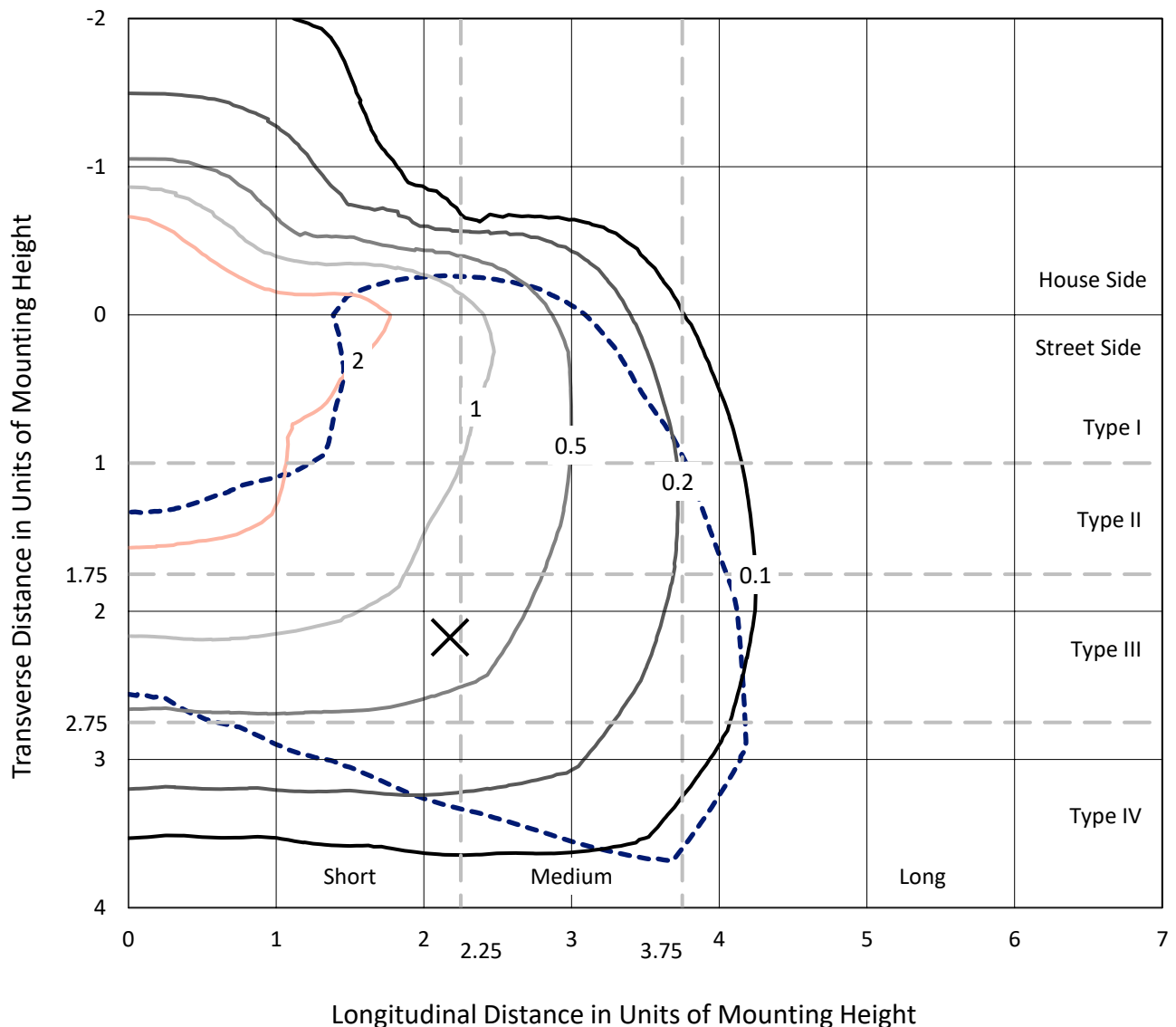
Lumens per Lamp: N/A
Luminaire Lumens: 21664.1 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

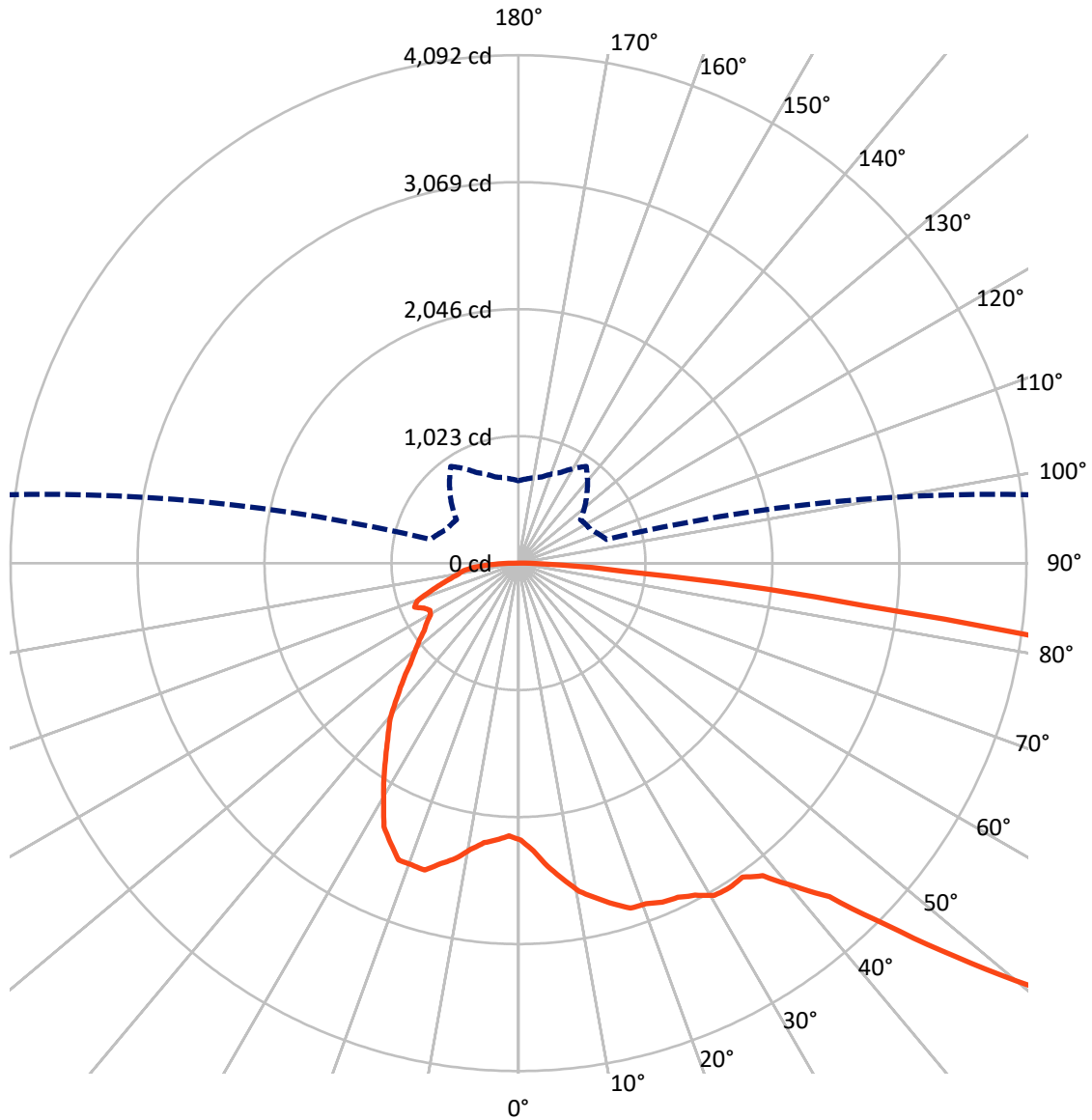
× Max cd
 - - - 1/2 Max cd



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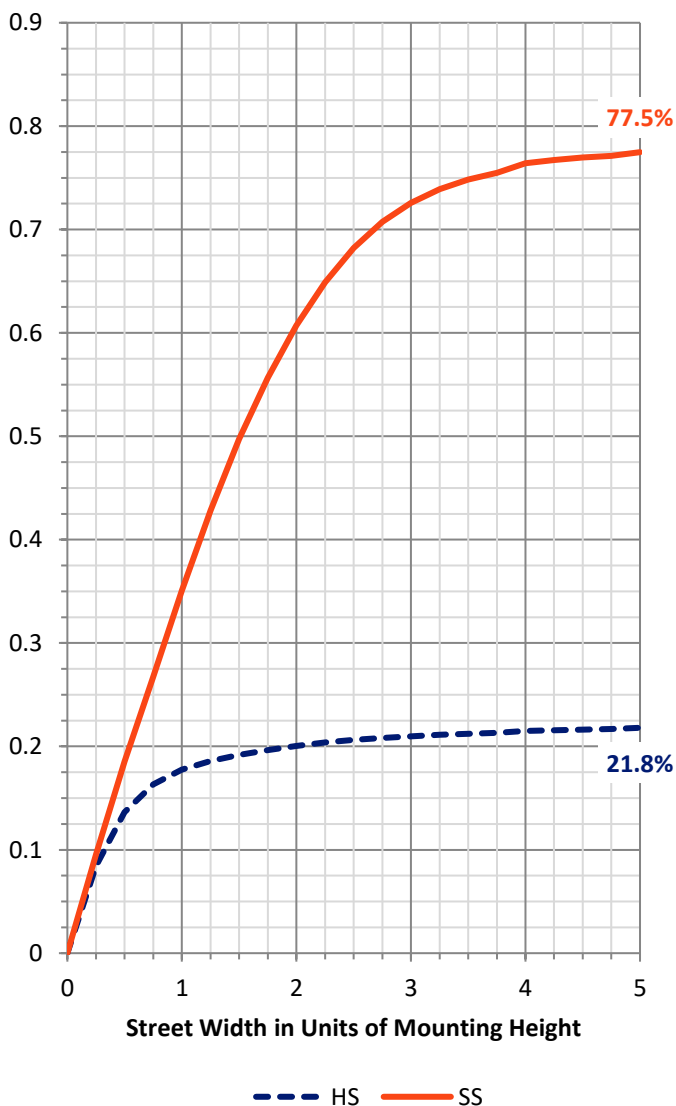
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4822.5	0.0	4822.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16841.5	0.0	16841.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	21664.1	0.0	21664.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	1.1
10°-20°	759.6	3.5
20°-30°	1282.7	5.9
30°-40°	1775.0	8.2
40°-50°	2539.0	11.7
50°-60°	4095.1	18.9
60°-70°	6039.6	27.9
70°-80°	4385.8	20.2
80°-90°	559.1	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°	21664.1	100.0
0°-180°	21664.1	100.0

Coefficient of Utilization



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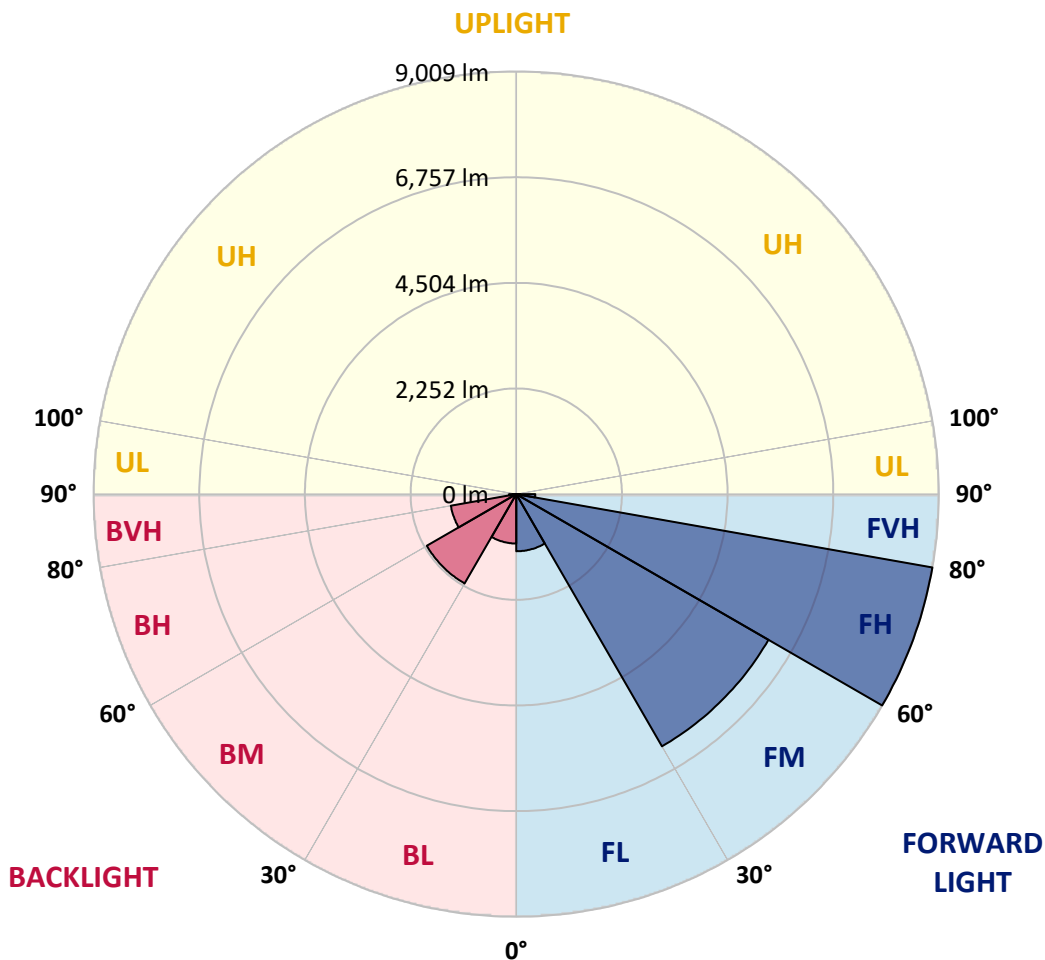
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.5	5.6			
FM (30°-60°)	6208.2	28.7			
FH (60°-80°)	9008.9	41.6			G4/12000
FVH (80°-90°)	406.9	1.9			G3/500
BL (0°-30°)	1053.0	4.9	B3/2500		
BM (30°-60°)	2200.9	10.2	B2/2500		
