

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: P941457

Luminaire Tested: **GALN-SB5A-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22675 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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

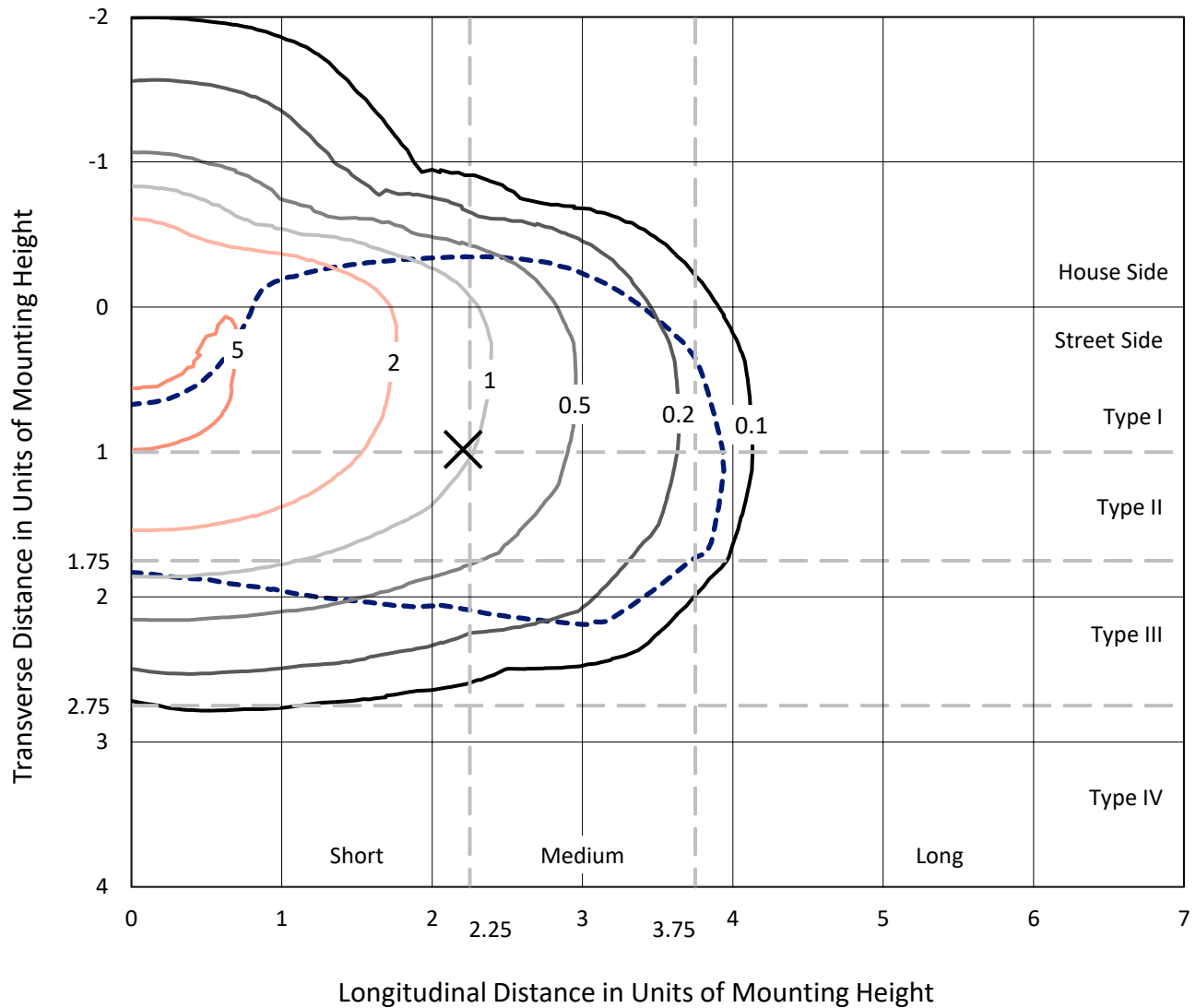


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

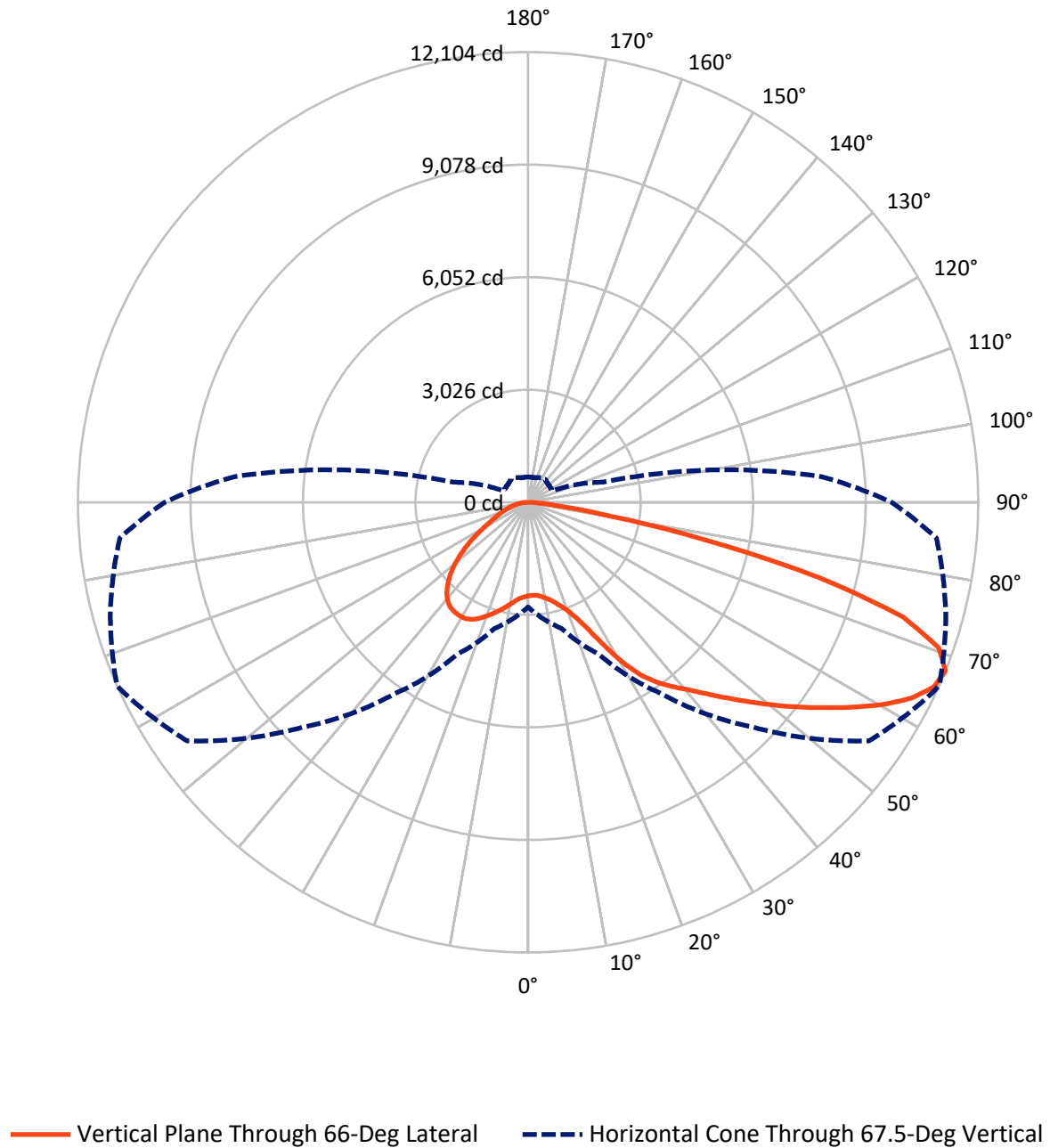


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5638.1	0.0	5638.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17036.9	0.0	17036.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	22675.0	0.0	22675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	1.1
10°-20°	823.8	3.6
20°-30°	1587.9	7.0
30°-40°	2784.1	12.3
40°-50°	4139.0	18.3
50°-60°	5246.6	23.1
60°-70°	5133.7	22.6
70°-80°	2448.8	10.8
80°-90°	261.7	1.2
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°	22675.0	100.0
0°-180°	22675.0	100.0

