

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: P478528

Luminaire Tested: **IFLD-M-SA4B-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

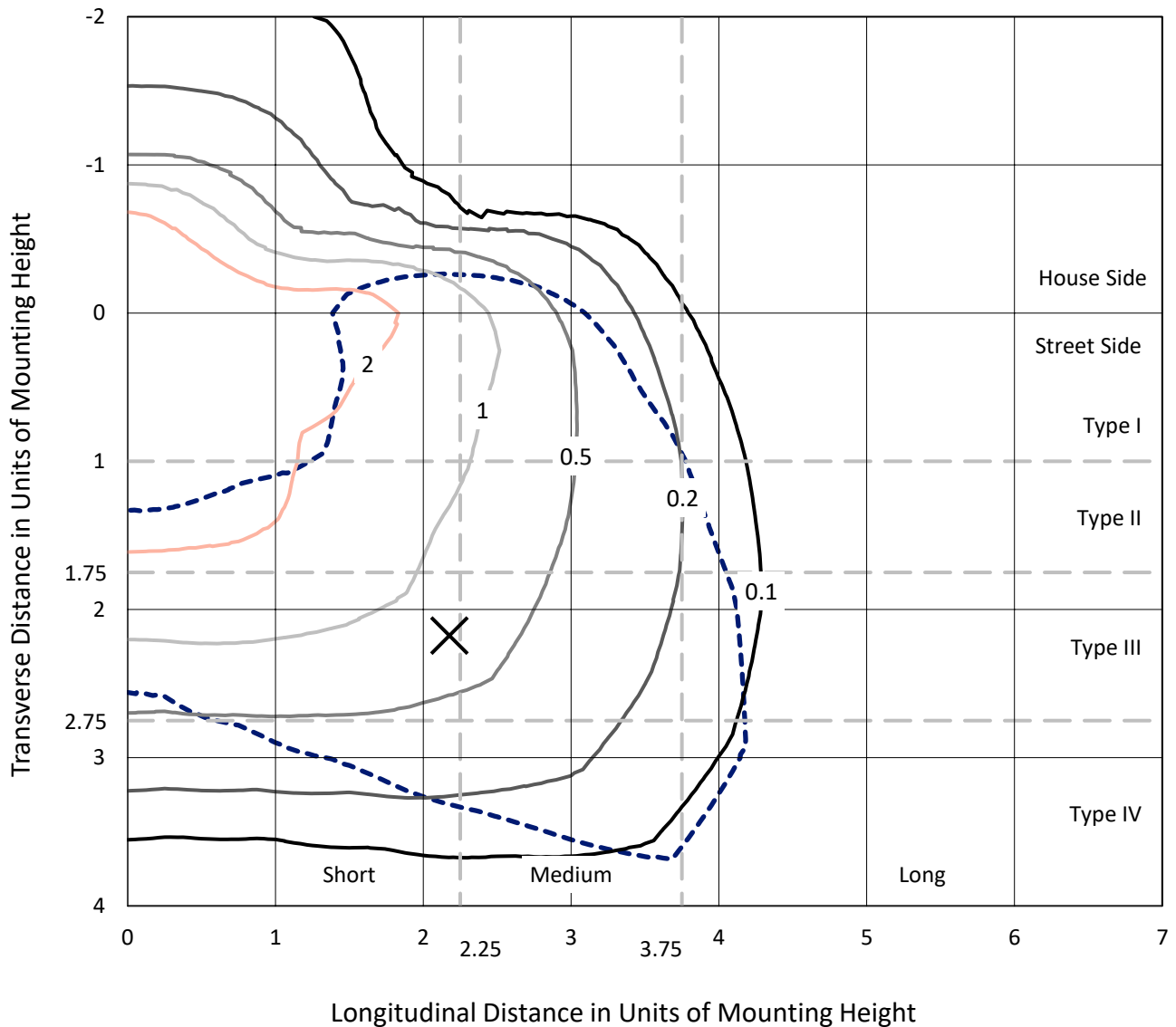
Lumens per Lamp: N/A
Luminaire Lumens: 22769.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

REPORT NUMBER: P478528
 CATALOG NUMBER: IFLD-M-SA4B-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

