

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: P478995

Luminaire Tested: **IFLD-M-SA4A-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478995
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

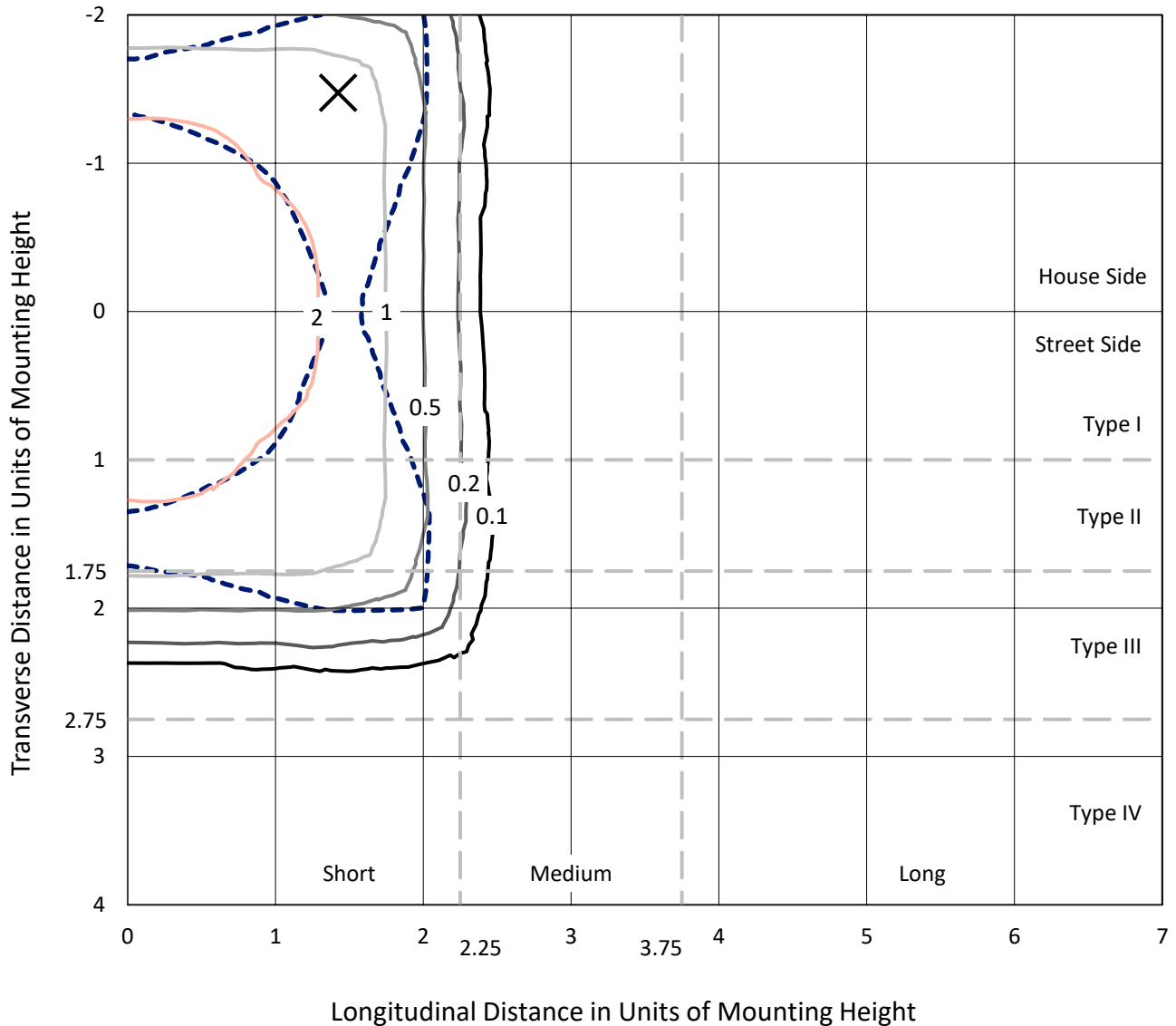
Lumens per Lamp: N/A
Luminaire Lumens: 18840.6 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

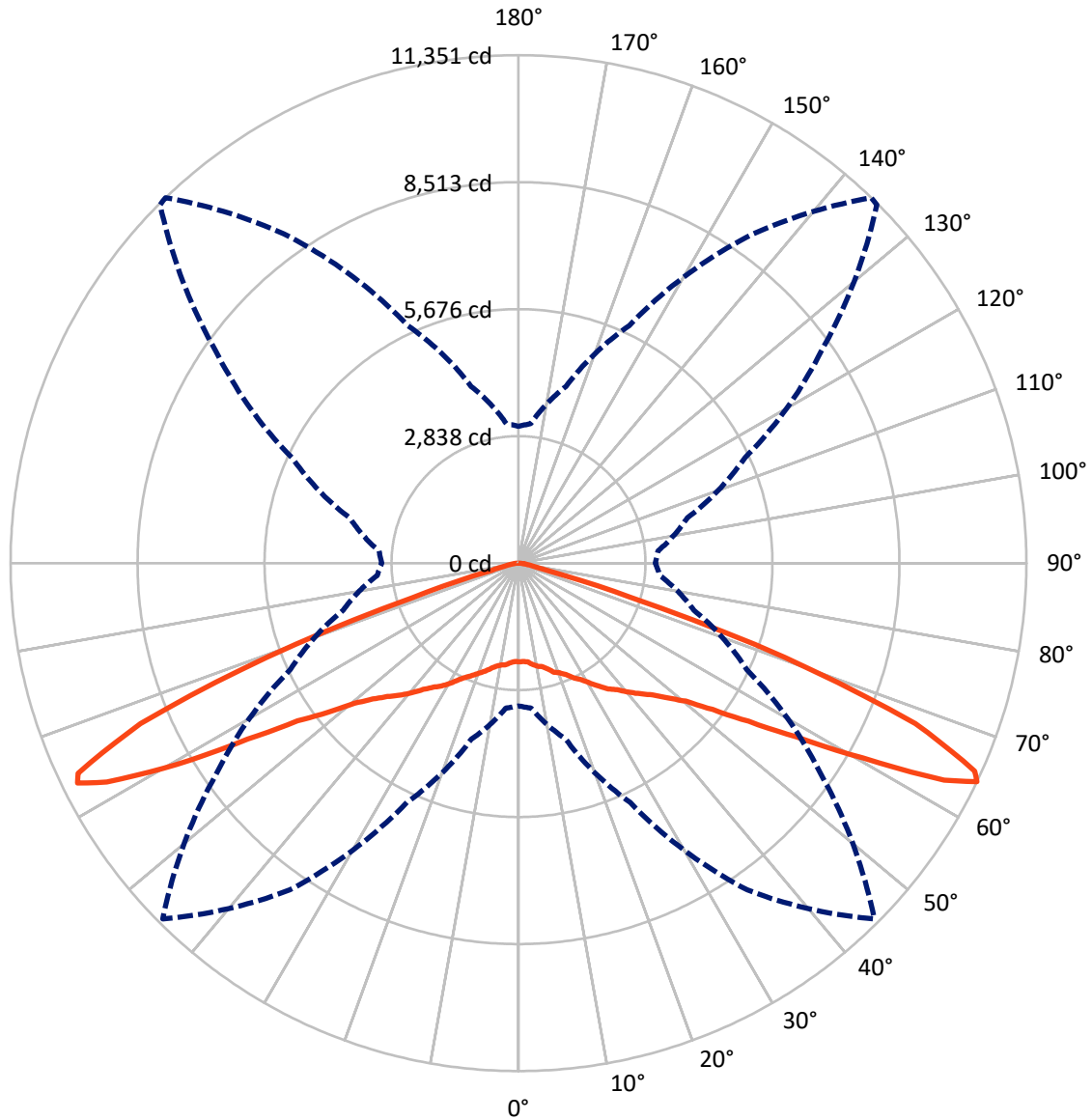
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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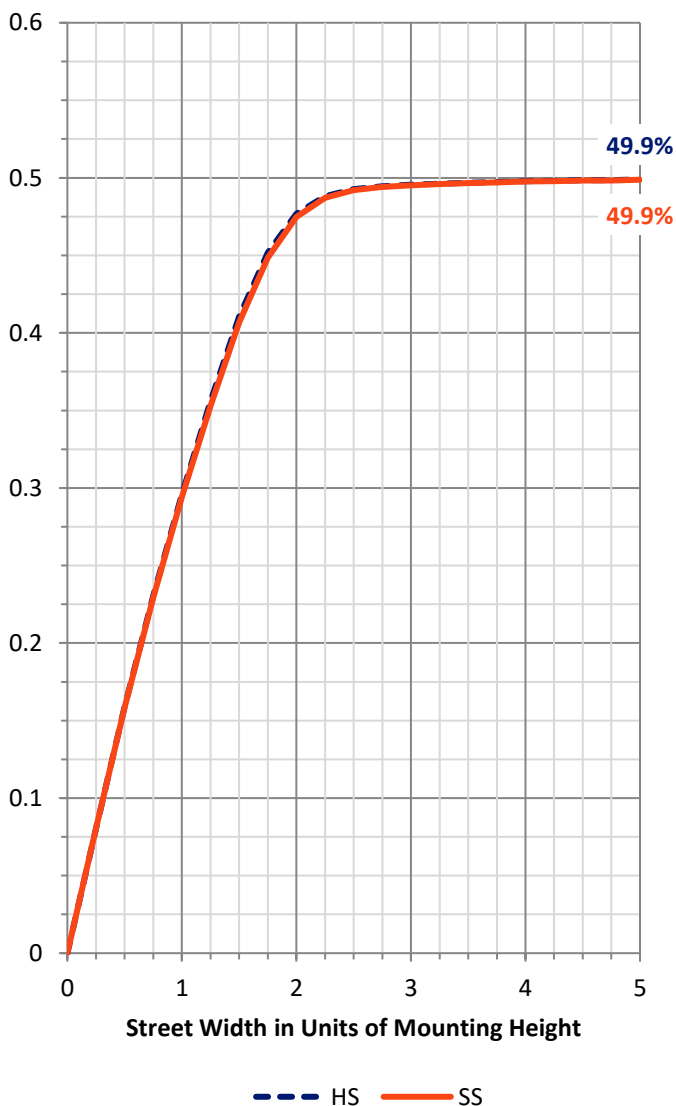
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9429.3	0.0	9429.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9411.3	0.0	9411.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	18840.6	0.0	18840.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	1.2
10°-20°	698.6	3.7
20°-30°	1312.9	7.0
30°-40°	2165.2	11.5
40°-50°	3386.2	18.0
50°-60°	5471.2	29.0
60°-70°	4926.5	26.1
70°-80°	583.6	3.1
80°-90°	79.9	0.4
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°	18840.6	100.0
0°-180°	18840.6	100.0



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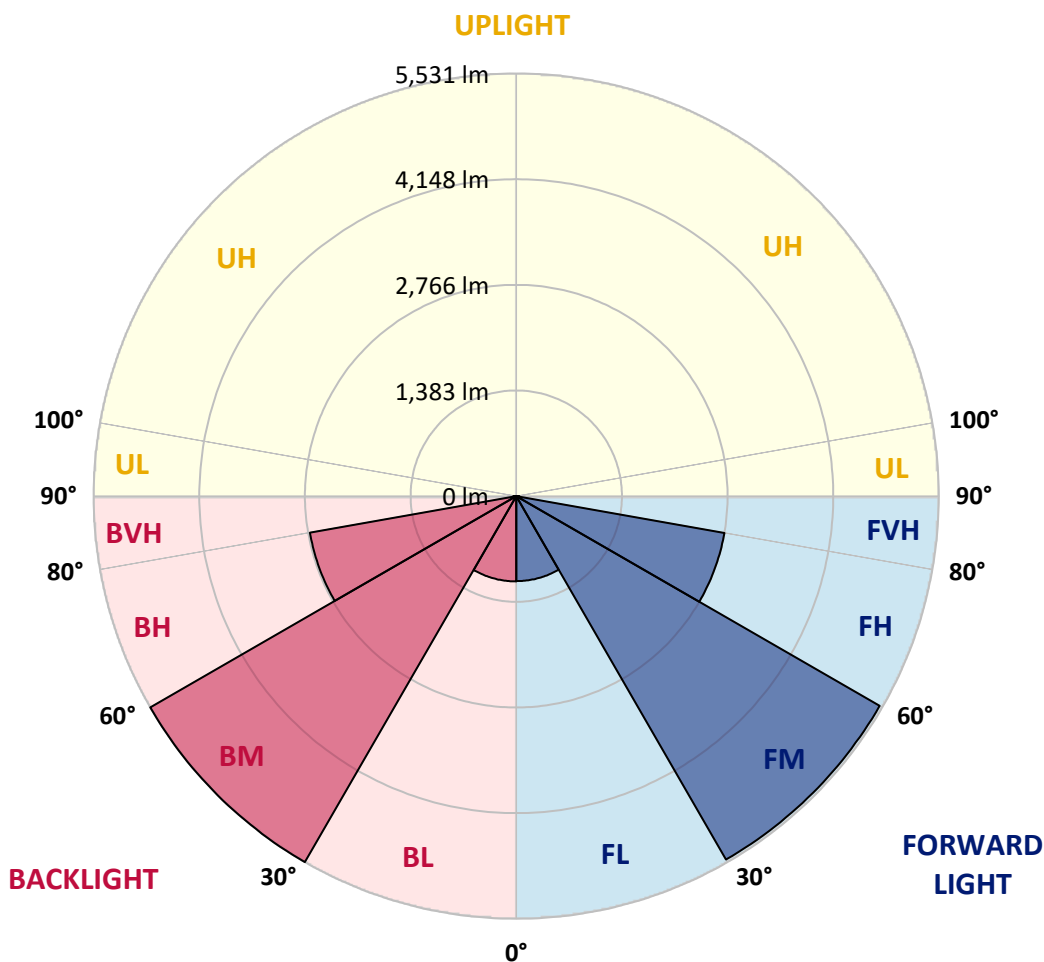
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.9	5.9			
