

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: P481219

Luminaire Tested: **IFLD-M-SA4B-730-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481219  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

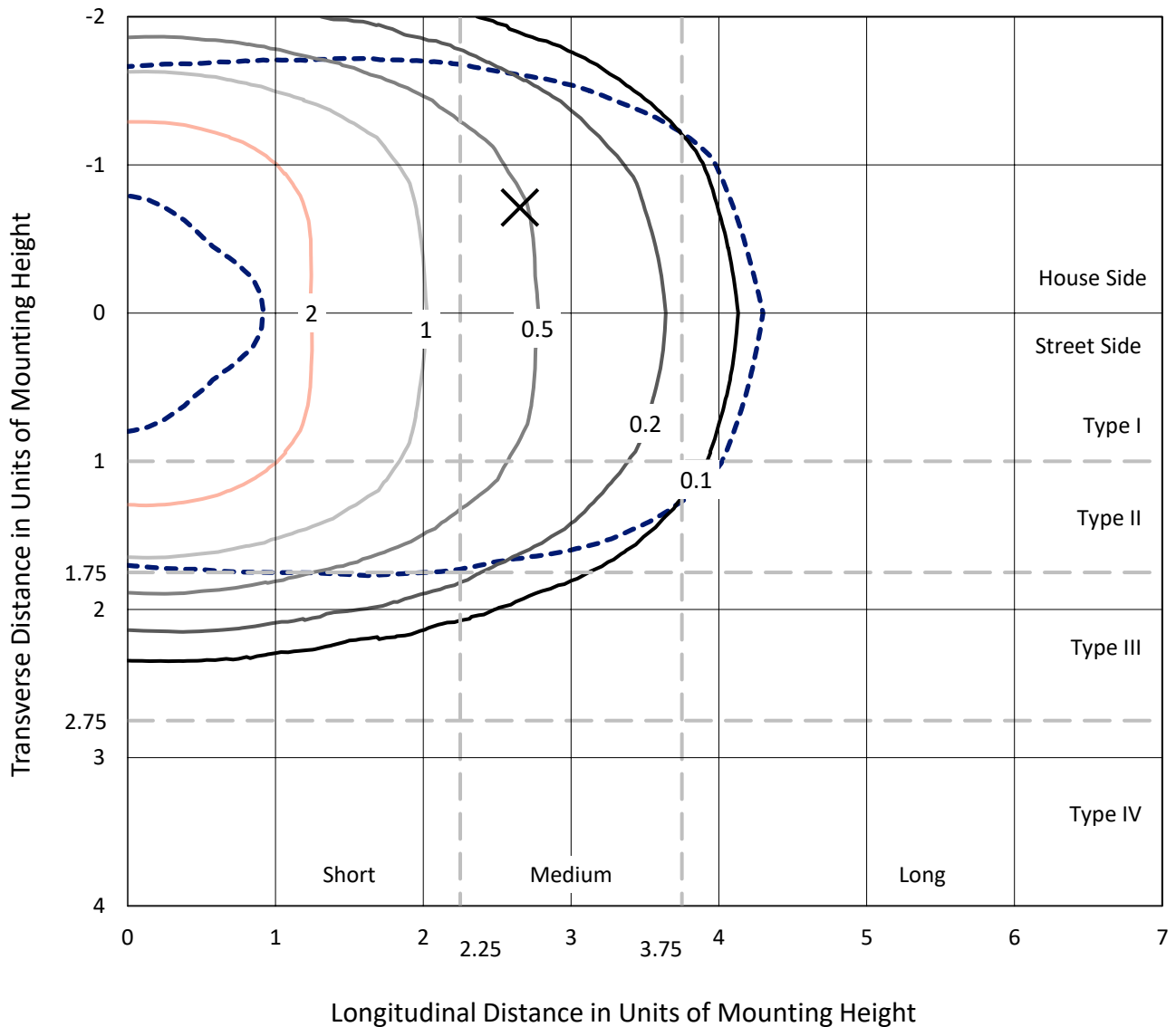
Lumens per Lamp: N/A  
Luminaire Lumens: 21422.1 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

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### Iso-Footcandle Lines of Horizontal Illumination

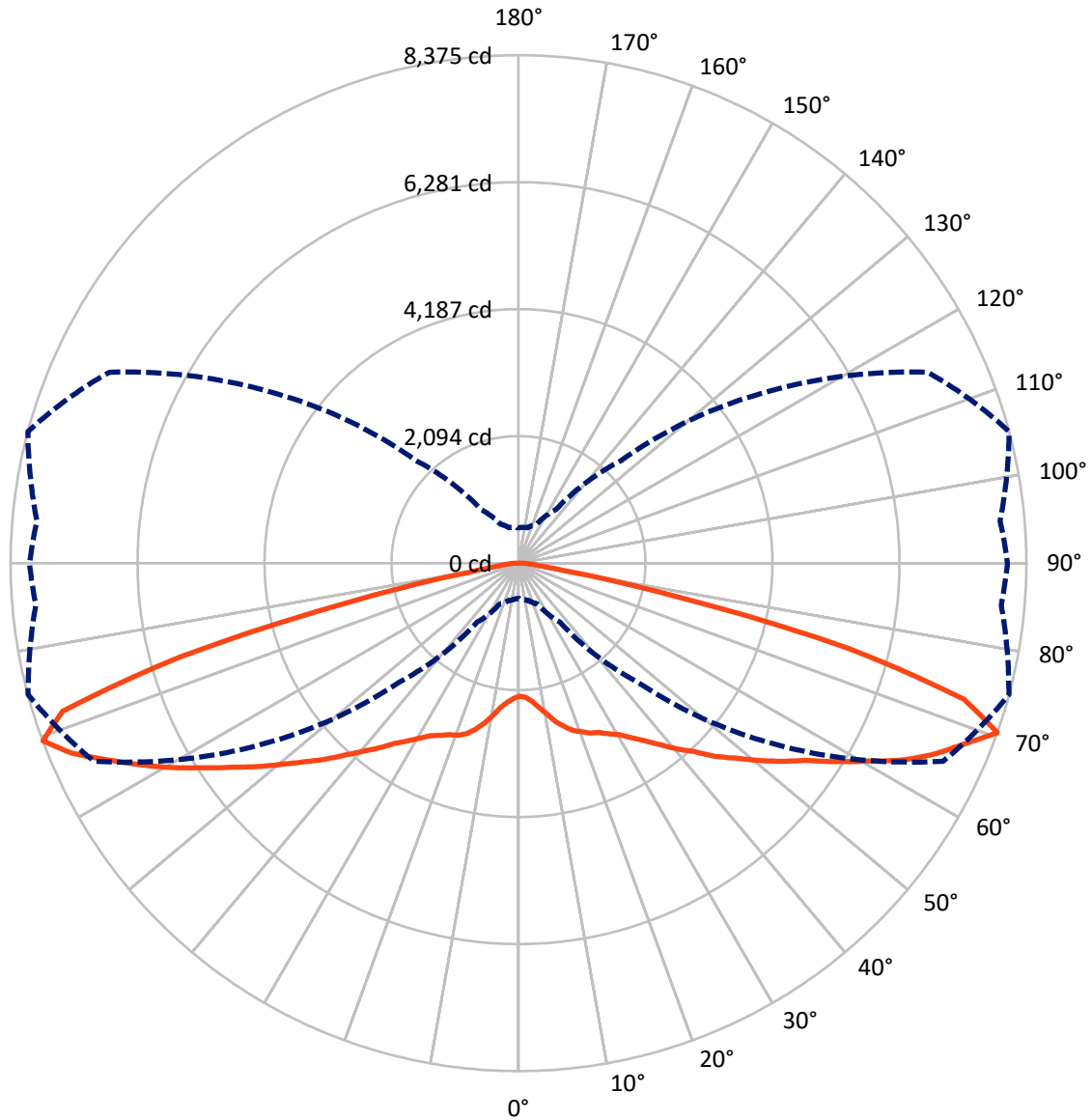
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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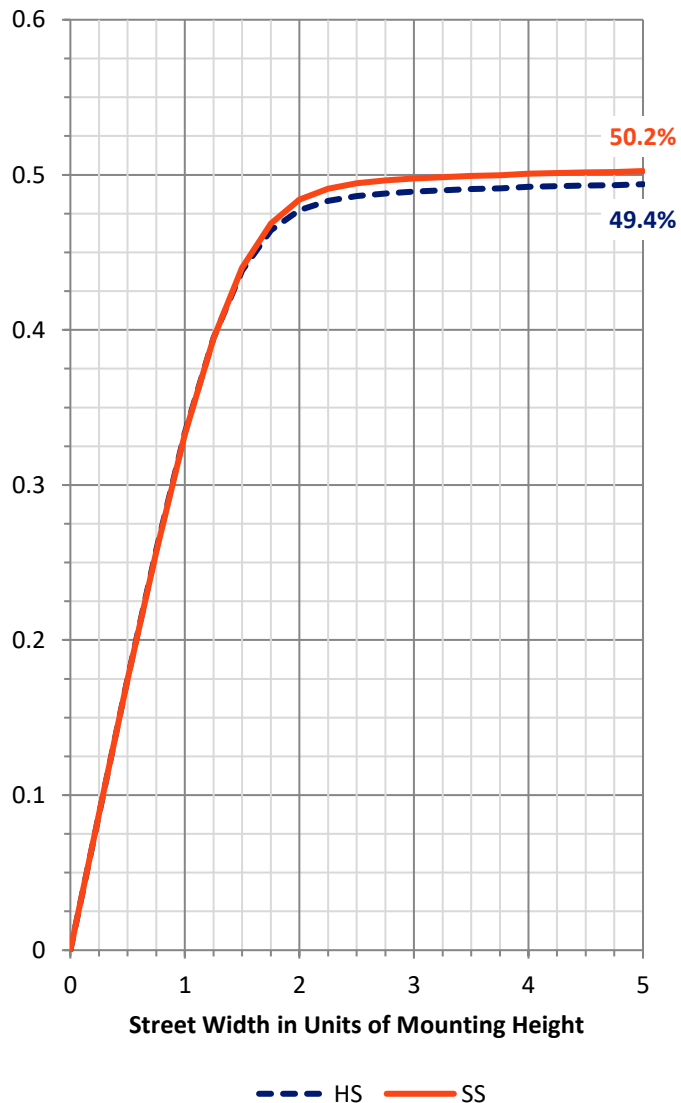
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10634.8	0.0	10634.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	10787.2	0.0	10787.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	21422.1	0.0	21422.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.3	1.0
10°-20°	743.4	3.5
20°-30°	1439.5	6.7
30°-40°	2434.8	11.4
40°-50°	3884.2	18.1
50°-60°	5316.7	24.8
60°-70°	5011.3	23.4
70°-80°	2207.6	10.3
80°-90°	166.1	0.8
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°	21422.1	100.0
0°-180°	21422.1	100.0