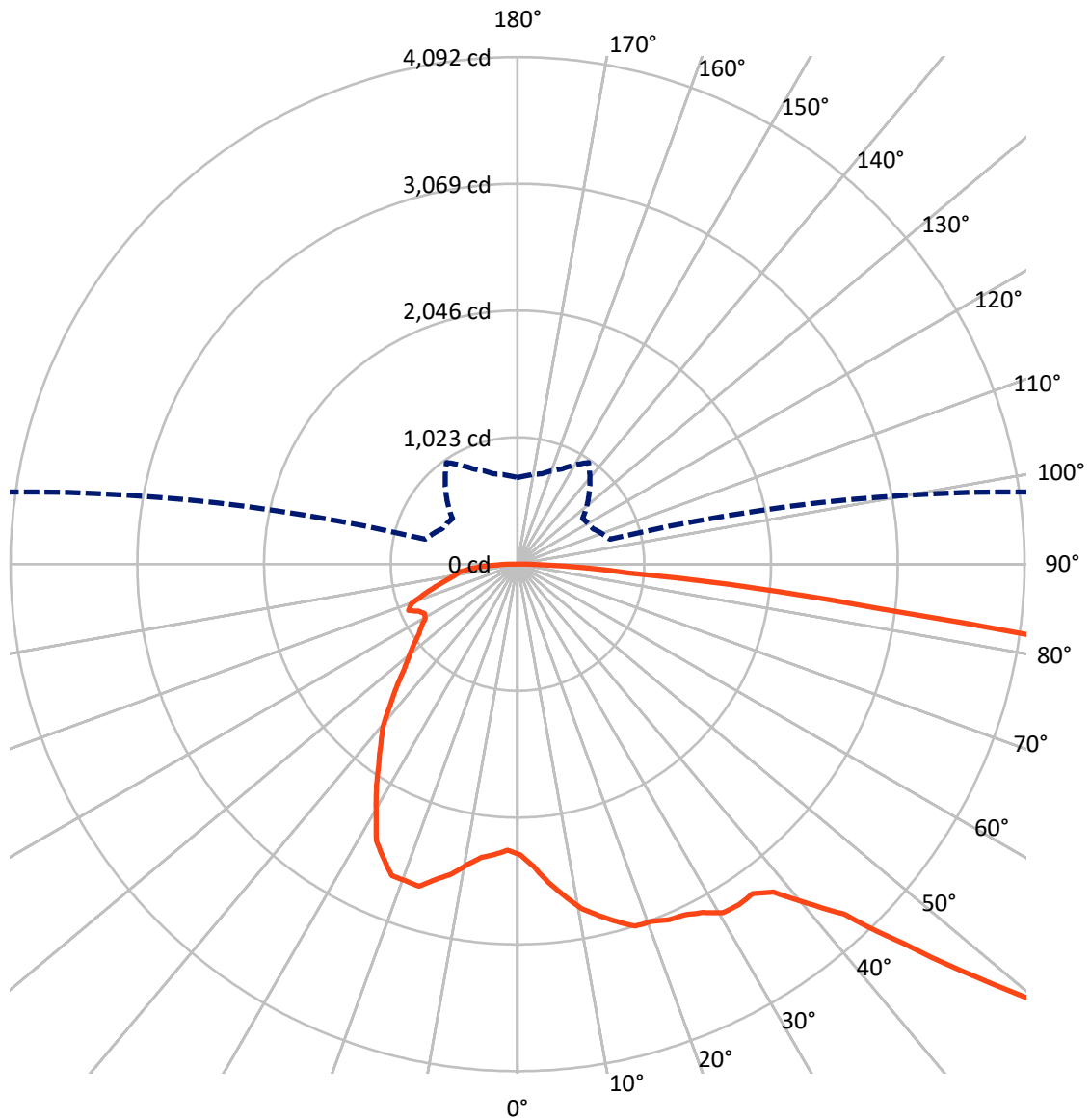
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P478528
CATALOG NUMBER: IFLD-M-SA4B-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478528

