

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: P941449

Luminaire Tested: **GALN-SB5A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941449
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20773 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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



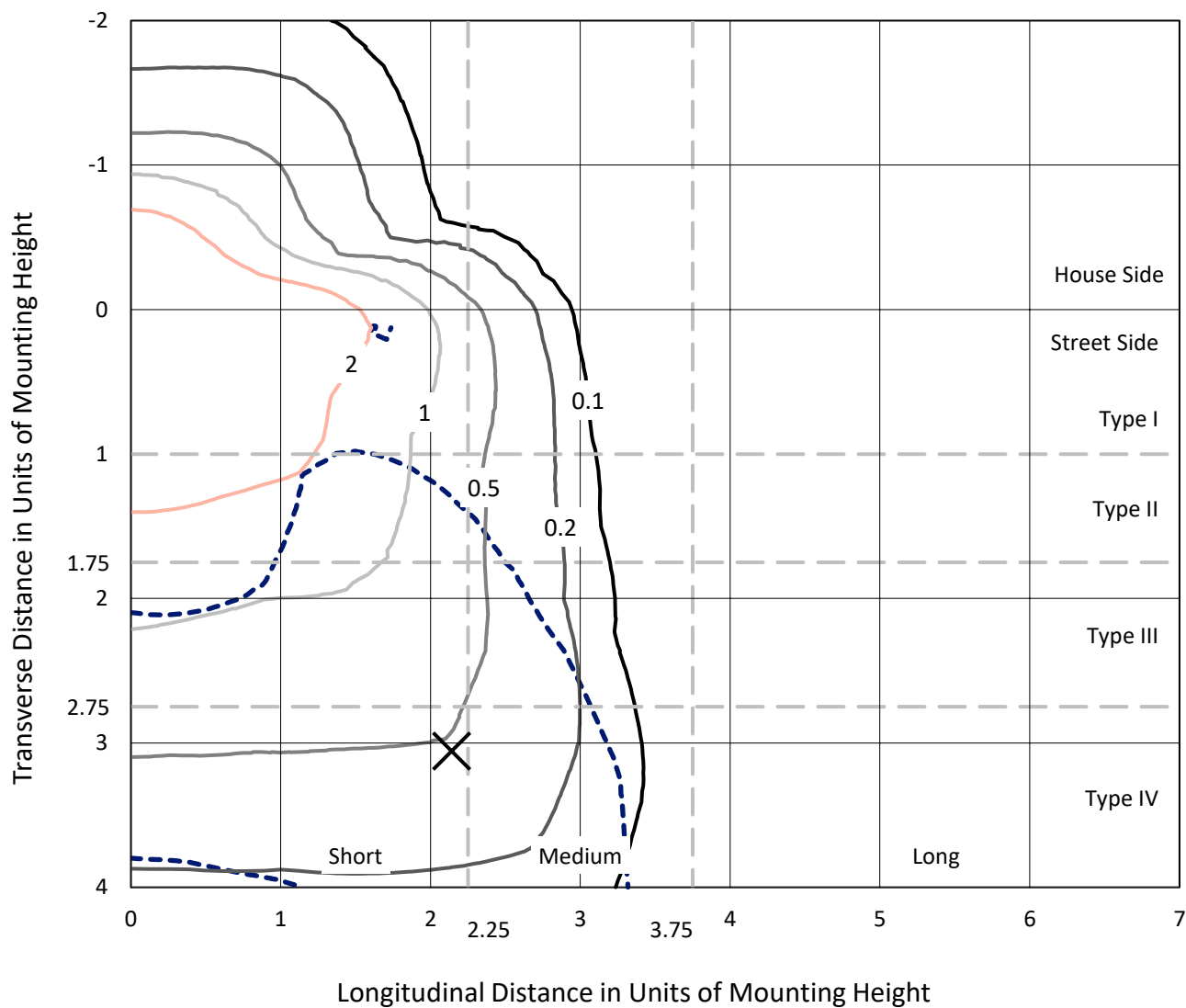
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

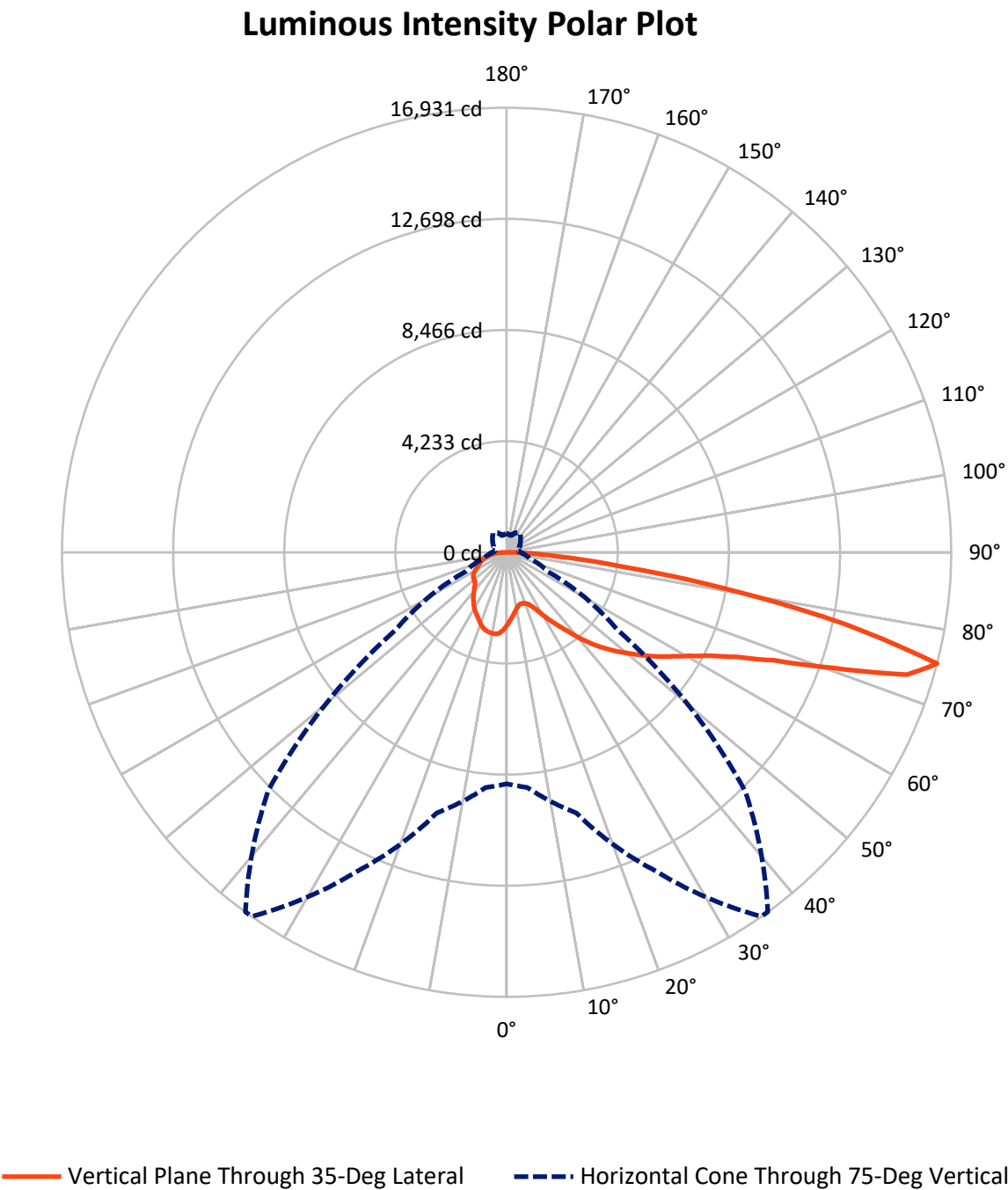
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4943.4	0.0	4943.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15829.5	0.0	15829.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	20773.0	0.0	20773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.1	1.3
10°-20°	756.0	3.6
20°-30°	1269.5	6.1
30°-40°	1972.9	9.5
40°-50°	2928.4	14.1
50°-60°	4042.8	19.5
60°-70°	4904.8	23.6
70°-80°	4053.5	19.5
80°-90°	583.0	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°	20773.0	100.0
0°-180°	20773.0	100.0

Coefficient of Utilization



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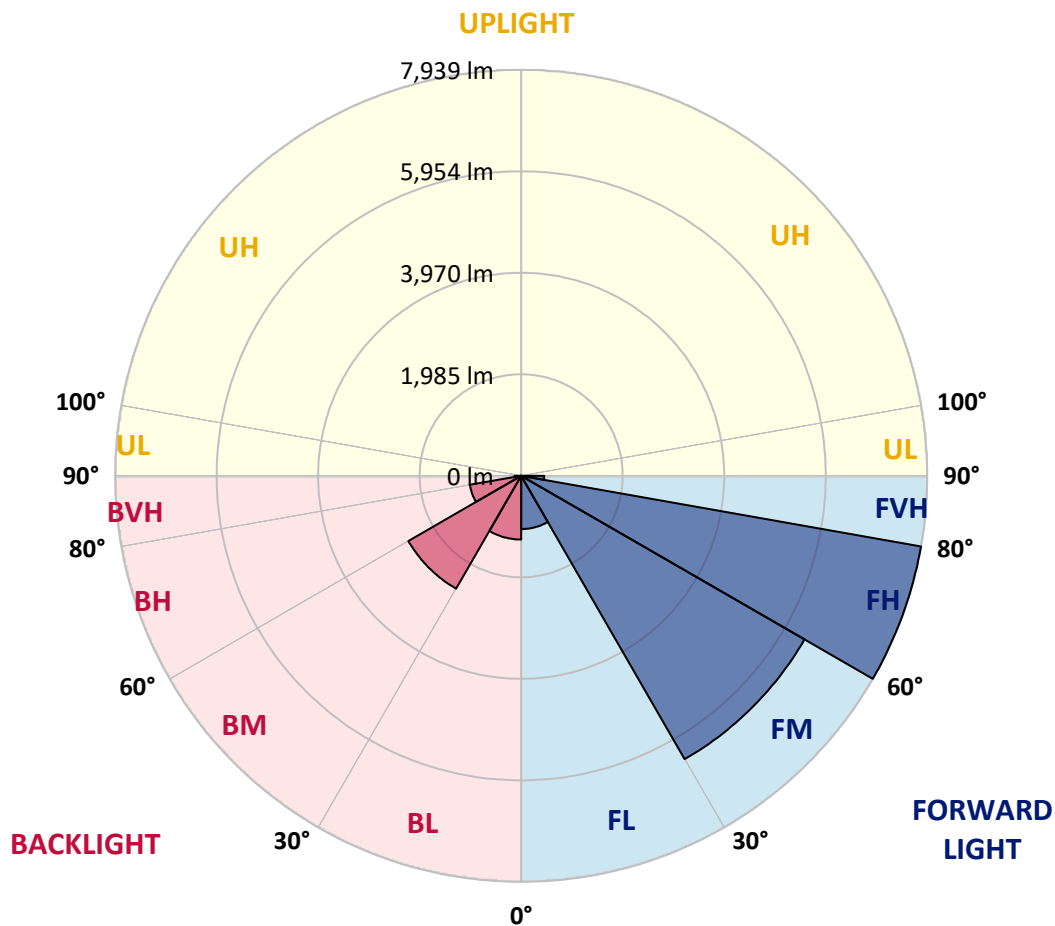
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.7	5.0			
FM	(30°-60°)	6397.0	30.8			
FH	(60°-80°)	7939.1	38.2			G4/12000
FVH	(80°-90°)	451.7	2.2			G3/500
BL	(0°-30°)	1245.8	6.0	B3/2500		
BM	(30°-60°)	2547.2	12.3	B3/5000		
BH	(60°-80°)	1019.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	131.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1
