

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: P638390

Luminaire Tested: **IFLD-S-SA2A-735-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638390  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6711.3 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

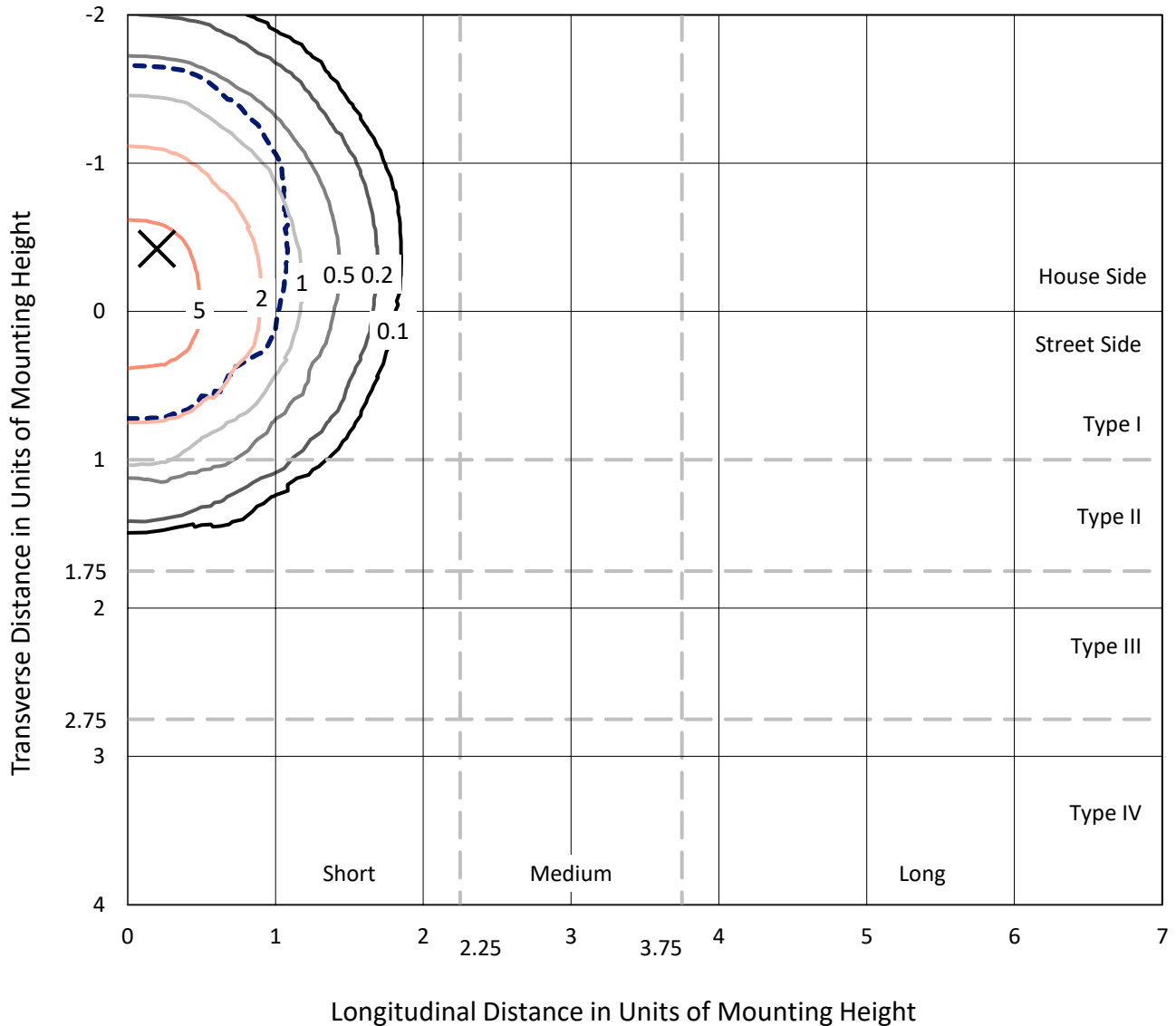
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

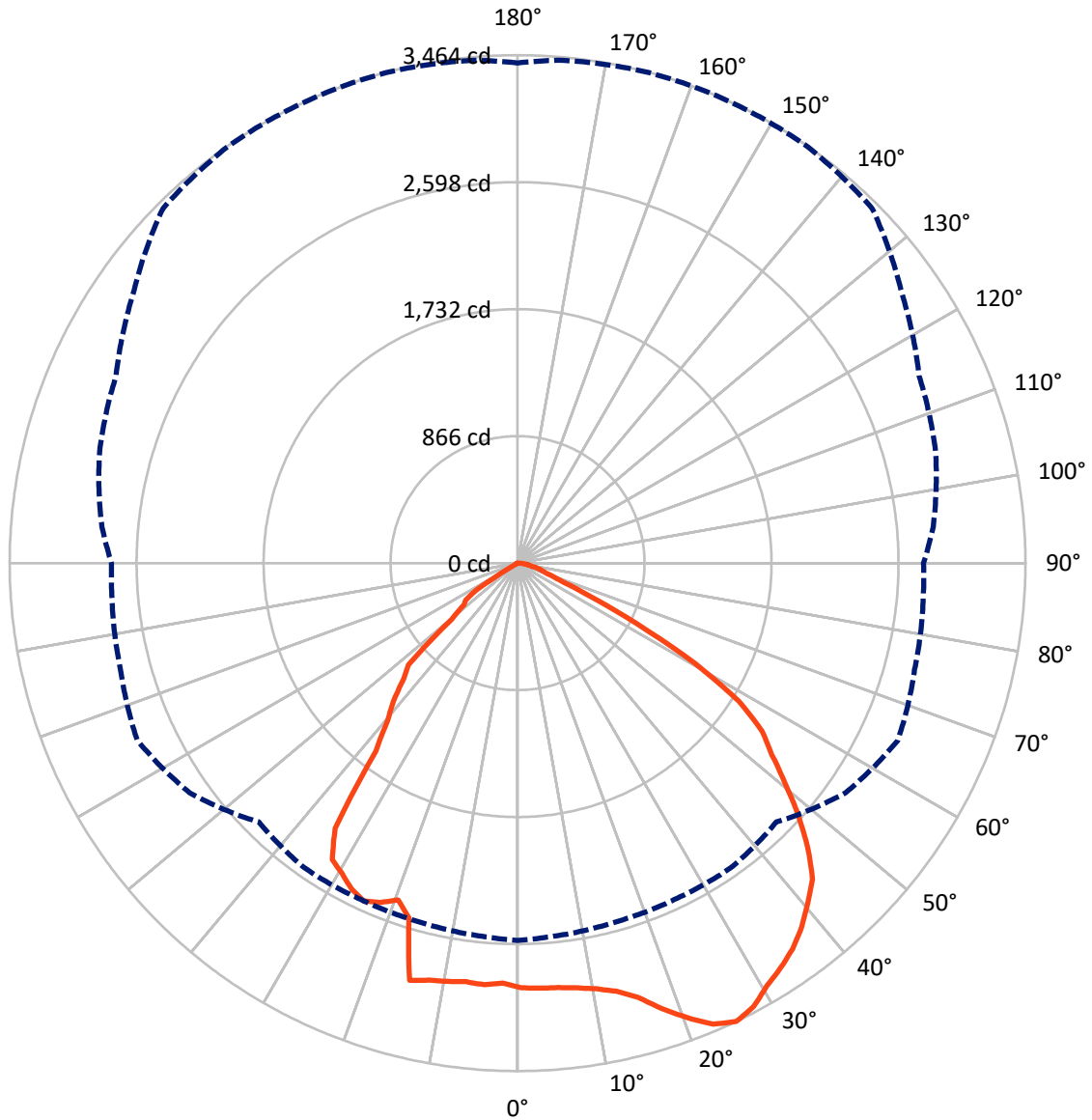
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4155.0	0.0	4155.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2556.3	0.0	2556.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	6711.3	0.0	6711.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	4.1
10°-20°	848.3	12.6
20°-30°	1341.1	20.0
30°-40°	1514.9	22.6
40°-50°	1418.7	21.1
50°-60°	978.1	14.6
60°-70°	262.8	3.9
70°-80°	54.8	0.8
80°-90°	14.8	0.2
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°	6711.3	100.0
0°-180°	6711.3	100.0



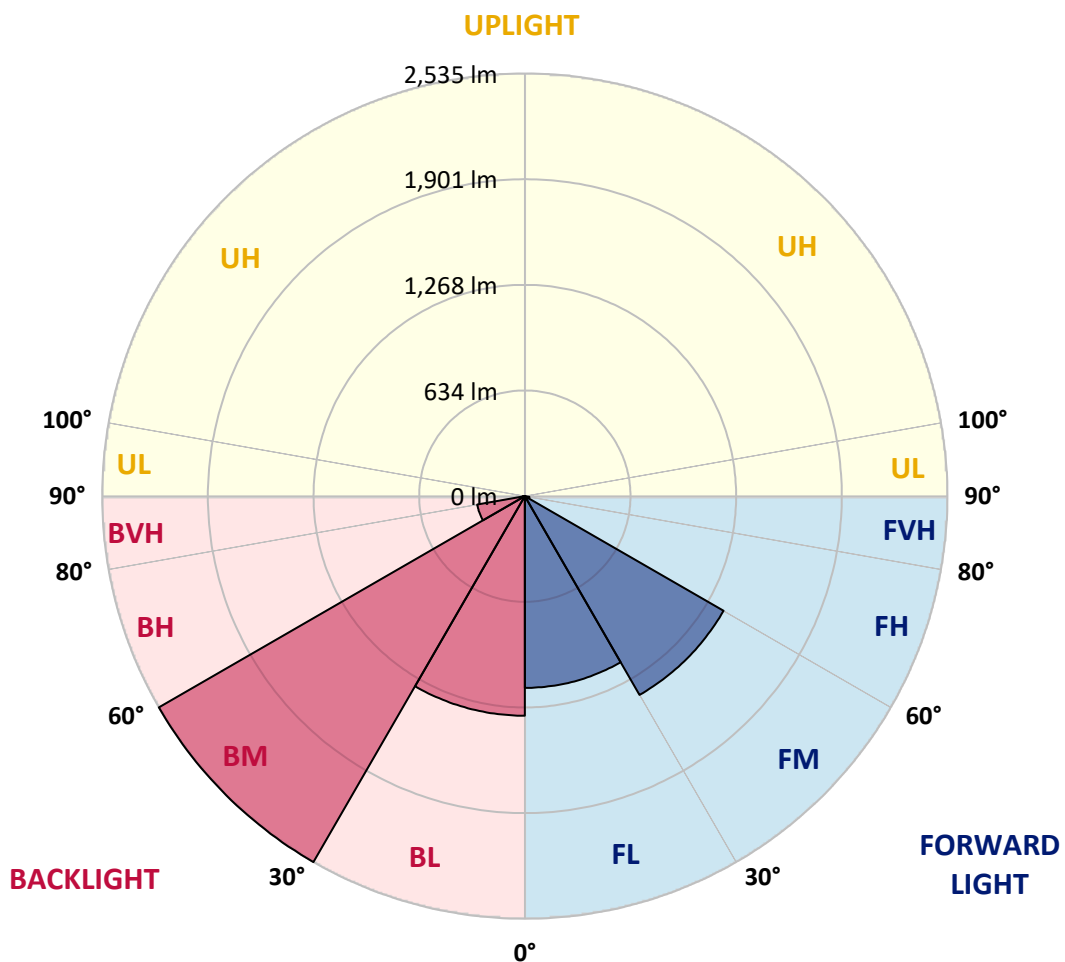
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.1	17.1			
FM (30°-60°)	1376.6	20.5			
FH (60°-80°)	27.6	0.4			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1317.1	19.6	B3/2500		
BM (30°-60°)	2535.1	37.8	B3/5000		
BH (60°-80°)	290.0	4.3	B1/500		G1/500
BVH (80°-90°)	12.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8
