

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: P949512

Luminaire Tested: **GALN-SB4B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20892 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 147
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



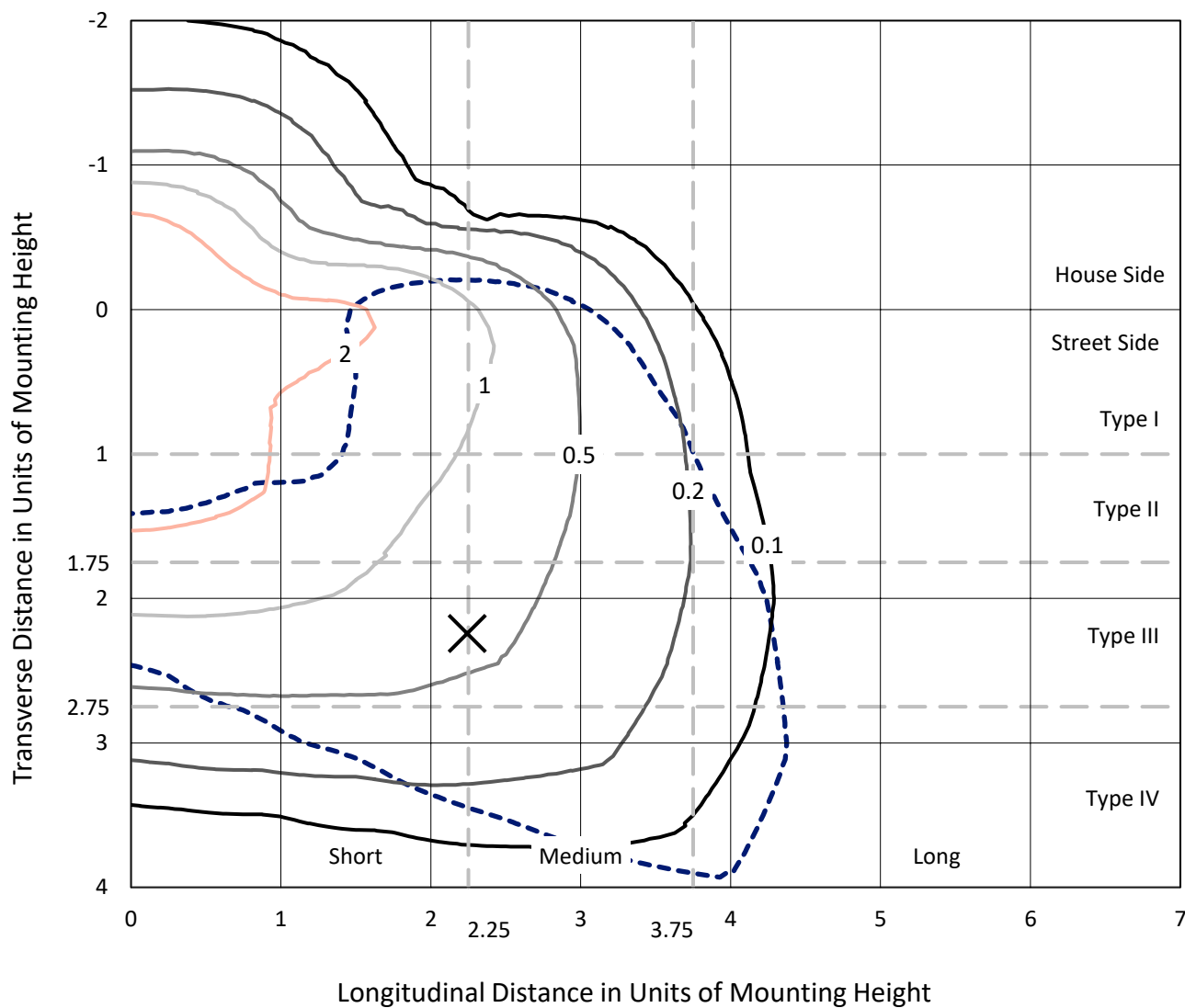
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

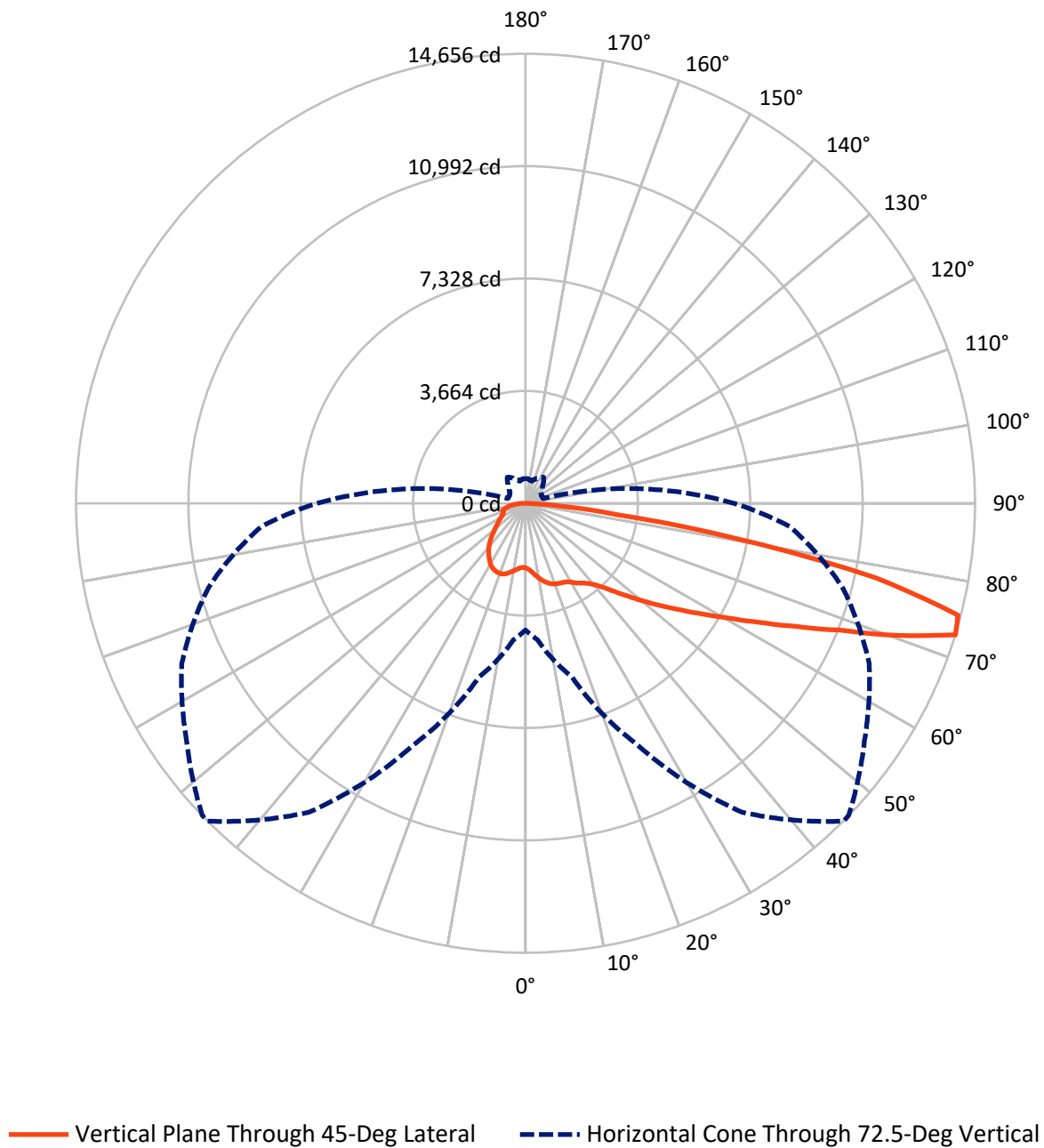


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4723.0	0.0	4723.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16169.0	0.0	16169.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	20892.0	0.0	20892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	1.0
10°-20°	715.2	3.4
20°-30°	1244.2	6.0
30°-40°	1783.6	8.5
40°-50°	2511.4	12.0
50°-60°	3846.6	18.4
60°-70°	5572.4	26.7
70°-80°	4449.9	21.3
80°-90°	554.2	2.7
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°	20892.0	100.0
0°-180°	20892.0	100.0

Coefficient of Utilization



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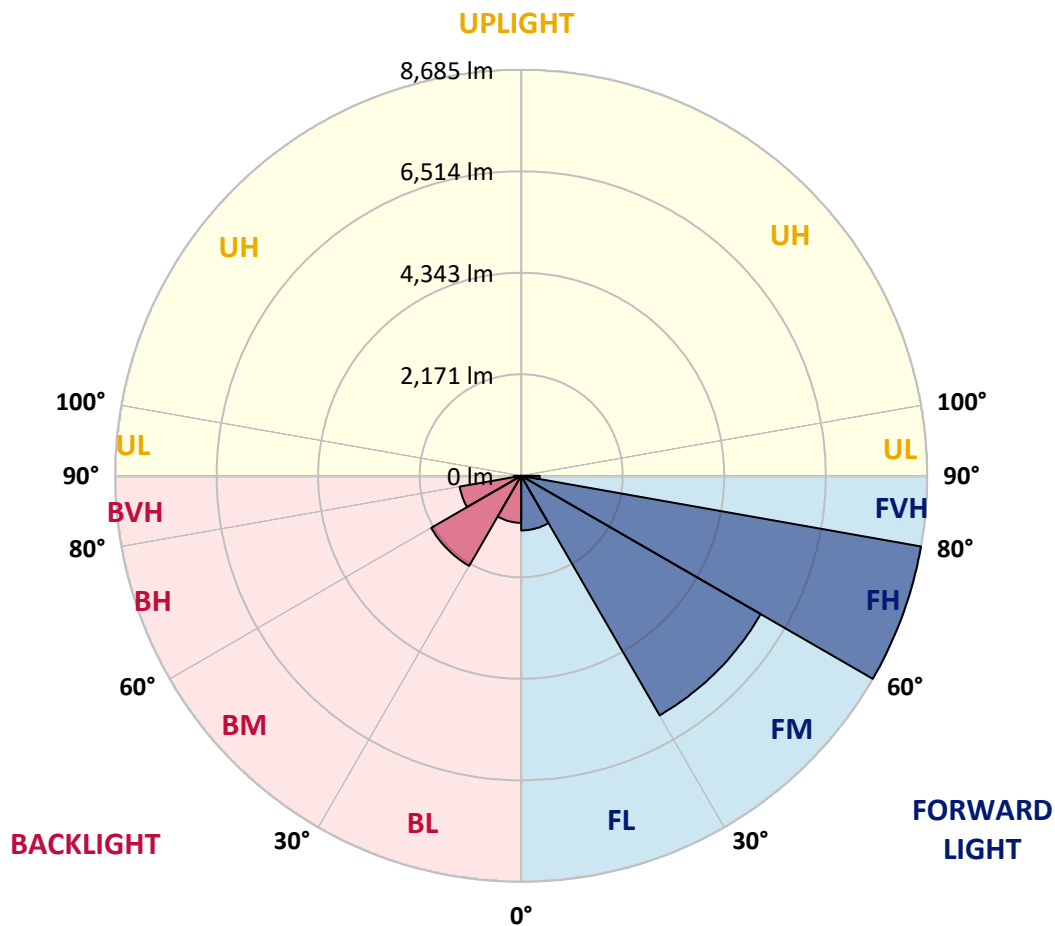
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1168.3	5.6			
FM	(30°-60°)	5917.7	28.3			
FH	(60°-80°)	8685.4	41.6			G4/12000
FVH	(80°-90°)	397.6	1.9			G3/500
BL	(0°-30°)	1005.6	4.8	B3/2500		
BM	(30°-60°)	2223.8	10.6	B2/2500		
BH	(60°-80°)	1336.9	6.4	B3/2500		G3/2500
BVH	(80°-90°)	156.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6
