

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: P481239

Luminaire Tested: **IFLD-S-SA3C-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481239  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

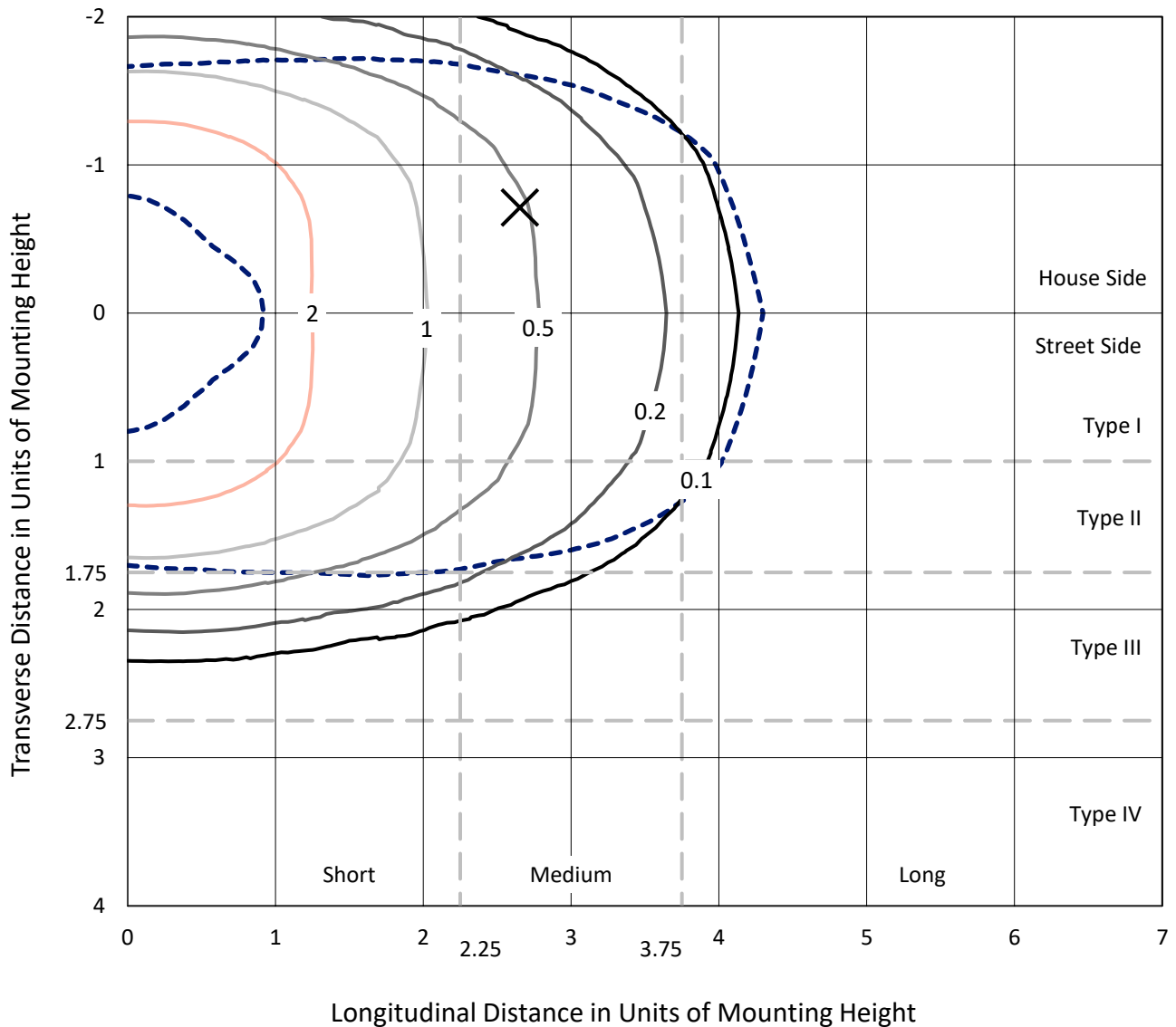
Lumens per Lamp: N/A  
Luminaire Lumens: 21519.1 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 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

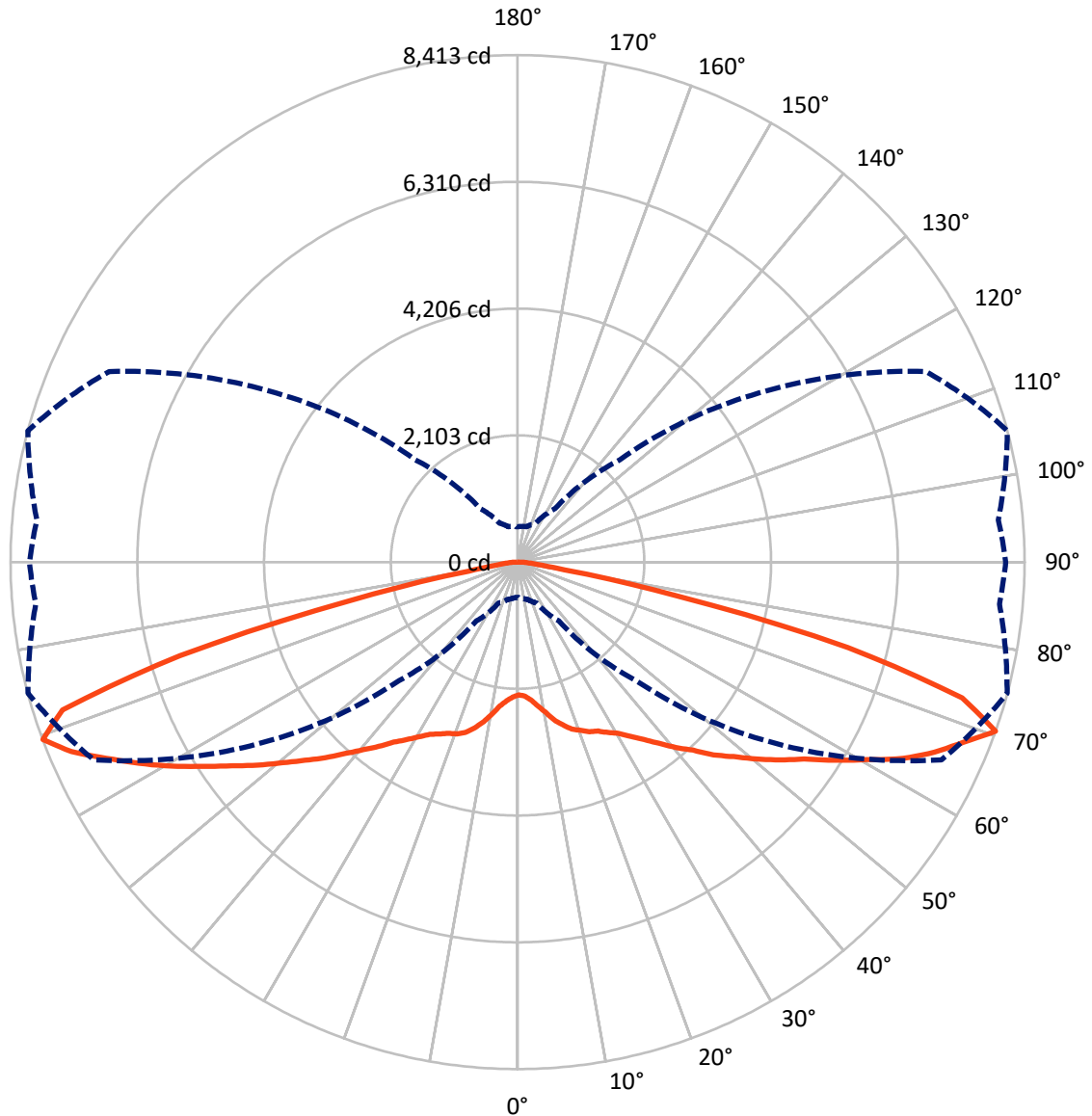
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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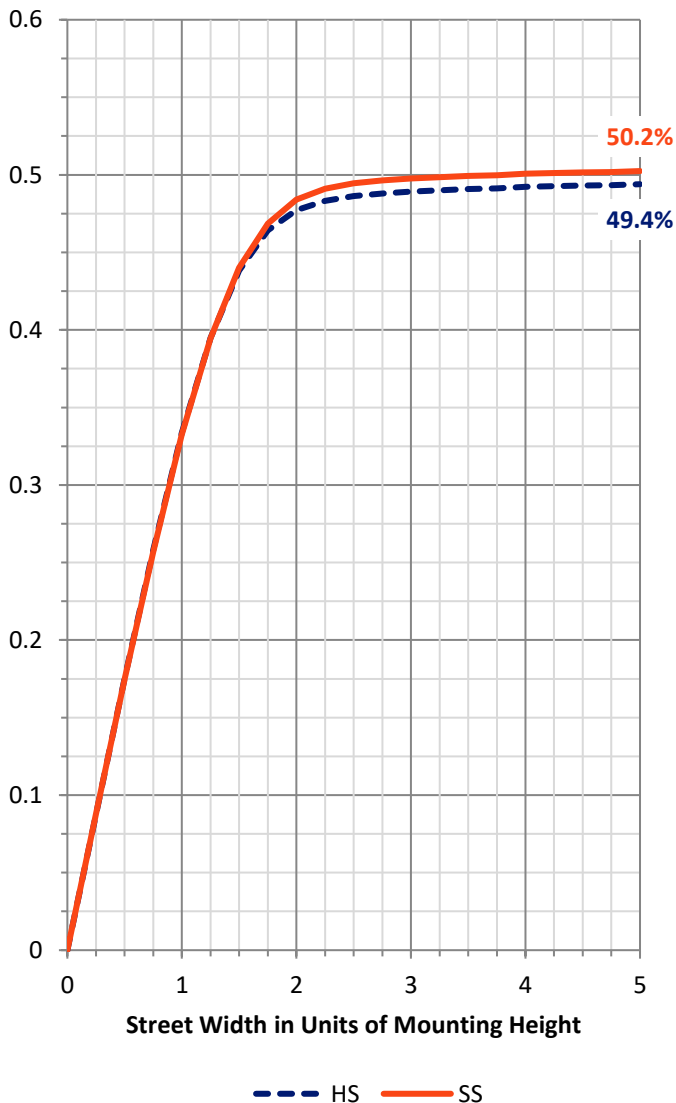
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10683.0	0.0	10683.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	10836.1	0.0	10836.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	21519.1	0.0	21519.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	1.0
10°-20°	746.8	3.5
20°-30°	1446.0	6.7
30°-40°	2445.8	11.4
40°-50°	3901.8	18.1
50°-60°	5340.8	24.8
60°-70°	5034.0	23.4
70°-80°	2217.6	10.3
80°-90°	166.9	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°	21519.1	100.0
0°-180°	21519.1	100.0

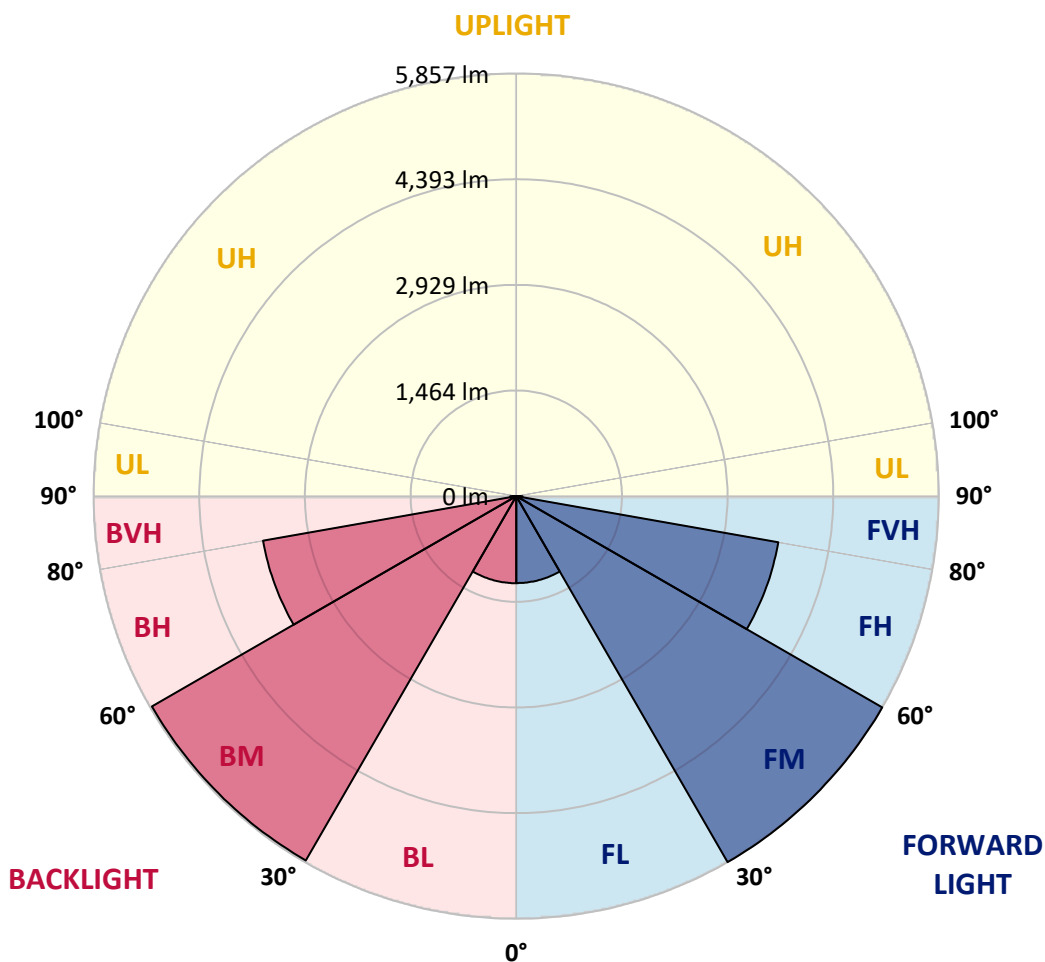


