

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: P481454

Luminaire Tested: **IFLD-M-SA4C-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481454  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

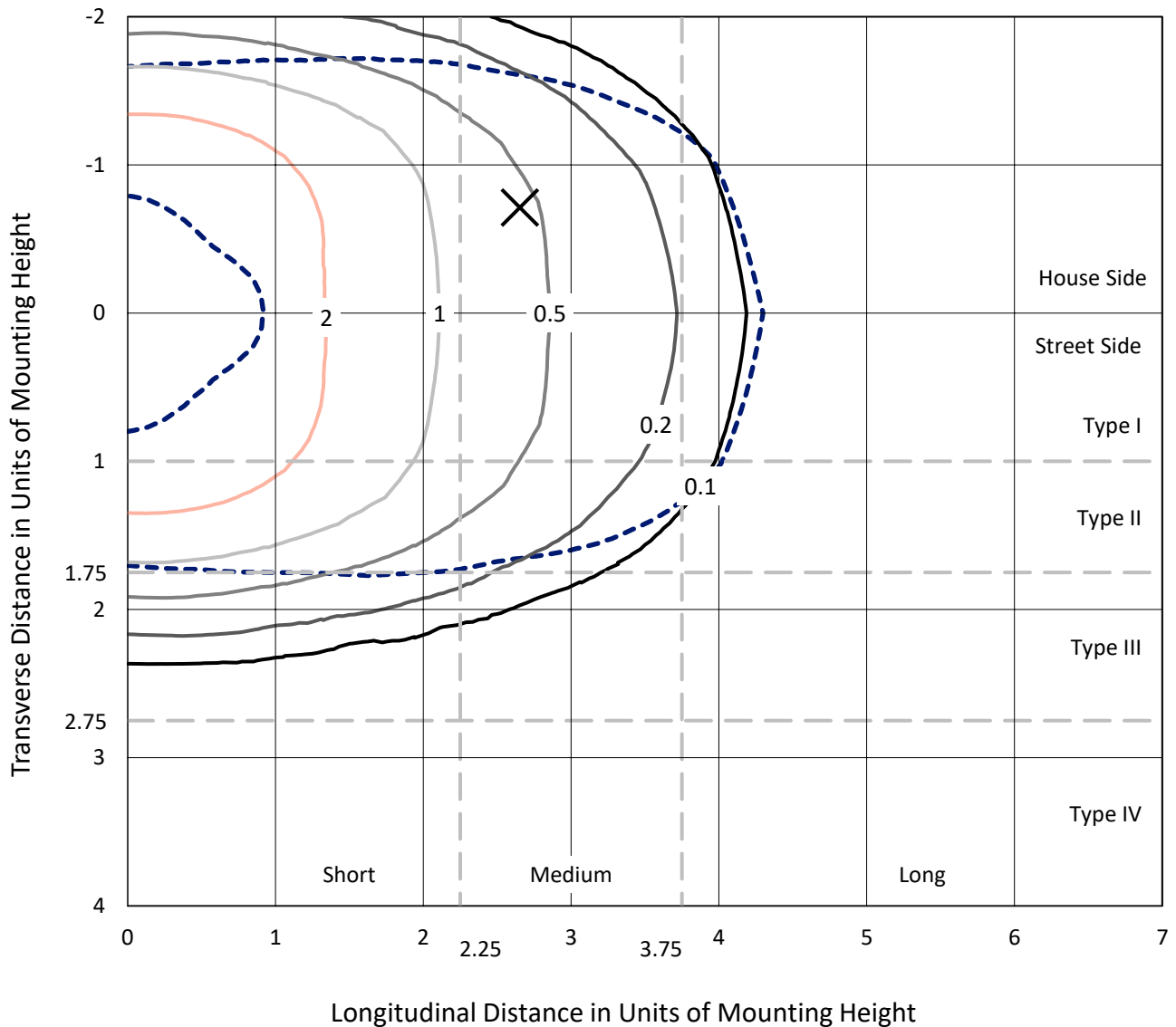
Lumens per Lamp: N/A  
Luminaire Lumens: 23270.2 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 218.1  
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

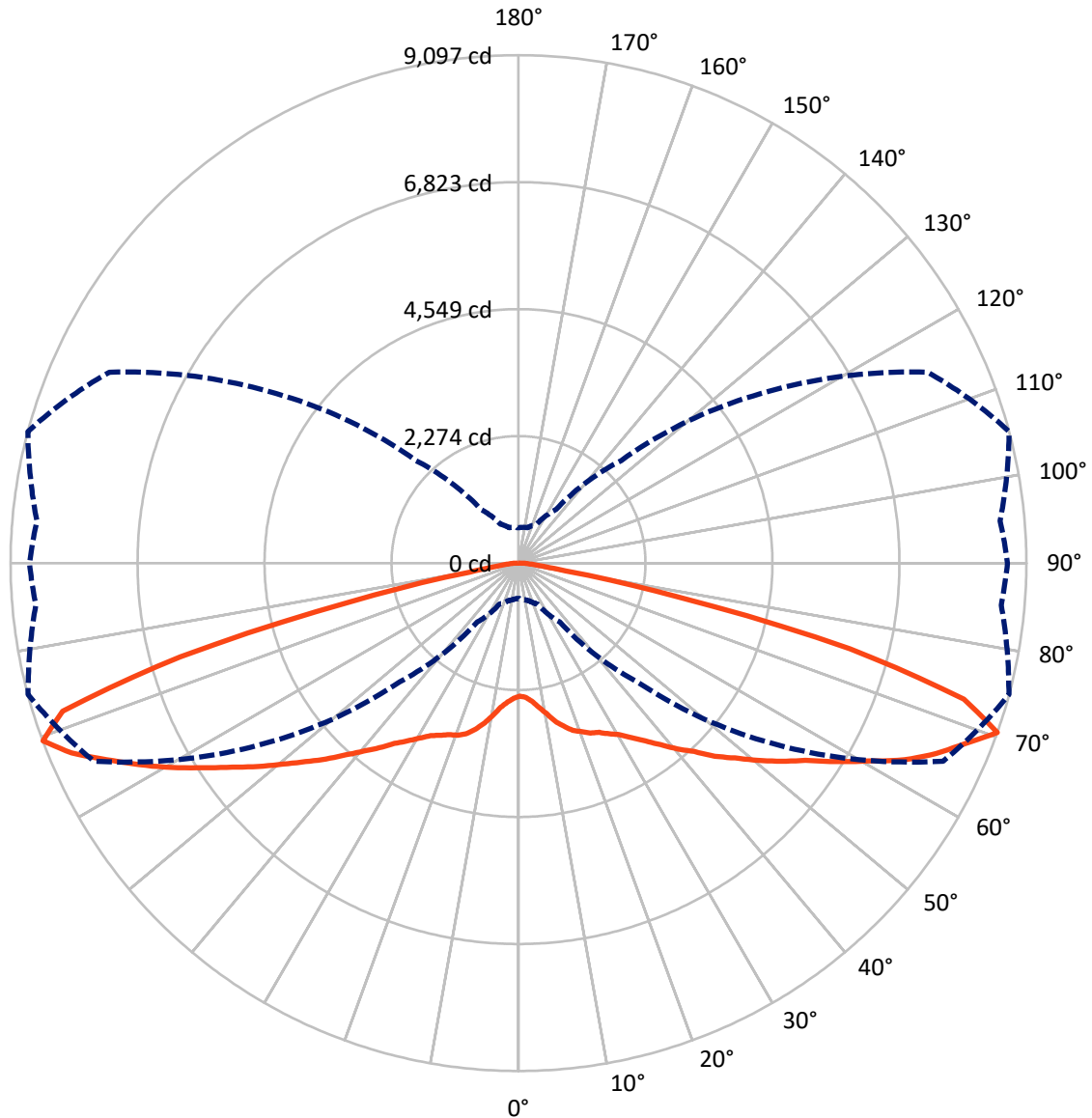
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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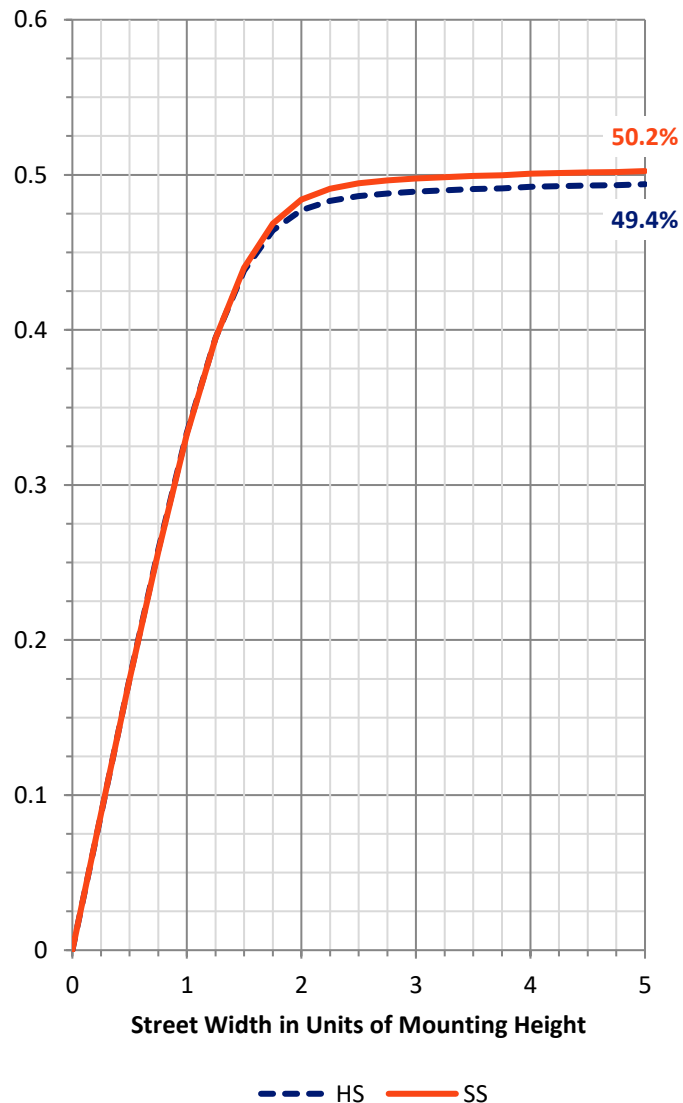
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11552.3	0.0	11552.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	11717.9	0.0	11717.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	23270.2	0.0	23270.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.2	1.0
10°-20°	807.6	3.5
20°-30°	1563.7	6.7
30°-40°	2644.9	11.4
40°-50°	4219.3	18.1
50°-60°	5775.4	24.8
60°-70°	5443.7	23.4
70°-80°	2398.1	10.3
80°-90°	180.4	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°	23270.2	100.0
0°-180°	23270.2	100.0

**Coefficient of Utilization**



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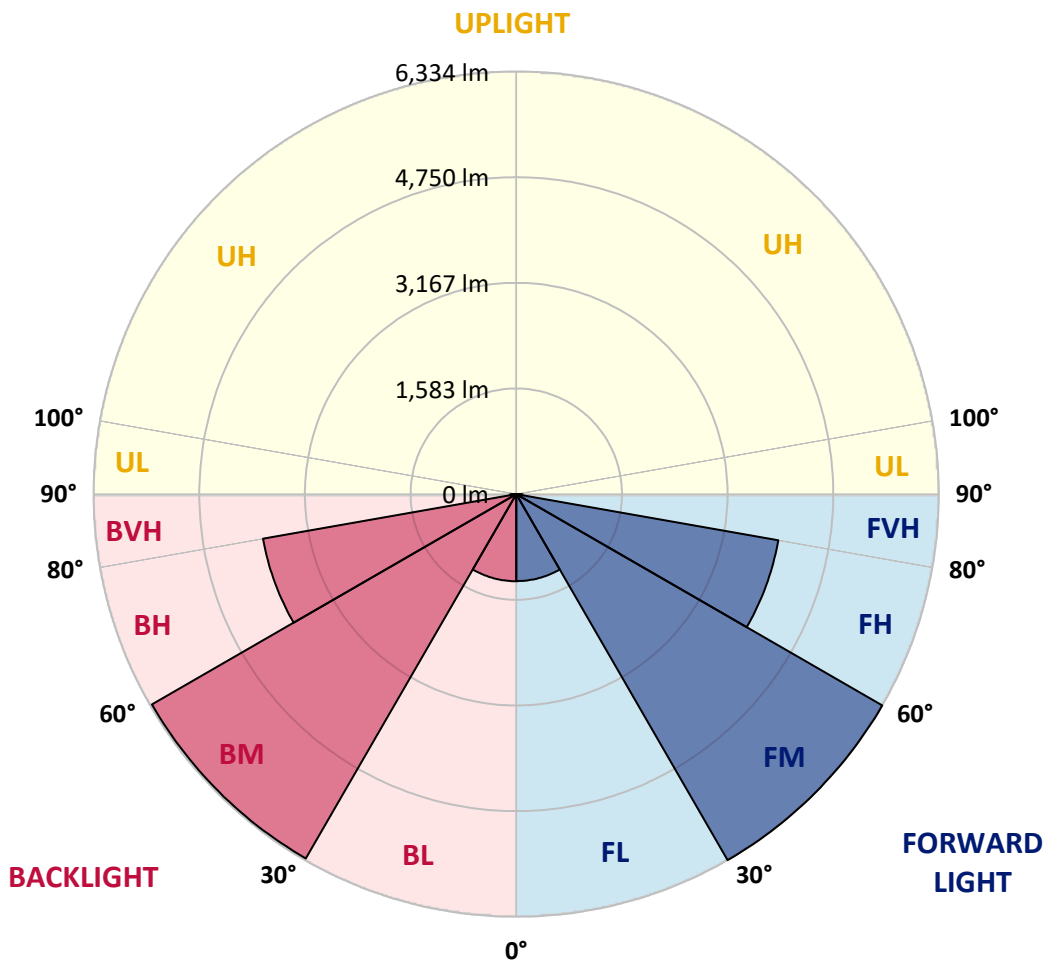