CATALOG NUMBER: IFLD-M-SA4B-735-U-T4W

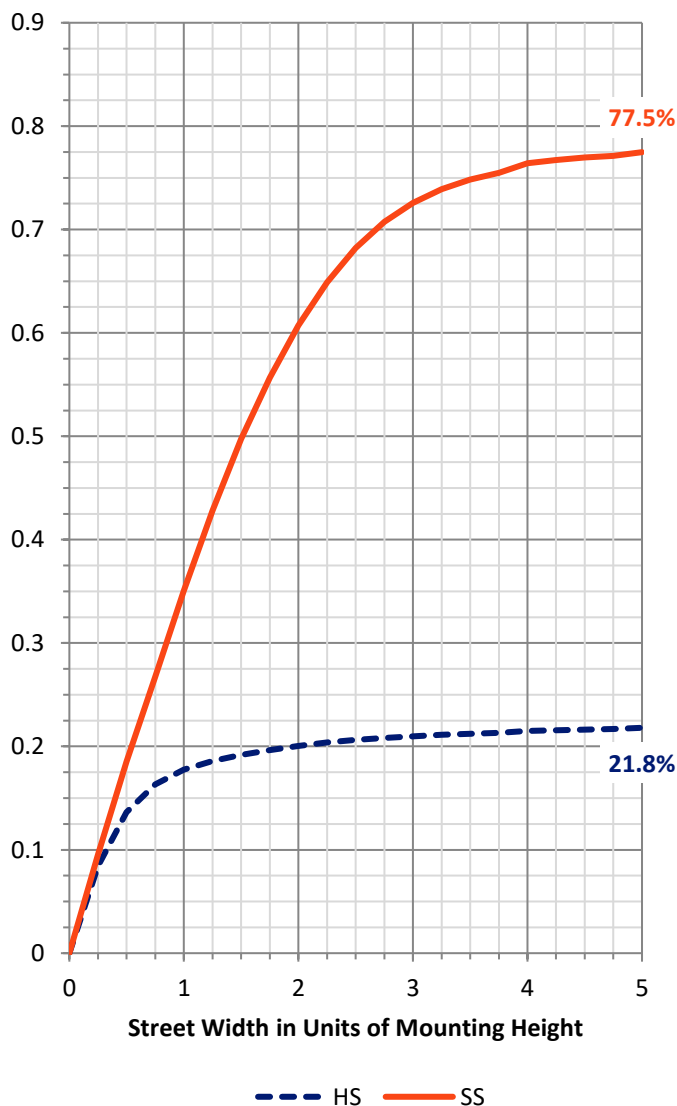
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5068.6	0.0	5068.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17700.8	0.0	17700.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	22769.4	0.0	22769.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	1.1
10°-20°	798.3	3.5
20°-30°	1348.1	5.9
30°-40°	1865.6	8.2
40°-50°	2668.5	11.7
50°-60°	4304.0	18.9
60°-70°	6347.8	27.9
70°-80°	4609.6	20.2
80°-90°	587.6	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°	22769.4	100.0
0°-180°	22769.4	100.0