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.4	5.6			
FM (30°-60°)	5857.3	27.2			
FH (60°-80°)	3688.1	17.1			G2/5000
FVH (80°-90°)	85.2	0.4			G1/100
BL (0°-30°)	1206.7	5.6	B3/2500		
BM (30°-60°)	5831.1	27.1	B4/8500		
BH (60°-80°)	3563.5	16.6	B4/5000		G4/5000
BVH (80°-90°)	81.6	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°	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5
2.5°	2189.6	2189.6	2187.3	2198.9	2210.5	2215.1	2224.4	2226.7	2240.6	2229.1	2252.2
5°	2182.7	2180.3	2198.9	2226.7	2226.7	2256.9	2275.4	2301.0	2307.9	2321.8	2326.5
7.5°	2231.4	2226.7	2217.5	2247.6	2273.1	2319.5	2345.0	2389.1	2405.3	2423.9	2444.8
10°	2261.5	2261.5	2252.2	2305.6	2328.8	2391.4	2447.1	2491.2	2553.8	2574.7	2577.0
12.5°	2266.2	2273.1	2301.0	2370.5	2435.5	2516.7	2558.4	2641.9	2704.6	2744.0	2757.9
15°	2335.7	2321.8	2352.0	2447.1	2542.2	2614.1	2688.3	2748.6	2839.1	2890.1	2922.6
17.5°	2398.4	2384.5	2440.1	2553.8	2651.2	2762.5	2827.5	2892.4	2957.4	3003.8	3006.1
20°	2498.1	2509.7	2558.4	2681.4	2808.9	2906.3	2980.6	2992.2	3024.6	3091.9	3080.3
22.5°	2621.0	2611.8	2713.8	2848.4	2987.5	3068.7	3110.5	3080.3	3064.1	3136.0	3152.2
25°	2744.0	2771.8	2864.6	2989.8	3156.9	3265.9	3277.5	3194.0	3133.7	3159.2	3152.2