**Coefficient of Utilization**



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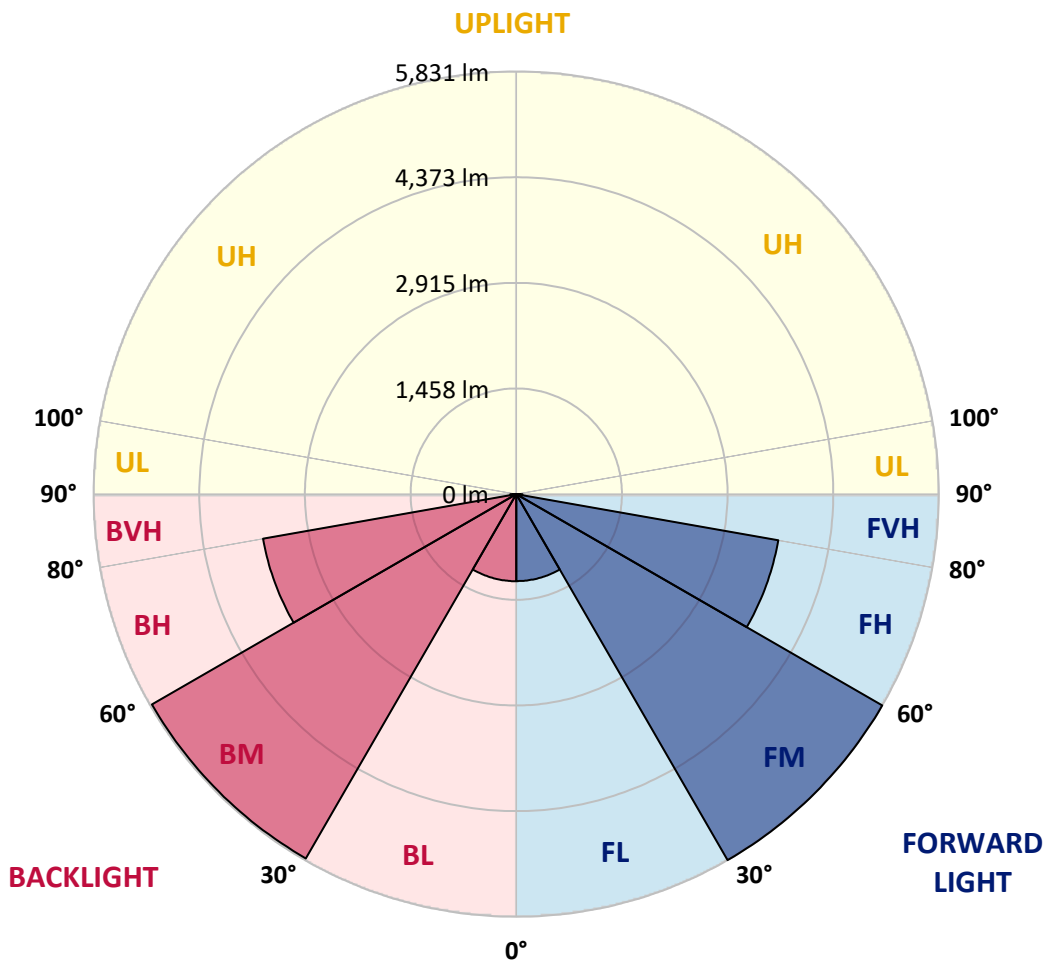
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1200.0	5.6			
FM (30°-60°)	5830.9	27.2			
FH (60°-80°)	3671.5	17.1			G2/5000
FVH (80°-90°)	84.8	0.4			G1/100
BL (0°-30°)	1201.3	5.6	B3/2500		
BM (30°-60°)	5804.8	27.1	B4/8500		
BH (60°-80°)	3547.5	16.6	B4/5000		G4/5000
BVH (80°-90°)	81.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2179.7	2179.7	2177.4	2189.0	2200.5	2205.1	2214.4	2216.7	2230.5	2219.0	2242.1
5°	2172.8	2170.5	2189.0	2216.7	2216.7	2246.7	2265.2	2290.6	2297.5	2311.4	2316.0
7.5°	2221.3	2216.7	2207.5	2237.5	2262.9	2309.1	2334.5	2378.3	2394.5	2413.0	2433.7
10°	2251.3	2251.3	2242.1	2295.2	2318.3	2380.6	2436.1	2479.9	2542.3	2563.0	2565.4
12.5°	2255.9	2262.9	2290.6	2359.9	2424.5	2505.3	2546.9	2630.0	2692.4	2731.6	2745.5
15°	2325.2	2311.4	2341.4	2436.1	2530.7	2602.3	2676.2	2736.2	2826.3	2877.1	2909.4
17.5°	2387.6	2373.7	2429.1	2542.3	2639.2	2750.1	2814.7	2879.4	2944.0	2990.2	2992.5
20°	2486.9	2498.4	2546.9	2669.3	2796.3	2893.2	2967.1	2978.7	3011.0	3078.0	3066.4
22.5°	2609.2	2600.0	2701.6	2835.5	2974.1	3054.9	3096.4	3066.4	3050.3	3121.8	3138.0