BH (60°-80°)	1416.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	152.1	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°	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0
2.5°	2350.1	2364.2	2350.1	2347.8	2324.5	2308.1	2322.1	2301.1	2277.7	2268.4	2247.4
5°	2565.1	2567.4	2541.7	2544.0	2495.0	2443.6	2452.9	2389.9	2322.1	2296.4	2254.4
7.5°	2784.7	2759.0	2721.6	2709.9	2632.8	2576.8	2569.7	2513.7	2408.6	2350.1	2291.7
10°	2927.2	2936.5	2875.8	2824.4	2759.0	2691.2	2688.9	2583.8	2523.0	2436.6	2361.8
12.5°	3053.3	3055.7	3004.3	2922.5	2840.7	2756.6	2768.3	2721.6	2618.8	2537.0	2462.3
15°	3151.4	3137.4	3081.4	3006.6	2920.2	2854.8	2847.7	2808.0	2721.6	2653.8	2530.0
17.5°	3179.5	3172.5	3116.4	3037.0	2952.9	2903.8	2922.5	2857.1	2822.0	2761.3	2642.2
20°	3125.7	3109.4	3100.0	3011.3	2950.5	2945.9	2929.5	2943.5	2885.1	2829.1	2742.6
22.5°	3027.6	3020.6	3015.9	2945.9	2917.8	2938.9	2966.9	2987.9	2978.6	2924.8	2826.7
25°	2927.2	2959.9	2929.5	2896.8	2936.5	2990.2	2983.2	3051.0	3051.0	3034.6	2952.9
27.5°	2997.3	2976.2	2952.9	2936.5	2950.5	3034.6	3030.0	3111.7	3142.1	3111.7	3018.3
30°	3172.5	3151.4	3083.7	3011.3	2992.6	3083.7	3107.1	3179.5	3193.5	3118.7	3039.3
32.5°	3501.9	3490.2	3382.7	3170.1	3055.7	3107.1	3118.7	3200.5	3188.8	3142.1	3109.4