27.5°	2931.9	2936.5	3033.9	3182.4	3351.7	3446.8	3439.8	3321.5	3205.6	3207.9	3212.5
30°	3173.1	3149.9	3256.6	3391.1	3558.1	3644.0	3655.5	3486.2	3330.8	3284.4	3296.0
32.5°	3405.0	3432.9	3525.7	3678.7	3801.7	3850.4	3824.9	3674.1	3472.3	3409.7	3416.6
35°	3701.9	3697.3	3824.9	3954.8	4047.5	4056.8	4035.9	3815.6	3625.4	3544.2	3511.7
37.5°	4019.7	4061.5	4145.0	4251.7	4349.1	4353.7	4240.1	4063.8	3829.5	3695.0	3734.4
40°	4374.6	4421.0	4481.3	4636.7	4708.6	4634.4	4518.4	4279.5	4035.9	3917.7	3936.2
42.5°	4687.7	4708.6	4831.5	5014.8	5049.6	5017.1	4845.5	4555.5	4272.5	4142.6	4151.9
45°	4975.4	5003.2	5163.2	5327.9	5409.1	5353.4	5154.0	4877.9	4548.6	4437.2	4393.2
47.5°	5239.8	5295.4	5450.9	5620.2	5745.4	5750.1	5504.2	5170.2	4822.3	4676.1	4673.8
50°	5418.4	5499.6	5652.6	5845.2	6028.4	6100.3	5854.4	5494.9	5121.5	4966.1	4949.8
52.5°	5515.8	5599.3	5752.4	6051.6	6255.7	6367.1	6251.1	5798.8	5471.7	5309.4	5283.8
55°	5397.5	5453.2	5703.7	6123.5	6439.0	6622.2	6545.7	6218.6	5819.7	5687.4	5710.6
57.5°	4894.2	5010.1	5318.6	5842.8	6434.3	6884.3	6877.4	6615.2	6220.9	6095.7	6100.3
60°	4029.0	4126.4	4506.8	5239.8	6174.5	6991.0	7236.9	7000.3	6670.9	6524.8	6520.1