25°	2731.6	2759.3	2851.7	2976.4	3142.6	3251.1	3262.7	3179.6	3119.5	3144.9	3138.0
27.5°	2918.6	2923.3	3020.2	3168.0	3336.6	3431.3	3424.3	3306.6	3191.1	3193.4	3198.0
30°	3158.8	3135.7	3241.9	3375.8	3542.1	3627.5	3639.1	3470.5	3315.8	3269.6	3281.2
32.5°	3389.7	3417.4	3509.8	3662.2	3784.5	3833.0	3807.6	3657.5	3456.7	3394.3	3401.2
35°	3685.3	3680.6	3807.6	3936.9	4029.3	4038.5	4017.8	3798.4	3609.1	3528.2	3495.9
37.5°	4001.6	4043.2	4126.3	4232.5	4329.5	4334.1	4221.0	4045.5	3812.2	3678.3	3717.6
40°	4354.9	4401.1	4461.1	4615.8	4687.4	4613.5	4498.0	4260.2	4017.8	3900.0	3918.5
42.5°	4666.6	4687.4	4809.8	4992.2	5026.8	4994.5	4823.6	4535.0	4253.3	4124.0	4133.2
45°	4952.9	4980.6	5140.0	5303.9	5384.7	5329.3	5130.7	4855.9	4528.1	4417.2	4373.3
47.5°	5216.2	5271.6	5426.3	5594.8	5719.5	5724.1	5479.4	5146.9	4800.5	4655.1	4652.7
50°	5394.0	5474.8	5627.2	5818.8	6001.2	6072.8	5828.1	5470.1	5098.4	4943.7	4927.5
52.5°	5490.9	5574.1	5726.5	6024.3	6227.5	6338.4	6222.9	5772.6	5447.1	5285.4	5260.0
55°	5373.2	5428.6	5678.0	6095.9	6409.9	6592.3	6516.2	6190.6	5793.4	5661.8	5684.9
57.5°	4872.1	4987.6	5294.7	5816.5	6405.3	6853.3	6846.3	6585.4	6192.9	6068.2	6072.8
60°	4010.8	4107.8	4486.5	5216.2	6146.7	6959.5	7204.2	6968.7	6640.8	6495.4	6490.8