35°	3990.1	3950.4	3800.9	3441.1	3188.8	3137.4	3107.1	3172.5	3216.9	3193.5	3163.1
37.5°	4525.1	4480.7	4296.1	3840.6	3429.4	3219.2	3195.8	3249.6	3301.0	3289.3	3226.2
40°	5036.7	5036.7	4870.8	4340.5	3786.9	3417.8	3422.4	3361.7	3408.4	3387.4	3399.1
42.5°	5541.3	5522.6	5454.9	4926.9	4170.0	3749.5	3674.7	3522.9	3607.0	3600.0	3616.3
45°	6052.9	6038.9	6020.2	5473.6	4719.0	4198.0	4158.3	3885.0	3962.1	3929.4	3999.5
47.5°	6461.7	6478.1	6478.1	6083.3	5305.4	4796.1	4737.7	4305.5	4452.7	4469.0	4485.4
50°	6809.8	6816.8	6809.8	6665.0	5959.5	5480.6	5361.4	4922.2	5069.4	5197.9	5347.4
52.5°	7291.1	7300.4	7267.7	7211.6	6847.2	6200.1	6066.9	5578.7	5880.0	6015.5	6284.2
55°	7884.4	7814.4	7753.6	7795.7	7699.9	6992.0	6854.2	6256.2	6709.4	6889.3	7426.6
57.5°	7994.2	8055.0	8209.2	8543.2	8681.1	7763.0	7683.5	7087.8	7646.2	7802.7	8699.8
60°	8382.0	8281.6	8660.0	9384.2	9538.4	8767.5	8685.7	7998.9	8578.3	8741.8	9874.8
62.5°	8636.7	8632.0	9192.7	10052.4	10402.8	9809.4	9643.6	9183.3	9585.2	9744.0	11155.0
65°	8561.9	8629.7	9624.9	10444.8	11124.7	10993.8	10898.1	10201.9	10732.2	10718.2	11989.0
67.5°	7879.8	8071.3	9351.5	10727.5	12199.3	12437.6	12407.2	11633.9	11664.3	11367.6	12360.5
70°	6933.6	6868.2	8195.2	10433.2	12736.6	14150.0	14142.9	12699.2	12503.0	11510.1	11295.2
