

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: P478548

Luminaire Tested: **IFLD-S-SA3C-740-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478548  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-740-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

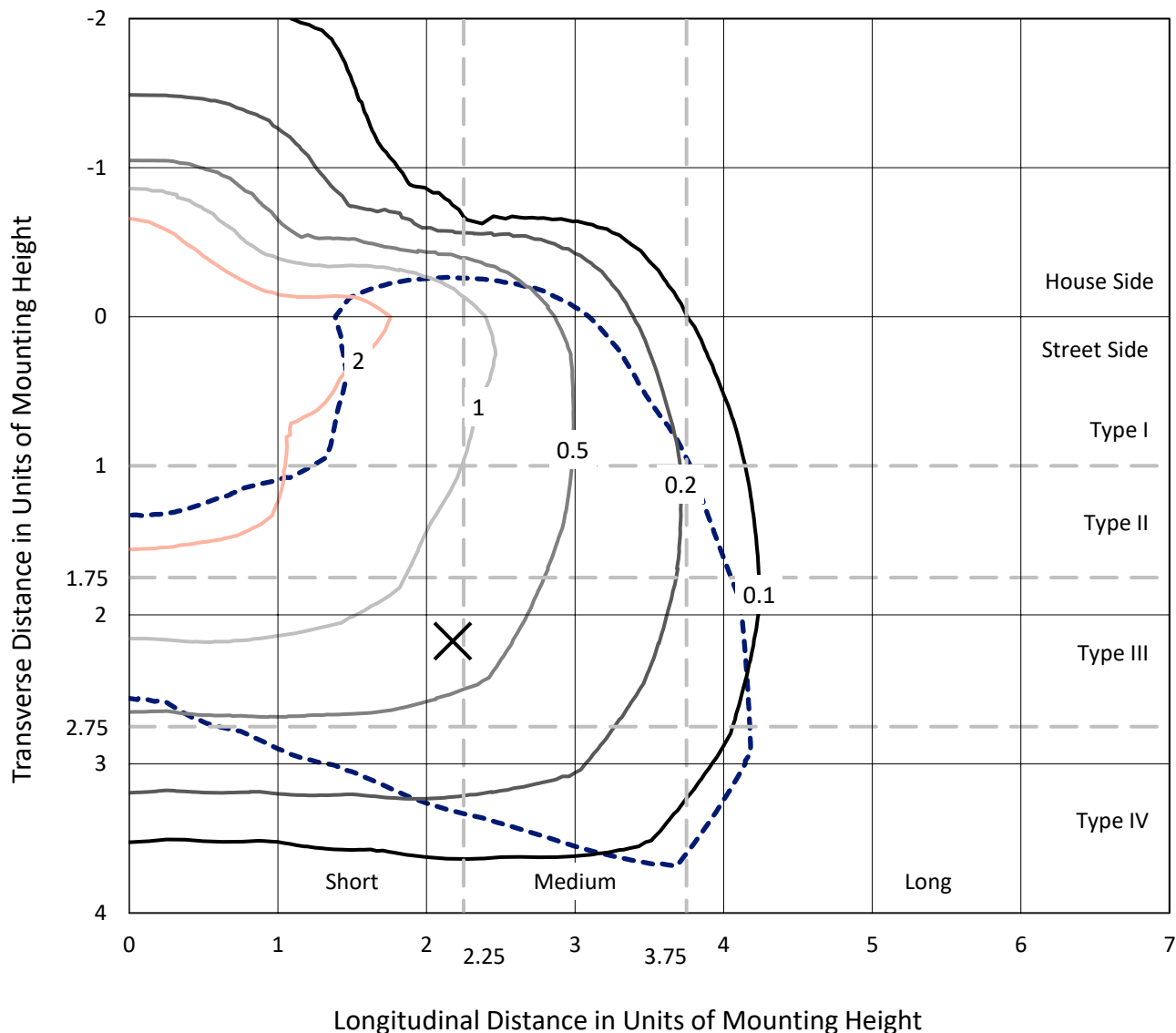
Lumens per Lamp: N/A  
Luminaire Lumens: 21410.3 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8  
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

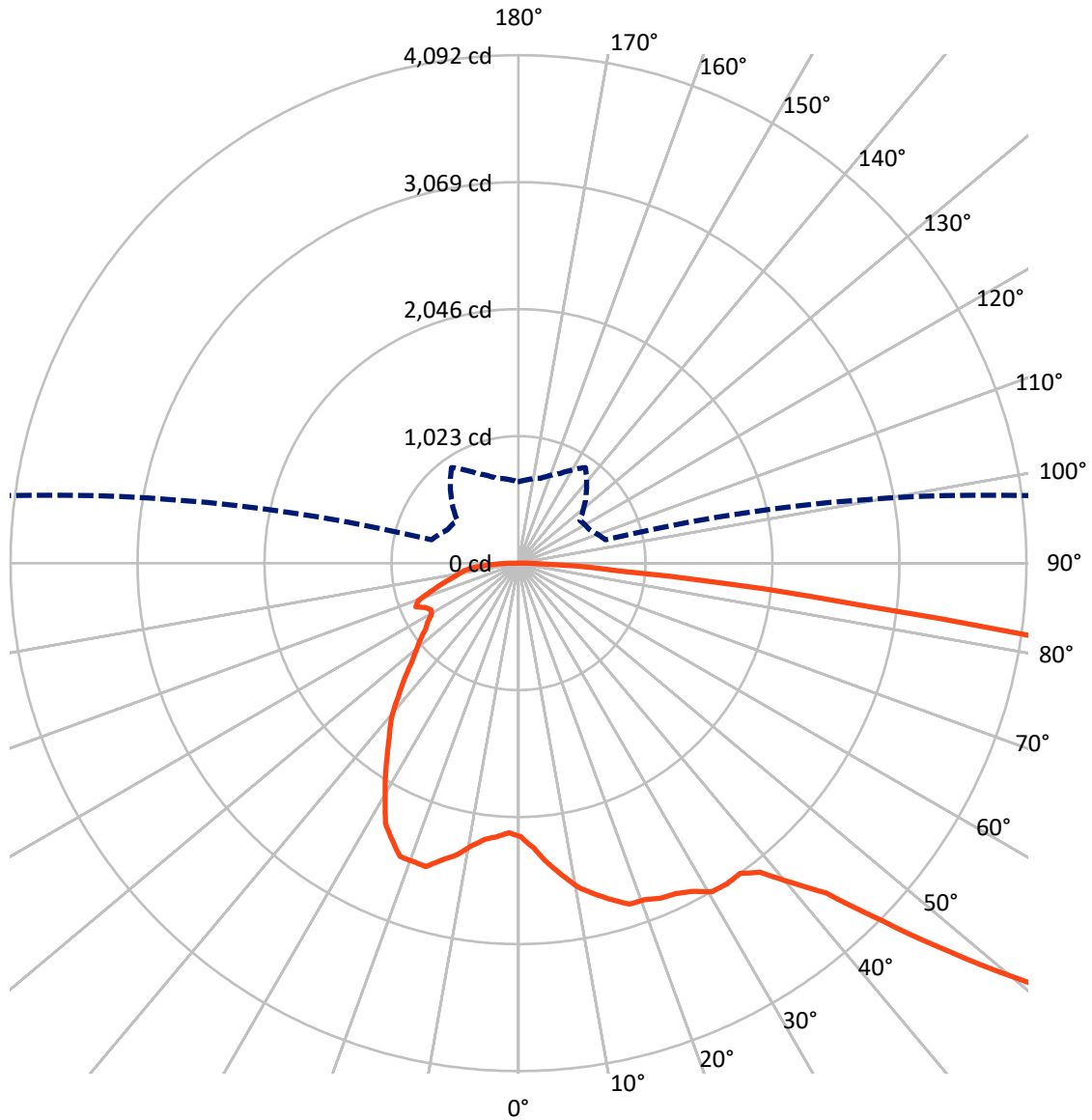
× Max cd  
 - - - 1/2 Max cd



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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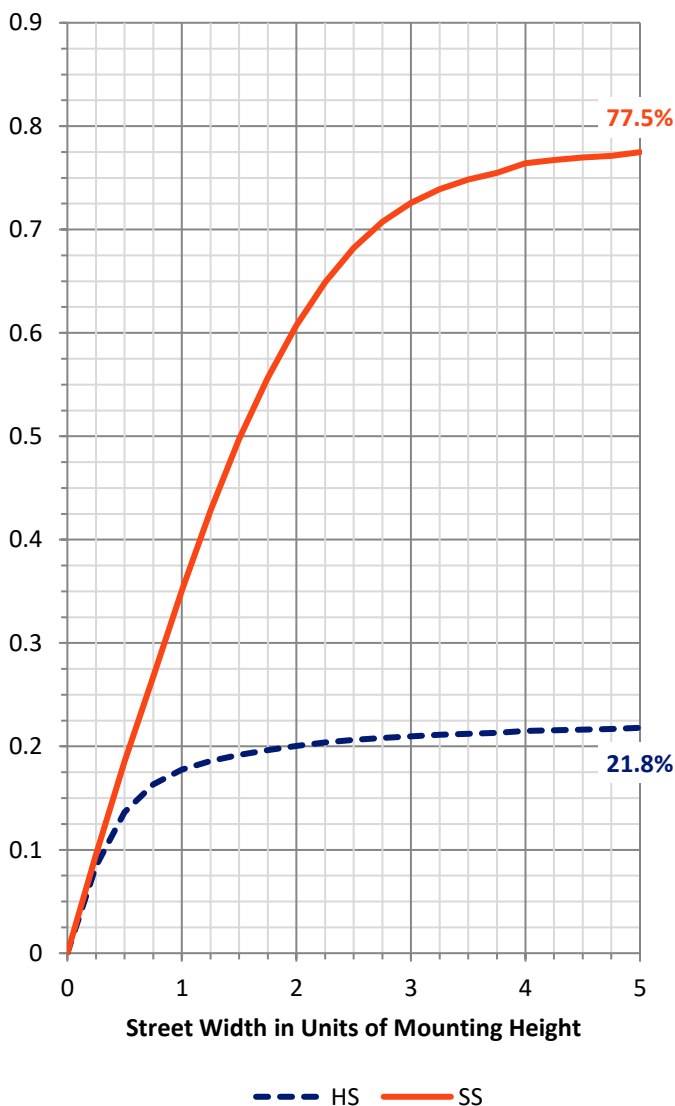
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4766.1	0.0	4766.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	16644.3	0.0	16644.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	21410.3	0.0	21410.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.6	1.1
10°-20°	750.7	3.5
20°-30°	1267.6	5.9
30°-40°	1754.2	8.2
40°-50°	2509.2	11.7
50°-60°	4047.1	18.9
60°-70°	5968.9	27.9
70°-80°	4334.4	20.2
80°-90°	552.5	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°	21410.3	100.0
0°-180°	21410.3	100.0

**Coefficient of Utilization**

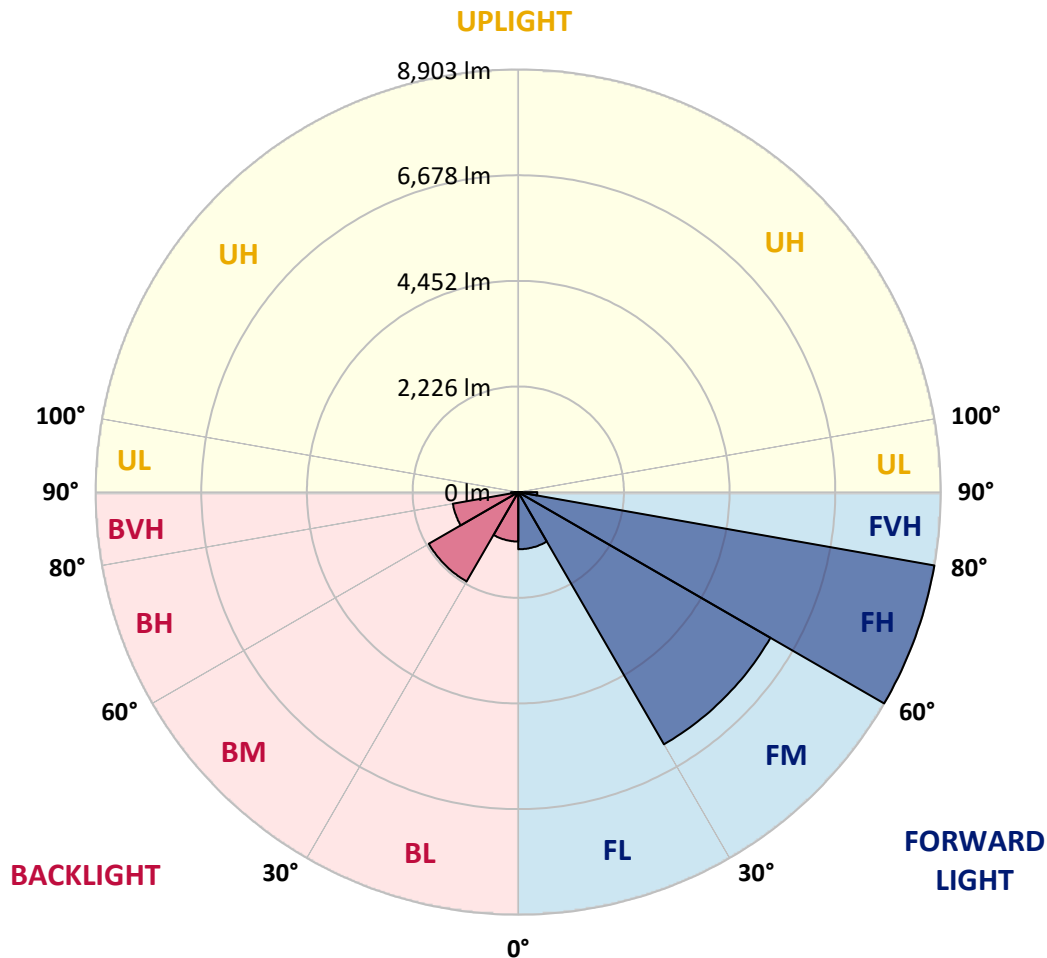


