

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: P478549

Luminaire Tested: **IFLD-S-SA3D-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

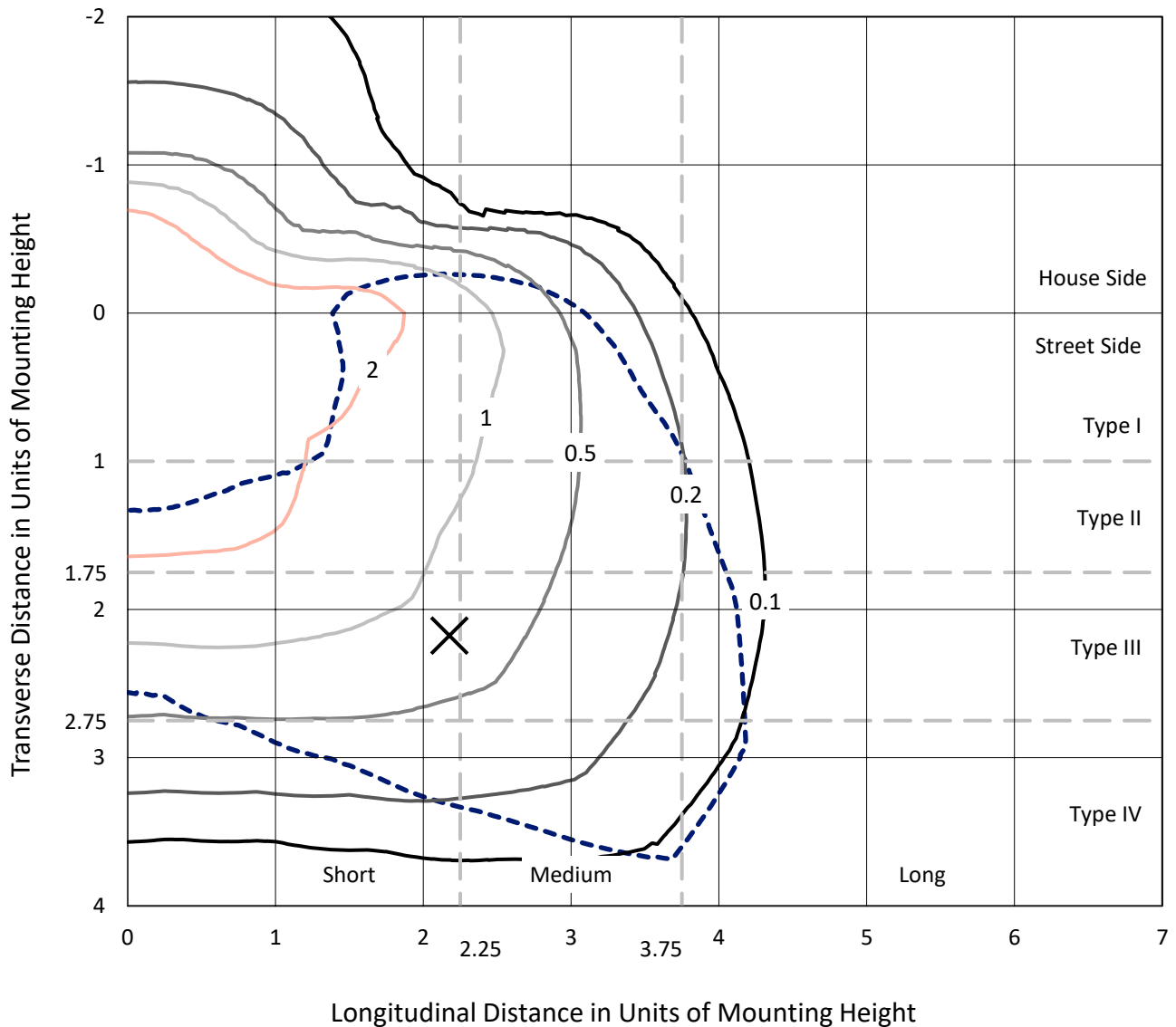
Lumens per Lamp: N/A
Luminaire Lumens: 23558.3 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

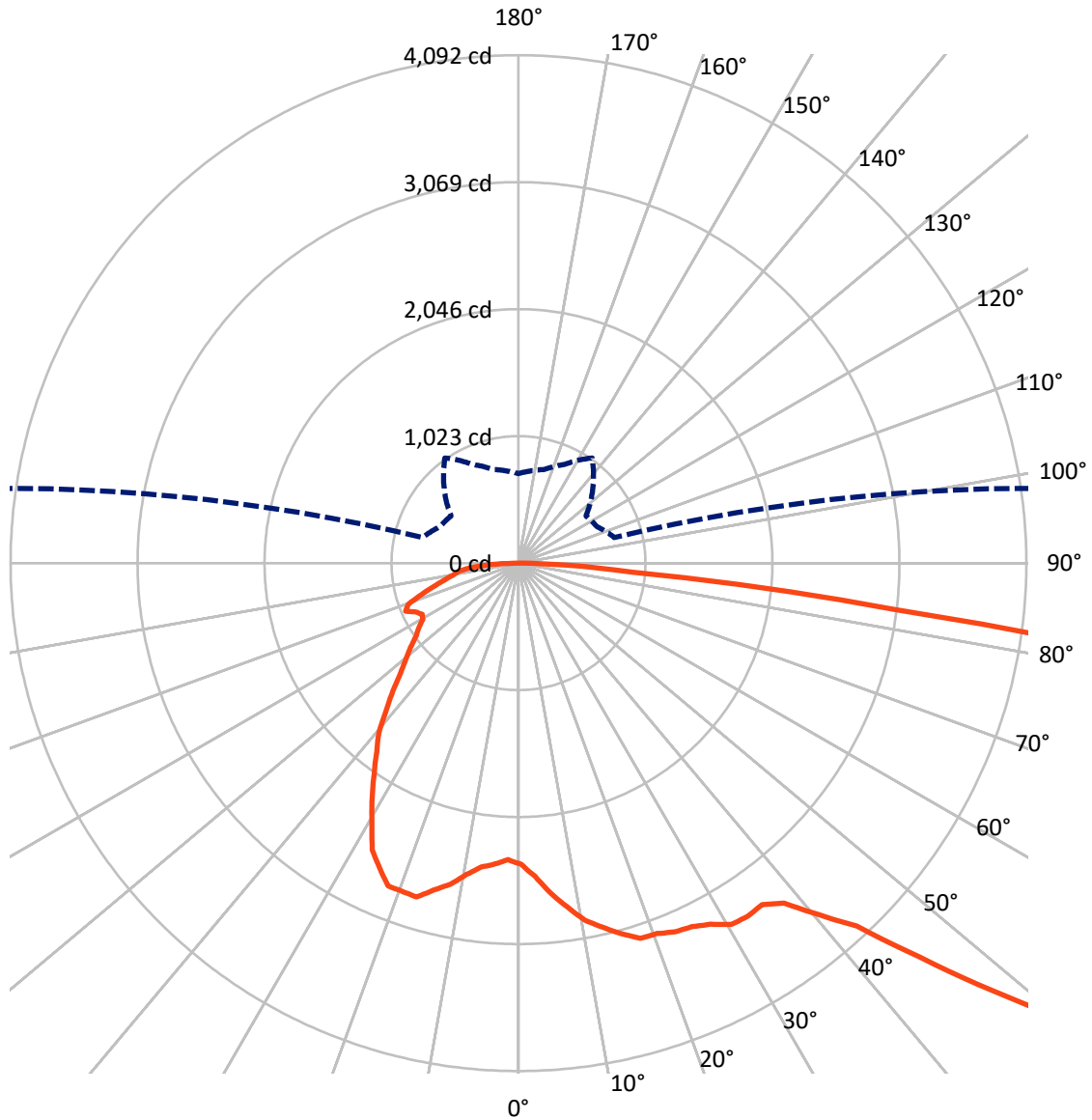
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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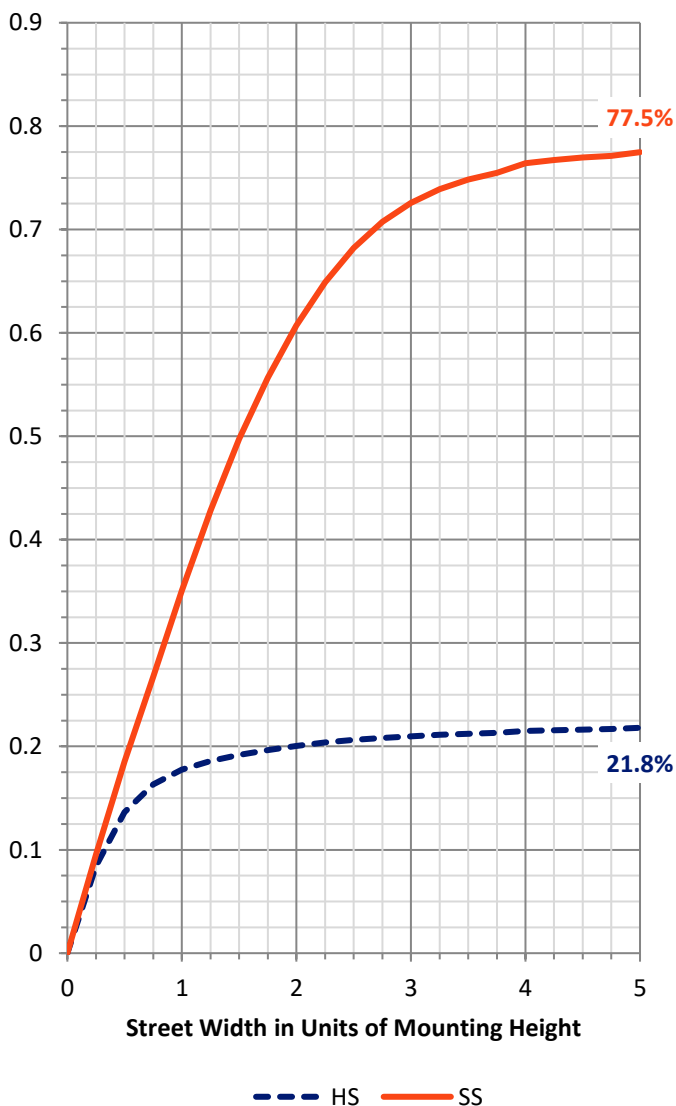
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5244.2	0.0	5244.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18314.0	0.0	18314.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	23558.3	0.0	23558.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.1
10°-20°	826.0	3.5
20°-30°	1394.8	5.9
30°-40°	1930.2	8.2
40°-50°	2761.0	11.7
50°-60°	4453.1	18.9
60°-70°	6567.7	27.9
70°-80°	4769.3	20.2
80°-90°	608.0	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°	23558.3	100.0
0°-180°	23558.3	100.0

Coefficient of Utilization



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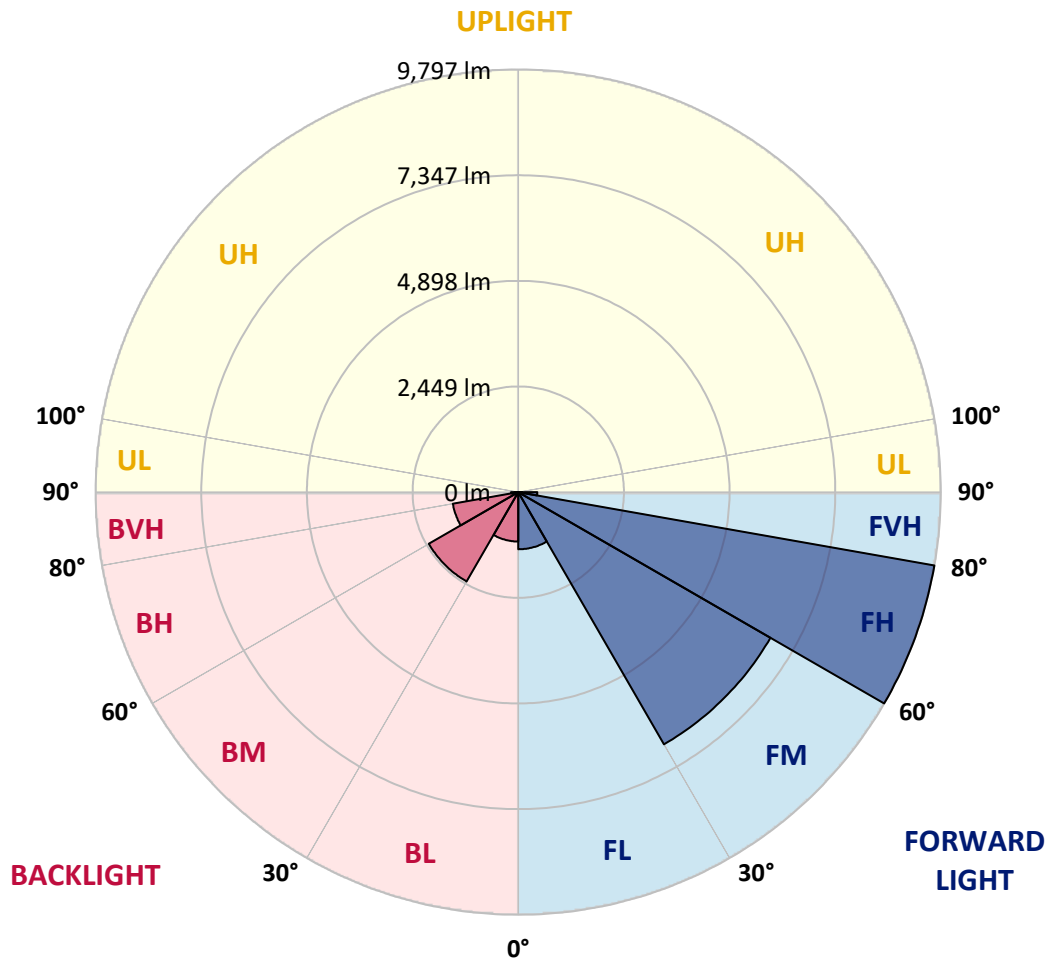
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.0	5.6			
FM (30°-60°)	6751.0	28.7			
FH (60°-80°)	9796.6	41.6			G4/12000