2.5°	2908.6	2889.9	2872.1	2866.2	2890.9	2917.5	2900.7	2901.7	2895.8	2906.6
5°	2930.3	2904.7	2892.8	2884.0	2887.9	2915.5	2891.8	2900.7	2890.9	2903.7
7.5°	2922.4	2904.7	2892.8	2876.1	2888.9	2921.4	2898.7	2899.7	2894.8	2906.6
10°	2917.5	2904.7	2889.9	2891.8	2906.6	2934.3	2916.5	2926.4	2919.5	2926.4
12.5°	2929.3	2915.5	2907.6	2907.6	2920.4	2952.0	2943.1	2952.0	2949.1	2955.0
15°	2817.9	2830.7	2905.7	2939.2	2964.8	2996.4	2992.4	3001.3	3003.3	3012.2
17.5°	2377.0	2364.2	2358.3	2530.9	2989.5	3087.1	3084.2	3083.2	3073.3	3066.4
20°	2435.2	2430.3	2423.4	2436.2	2487.5	3134.5	3154.2	3032.9	2997.4	2994.4
22.5°	2527.9	2520.0	2494.4	2495.4	2511.1	2725.2	3056.6	2946.1	2934.3	2927.4
25°	2573.3	2557.5	2536.8	2530.9	2535.8	2496.3	2730.1	2861.3	2803.1	2776.4
27.5°	2493.4	2494.4	2477.6	2493.4	2474.6	2297.1	2197.5	2695.6	2693.6	2681.8
30°	2433.2	2430.3	2410.5	2430.3	2301.0	2102.8	2060.4	2514.1	2493.4	2477.6
32.5°	2248.8	2250.7	2308.0	2384.9	2172.8	2016.0	1887.8	2245.8	2442.1	2433.2
35°	1608.7	1612.6	1815.8	2195.5	1978.5	1843.4	1833.5	1941.0	2361.2	2365.2
37.5°	1548.5	1548.5	1543.6	1605.7	1825.6	1773.4	1793.1	1782.3	2163.0	2172.8
40°	1505.1	1496.2	1489.3	1391.7	1269.4	1724.1	1737.9	1688.6	2044.6	2046.6
42.5°	1452.8	1443.0	1444.9	1264.4	1136.2	1601.8	1563.3	1497.2	1847.3	1849.3