62.5°	2843.7	2966.7	3407.4	4207.6	5409.1	6842.6	7649.7	7485.1	7111.6	7004.9	7044.4
65°	1591.2	1665.4	2073.6	2797.3	4121.8	6026.1	7724.0	7988.4	7559.3	7396.9	7403.9
67.5°	851.3	879.1	1069.3	1468.3	2521.3	4646.0	6974.8	8278.3	8044.1	7763.4	7719.3
70°	584.5	593.8	642.5	751.5	1192.2	2778.8	5260.7	7761.1	8408.2	8025.5	8099.7
72.5°	494.1	489.4	501.0	512.6	623.9	1243.3	3087.3	5972.7	7937.4	7793.6	7765.7
75°	429.1	426.8	431.4	419.8	433.7	547.4	1366.2	3722.8	5810.4	6485.4	6589.7
77.5°	354.9	357.2	359.5	347.9	343.3	361.8	549.7	1635.3	2860.0	3156.9	3405.0
80°	269.1	273.7	292.3	280.7	262.1	264.4	324.7	547.4	821.1	744.6	767.8
82.5°	183.2	185.6	225.0	211.1	197.2	178.6	208.8	283.0	320.1	243.5	213.4
85°	129.9	127.6	146.1	134.5	125.3	90.5	125.3	160.0	192.5	120.6	109.0
87.5°	30.2	30.2	60.3	48.7	46.4	37.1	48.7	62.6	83.5	53.3	48.7
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°	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5	2203.5
2.5°	2245.3	2224.4	2224.4	2219.8	2201.2	2196.6	2180.3	2185.0	2173.4	2161.8
5°	2324.2	2296.3	2296.3	2256.9	2219.8	2215.1	2196.6	2196.6	2178.0	2182.7
7.5°	2433.2	2407.7	2365.9	2331.1	2280.1	2259.2	2224.4	2219.8	2215.1	2205.9