2.5°	2552.5	2568.3	2575.0	2571.6	2588.5	2586.2	2609.8	2639.0	2679.4	2718.7	2776.0
5°	2356.0	2372.9	2387.5	2400.9	2433.5	2443.6	2480.7	2536.8	2610.9	2686.2	2780.5
7.5°	2173.0	2187.6	2210.0	2234.7	2289.8	2299.9	2361.6	2449.2	2552.5	2662.6	2792.8
10°	2023.6	2038.2	2061.8	2089.9	2158.4	2170.7	2249.3	2366.1	2500.9	2640.1	2806.3
12.5°	1959.6	1964.1	1977.6	2005.6	2065.2	2073.0	2159.5	2293.1	2450.3	2623.3	2826.5
15°	1956.2	1965.2	1966.3	1980.9	2030.3	2033.7	2113.4	2246.0	2418.9	2619.9	2856.9
17.5°	1989.9	1996.7	1986.5	1995.5	2037.1	2042.7	2105.6	2223.5	2408.8	2634.5	2908.5
20°	2079.8	2085.4	2055.1	2042.7	2073.0	2077.5	2139.3	2238.1	2418.9	2664.8	2979.3
22.5°	2270.7	2274.0	2199.9	2149.4	2151.6	2153.9	2207.8	2297.6	2458.2	2719.9	3069.1
25°	2568.3	2566.0	2448.1	2350.4	2294.2	2281.9	2317.8	2394.2	2524.5	2792.8	3184.8
27.5°	2916.4	2899.5	2781.6	2635.6	2513.2	2495.3	2487.4	2520.0	2618.8	2889.4	3326.3
30°	3309.4	3293.7	3166.8	2975.9	2806.3	2777.1	2703.0	2686.2	2759.2	3020.8	3522.8
32.5°	3740.6	3730.5	3578.9	3347.6	3120.8	3087.1	2962.4	2917.5	2974.8	3219.6	3796.8
35°	4102.2	4093.3	3967.5	3729.4	3452.0	3410.5	3283.6	3233.1	3262.3	3474.5	4155.0
37.5°	4429.0	4424.5	4316.7	4129.2	3842.8	3792.3	3649.7	3632.8	3627.2	3810.3	4589.6
40°	4732.2	4721.0	4608.7	4509.9	4297.6	4251.6	4125.8	4111.2	4068.6	4223.5	5081.5
42.5°	5068.0	5038.8	4876.0	4829.9	4772.7	4734.5	4659.2	4661.5	4567.2	4689.6	5602.5
45°	5342.0	5325.2	5157.8	5130.9	5192.7	5176.9	5242.1	5258.9	5075.9	5178.1	6143.8
