

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: P941432

Luminaire Tested: **GALN-SB5A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18555 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

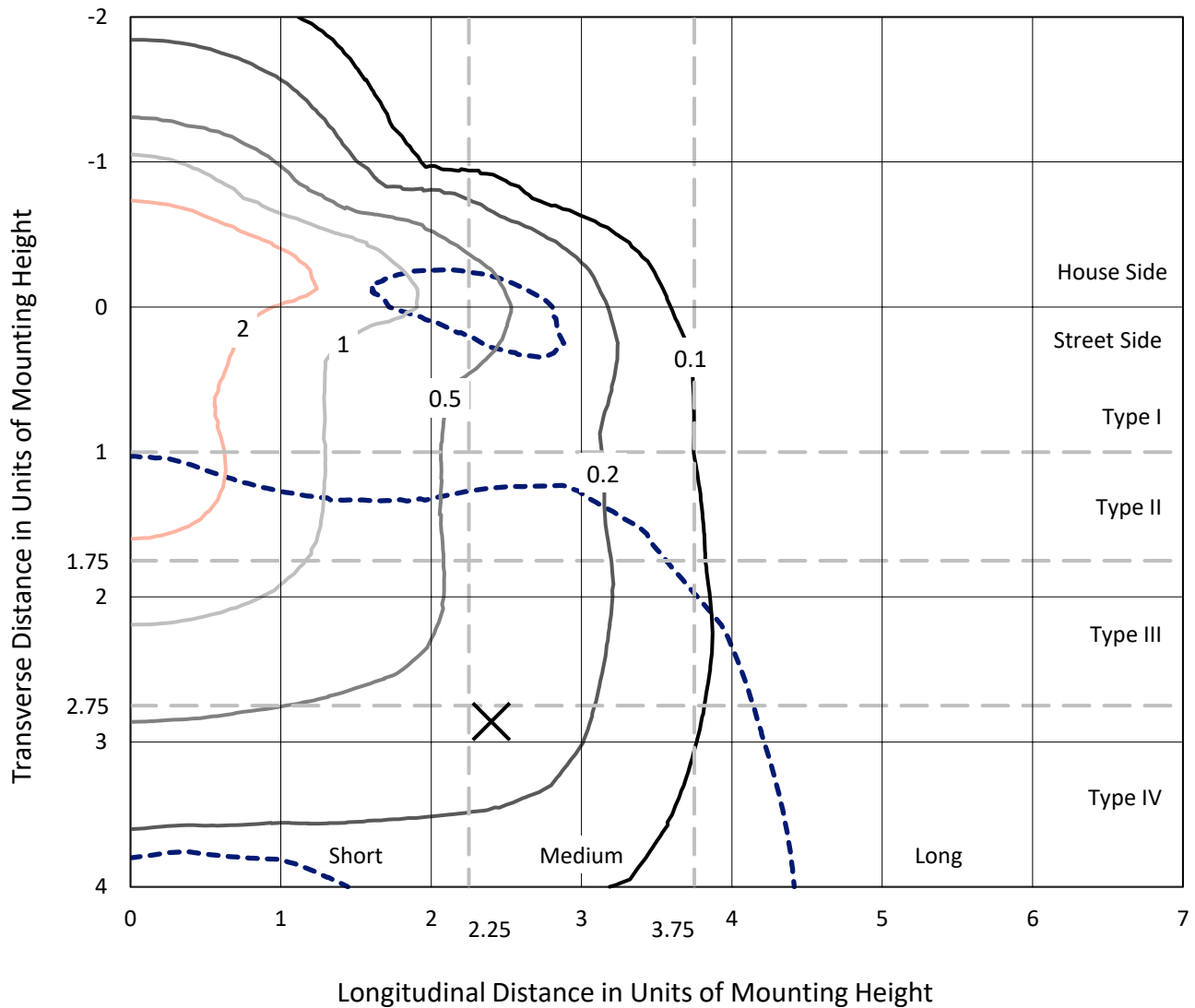
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941432
 CATALOG NUMBER: GALN-SB5A-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