Coefficient of Utilization



REPORT NUMBER: P478528

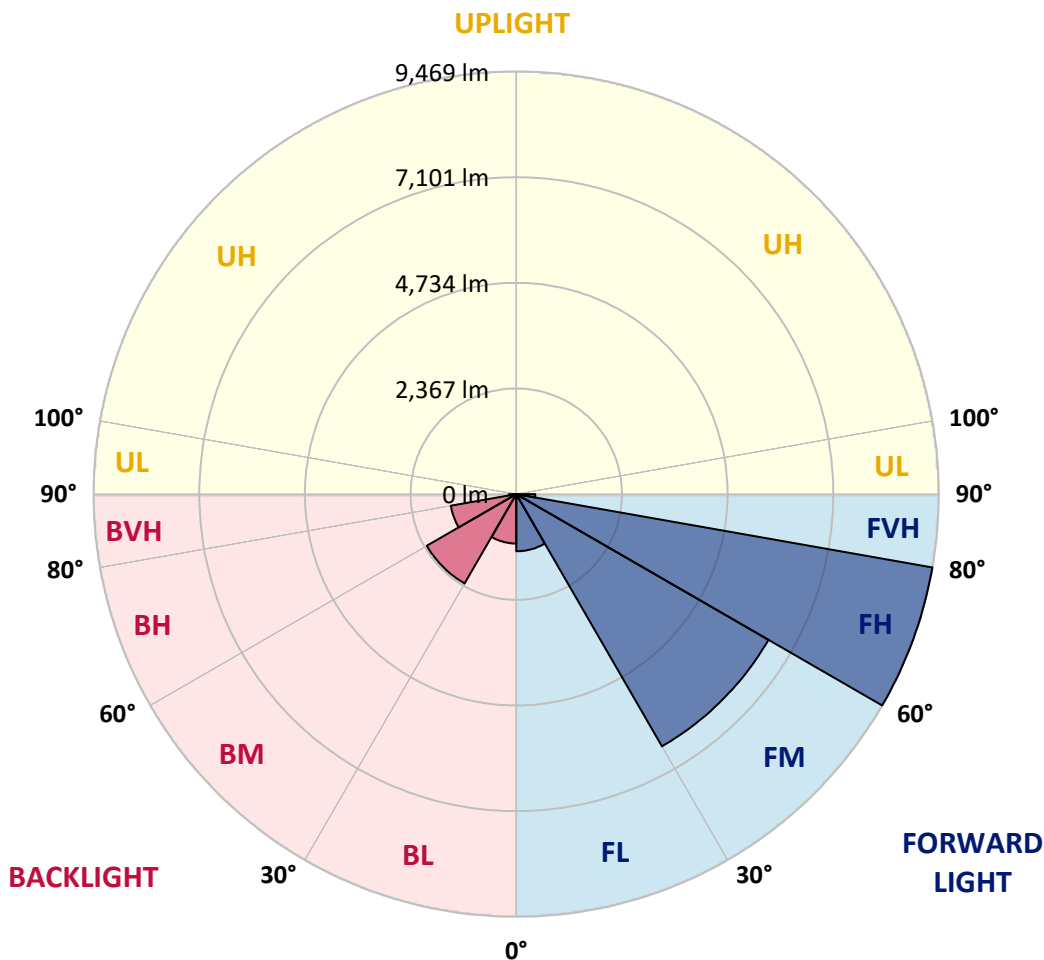
CATALOG NUMBER: IFLD-M-SA4B-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.7	5.6			
FM (30°-60°)	6524.9	28.7			
FH (60°-80°)	9468.5	41.6			G4/12000
FVH (80°-90°)	427.7	1.9			G3/500
BL (0°-30°)	1106.7	4.9	B3/2500		
BM (30°-60°)	2313.2	10.2	B2/2500		
BH (60°-80°)	1488.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	159.9	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





