

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: P940772

Luminaire Tested: **GALN-SB4A-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940772
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-SB4A-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 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: 17821 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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

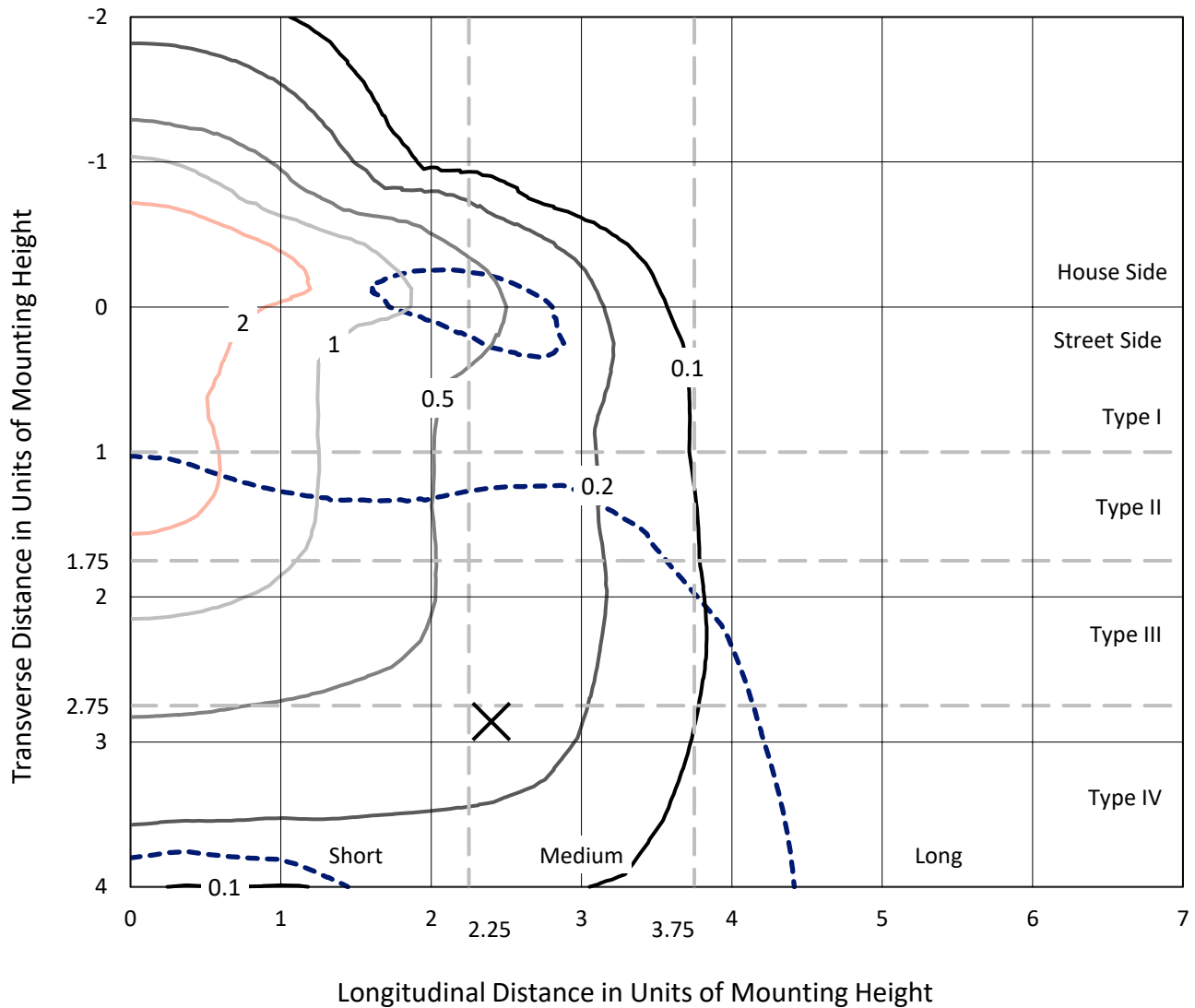


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

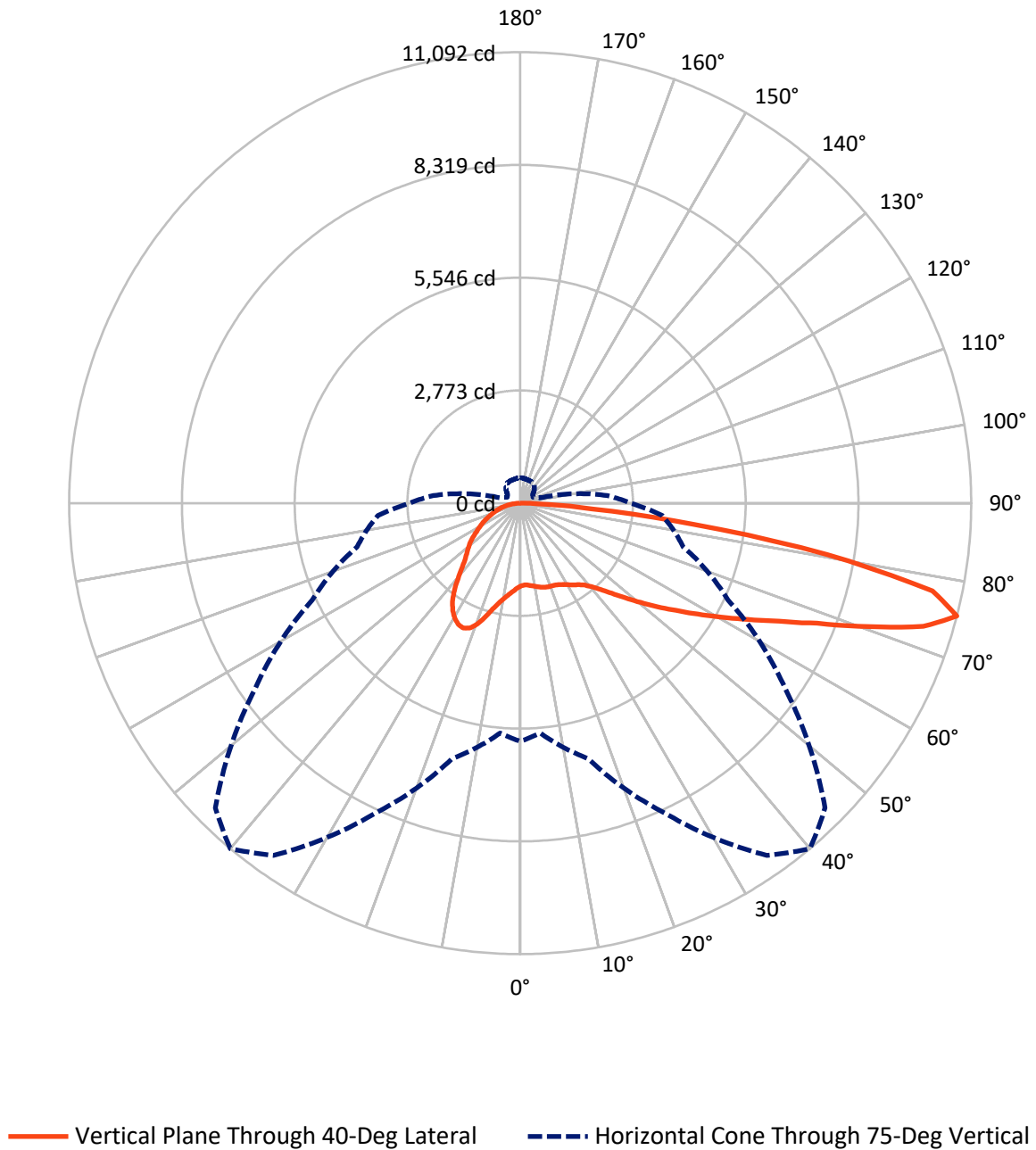


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5521.5	0.0	5521.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12299.5	0.0	12299.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	17821.0	0.0	17821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	683.0	3.8
20°-30°	1247.0	7.0
30°-40°	1768.6	9.9
40°-50°	2388.2	13.4
50°-60°	3212.8	18.0
60°-70°	4077.7	22.9
70°-80°	3700.8	20.8
80°-90°	539.5	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°	17821.0	100.0
0°-180°	17821.0	100.0

Coefficient of Utilization



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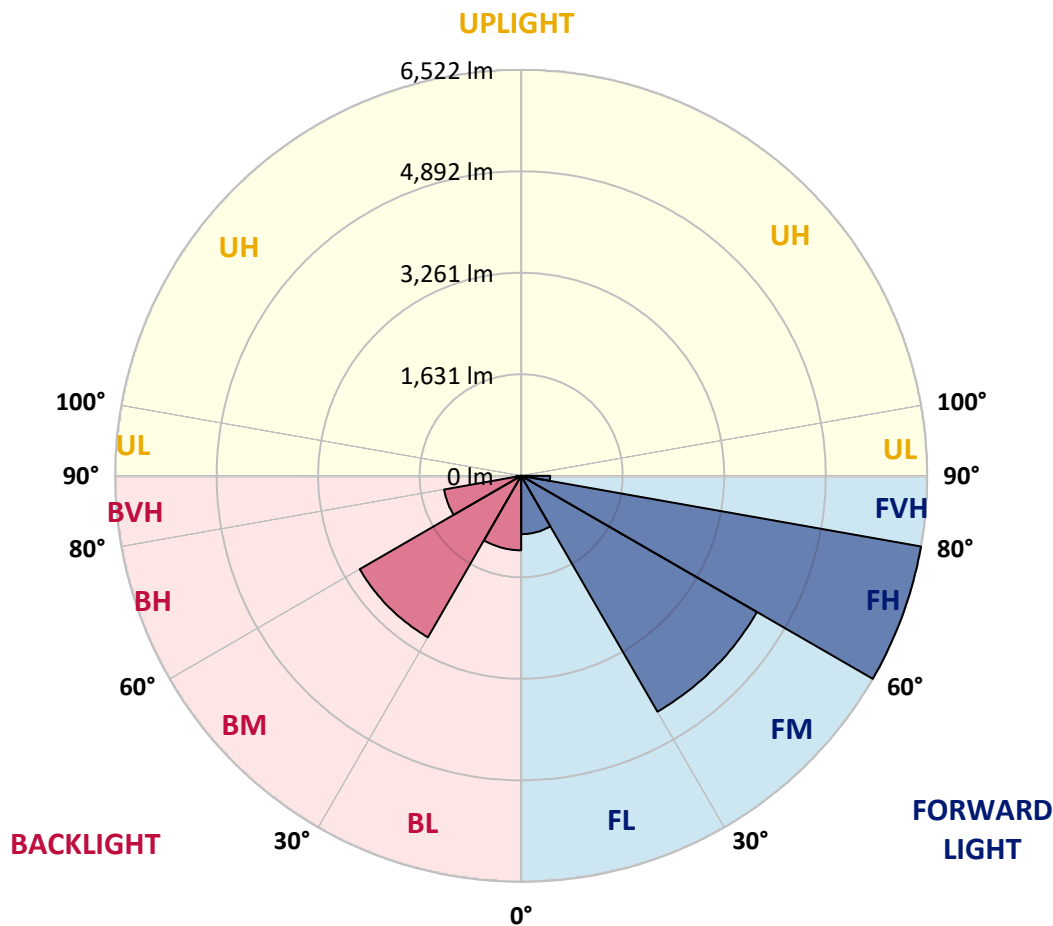
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	937.4	5.3			
FM	(30°-60°)	4374.7	24.5			
FH	(60°-80°)	6522.2	36.6			G3/7500
FVH	(80°-90°)	465.2	2.6			G3/500
BL	(0°-30°)	1196.0	6.7	B3/2500		
BM	(30°-60°)	2994.9	16.8	B3/5000		