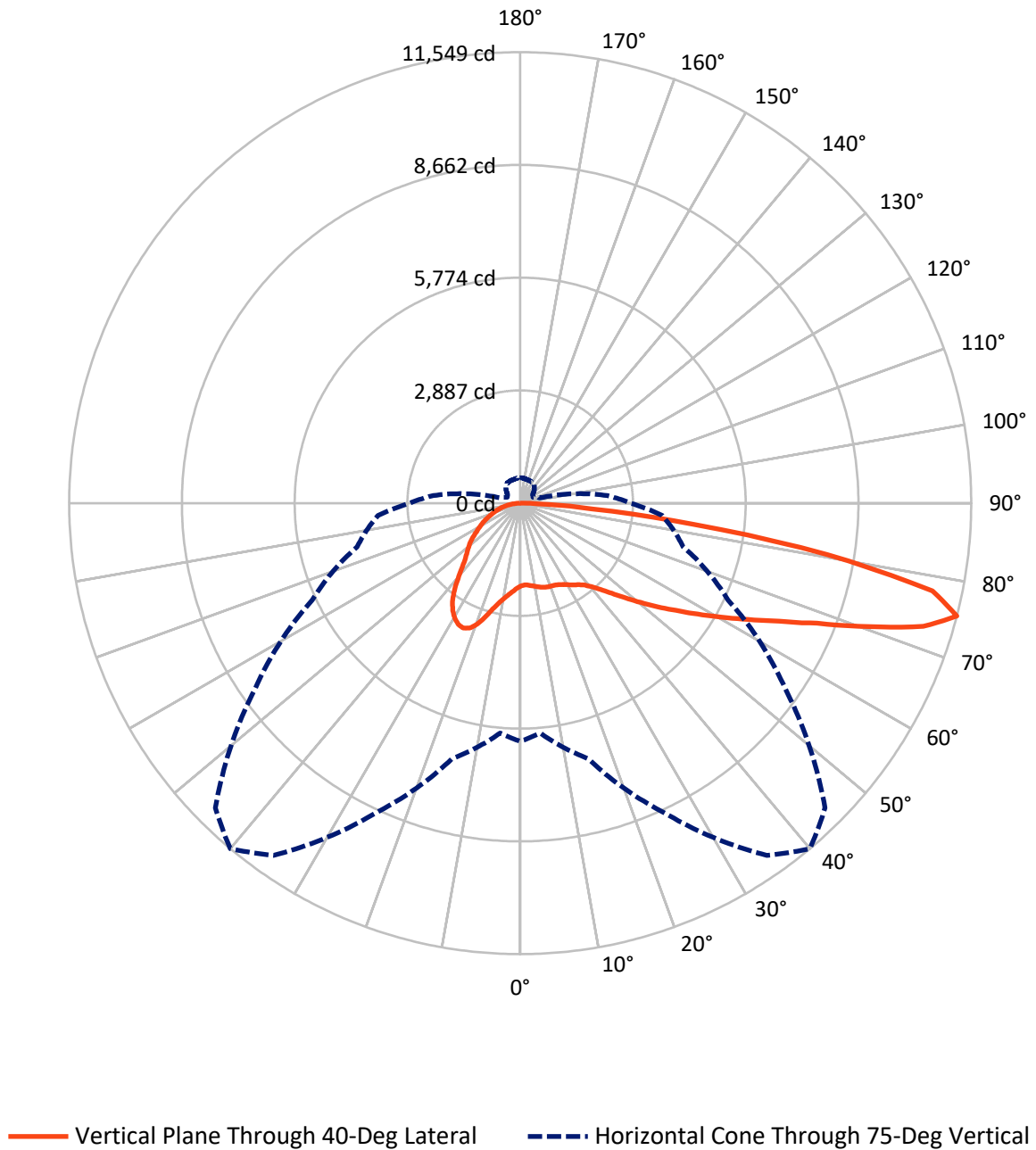


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P941432

CATALOG NUMBER: GALN-SB5A-722-U-SL4

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5749.0	0.0	5749.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12806.0	0.0	12806.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	18555.0	0.0	18555.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.1
10°-20°	711.1	3.8
20°-30°	1298.4	7.0
30°-40°	1841.5	9.9
40°-50°	2486.6	13.4
50°-60°	3345.1	18.0
60°-70°	4245.7	22.9
70°-80°	3853.2	20.8
80°-90°	561.7	3.0
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°	18555.0	100.0
0°-180°	18555.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941432

