

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: McGRAW-EDISON

Report Number: P941439

Luminaire Tested: **GALN-SB5A-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18501 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.7
Input Voltage (V): NR
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

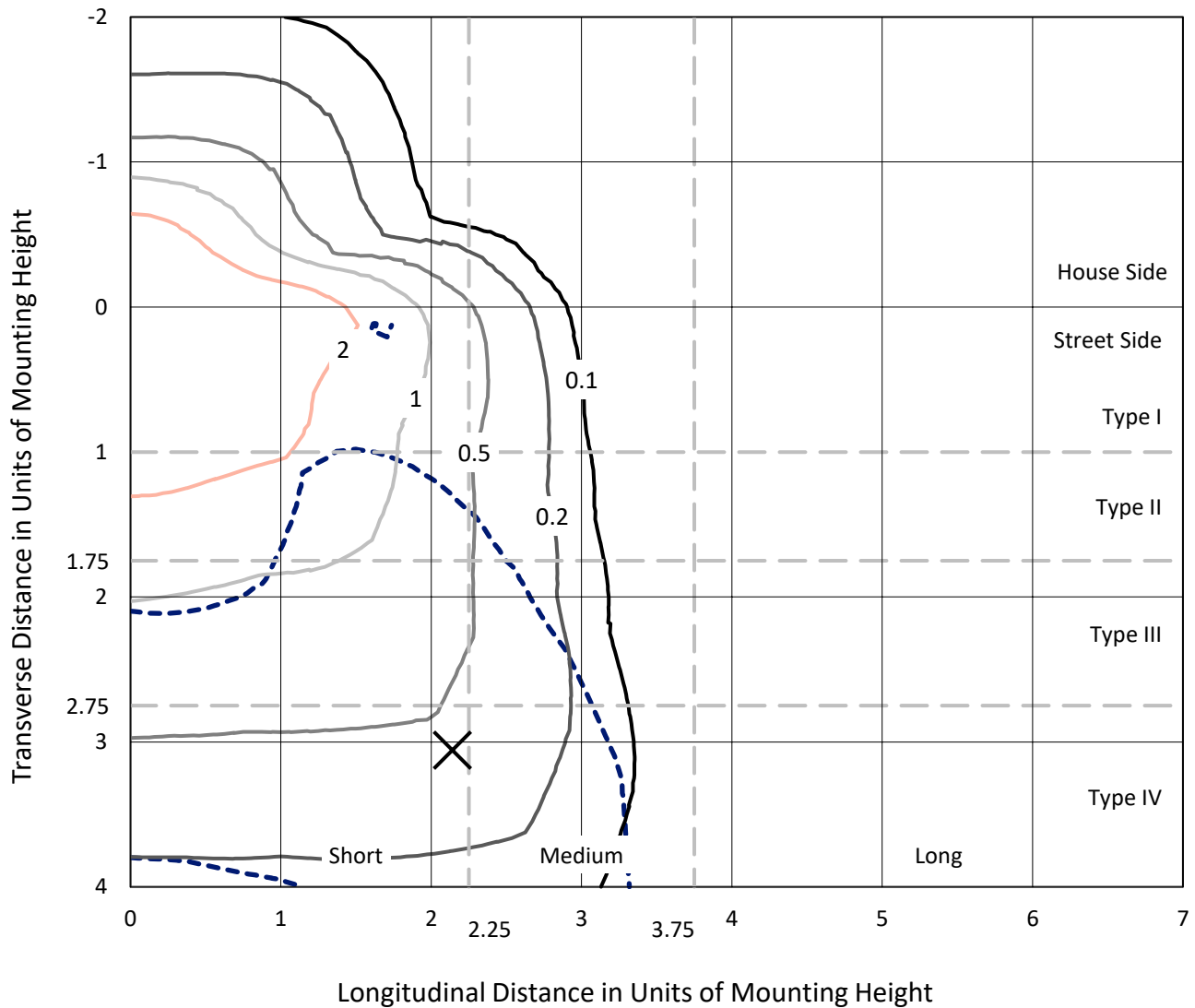


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

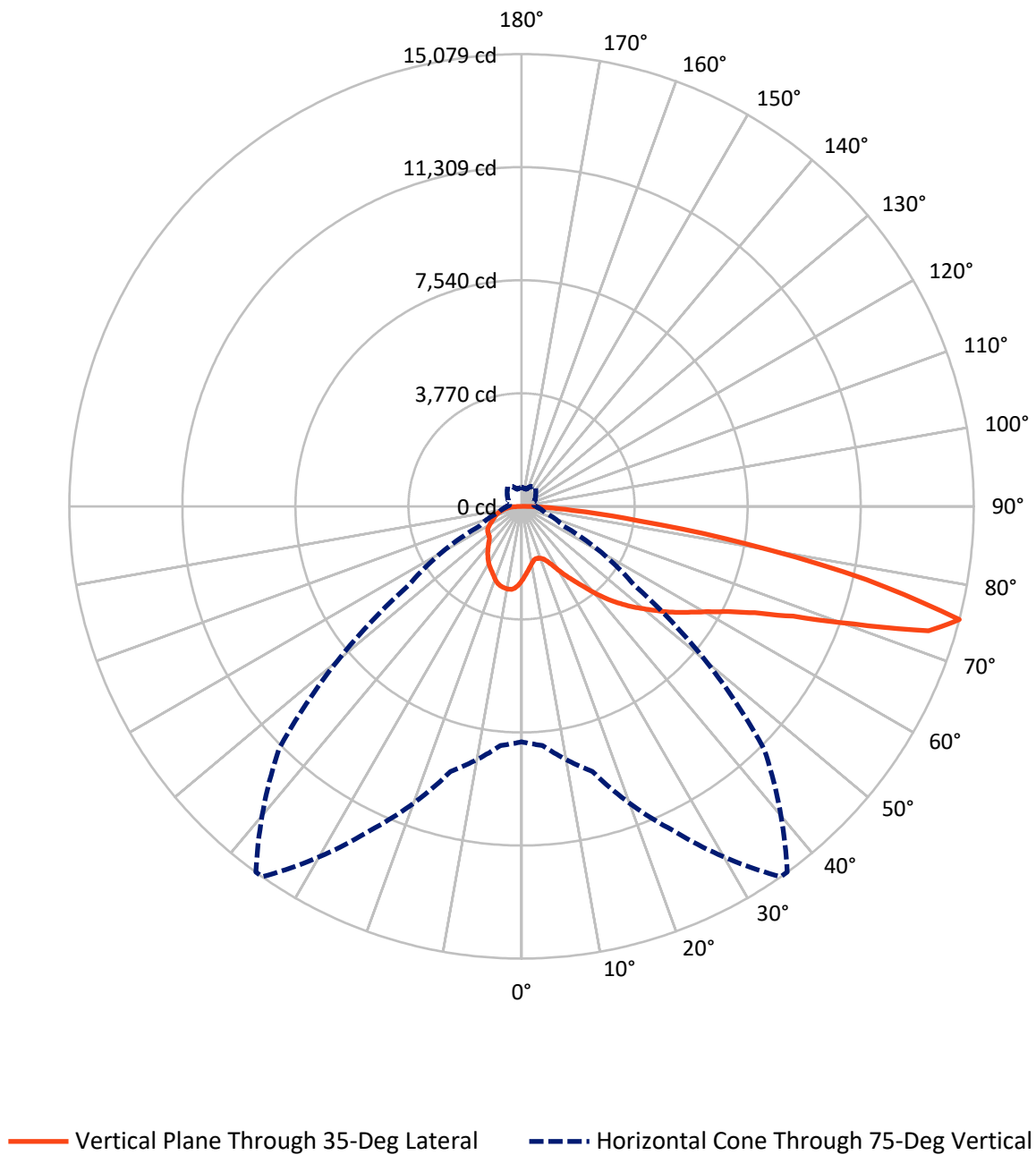


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4402.8	0.0	4402.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14098.2	0.0	14098.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	18501.0	0.0	18501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.3
10°-20°	673.3	3.6
20°-30°	1130.6	6.1
30°-40°	1757.2	9.5
40°-50°	2608.1	14.1
50°-60°	3600.6	19.5
60°-70°	4368.4	23.6
70°-80°	3610.1	19.5
80°-90°	519.2	2.8
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°	18501.0	100.0
0°-180°	18501.0	100.0