BH	(60°-80°)	1256.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	74.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9
2.5°	2006.7	2018.0	2015.2	2011.4	2011.4	2012.3	2011.4	2018.0	2024.6	2031.2	2041.6
5°	2027.5	2038.8	2033.1	2028.4	2024.6	2023.7	2020.8	2019.9	2023.7	2032.2	2046.4
7.5°	2068.1	2079.4	2070.9	2062.4	2054.9	2051.1	2047.3	2041.6	2038.8	2043.5	2063.4
10°	2113.5	2124.8	2114.4	2099.3	2087.0	2082.3	2078.5	2072.8	2069.0	2071.9	2093.6
12.5°	2158.8	2170.2	2156.0	2135.2	2119.1	2116.3	2111.6	2109.7	2108.7	2107.8	2129.5
15°	2201.4	2210.8	2192.9	2168.3	2151.3	2146.6	2141.8	2144.7	2149.4	2155.1	2179.6
17.5°	2234.5	2243.9	2217.4	2185.3	2169.2	2167.3	2164.5	2174.0	2187.2	2201.4	2231.6
20°	2264.7	2274.2	2240.1	2196.6	2177.7	2177.7	2178.7	2198.5	2217.4	2238.2	2279.8
22.5°	2307.2	2314.8	2273.2	2213.7	2186.3	2188.1	2195.7	2215.6	2239.2	2267.5	2325.2
25°	2370.6	2376.2	2325.2	2245.8	2214.6	2220.3	2226.9	2236.3	2259.0	2292.1	2369.6
27.5°	2472.6	2477.4	2410.3	2302.5	2255.3	2264.7	2274.2	2267.5	2277.9	2306.3	2405.5
30°	2616.3	2619.2	2534.1	2391.4	2324.3	2329.0	2330.9	2303.5	2283.6	2306.3	2431.1
32.5°	2786.5	2785.5	2684.4	2499.1	2402.7	2398.0	2381.9	2328.0	2281.7	2301.6	2453.7
35°	3050.2	3039.8	2909.3	2650.3	2491.6	2462.3	2424.4	2355.4	2291.2	2296.8	2473.6
37.5°	3486.8	3454.7	3274.2	2898.0	2623.9	2549.2	2493.4	2399.9	2312.0	2294.9	2497.2
40°	3979.3	3938.7	3740.2	3237.3	2822.4	2702.3	2612.5	2463.2	2346.0	2303.5	2532.2
42.5°	4563.4	4505.8	4292.2	3637.1	3073.8	2899.9	2764.7	2543.5	2396.1	2330.9	2579.5