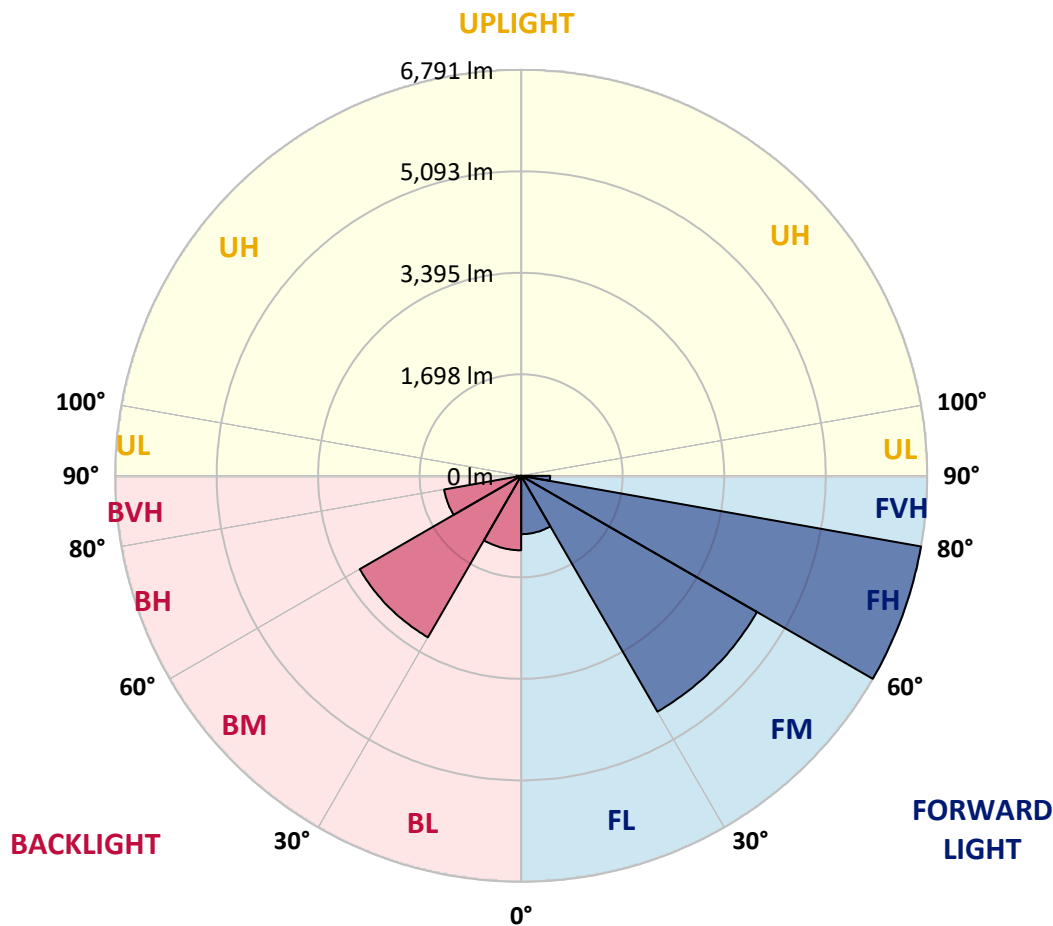
CATALOG NUMBER: GALN-SB5A-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	976.0	5.3			
FM	(30°-60°)	4554.8	24.5			
FH	(60°-80°)	6790.8	36.6			G3/7500
FVH	(80°-90°)	484.3	2.6			G3/500
BL	(0°-30°)	1245.3	6.7	B3/2500		
BM	(30°-60°)	3118.3	16.8	B3/5000		
BH	(60°-80°)	1308.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	77.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