2.5°	2190.1	2204.4	2191.2	2179.1	2173.6	2159.3	2158.2	2149.4	2143.9	2128.5	2124.1
5°	2343.1	2361.8	2339.8	2315.6	2293.6	2258.4	2254.0	2228.7	2200.0	2167.0	2148.3
7.5°	2515.9	2532.4	2507.1	2470.8	2432.3	2373.9	2372.8	2326.6	2281.5	2225.4	2193.4
10°	2666.7	2688.7	2654.6	2605.1	2556.6	2490.6	2482.9	2430.1	2372.8	2300.2	2251.8
12.5°	2799.9	2815.3	2782.2	2721.7	2665.6	2599.6	2589.6	2531.3	2467.5	2384.9	2323.3
15°	2905.5	2925.3	2881.3	2816.4	2756.9	2692.0	2683.2	2630.4	2566.5	2479.6	2400.3
17.5°	2974.8	2991.4	2946.2	2873.6	2816.4	2762.4	2755.8	2711.8	2655.7	2567.6	2482.9
20°	3001.3	3018.9	2971.5	2897.8	2845.0	2803.2	2799.9	2767.9	2729.4	2649.1	2563.2
22.5°	3027.7	3044.2	2982.6	2905.5	2859.3	2832.9	2831.8	2810.9	2795.5	2729.4	2645.8
25°	3134.4	3138.8	3056.3	2945.1	2879.1	2856.0	2854.9	2853.8	2860.4	2808.7	2734.9
27.5°	3226.9	3225.8	3155.3	3050.8	2948.4	2900.0	2898.9	2909.9	2930.8	2887.9	2827.4
30°	3362.2	3350.1	3266.5	3157.5	3064.0	2989.2	2982.6	2972.6	2989.2	2955.0	2919.8
32.5°	3649.5	3611.0	3475.6	3281.9	3159.7	3102.5	3093.7	3032.1	3038.7	3017.8	3000.2
35°	4061.1	4010.5	3830.0	3517.4	3278.6	3197.2	3192.8	3114.6	3101.4	3082.7	3089.3
37.5°	4550.9	4488.1	4277.9	3858.6	3483.3	3307.2	3300.6	3230.2	3176.3	3156.4	3193.9
40°	5042.8	4963.6	4789.7	4274.6	3784.9	3491.0	3470.1	3363.3	3301.7	3268.7	3347.9
42.5°	5520.5	5454.4	5305.9	4741.3	4156.9	3759.6	3713.3	3530.6	3484.4	3453.6	3596.7
45°	5943.1	5883.7	5774.7	5239.8	4592.7	4124.9	4079.8	3781.6	3767.3	3767.3	3974.2