FM (30°-60°)	5491.5	29.1			
FH (60°-80°)	2767.0	14.7			G2/5000
FVH (80°-90°)	41.0	0.2			G1/100
BL (0°-30°)	1116.2	5.9	B3/2500		
BM (30°-60°)	5531.1	29.4	B4/8500		
BH (60°-80°)	2743.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	38.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9
2.5°	2179.9	2184.2	2223.1	2208.0	2221.0	2197.2	2214.5	2251.2	2208.0	2240.4	2251.2
5°	2203.7	2210.2	2210.2	2225.3	2233.9	2229.6	2240.4	2225.3	2266.3	2249.1	2275.0
7.5°	2290.1	2279.3	2262.0	2275.0	2277.1	2288.0	2298.8	2318.2	2311.7	2296.6	2322.5
10°	2305.2	2296.6	2322.5	2324.7	2313.9	2305.2	2316.0	2316.0	2335.5	2339.8	2339.8
12.5°	2331.2	2339.8	2337.6	2354.9	2357.1	2350.6	2367.9	2400.3	2391.7	2398.1	2383.0
15°	2430.5	2419.7	2417.6	2434.9	2463.0	2421.9	2452.1	2450.0	2441.3	2454.3	2419.7
17.5°	2517.0	2482.4	2497.5	2525.6	2514.8	2523.4	2562.3	2527.8	2536.4	2521.3	2510.5
20°	2592.6	2564.5	2566.7	2577.5	2577.5	2603.4	2618.5	2605.5	2596.9	2594.7	2599.1
22.5°	2676.8	2644.4	2646.6	2692.0	2707.1	2698.4	2687.6	2709.2	2713.6	2696.3	2715.7
25°	2739.5	2774.1	2784.9	2806.5	2774.1	2797.8	2789.2	2830.2	2856.2	2821.6	2845.4
27.5°	2903.7	2888.6	2916.7	2914.5	2940.4	2916.7	2931.8	2944.7	2955.5	2957.7	2946.9