10°	2563.1	2530.6	2488.8	2416.9	2375.2	2335.7	2301.0	2252.2	2240.6	2243.0
12.5°	2739.3	2688.3	2597.9	2535.2	2481.9	2430.8	2379.8	2307.9	2291.7	2298.6
15°	2864.6	2799.7	2709.2	2686.0	2614.1	2551.5	2468.0	2386.8	2358.9	2352.0
17.5°	2966.7	2913.3	2860.0	2825.2	2767.2	2690.6	2574.7	2481.9	2419.3	2412.3
20°	3050.2	2980.6	2969.0	2989.8	2917.9	2866.9	2725.4	2611.8	2528.3	2493.5
22.5°	3101.2	3057.1	3089.6	3108.1	3103.5	3017.7	2871.6	2739.3	2635.0	2602.5
25°	3156.9	3105.8	3221.8	3284.4	3300.7	3159.2	3045.5	2871.6	2769.5	2748.6
27.5°	3184.7	3203.2	3337.8	3470.0	3458.4	3349.4	3196.3	3040.9	2959.7	2922.6
30°	3265.9	3296.0	3500.1	3648.6	3650.9	3544.2	3428.2	3252.0	3161.5	3145.3
32.5°	3412.0	3449.1	3667.1	3824.9	3852.7	3771.5	3655.5	3546.5	3453.8	3416.6
35°	3523.3	3618.4	3864.3	4008.1	4082.3	4033.6	3968.7	3855.0	3757.6	3725.1
37.5°	3683.4	3815.6	4052.2	4247.0	4330.5	4325.9	4277.2	4154.2	4073.1	4045.2
40°	3913.0	4045.2	4260.9	4518.4	4673.8	4666.9	4639.0	4543.9	4423.3	4409.4
42.5°	4156.6	4265.6	4546.2	4840.8	5063.5	5040.3	4966.1	4854.7	4771.2	4752.7
45°	4393.2	4562.5	4822.3	5200.3	5367.3	5425.3	5337.2	5147.0	5051.9	5040.3
47.5°	4690.1	4824.6	5149.3	5488.0	5736.2	5745.4	5594.7	5418.4	5244.4	5281.5