72°	5326.4	5254.0	6344.9	8959.1	12453.9	14834.4	15044.7	13437.4	12493.6	10919.1	9330.5
72.5°	4835.8	4772.7	5859.0	8433.4	12140.9	15012.0	14913.9	13465.5	12395.5	10641.1	8716.1
75°	2226.3	2153.9	2927.2	5162.9	9470.7	13301.9	13636.0	12601.1	10825.6	8470.8	5221.3
77.5°	663.5	642.4	941.5	2083.8	5503.9	9800.1	9928.6	9508.1	7557.4	4639.6	1936.7
80°	369.1	371.4	485.9	780.3	2420.2	5665.1	6127.7	5873.0	3707.4	1532.5	644.8
82.5°	205.6	217.3	303.7	462.6	1112.0	2600.1	2798.7	2698.2	1340.9	719.5	352.8
85°	107.5	112.1	158.9	247.6	630.8	822.3	845.7	906.4	696.2	490.6	189.2
87.5°	42.1	42.1	58.4	102.8	233.6	254.6	228.9	278.0	399.5	317.7	93.4
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°	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0	2231.0
2.5°	2266.0	2247.4	2245.0	2214.7	2224.0	2198.3	2200.6	2196.0	2198.3	2193.6	2181.9
5°	2254.4	2240.4	2200.6	2226.3	2203.0	2235.7	2261.4	2252.0	2259.0	2256.7	2259.0
7.5°	2270.7	2252.0	2247.4	2233.3	2254.4	2268.4	2289.4	2347.8	2343.1	2350.1	2364.2
10°	2319.8	2298.8	2284.7	2305.8	2294.1	2338.5	2361.8	2392.2	2445.9	2448.3	2420.2
12.5°	2415.6	2401.5	2373.5	2378.2	2417.9	2431.9	2445.9	2464.6	2499.7	2492.7	2518.4