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.3	5.6			
FM (30°-60°)	6135.5	28.7			
FH (60°-80°)	8903.4	41.6			G4/12000
FVH (80°-90°)	402.2	1.9			G3/500
BL (0°-30°)	1040.6	4.9	B3/2500		
BM (30°-60°)	2175.1	10.2	B2/2500		
BH (60°-80°)	1400.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	150.4	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°	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9
2.5°	2322.6	2336.5	2322.6	2320.3	2297.2	2281.1	2294.9	2274.1	2251.1	2241.8	2221.0
5°	2535.0	2537.3	2511.9	2514.3	2465.8	2415.0	2424.2	2361.9	2294.9	2269.5	2228.0
7.5°	2752.1	2726.7	2689.7	2678.2	2602.0	2546.6	2539.6	2484.2	2380.3	2322.6	2264.9
10°	2892.9	2902.1	2842.1	2791.3	2726.7	2659.7	2657.4	2553.5	2493.5	2408.0	2334.2
12.5°	3017.6	3019.9	2969.1	2888.3	2807.5	2724.3	2735.9	2689.7	2588.1	2507.3	2433.4
15°	3114.5	3100.7	3045.3	2971.4	2886.0	2821.3	2814.4	2775.1	2689.7	2622.8	2500.4
17.5°	3142.2	3135.3	3079.9	3001.4	2918.3	2869.8	2888.3	2823.6	2789.0	2729.0	2611.2
20°	3089.1	3073.0	3063.7	2976.0	2916.0	2911.4	2895.2	2909.0	2851.3	2795.9	2710.5
22.5°	2992.2	2985.2	2980.6	2911.4	2883.7	2904.4	2932.1	2952.9	2943.7	2890.6	2793.6
25°	2892.9	2925.2	2895.2	2862.9	2902.1	2955.2	2948.3	3015.3	3015.3	2999.1	2918.3