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.5	5.6			
FM (30°-60°)	6333.9	27.2			
FH (60°-80°)	3988.3	17.1			G2/5000
FVH (80°-90°)	92.2	0.4			G1/100
BL (0°-30°)	1304.9	5.6	B3/2500		
BM (30°-60°)	6305.6	27.1	B4/8500		
BH (60°-80°)	3853.5	16.6	B4/5000		G4/5000
BVH (80°-90°)	88.3	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°	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8
2.5°	2367.8	2367.8	2365.3	2377.8	2390.4	2395.4	2405.4	2407.9	2423.0	2410.4	2435.5
5°	2360.3	2357.8	2377.8	2407.9	2407.9	2440.5	2460.6	2488.2	2495.7	2510.8	2515.8
7.5°	2412.9	2407.9	2397.9	2430.5	2458.1	2508.3	2535.8	2583.5	2601.1	2621.1	2643.7
10°	2445.6	2445.6	2435.5	2493.2	2518.3	2586.0	2646.2	2693.9	2761.6	2784.2	2786.7
12.5°	2450.6	2458.1	2488.2	2563.4	2633.7	2721.5	2766.6	2856.9	2924.6	2967.3	2982.3
15°	2525.8	2510.8	2543.4	2646.2	2749.0	2826.8	2907.1	2972.3	3070.1	3125.3	3160.4
17.5°	2593.5	2578.5	2638.7	2761.6	2866.9	2987.3	3057.6	3127.8	3198.0	3248.2	3250.7
20°	2701.4	2713.9	2766.6	2899.5	3037.5	3142.8	3223.1	3235.7	3270.8	3343.5	3331.0
22.5°	2834.3	2824.3	2934.7	3080.1	3230.6	3318.4	3363.6	3331.0	3313.4	3391.2	3408.7