47.5°	5636.2	5620.5	5479.0	5459.9	5627.2	5631.7	5861.9	5867.6	5572.2	5685.6	6686.2
50°	5999.0	5976.5	5836.1	5859.7	6047.2	6064.1	6485.2	6447.0	6029.3	6201.1	7224.1
52.5°	6238.1	6251.6	6221.3	6259.5	6515.5	6531.2	7098.3	7000.6	6481.8	6709.8	7751.9
55°	6414.5	6441.4	6535.7	6623.3	7009.6	7025.4	7676.7	7527.3	6856.9	7181.4	8248.3
57.5°	6641.3	6603.1	6779.4	6950.1	7479.0	7520.6	8239.3	8034.9	7189.3	7588.0	8588.5
60°	6967.0	6940.0	7077.0	7329.7	8004.6	8070.8	8834.5	8492.0	7433.0	7910.3	8654.8
62.5°	7627.3	7559.9	7581.2	7804.7	8667.2	8754.7	9506.0	8890.6	7554.3	8036.0	8299.9
65°	8614.4	8498.7	8390.9	8545.9	9600.3	9686.8	10264.0	9203.9	7509.4	7792.3	7357.8
67.5°	9857.5	9743.0	9610.5	9756.4	10974.9	11043.4	11199.5	9380.2	7155.6	6853.5	5692.4
70°	10882.8	10840.1	10998.5	11599.2	13170.3	13172.5	12398.8	9234.3	6186.5	4859.1	3293.7
72.5°	10746.9	10721.1	11555.5	13412.9	15937.3	15877.8	13534.1	8129.2	4167.4	2192.1	1234.2
75°	8816.5	8983.8	10276.4	13380.3	16931.2	16923.3	12839.0	5167.9	1723.8	908.5	637.9
77.5°	4727.7	4992.8	6671.6	9878.8	13217.5	13416.2	9026.5	1808.0	740.0	581.7	441.3
80°	1541.8	1773.2	2659.2	5029.8	8588.5	8551.5	3868.7	709.7	506.5	412.1	305.5
82.5°	654.7	681.6	1188.1	2375.1	4407.7	4339.2	1231.9	407.6	356.0	281.9	188.7
85°	256.0	286.4	524.4	1098.3	1909.1	1867.5	444.7	202.1	228.0	184.2	112.3
87.5°	84.2	102.2	187.5	376.2	594.1	572.7	108.9	69.6	98.8	84.2	40.4