30°	3050.6	3057.1	3029.0	3104.6	3044.1	3083.0	3108.9	3115.4	3128.4	3128.4	3096.0
32.5°	3206.2	3193.2	3238.6	3221.3	3210.5	3240.7	3212.6	3301.2	3249.4	3279.6	3242.9
35°	3381.2	3381.2	3398.4	3446.0	3381.2	3361.7	3413.6	3450.3	3450.3	3396.3	3409.2
37.5°	3577.8	3560.5	3582.1	3642.6	3592.9	3528.1	3623.1	3638.3	3627.5	3612.3	3586.4
40°	3716.0	3711.7	3754.9	3834.9	3763.6	3750.6	3767.9	3808.9	3821.9	3837.0	3802.4
42.5°	3949.4	3968.8	4094.1	4074.7	4016.3	3971.0	3966.6	4120.0	4083.3	4044.4	4025.0
45°	4295.0	4277.8	4342.6	4344.7	4269.1	4169.7	4191.3	4331.8	4394.4	4308.0	4340.4
47.5°	4569.4	4578.1	4623.4	4716.3	4541.3	4437.6	4517.6	4744.4	4725.0	4692.6	4722.8
50°	4936.7	4975.6	5118.2	5085.8	4930.2	4802.8	4977.8	5191.6	5215.4	5096.6	5075.0
52.5°	5444.4	5504.9	5582.7	5608.6	5459.5	5414.2	5425.0	5690.7	5632.4	5517.9	5444.4
55°	5889.5	5917.6	6060.2	6274.0	6263.2	6045.0	6170.3	6269.7	6032.1	5796.6	5816.0
57.5°	6079.6	6092.6	6490.1	6917.9	7172.8	7222.5	7079.9	6745.0	6179.0	5725.3	5697.2
60°	5606.5	5729.6	6209.2	7175.0	8339.5	8914.2	7965.7	6799.0	5835.5	5284.5	5243.5
62.5°	4480.8	4487.3	5200.3	6665.1	9065.4	10571.2	8304.9	6291.3	4919.4	4295.0	4130.8
64°	3191.0	3251.5	4070.3	5900.3	8914.2	11245.3	8263.8	5628.1	4055.2	3169.4	3054.9