27.5°	2962.2	2941.4	2918.3	2902.1	2916.0	2999.1	2994.5	3075.3	3105.3	3075.3	2982.9
30°	3135.3	3114.5	3047.6	2976.0	2957.5	3047.6	3070.7	3142.2	3156.1	3082.2	3003.7
32.5°	3460.8	3449.3	3343.1	3133.0	3019.9	3070.7	3082.2	3163.0	3151.5	3105.3	3073.0
35°	3943.4	3904.1	3756.4	3400.8	3151.5	3100.7	3070.7	3135.3	3179.2	3156.1	3126.1
37.5°	4472.1	4428.2	4245.8	3795.6	3389.3	3181.5	3158.4	3211.5	3262.3	3250.7	3188.4
40°	4977.7	4977.7	4813.8	4289.7	3742.5	3377.7	3382.3	3322.3	3368.5	3347.7	3359.3
42.5°	5476.4	5457.9	5391.0	4869.2	4121.2	3705.6	3631.7	3481.6	3564.7	3557.8	3574.0
45°	5982.0	5968.2	5949.7	5409.4	4663.7	4148.9	4109.6	3839.5	3915.7	3883.4	3952.6
47.5°	6386.1	6402.2	6402.2	6012.0	5243.2	4739.9	4682.2	4255.1	4400.5	4416.7	4432.8
50°	6730.1	6737.0	6730.1	6586.9	5889.7	5416.4	5298.6	4864.6	5010.0	5137.0	5284.8
52.5°	7205.7	7214.9	7182.6	7127.2	6767.0	6127.5	5995.9	5513.3	5811.2	5945.1	6210.6
55°	7792.1	7722.8	7662.8	7704.4	7609.7	6910.1	6773.9	6182.9	6630.8	6808.6	7339.6
57.5°	7900.6	7960.6	8113.0	8443.2	8579.4	7672.0	7593.5	7004.8	7556.6	7711.3	8597.9
60°	8283.9	8184.6	8558.6	9274.3	9426.7	8664.8	8584.0	7905.2	8477.8	8639.4	9759.2
62.5°	8535.5	8530.9	9085.0	9934.6	10281.0	9694.5	9530.6	9075.8	9472.9	9629.9	11024.4
65°	8461.6	8528.6	9512.1	10322.5	10994.4	10865.1	10770.4	10082.4	10606.5	10592.6	11848.6