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°	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1	2768.1
2.5°	2791.7	2809.7	2831.0	2862.5	2889.4	2911.9	2935.5	2950.1	2955.7	2972.5	2971.4
5°	2811.9	2851.2	2904.0	2955.7	3006.2	3036.5	3063.5	3077.0	3089.3	3098.3	3100.5
7.5°	2845.6	2896.2	2979.3	3046.6	3089.3	3114.0	3132.0	3127.5	3132.0	3134.2	3137.6
10°	2874.8	2945.6	3044.4	3108.4	3141.0	3142.1	3137.6	3121.9	3114.0	3115.1	3117.4
12.5°	2909.6	2988.2	3094.9	3148.8	3157.8	3133.1	3114.0	3087.1	3077.0	3072.5	3070.2
15°	2956.8	3046.6	3150.0	3170.2	3147.7	3116.3	3083.7	3039.9	3017.4	2999.5	3005.1
17.5°	3014.1	3112.9	3192.6	3178.0	3129.7	3078.1	3025.3	2959.0	2913.0	2893.9	2895.0
20°	3093.8	3182.5	3225.2	3161.2	3088.2	3009.6	2919.7	2838.9	2796.2	2777.1	2774.9
22.5°	3190.4	3275.7	3256.6	3132.0	3028.7	2902.9	2790.6	2731.1	2709.7	2696.3	2698.5
25°	3306.0	3379.0	3279.1	3089.3	2931.0	2761.4	2674.9	2655.8	2645.7	2635.6	2635.6
27.5°	3456.5	3495.8	3295.9	3026.4	2778.2	2610.9	2579.5	2582.9	2579.5	2562.6	2566.0
30°	3655.3	3647.4	3311.7	2924.2	2603.1	2475.0	2477.3	2491.9	2494.1	2482.9	2488.5
32.5°	3917.0	3837.2	3319.5	2791.7	2435.7	2356.0	2358.3	2374.0	2385.2	2366.1	2375.1
35°	4233.6	4058.4	3307.2	2625.5	2306.6	2242.6	2225.7	2230.2	2233.6	2215.6	2228.0
37.5°	4603.1	4306.6	3252.1	2441.4	2199.9	2131.4	2095.5	2065.2	2047.2	2030.3	2041.6
40°	5008.5	4577.3	3151.1	2261.7	2080.9	2013.5	1959.6	1902.3	1841.7	1819.2	1829.3
42.5°	5433.0	4855.8	3028.7	2089.9	1943.9	1888.9	1831.6	1748.5	1657.5	1611.5	1617.1