62.5°	2830.9	2953.3	3392.0	4188.6	5384.7	6811.7	7615.3	7451.3	7079.6	6973.3	7012.6
65°	1584.0	1657.9	2064.3	2784.7	4103.2	5998.9	7689.1	7952.4	7525.2	7363.6	7370.5
67.5°	847.4	875.1	1064.5	1461.6	2509.9	4625.0	6943.3	8241.0	8007.8	7728.4	7684.5
70°	581.9	591.1	639.6	748.1	1186.9	2766.2	5236.9	7726.1	8370.3	7989.3	8063.2
72.5°	491.8	487.2	498.8	510.3	621.1	1237.7	3073.4	5945.8	7901.6	7758.4	7730.7
75°	427.2	424.9	429.5	417.9	431.8	544.9	1360.0	3706.0	5784.2	6456.1	6560.0
77.5°	353.3	355.6	357.9	346.4	341.7	360.2	547.2	1627.9	2847.1	3142.6	3389.7
80°	267.9	272.5	290.9	279.4	260.9	263.2	323.3	544.9	817.4	741.2	764.3
82.5°	182.4	184.7	224.0	210.1	196.3	177.8	207.8	281.7	318.6	242.5	212.4
85°	129.3	127.0	145.5	133.9	124.7	90.1	124.7	159.3	191.7	120.1	108.5
87.5°	30.0	30.0	60.0	48.5	46.2	36.9	48.5	62.3	83.1	53.1	48.5
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°	145°	155°	165°	175°	180°
0°	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6	2193.6
2.5°	2235.2	2214.4	2214.4	2209.8	2191.3	2186.7	2170.5	2175.1	2163.6	2152.0
5°	2313.7	2286.0	2286.0	2246.7	2209.8	2205.1	2186.7	2186.7	2168.2	2172.8
7.5°	2422.2	2396.8	2355.2	2320.6	2269.8	2249.0	2214.4	2209.8	2205.1	2195.9