67.5°	7787.5	7976.8	9242.0	10601.9	12056.4	12291.9	12261.9	11497.7	11527.7	11234.5	12215.7
70°	6852.4	6787.8	8099.2	10311.0	12587.4	13984.2	13977.3	12550.5	12356.5	11375.3	11162.9
72°	5264.0	5192.4	6270.6	8854.1	12308.1	14660.7	14868.5	13280.0	12347.3	10791.2	9221.2
72.5°	4779.2	4716.8	5790.4	8334.7	11998.7	14836.2	14739.2	13307.7	12250.3	10516.4	8614.0
75°	2200.3	2128.7	2892.9	5102.4	9359.8	13146.1	13476.3	12453.5	10698.8	8371.6	5160.1
77.5°	655.7	634.9	930.4	2059.4	5439.5	9685.3	9812.3	9396.7	7468.9	4585.2	1914.0
80°	364.8	367.1	480.2	771.1	2391.9	5598.8	6055.9	5804.2	3664.0	1514.6	637.2
82.5°	203.2	214.7	300.1	457.1	1099.0	2569.7	2765.9	2666.6	1325.2	711.1	348.6
85°	106.2	110.8	157.0	244.7	623.4	812.7	835.8	895.8	688.0	484.8	187.0
87.5°	41.6	41.6	57.7	101.6	230.9	251.7	226.3	274.7	394.8	314.0	92.4
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°	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9	2204.9
2.5°	2239.5	2221.0	2218.7	2188.7	2197.9	2172.6	2174.9	2170.2	2172.6	2167.9	2156.4
5°	2228.0	2214.1	2174.9	2200.3	2177.2	2209.5	2234.9	2225.7	2232.6	2230.3	2232.6
7.5°	2244.1	2225.7	2221.0	2207.2	2228.0	2241.8	2262.6	2320.3	2315.7	2322.6	2336.5
10°	2292.6	2271.8	2258.0	2278.8	2267.2	2311.1	2334.2	2364.2	2417.3	2419.6	2391.9