45°	5280.8	5204.3	4901.8	4088.0	3390.4	3158.9	2978.3	2665.5	2472.6	2383.8	2650.3
47.5°	6005.8	6024.7	5594.6	4604.1	3770.4	3478.3	3245.8	2848.8	2584.2	2468.9	2764.7
50°	6776.2	6789.4	6283.7	5175.9	4201.4	3839.4	3546.4	3053.9	2739.2	2589.9	2935.8
52.5°	7377.3	7379.2	6909.4	5774.2	4650.4	4236.4	3870.6	3288.4	2918.8	2750.5	3163.6
55°	7753.5	7748.8	7348.0	6340.4	5166.5	4653.2	4229.8	3554.9	3138.1	2939.6	3450.0
57.5°	8026.7	8012.5	7650.5	6827.2	5716.6	5145.7	4636.2	3857.4	3397.1	3164.5	3827.1
60°	8130.6	8122.1	7855.6	7247.8	6295.0	5690.1	5105.0	4195.8	3691.0	3430.1	4312.0
62.5°	8170.3	8186.4	8056.9	7655.2	6914.2	6293.2	5620.2	4600.3	4021.8	3730.7	4823.4
65°	8310.2	8339.5	8313.0	8188.3	7613.6	6999.2	6303.6	5081.4	4382.9	4053.0	5357.4
67.5°	8587.2	8616.5	8627.8	8826.3	8468.1	7879.2	7156.1	5680.7	4805.4	4387.6	5759.1
70°	8580.5	8572.0	8772.4	9333.9	9538.0	9097.6	8305.5	6417.9	5309.2	4665.5	5810.2
72.5°	7810.2	7742.1	8215.7	9328.2	10428.4	10369.8	9709.1	7368.8	5744.0	4699.5	5041.7
75°	5859.3	5677.8	6514.3	8406.6	10576.8	11091.9	10601.4	7958.6	5641.0	4152.3	3508.6
77.5°	2505.7	2323.3	3309.2	6223.2	9466.2	10368.9	9782.8	6943.5	4502.9	2745.8	1723.1
80°	656.0	655.0	1000.0	2821.4	6437.8	7657.1	6717.5	4484.0	2572.8	981.1	475.4
82.5°	271.3	264.7	367.7	1097.4	3145.6	4296.9	3506.7	2000.0	929.1	265.6	157.8
85°	101.1	100.2	178.6	379.0	1109.7	1772.3	1282.6	511.4	231.6	129.5	70.9
87.5°	28.4	27.4	38.8	131.4	270.3	410.2	219.3	84.1	65.2	51.0	20.8