REPORT NUMBER: P941432

CATALOG NUMBER: GALN-SB5A-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8
2.5°	2089.3	2101.1	2098.2	2094.2	2094.2	2095.2	2094.2	2101.1	2108.0	2114.9	2125.7
5°	2111.0	2122.8	2116.9	2111.9	2108.0	2107.0	2104.1	2103.1	2107.0	2115.9	2130.6
7.5°	2153.3	2165.1	2156.2	2147.4	2139.5	2135.6	2131.6	2125.7	2122.8	2127.7	2148.4
10°	2200.5	2212.3	2201.5	2185.8	2173.0	2168.0	2164.1	2158.2	2154.3	2157.2	2179.9
12.5°	2247.8	2259.6	2244.8	2223.2	2206.4	2203.5	2198.6	2196.6	2195.6	2194.6	2217.2
15°	2292.0	2301.9	2283.2	2257.6	2239.9	2235.0	2230.0	2233.0	2237.9	2243.8	2269.4
17.5°	2326.5	2336.3	2308.8	2275.3	2258.6	2256.6	2253.7	2263.5	2277.3	2292.0	2323.5
20°	2358.0	2367.8	2332.4	2287.1	2267.4	2267.4	2268.4	2289.1	2308.8	2330.4	2373.7
22.5°	2402.3	2410.1	2366.8	2304.8	2276.3	2278.3	2286.1	2306.8	2331.4	2360.9	2421.0
25°	2468.2	2474.1	2421.0	2338.3	2305.8	2311.7	2318.6	2328.5	2352.1	2386.5	2467.2
27.5°	2574.5	2579.4	2509.5	2397.3	2348.1	2358.0	2367.8	2360.9	2371.8	2401.3	2504.6
30°	2724.1	2727.0	2638.5	2489.9	2420.0	2424.9	2426.9	2398.3	2377.7	2401.3	2531.2
32.5°	2901.2	2900.2	2794.9	2602.0	2501.7	2496.7	2480.0	2423.9	2375.7	2396.4	2554.8
35°	3175.8	3165.0	3029.2	2759.5	2594.2	2563.7	2524.3	2452.5	2385.5	2391.4	2575.5
37.5°	3630.5	3597.0	3409.0	3017.3	2732.0	2654.2	2596.1	2498.7	2407.2	2389.5	2600.1
40°	4143.2	4100.9	3894.2	3370.7	2938.6	2813.6	2720.1	2564.6	2442.6	2398.3	2636.5
42.5°	4751.4	4691.4	4468.9	3786.9	3200.4	3019.3	2878.6	2648.3	2494.8	2426.9	2685.7
45°	5498.3	5418.6	5103.7	4256.4	3530.1	3289.0	3101.0	2775.3	2574.5	2482.0	2759.5
47.5°	6253.2	6272.9	5825.1	4793.7	3925.7	3621.6	3379.5	2966.2	2690.6	2570.6	2878.6
50°	7055.2	7069.0	6542.5	5389.1	4374.5	3997.5	3692.5	3179.7	2852.0	2696.5	3056.7
52.5°	7681.2	7683.1	7194.0	6012.1	4841.9	4410.9	4030.0	3423.8	3039.0	2863.8	3293.9
55°	8072.8	8067.9	7650.6	6601.6	5379.3	4844.9	4404.0	3701.3	3267.3	3060.7	3592.1
57.5°	8357.3	8342.5	7965.6	7108.4	5952.0	5357.6	4827.2	4016.2	3537.0	3294.9	3984.8
60°	8465.5	8456.6	8179.1	7546.3	6554.3	5924.5	5315.3	4368.6	3843.0	3571.4	4489.6
62.5°	8506.8	8523.6	8388.7	7970.5	7198.9	6552.4	5851.6	4789.8	4187.5	3884.4	5022.0
65°	8652.5	8683.0	8655.4	8525.5	7927.2	7287.5	6563.2	5290.7	4563.4	4220.0	5578.1
67.5°	8940.8	8971.3	8983.2	9189.8	8816.8	8203.7	7450.9	5914.6	5003.3	4568.3	5996.3
70°	8934.0	8925.1	9133.7	9718.3	9930.9	9472.3	8647.6	6682.3	5527.9	4857.7	6049.5
72.5°	8131.9	8061.0	8554.1	9712.4	10857.9	10796.9	10109.0	7672.3	5980.6	4893.1	5249.4
75°	6100.6	5911.7	6782.6	8752.9	11012.4	11548.8	11038.0	8286.4	5873.3	4323.3	3653.1
77.5°	2608.9	2419.0	3445.4	6479.5	9856.1	10795.9	10185.8	7229.4	4688.4	2858.9	1794.1
80°	683.0	682.0	1041.2	2937.6	6702.9	7972.5	6994.2	4668.7	2678.8	1021.5	495.0
82.5°	282.4	275.6	382.8	1142.6	3275.2	4473.9	3651.1	2082.4	967.4	276.5	164.4
85°	105.3	104.3	186.0	394.6	1155.4	1845.2	1335.5	532.4	241.1	134.8	73.8
87.5°	29.5	28.5	40.3	136.8	281.5	427.1	228.3	87.6	67.9	53.1	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941432