65°	2290.1	2374.4	3165.1	5122.5	8559.8	11165.4	8140.7	5057.7	3279.6	2419.7	2303.1
67.5°	842.6	877.2	1242.3	2562.3	6146.6	9514.8	6451.2	2780.5	1441.0	1026.2	922.5
70°	391.0	393.2	460.2	846.9	2687.6	6362.6	3078.7	1043.5	542.3	429.9	399.7
72.5°	287.3	293.8	321.9	391.0	790.7	2694.1	1011.1	427.8	317.6	280.9	274.4
75°	233.3	237.7	246.3	283.0	365.1	721.6	410.5	296.0	252.8	226.9	218.2
77.5°	179.3	179.3	198.8	216.0	242.0	337.0	272.2	235.5	205.2	179.3	172.8
80°	129.6	131.8	155.6	168.5	164.2	222.5	196.6	194.4	168.5	140.4	129.6
82.5°	75.6	82.1	112.3	121.0	116.7	131.8	142.6	151.2	131.8	97.2	88.6
85°	43.2	45.4	64.8	67.0	67.0	62.7	82.1	90.7	88.6	60.5	54.0
87.5°	13.0	13.0	17.3	17.3	19.4	21.6	32.4	38.9	43.2	30.2	28.1
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9	2205.9
2.5°	2240.4	2208.0	2210.2	2218.8	2190.7	2201.5	2233.9	2210.2	2203.7	2190.7	2184.2
5°	2229.6	2264.2	2251.2	2255.5	2249.1	2218.8	2214.5	2233.9	2244.7	2225.3	2264.2
7.5°	2305.2	2290.1	2272.8	2279.3	2264.2	2290.1	2307.4	2268.5	2288.0	2277.1	2255.5
10°	2348.4	2320.4	2333.3	2329.0	2318.2	2344.1	2326.8	2322.5	2305.2	2281.5	2316.0
12.5°	2363.6	2396.0	2417.6	2380.9	2387.3	2374.4	2363.6	2363.6	2344.1	2337.6	2344.1
15°	2430.5	2458.6	2450.0	2478.1	2441.3	2454.3	2467.3	2434.9	2452.1	2404.6	2441.3