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°	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9	2037.9
2.5°	2044.5	2049.2	2057.7	2064.3	2072.8	2082.3	2095.5	2104.0	2112.5	2118.2	2114.4
5°	2053.0	2063.4	2085.1	2106.9	2132.4	2156.0	2183.4	2203.3	2219.3	2224.1	2226.0
7.5°	2071.9	2088.9	2125.8	2162.6	2203.3	2242.0	2281.7	2315.7	2343.2	2353.6	2354.5
10°	2105.0	2127.6	2179.6	2231.6	2285.5	2345.0	2396.1	2445.2	2484.0	2500.1	2501.0
12.5°	2146.6	2174.9	2243.0	2314.8	2389.5	2471.7	2537.9	2598.4	2646.6	2668.3	2668.3
15°	2200.4	2237.3	2324.3	2420.7	2530.3	2644.7	2728.8	2795.9	2849.8	2876.2	2874.4
17.5°	2259.0	2308.2	2417.8	2563.4	2720.3	2870.6	2968.9	3018.0	3073.8	3099.3	3098.4
20°	2315.7	2376.2	2533.1	2744.9	2953.8	3113.5	3192.9	3206.1	3209.9	3212.7	3220.3
22.5°	2374.3	2455.6	2677.8	2973.6	3197.6	3308.2	3319.5	3262.8	3183.4	3146.6	3157.0
25°	2438.6	2546.4	2866.8	3226.0	3407.5	3420.7	3333.7	3195.7	3045.4	2976.4	2986.8
27.5°	2501.0	2651.3	3093.6	3467.0	3558.7	3442.4	3255.3	3059.6	2878.1	2805.4	2813.9
30°	2563.4	2771.3	3344.1	3677.8	3627.7	3388.5	3131.5	2913.1	2730.7	2654.1	2662.6
32.5°	2626.7	2911.2	3632.4	3830.0	3615.4	3274.2	2977.4	2748.6	2588.0	2507.6	2518.0
35°	2698.6	3083.2	3905.6	3913.1	3533.2	3105.9	2774.2	2552.0	2412.2	2347.9	2362.1
37.5°	2792.1	3301.6	4146.6	3933.9	3389.5	2859.2	2521.8	2319.5	2204.2	2174.9	2195.7
40°	2908.4	3564.4	4330.9	3900.8	3176.8	2559.6	2245.8	2084.2	2019.0	2025.6	2048.3