CATALOG NUMBER: GALN-SB5A-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8	2121.8
2.5°	2128.7	2133.6	2142.5	2149.3	2158.2	2168.0	2181.8	2190.7	2199.5	2205.4	2201.5
5°	2137.5	2148.4	2171.0	2193.6	2220.2	2244.8	2273.3	2294.0	2310.7	2315.7	2317.6
7.5°	2157.2	2174.9	2213.3	2251.7	2294.0	2334.4	2375.7	2411.1	2439.7	2450.5	2451.5
10°	2191.7	2215.3	2269.4	2323.5	2379.6	2441.6	2494.8	2545.9	2586.3	2603.0	2604.0
12.5°	2235.0	2264.5	2335.3	2410.1	2487.9	2573.5	2642.4	2705.4	2755.6	2778.2	2778.2
15°	2291.1	2329.4	2420.0	2520.4	2634.5	2753.6	2841.2	2911.1	2967.2	2994.7	2992.7
17.5°	2352.1	2403.3	2517.4	2669.0	2832.3	2988.8	3091.2	3142.3	3200.4	3227.0	3226.0
20°	2411.1	2474.1	2637.5	2857.9	3075.4	3241.7	3324.4	3338.2	3342.1	3345.1	3352.9
22.5°	2472.1	2556.8	2788.0	3096.1	3329.3	3444.5	3456.3	3397.2	3314.6	3276.2	3287.0
25°	2539.1	2651.3	2984.9	3358.8	3547.8	3561.6	3471.0	3327.4	3170.9	3099.0	3109.9
27.5°	2604.0	2760.5	3221.1	3609.8	3705.3	3584.2	3389.4	3185.6	2996.7	2920.9	2929.8
30°	2669.0	2885.5	3481.9	3829.3	3777.1	3528.1	3260.4	3033.1	2843.2	2763.4	2772.3
32.5°	2734.9	3031.1	3782.0	3987.7	3764.3	3409.0	3100.0	2861.9	2694.6	2610.9	2621.7
35°	2809.7	3210.2	4066.4	4074.3	3678.7	3233.9	2888.4	2657.2	2511.5	2444.6	2459.3
37.5°	2907.1	3437.6	4317.4	4096.0	3529.1	2977.0	2625.7	2415.1	2295.0	2264.5	2286.1
40°	3028.2	3711.2	4509.3	4061.5	3307.7	2665.0	2338.3	2170.0	2102.1	2109.0	2132.6
42.5°	3185.6	4017.2	4644.1	3972.9	2999.6	2343.2	2086.4	2011.6	2044.0	2071.6	2097.2
45°	3390.3	4335.1	4727.8	3822.4	2651.3	2070.6	1937.8	1955.5	1980.1	1983.0	2002.7
47.5°	3652.1	4656.9	4782.9	3595.0	2296.0	1878.7	1843.3	1847.2	1842.3	1821.6	1837.4
50°	3978.8	4969.9	4832.1	3293.9	1993.9	1758.6	1711.4	1697.6	1629.7	1562.8	1571.7
52.5°	4350.8	5257.2	4852.8	2919.9	1758.6	1658.3	1581.5	1494.9	1367.9	1347.3	1354.2
55°	4764.2	5522.9	4799.6	2460.3	1560.8	1529.3	1413.2	1308.9	1295.1	1277.4	1280.4
57.5°	5258.2	5809.3	4691.4	1947.6	1358.1	1378.8	1265.6	1277.4	1252.8	1225.2	1220.3
60°	5798.5	6105.6	4501.4	1480.1	1148.5	1190.8	1227.2	1226.2	1219.3	1196.7	1188.8
62.5°	6284.7	6300.4	4127.5	1133.7	964.4	1045.1	1144.5	1143.6	1137.7	1124.9	1119.9
65°	6574.0	6270.9	3503.5	892.6	812.9	925.1	1032.4	1040.2	1041.2	1040.2	1040.2
67.5°	6522.8	5925.5	2647.3	710.5	687.9	803.1	921.1	932.0	939.8	941.8	943.8
70°	5944.2	5166.7	1726.2	566.9	576.7	695.8	815.8	826.7	833.6	841.4	845.4
72.5°	4633.3	3798.8	988.1	458.6	479.3	603.3	711.5	724.3	728.3	743.0	748.9
75°	2823.5	2234.0	533.4	361.2	393.7	515.7	608.2	623.0	629.8	647.6	649.5
77.5°	1342.4	967.4	304.1	281.5	316.9	421.2	513.7	530.4	511.7	521.6	513.7
80°	453.7	359.2	191.9	214.5	242.1	328.7	411.4	428.1	388.7	386.8	382.8
82.5°	158.4	145.7	122.0	142.7	156.5	235.2	311.0	332.6	289.3	288.4	274.6
85°	62.0	59.0	67.9	77.7	93.5	144.7	204.7	215.5	178.1	143.7	141.7
87.5°	12.8	13.8	16.7	17.7	28.5	50.2	73.8	90.5	71.8	61.0	56.1
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)