FVH (80°-90°)	442.5	1.9			G3/500
BL (0°-30°)	1145.0	4.9	B3/2500		
BM (30°-60°)	2393.3	10.2	B2/2500		
BH (60°-80°)	1540.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	165.5	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°	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1
2.5°	2555.6	2570.9	2555.6	2553.1	2527.7	2509.9	2525.1	2502.3	2476.9	2466.7	2443.9
5°	2789.3	2791.9	2763.9	2766.5	2713.1	2657.2	2667.4	2598.8	2525.1	2497.2	2451.5
7.5°	3028.1	3000.2	2959.6	2946.9	2863.0	2802.1	2794.4	2733.5	2619.1	2555.6	2492.1
10°	3183.1	3193.3	3127.2	3071.3	3000.2	2926.5	2924.0	2809.7	2743.6	2649.6	2568.3
12.5°	3320.3	3322.8	3266.9	3178.0	3089.1	2997.7	3010.4	2959.6	2847.8	2758.9	2677.6
15°	3427.0	3411.7	3350.8	3269.5	3175.5	3104.4	3096.7	3053.6	2959.6	2885.9	2751.2
17.5°	3457.5	3449.9	3388.9	3302.5	3211.1	3157.7	3178.0	3106.9	3068.8	3002.7	2873.2
20°	3399.0	3381.3	3371.1	3274.6	3208.5	3203.4	3185.7	3200.9	3137.4	3076.4	2982.4
22.5°	3292.3	3284.7	3279.6	3203.4	3172.9	3195.8	3226.3	3249.2	3239.0	3180.6	3073.9
25°	3183.1	3218.7	3185.7	3150.1	3193.3	3251.7	3244.1	3317.8	3317.8	3300.0	3211.1
27.5°	3259.3	3236.5	3211.1	3193.3	3208.5	3300.0	3294.9	3383.8	3416.8	3383.8	3282.2
30°	3449.9	3427.0	3353.3	3274.6	3254.2	3353.3	3378.7	3457.5	3472.7	3391.4	3305.0