25°	2967.3	2997.4	3097.7	3233.1	3413.7	3531.6	3544.2	3453.9	3388.7	3416.2	3408.7
27.5°	3170.4	3175.5	3280.8	3441.3	3624.4	3727.3	3719.7	3591.8	3466.4	3468.9	3473.9
30°	3431.3	3406.2	3521.6	3667.1	3847.7	3940.5	3953.0	3769.9	3601.9	3551.7	3564.2
32.5°	3682.1	3712.2	3812.6	3978.1	4111.0	4163.7	4136.1	3973.1	3754.9	3687.1	3694.7
35°	4003.2	3998.2	4136.1	4276.6	4376.9	4386.9	4364.4	4126.1	3920.4	3832.6	3797.5
37.5°	4346.8	4392.0	4482.3	4597.6	4703.0	4708.0	4585.1	4394.5	4141.1	3995.7	4038.3
40°	4730.6	4780.7	4846.0	5014.0	5091.8	5011.5	4886.1	4627.7	4364.4	4236.4	4256.5
42.5°	5069.2	5091.8	5224.7	5422.9	5460.5	5425.4	5239.7	4926.2	4620.2	4479.7	4489.8
45°	5380.2	5410.3	5583.4	5761.5	5849.3	5789.1	5573.3	5274.9	4918.7	4798.3	4750.6
47.5°	5666.2	5726.4	5894.4	6077.5	6213.0	6218.0	5952.1	5590.9	5214.7	5056.6	5054.1
50°	5859.3	5947.1	6112.6	6320.8	6519.0	6596.7	6330.8	5942.1	5538.2	5370.2	5352.6
52.5°	5964.6	6054.9	6220.5	6544.0	6764.8	6885.2	6759.8	6270.6	5917.0	5741.4	5713.8
55°	5836.7	5896.9	6167.8	6621.8	6962.9	7161.1	7078.3	6724.6	6293.2	6150.2	6175.3
57.5°	5292.4	5417.8	5751.4	6318.3	6957.9	7444.5	7437.0	7153.5	6727.1	6591.7	6596.7