17.5°	2553.7	2529.9	2560.2	2523.4	2536.4	2562.3	2521.3	2521.3	2534.2	2508.3	2475.9
20°	2631.5	2620.7	2609.9	2612.0	2590.4	2614.2	2601.2	2594.7	2575.3	2583.9	2601.2
22.5°	2704.9	2689.8	2694.1	2700.6	2715.7	2704.9	2698.4	2704.9	2657.4	2700.6	2640.1
25°	2795.7	2836.7	2823.8	2851.8	2808.6	2836.7	2834.6	2793.5	2819.4	2802.1	2789.2
27.5°	2946.9	2925.3	2944.7	2910.2	2940.4	2942.6	2916.7	2985.8	2955.5	2951.2	2942.6
30°	3141.3	3126.2	3113.3	3093.8	3117.6	3098.1	3119.7	3126.2	3098.1	3076.5	3035.5
32.5°	3251.5	3292.6	3307.7	3260.2	3262.3	3273.1	3253.7	3234.2	3251.5	3258.0	3251.5
35°	3407.1	3446.0	3454.6	3417.9	3398.4	3452.5	3413.6	3478.4	3422.2	3424.4	3366.0
37.5°	3588.6	3599.4	3672.8	3631.8	3614.5	3588.6	3659.9	3651.2	3664.2	3560.5	3612.3
40°	3793.8	3832.7	3873.7	3770.0	3767.9	3791.6	3787.3	3837.0	3813.3	3798.1	3761.4
42.5°	4018.5	4100.6	4107.1	4037.9	3994.7	3990.4	4012.0	4122.2	4124.4	4025.0	3981.8
45°	4316.6	4407.4	4383.6	4249.7	4202.1	4195.7	4301.5	4349.1	4390.1	4351.2	4314.5
47.5°	4688.2	4748.7	4731.5	4608.3	4454.9	4498.1	4601.8	4750.9	4707.7	4655.8	4612.6
50°	5085.8	5157.1	5120.3	4997.2	4850.3	4850.3	4977.8	5167.9	5154.9	5053.4	5014.5
52.5°	5526.5	5630.2	5714.5	5539.5	5416.3	5435.8	5636.7	5705.8	5673.4	5602.1	5569.7