50°	4954.5	5133.1	5462.4	5833.6	6130.5	6023.8	5831.3	5610.9	5485.6	5436.9
52.5°	5237.5	5455.5	5838.2	6216.3	6381.0	6274.3	5961.1	5715.3	5525.1	5504.2
55°	5650.3	5764.0	6265.0	6554.9	6608.3	6383.3	5921.7	5573.8	5327.9	5267.6
57.5°	6070.2	6202.4	6640.8	6891.3	6835.6	6323.0	5666.6	5128.4	4806.0	4720.2
60°	6494.6	6657.0	7025.8	7255.4	6967.8	5907.8	4945.2	4251.7	3875.9	3799.4
62.5°	6967.8	7178.9	7508.3	7589.4	6575.8	5086.7	3924.6	3068.7	2688.3	2560.7
65°	7387.6	7603.4	8009.3	7519.9	5743.1	3794.7	2537.5	1753.6	1472.9	1370.8
67.5°	7733.3	7976.8	8176.3	6654.7	4205.3	2222.1	1322.1	923.2	818.8	781.7
70°	8007.0	8412.9	7480.4	4891.8	2403.0	1083.2	714.4	607.7	593.8	584.5
72.5°	7768.0	7714.7	5585.4	2822.8	1053.1	596.1	517.3	501.0	498.7	501.0
75°	6353.1	5666.6	3340.1	1227.0	528.8	431.4	429.1	422.2	433.7	433.7
77.5°	3082.6	2695.3	1396.3	526.5	347.9	338.6	350.2	350.2	350.2	350.2
80°	714.4	791.0	498.7	320.1	252.8	252.8	278.3	280.7	269.1	264.4
82.5°	243.5	324.7	273.7	201.8	167.0	187.9	211.1	215.7	178.6	180.9
85°	120.6	190.2	148.4	116.0	85.8	116.0	136.9	143.8	122.9	118.3
87.5°	55.7	83.5	55.7	39.4	30.2	41.8	39.4	32.5	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)