10°	2551.5	2519.2	2477.6	2406.0	2364.5	2325.2	2290.6	2242.1	2230.5	2232.9
12.5°	2727.0	2676.2	2586.1	2523.8	2470.7	2419.9	2369.1	2297.5	2281.3	2288.3
15°	2851.7	2787.0	2697.0	2673.9	2602.3	2540.0	2456.8	2376.0	2348.3	2341.4
17.5°	2953.3	2900.2	2847.1	2812.4	2754.7	2678.5	2563.0	2470.7	2408.3	2401.4
20°	3036.4	2967.1	2955.6	2976.4	2904.8	2854.0	2713.1	2600.0	2516.9	2482.2
22.5°	3087.2	3043.3	3075.7	3094.1	3089.5	3004.1	2858.6	2727.0	2623.1	2590.8
25°	3142.6	3091.8	3207.3	3269.6	3285.8	3144.9	3031.8	2858.6	2757.0	2736.2
27.5°	3170.3	3188.8	3322.7	3454.3	3442.8	3334.3	3181.9	3027.2	2946.4	2909.4
30°	3251.1	3281.2	3484.4	3632.1	3634.5	3528.2	3412.8	3237.3	3147.2	3131.1
32.5°	3396.6	3433.6	3650.6	3807.6	3835.3	3754.5	3639.1	3530.5	3438.2	3401.2
35°	3507.5	3602.1	3846.9	3990.0	4063.9	4015.4	3950.8	3837.6	3740.7	3708.3
37.5°	3666.8	3798.4	4033.9	4227.9	4311.0	4306.4	4257.9	4135.5	4054.7	4027.0
40°	3895.4	4027.0	4241.7	4498.0	4652.7	4645.8	4618.1	4523.4	4403.4	4389.5
42.5°	4137.8	4246.4	4525.7	4819.0	5040.7	5017.6	4943.7	4832.9	4749.7	4731.3
45°	4373.3	4541.9	4800.5	5176.9	5343.2	5400.9	5313.1	5123.8	5029.1	5017.6
47.5°	4668.9	4802.8	5126.1	5463.2	5710.3	5719.5	5569.4	5394.0	5220.8	5257.7