55°	5854.9	6053.7	6226.5	6235.2	6241.6	6239.5	6291.3	6360.5	6129.3	6014.8	5898.1
57.5°	5775.0	6150.9	6742.9	7144.7	7263.5	7326.2	7308.9	6989.2	6442.6	6066.6	6105.5
60°	5204.6	5818.2	6773.1	8062.9	8927.1	8840.7	8525.3	7261.4	6269.7	5634.5	5554.6
62.5°	4152.4	4891.3	6265.4	8322.2	10703.0	10677.1	9026.5	6632.7	5224.0	4420.3	4370.7
64°	3128.4	3906.2	5589.2	8255.2	11325.3	11351.2	8899.0	5859.2	4087.6	3128.4	3052.8
65°	2393.8	3115.4	4925.9	8116.9	11191.3	11206.4	8544.7	5059.9	3106.8	2221.0	2138.9
67.5°	952.8	1326.5	2672.5	6155.2	9609.8	9568.8	6096.9	2447.8	1188.3	773.5	758.3
70°	406.2	505.6	937.6	2916.7	6433.9	6315.1	2625.0	795.1	440.7	369.4	367.3
72.5°	278.7	308.9	401.8	900.9	2674.7	2612.0	747.5	369.4	300.3	276.5	276.5
75°	224.7	246.3	291.7	378.1	708.6	682.7	352.2	272.2	239.8	222.5	220.4
77.5°	175.0	196.6	229.0	261.4	324.1	321.9	235.5	205.2	185.8	172.8	168.5
80°	138.3	159.9	181.5	185.8	211.7	207.4	159.9	162.0	151.2	125.3	123.1
82.5°	95.1	129.6	144.8	131.8	125.3	125.3	114.5	114.5	105.9	77.8	71.3
85°	58.3	86.4	90.7	77.8	58.3	58.3	62.7	60.5	56.2	41.0	38.9
87.5°	30.2	41.0	36.7	30.2	19.4	19.4	17.3	13.0	13.0	10.8	10.8
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)