REPORT NUMBER: P478528

CATALOG NUMBER: IFLD-M-SA4B-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8
2.5°	2470.1	2484.8	2470.1	2467.6	2443.0	2425.9	2440.6	2418.5	2393.9	2384.1	2362.0
5°	2695.9	2698.4	2671.4	2673.8	2622.3	2568.3	2578.1	2511.8	2440.6	2413.6	2369.4
7.5°	2926.7	2899.7	2860.5	2848.2	2767.1	2708.2	2700.9	2641.9	2531.4	2470.1	2408.7
10°	3076.5	3086.3	3022.5	2968.5	2899.7	2828.5	2826.1	2715.6	2651.7	2560.9	2482.3
12.5°	3209.1	3211.6	3157.5	3071.6	2985.7	2897.3	2909.6	2860.5	2752.4	2666.5	2587.9
15°	3312.2	3297.5	3238.6	3160.0	3069.2	3000.4	2993.0	2951.3	2860.5	2789.2	2659.1
17.5°	3341.7	3334.3	3275.4	3191.9	3103.5	3052.0	3071.6	3002.9	2966.0	2902.2	2777.0
20°	3285.2	3268.0	3258.2	3164.9	3101.1	3096.2	3079.0	3093.7	3032.3	2973.4	2882.5
22.5°	3182.1	3174.7	3169.8	3096.2	3066.7	3088.8	3118.3	3140.4	3130.5	3074.1	2970.9
25°	3076.5	3110.9	3079.0	3044.6	3086.3	3142.8	3135.4	3206.7	3206.7	3189.5	3103.5
27.5°	3150.2	3128.1	3103.5	3086.3	3101.1	3189.5	3184.6	3270.5	3302.4	3270.5	3172.3
30°	3334.3	3312.2	3241.0	3164.9	3145.3	3241.0	3265.6	3341.7	3356.4	3277.9	3194.4
32.5°	3680.5	3668.3	3555.3	3331.9	3211.6	3265.6	3277.9	3363.8	3351.5	3302.4	3268.0
35°	4193.7	4152.0	3994.8	3616.7	3351.5	3297.5	3265.6	3334.3	3381.0	3356.4	3324.5
37.5°	4756.0	4709.3	4515.3	4036.6	3604.4	3383.4	3358.9	3415.4	3469.4	3457.1	3390.8
40°	5293.7	5293.7	5119.3	4562.0	3980.1	3592.1	3597.0	3533.2	3582.3	3560.2	3572.5
42.5°	5824.0	5804.4	5733.2	5178.3	4382.8	3940.8	3862.2	3702.6	3791.0	3783.7	3800.8
45°	6361.7	6347.0	6327.4	5752.8	4959.8	4412.2	4370.5	4083.2	4164.2	4129.9	4203.5
47.5°	6791.4	6808.6	6808.6	6393.7	5576.0	5040.8	4979.4	4525.2	4679.8	4697.0	4714.2
50°	7157.3	7164.6	7157.3	7005.0	6263.5	5760.2	5635.0	5173.4	5328.1	5463.1	5620.2
52.5°	7663.1	7672.9	7638.5	7579.6	7196.6	6516.4	6376.5	5863.3	6180.0	6322.5	6604.8
55°	8286.7	8213.1	8149.2	8193.4	8092.7	7348.8	7203.9	6575.4	7051.7	7240.7	7805.5
57.5°	8402.1	8466.0	8628.0	8979.1	9124.0	8159.0	8075.6	7449.4	8036.3	8200.8	9143.6
60°	8809.7	8704.1	9101.9	9863.0	10025.1	9214.8	9128.9	8407.0	9015.9	9187.8	10378.7
62.5°	9077.3	9072.4	9661.7	10565.3	10933.6	10309.9	10135.6	9651.9	10074.2	10241.2	11724.2
65°	8998.8	9070.0	10115.9	10977.7	11692.2	11554.7	11454.1	10722.4	11279.8	11265.0	12600.7
67.5°	8281.8	8483.1	9828.7	11274.8	12821.7	13072.1	13040.2	12227.5	12259.4	11947.6	12991.1
70°	7287.4	7218.6	8613.3	10965.5	13386.4	14871.9	14864.5	13347.1	13140.9	12097.4	11871.5
72°	5598.1	5522.0	6668.7	9416.2	13089.3	15591.3	15812.3	14123.0	13131.1	11476.2	9806.6
72.5°	5082.5	5016.2	6157.9	8863.7	12760.3	15777.9	15674.8	14152.5	13027.9	11184.0	9160.8
75°	2339.9	2263.8	3076.5	5426.3	9953.9	13980.6	14331.7	13244.0	11378.0	8903.0	5487.6
77.5°	697.3	675.2	989.5	2190.1	5784.7	10300.1	10435.1	9993.2	7943.0	4876.3	2035.5
80°	387.9	390.4	510.7	820.1	2543.7	5954.2	6440.3	6172.7	3896.6	1610.7	677.7
82.5°	216.1	228.3	319.2	486.2	1168.7	2732.8	2941.5	2835.9	1409.4	756.2	370.8
85°	112.9	117.9	167.0	260.3	662.9	864.3	888.8	952.7	731.7	515.6	198.9