12.5°	2387.3	2373.4	2345.7	2350.3	2389.6	2403.4	2417.3	2435.8	2470.4	2463.5	2488.9
15°	2495.8	2465.8	2449.6	2445.0	2454.2	2470.4	2468.1	2486.5	2505.0	2521.2	2514.3
17.5°	2574.3	2535.0	2539.6	2562.7	2560.4	2555.8	2525.8	2516.6	2525.8	2535.0	2530.4
20°	2655.1	2659.7	2625.1	2604.3	2595.1	2548.9	2525.8	2498.1	2470.4	2484.2	2505.0
22.5°	2756.7	2735.9	2685.1	2622.8	2576.6	2548.9	2477.3	2428.8	2428.8	2442.7	2435.8
25°	2872.1	2828.2	2740.5	2627.4	2569.7	2451.9	2401.1	2394.2	2375.7	2396.5	2405.7
27.5°	2962.2	2922.9	2802.8	2611.2	2451.9	2357.3	2327.2	2318.0	2348.0	2350.3	2387.3
30°	2999.1	2987.5	2812.1	2569.7	2331.9	2179.5	2161.0	2202.6	2234.9	2283.4	2285.7
32.5°	3047.6	3052.2	2825.9	2472.7	2174.9	2022.5	1994.8	2045.6	2137.9	2177.2	2207.2
35°	3128.4	3151.5	2814.4	2352.6	2008.6	1863.2	1858.6	1872.4	1962.5	2031.7	2071.0
37.5°	3269.2	3264.6	2812.1	2209.5	1877.0	1724.7	1687.7	1692.3	1752.4	1810.1	1803.1
40°	3458.5	3440.1	2805.2	2022.5	1706.2	1606.9	1544.6	1521.5	1516.9	1500.7	1505.3
42.5°	3717.1	3680.2	2802.8	1833.2	1551.5	1445.3	1401.4	1341.4	1297.5	1214.4	1219.0
45°	4077.3	4012.6	2742.8	1655.4	1399.1	1311.4	1244.4	1200.6	1105.9	1002.0	1002.0
47.5°	4633.7	4423.6	2745.1	1459.1	1251.4	1179.8	1133.6	1057.4	955.8	872.7	863.5