60°	4356.8	4462.2	4873.5	5666.2	6677.0	7559.9	7825.8	7569.9	7213.7	7055.7	7050.7
62.5°	3075.1	3208.1	3684.6	4550.0	5849.3	7399.4	8272.2	8094.1	7690.3	7574.9	7617.6
65°	1720.7	1800.9	2242.4	3025.0	4457.2	6516.5	8352.5	8638.4	8174.4	7998.8	8006.4
67.5°	920.5	950.6	1156.3	1587.7	2726.5	5024.0	7542.3	8952.0	8698.6	8395.1	8347.5
70°	632.1	642.1	694.8	812.7	1289.2	3004.9	5688.7	8392.6	9092.4	8678.6	8758.8
72.5°	534.3	529.2	541.8	554.3	674.7	1344.4	3338.5	6458.8	8583.3	8427.7	8397.6
75°	464.0	461.5	466.5	454.0	469.0	591.9	1477.4	4025.8	6283.2	7013.1	7126.0
77.5°	383.8	386.3	388.8	376.2	371.2	391.3	594.5	1768.3	3092.7	3413.7	3682.1
80°	291.0	296.0	316.0	303.5	283.4	285.9	351.2	591.9	887.9	805.2	830.2
82.5°	198.2	200.7	243.3	228.3	213.2	193.1	225.7	306.0	346.1	263.4	230.8
85°	140.5	138.0	158.0	145.5	135.4	97.8	135.4	173.1	208.2	130.4	117.9
87.5°	32.6	32.6	65.2	52.7	50.2	40.1	52.7	67.7	90.3	57.7	52.7
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°	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8	2382.8
2.5°	2428.0	2405.4	2405.4	2400.4	2380.3	2375.3	2357.8	2362.8	2350.2	2337.7
5°	2513.3	2483.2	2483.2	2440.5	2400.4	2395.4	2375.3	2375.3	2355.3	2360.3
7.5°	2631.2	2603.6	2558.4	2520.8	2465.6	2443.0	2405.4	2400.4	2395.4	2385.4