47.5°	6286.5	6273.3	6157.7	5748.3	5106.7	4541.0	4462.8	4130.4	4169.0	4228.4	4510.1
50°	6667.3	6630.9	6507.7	6249.1	5710.9	5017.5	4953.7	4558.6	4702.7	4865.6	5284.9
52.5°	7017.2	7037.1	6899.5	6770.7	6393.2	5549.1	5436.8	5063.7	5375.2	5644.8	6192.9
55°	7377.1	7378.2	7339.7	7322.1	7108.6	6136.8	6013.5	5671.2	6166.5	6501.1	7251.7
57.5°	7715.0	7717.2	7774.4	7929.6	7938.4	6814.7	6675.0	6417.4	7045.9	7387.0	8343.4
60°	8016.6	8032.0	8188.3	8551.4	8668.1	7591.7	7459.7	7299.0	7954.9	8298.3	9491.3
62.5°	8117.8	8174.0	8521.7	9037.9	9389.0	8544.8	8415.0	8319.2	8910.2	9229.4	10451.0
65°	7946.1	8074.9	8747.3	9439.6	10130.8	9677.3	9548.6	9444.0	9903.0	10203.4	11239.0
67.5°	7524.6	7690.8	8734.1	9861.1	11031.0	11039.8	10919.9	10674.5	10967.2	11082.8	11495.5
70°	6414.1	6662.9	7964.8	10018.5	12064.5	12903.1	12787.6	12155.8	12029.3	11470.2	10773.5
72.5°	4132.6	4467.2	5865.0	8723.1	12294.5	14656.3	14649.7	13493.0	12364.9	10717.4	8640.6
75°	1507.8	1712.5	2725.0	5475.3	10320.1	14567.2	14610.1	13264.1	11287.5	8278.5	5382.9
77.5°	549.2	600.9	889.3	2104.3	6347.0	11688.1	11777.2	10604.0	8034.2	4154.7	2132.9
80°	288.3	317.0	455.6	816.6	2719.5	6941.3	7081.1	6301.9	3776.1	1251.4	639.4
82.5°	159.6	172.8	255.3	443.5	1224.9	2968.2	3051.9	2489.5	1328.4	530.5	264.1
85°	85.8	91.3	120.0	242.1	598.7	1029.0	1052.1	744.0	529.4	311.5	127.7
87.5°	25.3	30.8	39.6	77.0	234.4	231.1	236.6	147.5	209.1	157.4	41.8