50°	5453.3	4973.1	2666.6	1304.5	1131.3	1082.8	1034.3	946.6	849.6	791.9	798.8
52.5°	6510.7	5792.7	2664.3	1165.9	1036.6	1002.0	948.9	870.4	798.8	761.9	748.0
55°	7771.3	6877.8	2747.4	1052.8	939.7	921.2	898.1	833.5	764.2	731.9	729.6
57.5°	9061.9	7937.5	2881.3	972.0	856.6	870.4	854.2	803.5	748.0	711.1	706.5
60°	10209.4	8777.9	2611.2	875.0	782.7	812.7	835.8	791.9	761.9	759.6	743.4
62.5°	11075.2	9138.1	1985.5	801.1	743.4	798.8	861.2	888.9	875.0	893.5	895.8
65°	11391.5	8921.1	1366.8	761.9	713.4	831.2	969.7	960.4	879.6	845.0	863.5
67.5°	10948.2	8041.4	1013.5	715.7	692.6	898.1	1032.0	916.6	794.2	789.6	775.7
70°	9415.2	6815.5	826.5	667.2	658.0	861.2	1004.3	849.6	748.0	718.0	704.2
72°	7501.2	5307.9	725.0	632.6	602.6	768.8	939.7	796.5	708.8	671.9	655.7
72.5°	6847.8	4920.0	711.1	616.4	591.0	748.0	907.3	780.4	699.6	667.2	641.8
75°	3756.4	2518.9	625.7	565.6	498.7	646.5	840.4	731.9	660.3	614.1	609.5
77.5°	1396.8	976.6	540.3	501.0	431.7	558.7	764.2	694.9	600.3	542.6	531.0
80°	535.6	514.9	441.0	422.5	362.5	489.5	704.2	623.4	510.2	452.5	434.0
82.5°	325.5	300.1	334.8	330.2	277.1	445.6	662.6	584.1	452.5	367.1	355.6
85°	177.8	177.8	233.2	224.0	193.9	355.6	501.0	387.9	286.3	235.5	240.1
87.5°	78.5	92.4	124.7	117.7	106.2	200.9	244.7	205.5	143.1	97.0	103.9
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)