45°	1357.2	1373.9	1385.8	1106.6	1096.8	1144.1	1442.0	1400.6	1714.2	1750.7
47.5°	690.4	705.2	1082.0	1017.9	1040.6	1016.9	1218.1	1219.1	1426.2	1547.5
50°	626.3	622.4	623.3	593.8	960.7	822.6	880.8	1117.5	1142.1	1315.7
52.5°	583.9	582.9	522.7	464.5	603.6	723.9	639.1	808.8	849.2	1114.5
55°	432.0	463.6	412.3	436.9	377.8	579.9	577.0	729.9	743.7	893.6
57.5°	3.9	4.9	11.8	332.4	261.4	290.0	398.5	498.1	522.7	696.3
60°	1.0	2.0	4.9	9.9	169.6	178.5	266.3	288.0	324.5	415.2
62.5°	0.0	0.0	2.0	4.9	8.9	73.0	84.8	92.7	143.0	212.1
65°	0.0	0.0	1.0	3.0	4.9	11.8	20.7	43.4	62.1	76.9
67.5°	0.0	0.0	1.0	2.0	3.9	5.9	11.8	16.8	26.6	45.4
70°	0.0	0.0	1.0	2.0	3.0	4.9	7.9	11.8	15.8	22.7
72.5°	0.0	0.0	1.0	2.0	2.0	5.9	5.9	8.9	11.8	14.8
75°	0.0	0.0	1.0	1.0	2.0	3.9	5.9	6.9	7.9	11.8
77.5°	0.0	0.0	1.0	2.0	3.0	3.9	4.9	7.9	6.9	6.9
80°	0.0	0.0	1.0	3.0	3.0	4.9	5.9	7.9	4.9	4.9
82.5°	0.0	0.0	1.0	3.9	3.0	9.9	9.9	10.8	3.9	3.9
85°	0.0	0.0	3.0	2.0	5.9	9.9	8.9	5.9	4.9	3.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	6.9	5.9	2.0	2.0
90°	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°
2895.8	0°	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8	2895.8
2878.0	2.5°	2917.5	2904.7	2931.3	2928.3	2915.5	2909.6	2902.7	2896.8	2853.4
2880.0	5°	2918.5	2898.7	2931.3	2925.4	2923.4	2913.5	2907.6	2916.5	2877.1
2887.9	7.5°	2918.5	2898.7	2934.3	2936.2	2933.3	2925.4	2924.4	2930.3	2897.8