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°	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6	2107.6
2.5°	2117.5	2114.2	2102.1	2096.6	2090.0	2088.9	2094.4	2095.5	2096.6	2097.7	2102.1
5°	2137.3	2126.3	2115.3	2108.7	2110.9	2112.0	2123.0	2130.7	2136.2	2140.6	2142.8
7.5°	2175.8	2167.0	2148.3	2147.2	2150.5	2160.4	2174.7	2192.3	2202.2	2209.9	2212.2
10°	2233.1	2216.6	2194.5	2197.8	2204.4	2218.8	2248.5	2262.8	2279.3	2293.6	2290.3
12.5°	2291.4	2277.1	2251.8	2254.0	2265.0	2290.3	2318.9	2336.5	2347.5	2358.5	2362.9
15°	2367.3	2342.0	2314.5	2314.5	2334.3	2361.8	2375.0	2389.3	2395.9	2408.1	2412.5
17.5°	2445.5	2412.5	2376.1	2373.9	2398.1	2411.4	2419.1	2421.3	2423.5	2436.7	2441.1
20°	2523.6	2487.3	2435.6	2431.2	2436.7	2434.5	2433.4	2431.2	2434.5	2451.0	2457.6
22.5°	2600.7	2558.8	2487.3	2467.5	2452.1	2431.2	2430.1	2429.0	2431.2	2447.7	2458.7
25°	2690.9	2640.3	2544.5	2485.1	2433.4	2404.8	2408.1	2409.2	2411.4	2424.6	2442.2
27.5°	2788.9	2732.7	2597.4	2479.6	2386.0	2366.2	2360.7	2364.0	2371.7	2392.6	2413.6
30°	2886.8	2820.8	2645.8	2457.6	2326.6	2299.1	2281.5	2289.2	2313.4	2334.3	2357.4
32.5°	2975.9	2909.9	2684.3	2409.2	2250.7	2207.7	2184.6	2194.5	2218.8	2226.5	2254.0
35°	3080.5	3005.7	2700.8	2332.1	2168.1	2102.1	2071.3	2057.0	2069.1	2061.4	2085.6
37.5°	3197.2	3119.0	2698.6	2230.9	2071.3	1995.3	1952.4	1898.5	1873.2	1846.8	1863.3
40°	3370.0	3257.7	2672.2	2108.7	1951.3	1882.0	1804.9	1713.6	1656.4	1604.6	1607.9
42.5°	3605.5	3450.3	2623.8	1974.4	1815.9	1751.0	1646.5	1539.7	1449.5	1363.6	1355.9