32.5°	3808.0	3795.3	3678.5	3447.3	3322.8	3378.7	3391.4	3480.3	3467.6	3416.8	3381.3
35°	4339.0	4295.8	4133.2	3742.0	3467.6	3411.7	3378.7	3449.9	3498.1	3472.7	3439.7
37.5°	4920.7	4872.5	4671.8	4176.4	3729.3	3500.7	3475.3	3533.7	3589.6	3576.9	3508.3
40°	5477.1	5477.1	5296.7	4720.0	4118.0	3716.6	3721.7	3655.6	3706.4	3683.6	3696.3
42.5°	6025.8	6005.5	5931.8	5357.7	4534.6	4077.3	3996.0	3830.9	3922.4	3914.7	3932.5
45°	6582.2	6566.9	6546.6	5952.1	5131.6	4565.1	4521.9	4224.7	4308.5	4272.9	4349.1
47.5°	7026.7	7044.5	7044.5	6615.2	5769.2	5215.4	5151.9	4681.9	4842.0	4859.8	4877.6
50°	7405.2	7412.9	7405.2	7247.7	6480.5	5959.8	5830.2	5352.6	5512.6	5652.4	5815.0
52.5°	7928.6	7938.7	7903.2	7842.2	7445.9	6742.2	6597.4	6066.5	6394.2	6541.5	6833.7
55°	8573.8	8497.6	8431.6	8477.3	8373.1	7603.4	7453.5	6803.2	7296.0	7491.6	8075.9
57.5°	8693.2	8759.3	8926.9	9290.2	9440.1	8441.7	8355.3	7707.5	8314.7	8484.9	9460.4
60°	9114.9	9005.7	9417.2	10204.8	10372.4	9534.1	9445.2	8698.3	9328.3	9506.1	10738.2
62.5°	9391.8	9386.7	9996.4	10931.3	11312.4	10667.1	10486.7	9986.3	10423.2	10596.0	12130.4
65°	9310.5	9384.2	10466.4	11358.1	12097.3	11955.1	11850.9	11093.9	11670.6	11655.3	13037.3
67.5°	8568.7	8777.1	10169.2	11665.5	13265.9	13525.0	13492.0	12651.1	12684.2	12361.5	13441.2