87.5°	44.2	44.2	61.4	108.0	245.5	267.6	240.6	292.2	419.9	333.9	98.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478528
 CATALOG NUMBER: IFLD-M-SA4B-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8
2.5°	2381.7	2362.0	2359.6	2327.6	2337.5	2310.5	2312.9	2308.0	2310.5	2305.5	2293.3
5°	2369.4	2354.7	2312.9	2339.9	2315.4	2349.7	2376.8	2366.9	2374.3	2371.8	2374.3
7.5°	2386.6	2366.9	2362.0	2347.3	2369.4	2384.1	2406.2	2467.6	2462.7	2470.1	2484.8
10°	2438.1	2416.0	2401.3	2423.4	2411.1	2457.8	2482.3	2514.3	2570.7	2573.2	2543.7
12.5°	2538.8	2524.1	2494.6	2499.5	2541.3	2556.0	2570.7	2590.4	2627.2	2619.8	2646.8
15°	2654.2	2622.3	2605.1	2600.2	2610.0	2627.2	2624.7	2644.4	2664.0	2681.2	2673.8
17.5°	2737.7	2695.9	2700.9	2725.4	2723.0	2718.0	2686.1	2676.3	2686.1	2695.9	2691.0
20°	2823.6	2828.5	2791.7	2769.6	2759.8	2710.7	2686.1	2656.7	2627.2	2641.9	2664.0
22.5°	2931.7	2909.6	2855.5	2789.2	2740.1	2710.7	2634.6	2583.0	2583.0	2597.7	2590.4
25°	3054.4	3007.8	2914.5	2794.2	2732.8	2607.6	2553.5	2546.2	2526.5	2548.6	2558.4
27.5°	3150.2	3108.4	2980.8	2777.0	2607.6	2506.9	2475.0	2465.1	2497.1	2499.5	2538.8
30°	3189.5	3177.2	2990.6	2732.8	2479.9	2317.8	2298.2	2342.4	2376.8	2428.3	2430.8
32.5°	3241.0	3245.9	3005.3	2629.7	2312.9	2150.9	2121.4	2175.4	2273.6	2315.4	2347.3
35°	3327.0	3351.5	2993.0	2502.0	2136.1	1981.4	1976.5	1991.3	2087.0	2160.7	2202.4
37.5°	3476.7	3471.8	2990.6	2349.7	1996.2	1834.1	1794.8	1799.8	1863.6	1925.0	1917.6
40°	3678.1	3658.4	2983.2	2150.9	1814.5	1708.9	1642.6	1618.1	1613.1	1596.0	1600.9
42.5°	3953.1	3913.8	2980.8	1949.5	1650.0	1537.0	1490.4	1426.5	1379.9	1291.5	1296.4
45°	4336.1	4267.4	2916.9	1760.5	1487.9	1394.6	1323.4	1276.8	1176.1	1065.6	1065.6
47.5°	4927.8	4704.4	2919.4	1551.8	1330.8	1254.7	1205.6	1124.5	1016.5	928.1	918.3
50°	5799.5	5288.8	2835.9	1387.3	1203.1	1151.5	1100.0	1006.7	903.6	842.2	849.5
52.5°	6924.0	6160.4	2833.4	1239.9	1102.4	1065.6	1009.1	925.7	849.5	810.3	795.5
55°	8264.6	7314.4	2921.8	1119.6	999.3	979.7	955.1	886.4	812.7	778.3	775.9
57.5°	9637.1	8441.4	3064.2	1033.7	910.9	925.7	908.5	854.5	795.5	756.2	751.3
60°	10857.4	9335.1	2777.0	930.6	832.4	864.3	888.8	842.2	810.3	807.8	790.6
62.5°	11778.2	9718.2	2111.6	852.0	790.6	849.5	915.8	945.3	930.6	950.2	952.7
65°	12114.6	9487.4	1453.6	810.3	758.7	883.9	1031.2	1021.4	935.5	898.6	918.3
67.5°	11643.1	8551.9	1077.9	761.2	736.6	955.1	1097.5	974.8	844.6	839.7	825.0
70°	10012.8	7248.1	879.0	709.6	699.8	915.8	1068.1	903.6	795.5	763.6	748.9
72°	7977.3	5644.8	771.0	672.8	640.8	817.6	999.3	847.1	753.8	714.5	697.3
72.5°	7282.5	5232.3	756.2	655.6	628.6	795.5	964.9	829.9	744.0	709.6	682.6
75°	3994.8	2678.8	665.4	601.6	530.3	687.5	893.7	778.3	702.2	653.1	648.2
77.5°	1485.5	1038.6	574.5	532.8	459.1	594.2	812.7	739.1	638.4	577.0	564.7
80°	569.6	547.5	469.0	449.3	385.5	520.5	748.9	662.9	542.6	481.2	461.6
82.5°	346.2	319.2	356.0	351.1	294.6	473.9	704.7	621.2	481.2	390.4	378.1
85°	189.1	189.1	248.0	238.2	206.2	378.1	532.8	412.5	304.5	250.4	255.4
87.5°	83.5	98.2	132.6	125.2	112.9	213.6	260.3	218.5	152.2	103.1	110.5
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)