45°	3956.6	3702.3	2563.2	1831.4	1669.6	1605.7	1492.4	1372.4	1270.1	1160.0	1146.8
47.5°	4462.8	4041.3	2506.0	1668.5	1515.5	1457.2	1354.8	1243.6	1122.6	1015.8	1003.7
50°	5158.4	4527.8	2453.2	1510.0	1363.6	1319.6	1238.1	1124.8	1002.6	916.8	911.3
52.5°	6043.2	5189.2	2431.2	1357.0	1221.6	1205.1	1140.2	1034.5	919.0	846.3	840.8
55°	7059.1	5980.5	2431.2	1210.6	1097.3	1102.8	1057.7	959.7	859.5	794.6	788.0
57.5°	8095.8	6781.7	2387.1	1075.3	991.6	1014.7	986.1	900.3	810.0	742.9	731.9
60°	9051.1	7453.1	2208.8	952.0	898.1	934.4	915.7	841.9	731.9	675.8	666.9
62.5°	9785.2	7831.7	1865.5	854.0	821.0	862.8	852.9	764.9	717.6	694.5	686.8
65°	10152.8	7770.0	1426.3	767.1	756.1	821.0	800.1	796.8	759.4	733.0	724.2
67.5°	9927.2	7239.6	1034.5	703.3	718.7	782.5	862.8	876.1	806.7	755.0	746.2
70°	8937.7	6279.9	770.4	642.7	671.3	783.6	983.9	916.8	791.3	730.8	720.9
72.5°	6799.3	4682.9	597.6	578.9	609.7	789.1	1037.8	898.1	747.3	807.8	801.2
75°	3888.3	2570.9	479.8	500.8	532.7	737.4	1010.3	849.6	713.2	741.8	741.8
77.5°	1482.5	988.3	396.2	423.7	428.1	643.8	966.3	846.3	679.1	662.5	604.2
80°	514.0	386.3	328.0	336.8	331.3	572.3	926.7	736.3	555.8	497.5	481.0
82.5°	210.2	192.6	259.7	248.7	235.5	444.6	748.4	602.0	454.5	401.7	397.3
85°	91.3	122.2	171.7	150.8	136.5	308.2	599.8	509.6	384.1	331.3	330.2
87.5°	18.7	46.2	72.6	68.2	70.4	205.8	425.9	362.1	271.8	203.6	159.6
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)