50°	4932.1	5109.9	5437.8	5807.3	6102.8	5996.6	5805.0	5585.6	5460.9	5412.4
52.5°	5213.8	5430.9	5811.9	6188.3	6352.2	6246.0	5934.3	5689.5	5500.2	5479.4
55°	5624.9	5738.0	6236.8	6525.4	6578.5	6354.5	5895.0	5548.7	5303.9	5243.9
57.5°	6042.8	6174.4	6610.8	6860.2	6804.8	6294.5	5641.0	5105.3	4784.4	4698.9
60°	6465.4	6627.0	6994.1	7222.7	6936.4	5881.2	4922.9	4232.5	3858.4	3782.2
62.5°	6936.4	7146.5	7474.4	7555.2	6546.2	5063.8	3906.9	3054.9	2676.2	2549.2
65°	7354.3	7569.1	7973.2	7486.0	5717.2	3777.6	2526.1	1745.6	1466.2	1364.7
67.5°	7698.4	7940.8	8139.4	6624.7	4186.3	2212.1	1316.2	919.0	815.1	778.2
70°	7970.9	8374.9	7446.7	4869.8	2392.2	1078.3	711.2	605.0	591.1	581.9
72.5°	7733.0	7679.9	5560.2	2810.1	1048.3	593.4	514.9	498.8	496.4	498.8
75°	6324.5	5641.0	3325.0	1221.5	526.5	429.5	427.2	420.2	431.8	431.8
77.5°	3068.7	2683.1	1390.1	524.2	346.4	337.1	348.7	348.7	348.7	348.7
80°	711.2	787.4	496.4	318.6	251.7	251.7	277.1	279.4	267.9	263.2
82.5°	242.5	323.3	272.5	200.9	166.3	187.0	210.1	214.7	177.8	180.1
85°	120.1	189.3	147.8	115.5	85.4	115.5	136.2	143.2	122.4	117.8
87.5°	55.4	83.1	55.4	39.3	30.0	41.6	39.3	32.3	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)