15°	2525.4	2495.0	2478.6	2474.0	2483.3	2499.7	2497.3	2516.0	2534.7	2551.1	2544.0
17.5°	2604.8	2565.1	2569.7	2593.1	2590.8	2586.1	2555.7	2546.4	2555.7	2565.1	2560.4
20°	2686.6	2691.2	2656.2	2635.2	2625.8	2579.1	2555.7	2527.7	2499.7	2513.7	2534.7
22.5°	2789.3	2768.3	2716.9	2653.8	2607.1	2579.1	2506.7	2457.6	2457.6	2471.6	2464.6
25°	2906.1	2861.8	2773.0	2658.5	2600.1	2481.0	2429.6	2422.6	2403.9	2424.9	2434.2
27.5°	2997.3	2957.5	2836.1	2642.2	2481.0	2385.2	2354.8	2345.5	2375.8	2378.2	2415.6
30°	3034.6	3023.0	2845.4	2600.1	2359.5	2205.3	2186.6	2228.7	2261.4	2310.4	2312.8
32.5°	3083.7	3088.4	2859.4	2502.0	2200.6	2046.5	2018.4	2069.8	2163.3	2203.0	2233.3
35°	3165.5	3188.8	2847.7	2380.5	2032.4	1885.3	1880.6	1894.6	1985.7	2055.8	2095.5
37.5°	3308.0	3303.3	2845.4	2235.7	1899.3	1745.1	1707.7	1712.4	1773.1	1831.5	1824.5
40°	3499.5	3480.8	2838.4	2046.5	1726.4	1625.9	1562.9	1539.5	1534.8	1518.5	1523.2
42.5°	3761.2	3723.8	2836.1	1854.9	1569.9	1462.4	1418.0	1357.3	1312.9	1228.8	1233.5
45°	4125.6	4060.2	2775.3	1675.0	1415.7	1326.9	1259.2	1214.8	1119.0	1013.9	1013.9
47.5°	4688.6	4476.0	2777.7	1476.4	1266.2	1193.8	1147.0	1069.9	967.2	883.1	873.7
50°	5517.9	5032.0	2698.2	1319.9	1144.7	1095.6	1046.6	957.8	859.7	801.3	808.3