Coefficient of Utilization



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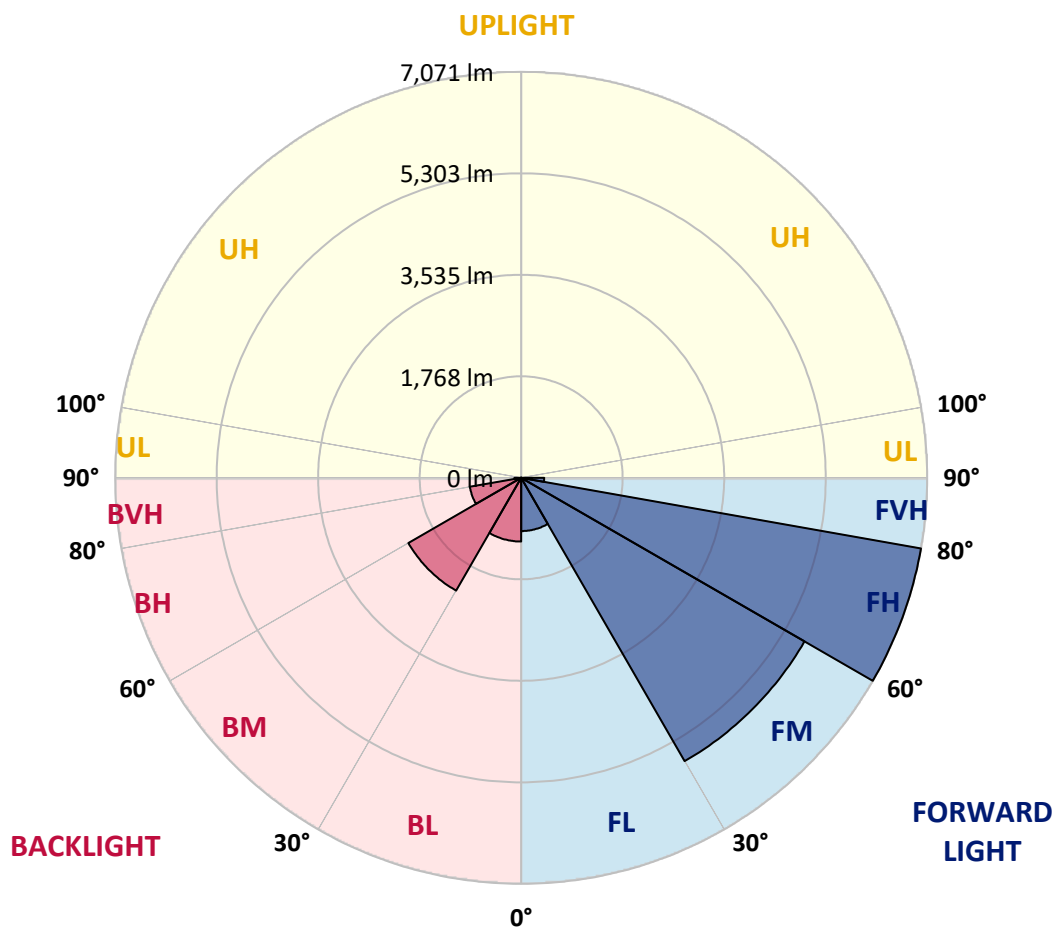
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	927.8	5.0			
FM	(30°-60°)	5697.3	30.8			
FH	(60°-80°)	7070.8	38.2			G3/7500
FVH	(80°-90°)	402.3	2.2			G3/500
BL	(0°-30°)	1109.6	6.0	B3/2500		
BM	(30°-60°)	2268.6	12.3	B2/2500		
BH	(60°-80°)	907.7	4.9	B2/1000		G2/1000
BVH	(80°-90°)	116.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4
2.5°	2273.4	2287.4	2293.4	2290.4	2305.4	2303.4	2324.4	2350.4	2386.4	2421.4	2472.4
5°	2098.3	2113.3	2126.3	2138.3	2167.3	2176.3	2209.3	2259.4	2325.4	2392.4	2476.4
7.5°	1935.3	1948.3	1968.3	1990.3	2039.3	2048.3	2103.3	2181.3	2273.4	2371.4	2487.4
10°	1802.3	1815.3	1836.3	1861.3	1922.3	1933.3	2003.3	2107.3	2227.3	2351.4	2499.4
12.5°	1745.3	1749.3	1761.3	1786.3	1839.3	1846.3	1923.3	2042.3	2182.3	2336.4	2517.4
15°	1742.3	1750.3	1751.3	1764.3	1808.3	1811.3	1882.3	2000.3	2154.3	2333.4	2544.4
17.5°	1772.3	1778.3	1769.3	1777.3	1814.3	1819.3	1875.3	1980.3	2145.3	2346.4	2590.4
20°	1852.3	1857.3	1830.3	1819.3	1846.3	1850.3	1905.3	1993.3	2154.3	2373.4	2653.4
22.5°	2022.3	2025.3	1959.3	1914.3	1916.3	1918.3	1966.3	2046.3	2189.3	2422.4	2733.4
25°	2287.4	2285.4	2180.3	2093.3	2043.3	2032.3	2064.3	2132.3	2248.3	2487.4	2836.4
27.5°	2597.4	2582.4	2477.4	2347.4	2238.3	2222.3	2215.3	2244.3	2332.4	2573.4	2962.5
30°	2947.5	2933.5	2820.4	2650.4	2499.4	2473.4	2407.4	2392.4	2457.4	2690.4	3137.5
32.5°	3331.5	3322.5	3187.5	2981.5	2779.4	2749.4	2638.4	2598.4	2649.4	2867.4	3381.5
35°	3653.6	3645.6	3533.5	3321.5	3074.5	3037.5	2924.5	2879.4	2905.5	3094.5	3700.6
37.5°	3944.6	3940.6	3844.6	3677.6	3422.5	3377.5	3250.5	3235.5	3230.5	3393.5	4087.6
40°	4214.7	4204.7	4104.6	4016.6	3827.6	3786.6	3674.6	3661.6	3623.6	3761.6	4525.7
42.5°	4513.7	4487.7	4342.7	4301.7	4250.7	4216.7	4149.6	4151.6	4067.6	4176.6	4989.8
45°	4757.7	4742.7	4593.7	4569.7	4624.7	4610.7	4668.7	4683.7	4520.7	4611.7	5471.9
47.5°	5019.8	5005.8	4879.8	4862.8	5011.8	5015.8	5220.8	5225.8	4962.8	5063.8	5954.9