10°	2771.6	2736.5	2691.4	2613.6	2568.5	2525.8	2488.2	2435.5	2423.0	2425.5
12.5°	2962.3	2907.1	2809.2	2741.5	2683.8	2628.7	2573.5	2495.7	2478.2	2485.7
15°	3097.7	3027.5	2929.6	2904.6	2826.8	2759.1	2668.8	2581.0	2550.9	2543.4
17.5°	3208.1	3150.4	3092.7	3055.1	2992.4	2909.6	2784.2	2683.8	2616.1	2608.6
20°	3298.4	3223.1	3210.6	3233.1	3155.4	3100.2	2947.2	2824.3	2734.0	2696.4
22.5°	3353.5	3305.9	3341.0	3361.1	3356.0	3263.2	3105.2	2962.3	2849.4	2814.3
25°	3413.7	3358.6	3484.0	3551.7	3569.2	3416.2	3293.3	3105.2	2994.9	2972.3
27.5°	3443.8	3463.9	3609.4	3752.4	3739.8	3621.9	3456.4	3288.3	3200.5	3160.4
30°	3531.6	3564.2	3785.0	3945.5	3948.0	3832.6	3707.2	3516.6	3418.8	3401.2
32.5°	3689.6	3729.8	3965.6	4136.1	4166.2	4078.4	3953.0	3835.1	3734.8	3694.7
35°	3810.0	3912.9	4178.8	4334.3	4414.5	4361.9	4291.6	4168.7	4063.4	4028.3
37.5°	3983.1	4126.1	4381.9	4592.6	4682.9	4677.9	4625.2	4492.3	4404.5	4374.4
40°	4231.4	4374.4	4607.7	4886.1	5054.1	5046.6	5016.5	4913.7	4783.2	4768.2
42.5°	4494.8	4612.7	4916.2	5234.7	5475.5	5450.4	5370.2	5249.8	5159.5	5139.4
45°	4750.6	4933.7	5214.7	5623.5	5804.1	5866.8	5771.5	5565.8	5463.0	5450.4
47.5°	5071.7	5217.2	5568.3	5934.5	6202.9	6213.0	6049.9	5859.3	5671.2	5711.3