45°	5873.2	5141.0	2908.5	1920.3	1803.5	1779.9	1713.7	1613.7	1514.9	1456.5	1452.0
47.5°	6304.4	5410.5	2732.2	1749.6	1672.1	1697.9	1646.3	1554.2	1444.2	1352.1	1342.0
50°	6716.5	5663.2	2443.6	1576.7	1565.4	1673.2	1623.8	1491.3	1365.5	1247.6	1237.5
52.5°	7125.3	5867.6	2074.1	1419.4	1508.2	1666.5	1594.6	1448.6	1294.8	1171.3	1157.8
55°	7472.3	5973.1	1718.2	1284.7	1425.1	1609.2	1559.8	1398.1	1194.8	1063.5	1052.2
57.5°	7669.9	5887.8	1421.7	1152.2	1310.5	1514.9	1500.3	1290.3	1075.8	974.7	961.3
60°	7584.6	5541.9	1179.1	1036.5	1201.6	1412.7	1397.0	1183.6	984.9	889.4	875.9
62.5°	7114.1	4882.7	987.1	935.4	1102.8	1308.3	1293.7	1101.6	915.2	823.1	808.5
65°	6166.3	3972.0	837.7	851.2	1002.8	1182.5	1203.8	1033.1	860.2	770.4	755.8
67.5°	4703.0	2877.1	721.0	778.2	905.1	1059.0	1120.7	983.7	814.2	728.8	715.3
70°	2680.6	1633.9	622.1	707.5	818.7	944.4	1056.7	944.4	764.7	694.0	685.0
72.5°	1016.3	750.1	537.9	636.7	735.6	847.8	986.0	882.7	707.5	654.7	645.7
75°	542.4	457.1	452.6	553.6	640.1	753.5	897.3	822.0	664.8	691.8	714.2
77.5°	369.5	323.4	378.4	473.9	535.7	649.1	802.9	729.9	576.1	573.8	528.9
80°	256.0	229.1	307.7	381.8	414.4	545.8	700.7	626.6	469.4	438.0	418.9
82.5°	153.8	149.4	230.2	285.2	293.1	421.1	580.6	525.6	384.1	334.6	336.9
85°	84.2	88.7	147.1	167.3	170.7	294.2	454.8	406.5	295.3	248.2	250.4
87.5°	23.6	30.3	53.9	66.3	82.0	152.7	270.6	241.4	148.2	103.3	103.3
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)