42.5°	3059.6	3858.3	4460.4	3815.8	2881.0	2250.5	2003.8	1932.0	1963.2	1989.6	2014.2
45°	3256.2	4163.6	4540.7	3671.2	2546.4	1988.7	1861.1	1878.1	1901.7	1904.6	1923.5
47.5°	3507.6	4472.7	4593.7	3452.8	2205.2	1804.4	1770.4	1774.1	1769.4	1749.6	1764.7
50°	3821.5	4773.3	4640.9	3163.6	1915.0	1689.1	1643.7	1630.5	1565.3	1501.0	1509.5
52.5°	4178.7	5049.3	4660.8	2804.4	1689.1	1592.7	1518.9	1435.8	1313.8	1294.0	1300.6
55°	4575.7	5304.5	4609.7	2363.0	1499.1	1468.8	1357.3	1257.1	1243.9	1226.9	1229.7
57.5°	5050.2	5579.5	4505.8	1870.6	1304.4	1324.2	1215.5	1226.9	1203.2	1176.8	1172.1
60°	5569.1	5864.0	4323.4	1421.6	1103.1	1143.7	1178.7	1177.7	1171.1	1149.4	1141.8
62.5°	6036.1	6051.2	3964.2	1088.9	926.3	1003.8	1099.3	1098.3	1092.7	1080.4	1075.6
65°	6313.9	6022.8	3364.9	857.3	780.7	888.5	991.5	999.1	1000.0	999.1	999.1
67.5°	6264.8	5691.1	2542.6	682.4	660.7	771.3	884.7	895.1	902.7	904.6	906.4
70°	5709.0	4962.3	1657.9	544.4	553.9	668.3	783.6	794.0	800.6	808.1	811.9
72.5°	4450.0	3648.5	949.0	440.5	460.3	579.4	683.4	695.7	699.4	713.6	719.3
75°	2711.8	2145.6	512.3	346.9	378.1	495.3	584.1	598.3	604.9	621.9	623.8
77.5°	1289.3	929.1	292.1	270.3	304.4	404.5	493.4	509.5	491.5	501.0	493.4
80°	435.7	345.0	184.3	206.1	232.5	315.7	395.1	411.2	373.4	371.5	367.7
82.5°	152.2	139.9	117.2	137.1	150.3	225.9	298.7	319.5	277.9	276.9	263.7
85°	59.5	56.7	65.2	74.7	89.8	138.9	196.6	207.0	171.1	138.0	136.1
87.5°	12.3	13.2	16.1	17.0	27.4	48.2	70.9	87.0	69.0	58.6	53.9
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)