70°	7539.9	7468.8	8911.7	11345.4	13850.2	15387.1	15379.5	13809.6	13596.2	12516.5	12282.8
72°	5792.1	5713.3	6899.7	9742.4	13542.8	16131.5	16360.1	14612.3	13586.0	11873.8	10146.3
72.5°	5258.6	5190.0	6371.3	9170.8	13202.4	16324.6	16217.9	14642.8	13479.3	11571.5	9478.2
75°	2421.0	2342.2	3183.1	5614.3	10298.7	14465.0	14828.3	13702.9	11772.2	9211.5	5677.8
77.5°	721.5	698.6	1023.8	2266.0	5985.2	10656.9	10796.7	10339.4	8218.2	5045.2	2106.0
80°	401.4	403.9	528.4	848.5	2631.8	6160.4	6663.4	6386.5	4031.6	1666.5	701.1
82.5°	223.6	236.3	330.3	503.0	1209.2	2827.5	3043.4	2934.2	1458.2	782.4	383.6
85°	116.9	121.9	172.7	269.3	685.9	894.2	919.6	985.7	757.0	533.5	205.8
87.5°	45.7	45.7	63.5	111.8	254.0	276.9	249.0	302.3	434.4	345.5	101.6
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°	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1	2426.1
2.5°	2464.2	2443.9	2441.3	2408.3	2418.5	2390.5	2393.0	2388.0	2390.5	2385.4	2372.7
5°	2451.5	2436.2	2393.0	2421.0	2395.6	2431.2	2459.1	2448.9	2456.6	2454.0	2456.6
7.5°	2469.3	2448.9	2443.9	2428.6	2451.5	2466.7	2489.6	2553.1	2548.0	2555.6	2570.9
10°	2522.6	2499.7	2484.5	2507.4	2494.7	2542.9	2568.3	2601.4	2659.8	2662.3	2631.8
12.5°	2626.8	2611.5	2581.0	2586.1	2629.3	2644.5	2659.8	2680.1	2718.2	2710.6	2738.5