52.5°	6587.9	5861.4	2695.9	1179.7	1048.9	1013.9	960.2	880.7	808.3	770.9	756.9
55°	7863.4	6959.3	2780.0	1065.3	950.8	932.1	908.8	843.3	773.3	740.6	738.2
57.5°	9169.3	8031.6	2915.5	983.5	866.7	880.7	864.4	813.0	756.9	719.5	714.9
60°	10330.4	8882.0	2642.2	885.4	791.9	822.3	845.7	801.3	770.9	768.6	752.2
62.5°	11206.4	9246.4	2009.1	810.6	752.2	808.3	871.4	899.4	885.4	904.1	906.4
65°	11526.5	9026.8	1383.0	770.9	721.9	841.0	981.2	971.8	890.1	855.0	873.7
67.5°	11077.9	8136.7	1025.6	724.2	700.8	908.8	1044.3	927.4	803.6	799.0	784.9
70°	9526.7	6896.3	836.3	675.1	665.8	871.4	1016.2	859.7	756.9	726.5	712.5
72°	7590.1	5370.8	733.5	640.1	609.7	777.9	950.8	806.0	717.2	679.8	663.5
72.5°	6929.0	4978.3	719.5	623.7	598.0	756.9	918.1	789.6	707.8	675.1	649.4
75°	3800.9	2548.7	633.1	572.4	504.6	654.1	850.4	740.6	668.1	621.4	616.7
77.5°	1413.4	988.2	546.7	506.9	436.9	565.3	773.3	703.2	607.4	549.0	537.3
80°	542.0	521.0	446.2	427.5	366.8	495.3	712.5	630.8	516.3	457.9	439.2
82.5°	329.4	303.7	338.7	334.1	280.3	450.9	670.5	591.0	457.9	371.4	359.8
85°	179.9	179.9	235.9	226.6	196.2	359.8	506.9	392.5	289.7	238.3	243.0
87.5°	79.4	93.4	126.2	119.1	107.5	203.2	247.6	207.9	144.8	98.1	105.1
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)