50°	5342.8	5322.8	5197.8	5218.8	5385.8	5400.8	5775.9	5741.9	5369.8	5522.9	6434.0
52.5°	5555.9	5567.9	5540.9	5574.9	5802.9	5816.9	6322.0	6235.0	5772.9	5975.9	6904.1
55°	5712.9	5736.9	5820.9	5898.9	6243.0	6257.0	6837.1	6704.0	6106.9	6396.0	7346.1
57.5°	5914.9	5880.9	6037.9	6190.0	6661.0	6698.0	7338.1	7156.1	6403.0	6758.1	7649.2
60°	6205.0	6181.0	6303.0	6528.0	7129.1	7188.1	7868.2	7563.2	6620.0	7045.1	7708.2
62.5°	6793.1	6733.0	6752.1	6951.1	7719.2	7797.2	8466.3	7918.2	6728.0	7157.1	7392.1
65°	7672.2	7569.2	7473.2	7611.2	8550.3	8627.3	9141.4	8197.3	6688.0	6940.1	6553.0
67.5°	8779.4	8677.3	8559.3	8689.4	9774.5	9835.5	9974.6	8354.3	6373.0	6103.9	5069.8
70°	9692.5	9654.5	9795.5	10330.6	11729.8	11731.8	11042.7	8224.3	5509.9	4327.7	2933.5
72.5°	9571.5	9548.5	10291.6	11945.9	14194.2	14141.2	12053.9	7240.1	3711.6	1952.3	1099.2
75°	7852.2	8001.2	9152.4	11916.9	15079.3	15072.3	11434.8	4602.7	1535.2	809.1	568.1
77.5°	4210.7	4446.7	5941.9	8798.4	11771.8	11948.9	8039.3	1610.3	659.1	518.1	393.1
80°	1373.2	1579.2	2368.4	4479.7	7649.2	7616.2	3445.5	632.1	451.1	367.1	272.0
82.5°	583.1	607.1	1058.2	2115.3	3925.6	3864.6	1097.2	363.1	317.0	251.0	168.0
85°	228.0	255.0	467.1	978.2	1700.3	1663.3	396.1	180.0	203.0	164.0	100.0
87.5°	75.0	91.0	167.0	335.1	529.1	510.1	97.0	62.0	88.0	75.0	36.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4
2.5°	2486.4	2502.4	2521.4	2549.4	2573.4	2593.4	2614.4	2627.4	2632.4	2647.4	2646.4
5°	2504.4	2539.4	2586.4	2632.4	2677.4	2704.4	2728.4	2740.4	2751.4	2759.4	2761.4
7.5°	2534.4	2579.4	2653.4	2713.4	2751.4	2773.4	2789.4	2785.4	2789.4	2791.4	2794.4
10°	2560.4	2623.4	2711.4	2768.4	2797.4	2798.4	2794.4	2780.4	2773.4	2774.4	2776.4
12.5°	2591.4	2661.4	2756.4	2804.4	2812.4	2790.4	2773.4	2749.4	2740.4	2736.4	2734.4
15°	2633.4	2713.4	2805.4	2823.4	2803.4	2775.4	2746.4	2707.4	2687.4	2671.4	2676.4
17.5°	2684.4	2772.4	2843.4	2830.4	2787.4	2741.4	2694.4	2635.4	2594.4	2577.4	2578.4
20°	2755.4	2834.4	2872.4	2815.4	2750.4	2680.4	2600.4	2528.4	2490.4	2473.4	2471.4
22.5°	2841.4	2917.5	2900.5	2789.4	2697.4	2585.4	2485.4	2432.4	2413.4	2401.4	2403.4