2901.7	10°	2938.2	2930.3	2959.9	2962.9	2958.9	2956.9	2952.0	2948.1	2913.5
2949.1	12.5°	2979.6	2963.8	2997.4	3006.3	3003.3	3008.2	2996.4	3002.3	2966.8
2997.4	15°	3029.9	3030.9	3056.6	3076.3	3074.3	3090.1	3072.3	3088.1	3062.5
3052.6	17.5°	3106.9	3117.7	3154.2	3183.8	3194.6	3206.5	3194.6	3199.6	3163.1
2991.5	20°	3026.0	3066.4	3242.0	3296.2	3318.9	3329.8	3310.0	3316.0	3279.5
2916.5	22.5°	2953.0	3005.3	3161.1	3330.8	3400.8	3422.5	3415.6	3414.6	3400.8
2768.6	25°	2845.5	2951.0	3021.1	3200.6	3420.5	3460.0	3463.9	3462.9	3442.2
2677.8	27.5°	2713.3	2737.0	2918.5	3028.0	3282.4	3432.3	3426.4	3397.8	3370.2
2489.4	30°	2544.7	2652.2	2734.0	2908.6	3103.9	3347.5	3347.5	3325.8	3297.2
2422.4	32.5°	2458.9	2597.9	2673.9	2737.0	2903.7	3252.8	3292.3	3269.6	3246.9
2370.1	35°	2413.5	2434.2	2611.7	2668.9	2810.0	3070.4	3230.1	3207.5	3190.7
2231.0	37.5°	2313.9	2362.2	2445.0	2597.9	2641.3	2921.4	3147.3	3135.5	3115.7
2050.5	40°	2092.0	2221.2	2348.4	2493.4	2538.7	2730.1	3046.7	3051.6	3025.0
1858.2	42.5°	1960.8	2048.6	2247.8	2345.4	2467.7	2606.8	2949.1	2956.9	2938.2
1760.6	45°	1806.9	1904.6	2044.6	2222.1	2388.8	2437.2	2776.4	2859.3	2843.5
1566.3	47.5°	1665.9	1744.8	1916.4	2095.9	2280.3	2273.4	2578.2	2734.0	2712.3
1417.3	50°	1465.6	1603.7	1684.6	1849.3	2124.5	2143.2	2367.1	2587.1	2569.3