50°	5357.6	5550.8	5906.9	6308.3	6629.3	6513.9	6305.8	6067.5	5932.0	5879.4
52.5°	5663.6	5899.4	6313.3	6722.1	6900.2	6784.8	6446.2	6180.3	5974.7	5952.1
55°	6110.1	6233.0	6774.8	7088.3	7146.0	6902.7	6403.6	6027.3	5761.5	5696.3
57.5°	6564.1	6707.1	7181.1	7452.0	7391.8	6837.5	6127.7	5545.8	5197.1	5104.3
60°	7023.1	7198.7	7597.5	7845.8	7534.8	6388.5	5347.6	4597.6	4191.3	4108.5
62.5°	7534.8	7763.1	8119.2	8207.0	7110.9	5500.6	4244.0	3318.4	2907.1	2769.1
65°	7988.8	8222.1	8661.0	8131.8	6210.4	4103.5	2744.0	1896.2	1592.7	1482.4
67.5°	8362.5	8625.9	8841.6	7196.2	4547.5	2402.9	1429.7	998.3	885.4	845.3
70°	8658.5	9097.4	8089.1	5289.9	2598.6	1171.4	772.5	657.2	642.1	632.1
72.5°	8400.2	8342.5	6039.9	3052.5	1138.7	644.6	559.3	541.8	539.3	541.8
75°	6870.1	6127.7	3611.9	1326.9	571.9	466.5	464.0	456.5	469.0	469.0
77.5°	3333.5	2914.6	1510.0	569.4	376.2	366.2	378.7	378.7	378.7	378.7
80°	772.5	855.3	539.3	346.1	273.4	273.4	301.0	303.5	291.0	285.9
82.5°	263.4	351.2	296.0	218.2	180.6	203.2	228.3	233.3	193.1	195.6
85°	130.4	205.7	160.5	125.4	92.8	125.4	148.0	155.5	132.9	127.9
87.5°	60.2	90.3	60.2	42.6	32.6	45.1	42.6	35.1	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)