25°	2944.5	3009.5	2920.5	2751.4	2610.4	2459.4	2382.4	2365.4	2356.4	2347.4	2347.4
27.5°	3078.5	3113.5	2935.5	2695.4	2474.4	2325.4	2297.4	2300.4	2297.4	2282.4	2285.4
30°	3255.5	3248.5	2949.5	2604.4	2318.4	2204.3	2206.3	2219.3	2221.3	2211.3	2216.3
32.5°	3488.5	3417.5	2956.5	2486.4	2169.3	2098.3	2100.3	2114.3	2124.3	2107.3	2115.3
35°	3770.6	3614.6	2945.5	2338.4	2054.3	1997.3	1982.3	1986.3	1989.3	1973.3	1984.3
37.5°	4099.6	3835.6	2896.5	2174.3	1959.3	1898.3	1866.3	1839.3	1823.3	1808.3	1818.3
40°	4460.7	4076.6	2806.4	2014.3	1853.3	1793.3	1745.3	1694.3	1640.3	1620.3	1629.3
42.5°	4838.8	4324.7	2697.4	1861.3	1731.3	1682.3	1631.3	1557.2	1476.2	1435.2	1440.2
45°	5230.8	4578.7	2590.4	1710.3	1606.2	1585.2	1526.2	1437.2	1349.2	1297.2	1293.2
47.5°	5614.9	4818.7	2433.4	1558.2	1489.2	1512.2	1466.2	1384.2	1286.2	1204.2	1195.2
50°	5981.9	5043.8	2176.3	1404.2	1394.2	1490.2	1446.2	1328.2	1216.2	1111.2	1102.2
52.5°	6346.0	5225.8	1847.3	1264.2	1343.2	1484.2	1420.2	1290.2	1153.2	1043.2	1031.2
55°	6655.0	5319.8	1530.2	1144.2	1269.2	1433.2	1389.2	1245.2	1064.2	947.1	937.1
57.5°	6831.1	5243.8	1266.2	1026.2	1167.2	1349.2	1336.2	1149.2	958.1	868.1	856.1
60°	6755.1	4935.8	1050.2	923.1	1070.2	1258.2	1244.2	1054.2	877.1	792.1	780.1
62.5°	6336.0	4348.7	879.1	833.1	982.2	1165.2	1152.2	981.2	815.1	733.1	720.1
65°	5491.9	3537.6	746.1	758.1	893.1	1053.2	1072.2	920.1	766.1	686.1	673.1
67.5°	4188.7	2562.4	642.1	693.1	806.1	943.1	998.2	876.1	725.1	649.1	637.1
70°	2387.4	1455.2	554.1	630.1	729.1	841.1	941.1	841.1	681.1	618.1	610.1
72.5°	905.1	668.1	479.1	567.1	655.1	755.1	878.1	786.1	630.1	583.1	575.1
75°	483.1	407.1	403.1	493.1	570.1	671.1	799.1	732.1	592.1	616.1	636.1
77.5°	329.1	288.0	337.1	422.1	477.1	578.1	715.1	650.1	513.1	511.1	471.1
80°	228.0	204.0	274.0	340.1	369.1	486.1	624.1	558.1	418.1	390.1	373.1
82.5°	137.0	133.0	205.0	254.0	261.0	375.1	517.1	468.1	342.1	298.0	300.0
85°	75.0	79.0	131.0	149.0	152.0	262.0	405.1	362.1	263.0	221.0	223.0
87.5°	21.0	27.0	48.0	59.0	73.0	136.0	241.0	215.0	132.0	92.0	92.0
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)