15°	2746.2	2713.1	2695.4	2690.3	2700.4	2718.2	2715.7	2736.0	2756.3	2774.1	2766.5
17.5°	2832.5	2789.3	2794.4	2819.8	2817.3	2812.2	2779.2	2769.0	2779.2	2789.3	2784.3
20°	2921.4	2926.5	2888.4	2865.6	2855.4	2804.6	2779.2	2748.7	2718.2	2733.5	2756.3
22.5°	3033.2	3010.4	2954.5	2885.9	2835.1	2804.6	2725.8	2672.5	2672.5	2687.7	2680.1
25°	3160.2	3112.0	3015.4	2891.0	2827.5	2697.9	2642.0	2634.4	2614.1	2636.9	2647.1
27.5°	3259.3	3216.1	3084.0	2873.2	2697.9	2593.7	2560.7	2550.6	2583.6	2586.1	2626.8
30°	3300.0	3287.3	3094.2	2827.5	2565.8	2398.1	2377.8	2423.5	2459.1	2512.4	2515.0
32.5°	3353.3	3358.4	3109.4	2720.8	2393.0	2225.4	2194.9	2250.8	2352.4	2395.6	2428.6
35°	3442.2	3467.6	3096.7	2588.7	2210.1	2050.1	2045.0	2060.3	2159.3	2235.5	2278.7
37.5°	3597.2	3592.1	3094.2	2431.2	2065.3	1897.7	1857.0	1862.1	1928.2	1991.7	1984.0
40°	3805.5	3785.2	3086.6	2225.4	1877.3	1768.1	1699.5	1674.1	1669.0	1651.3	1656.3
42.5°	4090.0	4049.4	3084.0	2017.1	1707.1	1590.3	1542.0	1476.0	1427.7	1336.2	1341.3
45°	4486.3	4415.2	3018.0	1821.5	1539.5	1442.9	1369.3	1321.0	1216.8	1102.5	1102.5
47.5°	5098.6	4867.4	3020.5	1605.5	1376.9	1298.1	1247.3	1163.5	1051.7	960.3	950.1
50°	6000.4	5472.0	2934.2	1435.3	1244.8	1191.4	1138.1	1041.6	934.9	871.4	879.0