1204.3	52.5°	1235.8	1409.4	1564.3	1715.2	1966.7	2011.1	2170.9	2437.2	2425.3
920.2	55°	1080.0	1206.3	1380.8	1502.1	1775.3	1893.7	2023.9	2294.1	2288.2
756.5	57.5°	768.3	1011.9	1155.9	1325.6	1469.6	1683.6	1780.3	2003.2	1948.0
419.2	60°	520.8	635.2	810.7	993.2	1089.9	1303.9	1393.6	1572.2	1557.4
250.5	62.5°	275.2	380.7	506.0	597.7	667.7	875.8	913.3	1105.6	1100.7
100.6	65°	121.3	160.8	274.2	321.5	393.5	490.2	522.7	591.8	575.0
49.3	67.5°	63.1	95.7	154.8	190.4	239.7	276.2	302.8	324.5	338.3
32.5	70°	38.5	70.0	95.7	132.2	164.7	194.3	215.0	244.6	262.4
16.8	72.5°	28.6	44.4	66.1	101.6	119.3	153.9	174.6	196.3	212.1
13.8	75°	15.8	29.6	53.3	79.9	95.7	125.3	144.0	158.8	163.7
7.9	77.5°	9.9	22.7	44.4	62.1	75.0	101.6	96.7	110.5	122.3
5.9	80°	6.9	16.8	34.5	51.3	52.3	65.1	76.9	88.8	96.7
3.9	82.5°	4.9	13.8	25.6	39.5	34.5	50.3	60.2	69.0	50.3
3.0	85°	3.9	9.9	12.8	23.7	19.7	35.5	30.6	29.6	19.7
2.0	87.5°	3.0	4.9	8.9	10.8	7.9	7.9	9.9	11.8	9.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
2895.8  
2823.8  
2843.5  
2860.3  
2884.9  
2935.2  
3020.1  
3131.5  
3253.8  
3356.4  
*3410.6*  
3348.5  
3286.4  
3228.2  
3167.0  
3096.0  
3019.1  
2936.2  
2845.5  
2728.1  
2572.3  
2433.2  
2295.1  
1942.0  
1558.4  
1101.7  
568.1  
338.3  
263.3  
215.0  
160.8  
124.3  
97.6  
36.5  
19.7  
9.9  
0.0

(END OF REPORT)