52.5°	7163.9	6373.8	2931.6	1282.9	1140.6	1102.5	1044.1	957.7	879.0	838.3	823.1
55°	8551.0	7567.8	3023.1	1158.4	1033.9	1013.6	988.2	917.1	840.9	805.3	802.8
57.5°	9971.0	8733.9	3170.4	1069.5	942.5	957.7	939.9	884.1	823.1	782.4	777.4
60°	11233.6	9658.6	2873.2	962.8	861.2	894.2	919.6	871.4	838.3	835.8	818.0
62.5°	12186.3	10054.9	2184.7	881.5	818.0	879.0	947.6	978.1	962.8	983.1	985.7
65°	12534.3	9816.1	1503.9	838.3	785.0	914.5	1067.0	1056.8	967.9	929.8	950.1
67.5°	12046.5	8848.2	1115.2	787.5	762.1	988.2	1135.6	1008.5	873.9	868.8	853.6
70°	10359.7	7499.2	909.5	734.2	724.0	947.6	1105.1	934.9	823.1	790.1	774.8
72°	8253.7	5840.4	797.7	696.1	663.0	846.0	1033.9	876.4	779.9	739.3	721.5
72.5°	7534.8	5413.6	782.4	678.3	650.3	823.1	998.4	858.7	769.7	734.2	706.2
75°	4133.2	2771.6	688.4	622.4	548.7	711.3	924.7	805.3	726.6	675.7	670.7
77.5°	1536.9	1074.6	594.5	551.3	475.1	614.8	840.9	764.7	660.5	597.0	584.3
80°	589.4	566.5	485.2	464.9	398.8	538.6	774.8	685.9	561.4	497.9	477.6
82.5°	358.2	330.3	368.4	363.3	304.8	490.3	729.1	642.7	497.9	403.9	391.2
85°	195.6	195.6	256.6	246.4	213.4	391.2	551.3	426.8	315.0	259.1	264.2
87.5°	86.4	101.6	137.2	129.6	116.9	221.0	269.3	226.1	157.5	106.7	114.3
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)