Coefficient of Utilization



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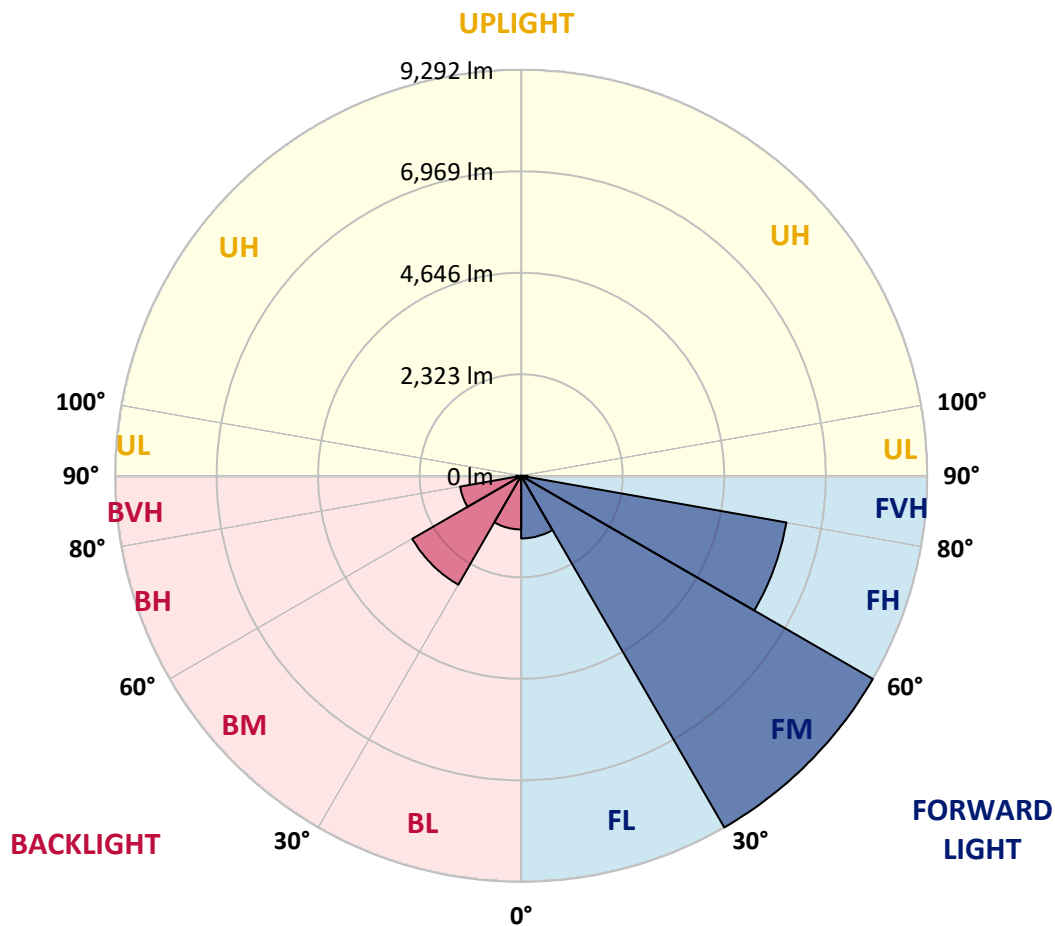
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1432.8	6.3			
FM	(30°-60°)	9292.0	41.0			
FH	(60°-80°)	6163.7	27.2			G3/7500
FVH	(80°-90°)	148.4	0.7			G2/225
BL	(0°-30°)	1228.2	5.4	B3/2500		
BM	(30°-60°)	2877.7	12.7	B3/5000		
BH	(60°-80°)	1418.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	113.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0
2.5°	2488.7	2503.0	2499.5	2493.5	2492.3	2494.7	2498.3	2501.9	2500.7	2506.6	2516.1
5°	2481.6	2495.9	2494.7	2494.7	2499.5	2509.0	2515.0	2520.9	2515.0	2522.1	2535.2
7.5°	2486.4	2497.1	2501.9	2506.6	2518.5	2536.4	2550.7	2563.8	2556.7	2565.0	2581.7
10°	2547.1	2555.5	2560.2	2560.2	2568.6	2588.8	2603.1	2626.9	2621.0	2634.1	2655.5
12.5°	2657.9	2666.3	2666.3	2661.5	2667.5	2680.6	2685.3	2711.5	2700.8	2722.3	2743.7
15°	2793.7	2810.4	2797.3	2789.0	2791.4	2804.5	2803.3	2823.5	2812.8	2830.7	2849.7
17.5°	2943.8	2965.3	2943.8	2942.7	2937.9	2952.2	2953.4	2971.2	2952.2	2965.3	2978.4
20°	3121.4	3151.1	3133.3	3139.2	3128.5	3134.5	3140.4	3166.6	3136.8	3146.4	3142.8
22.5°	3371.5	3407.3	3388.2	3410.9	3403.7	3398.9	3397.8	3444.2	3397.8	3401.3	3366.8
25°	3736.1	3779.0	3745.6	3776.6	3776.6	3792.1	3810.0	3869.5	3792.1	3769.5	3680.1
27.5°	4274.6	4317.5	4252.0	4271.0	4265.1	4303.2	4284.1	4431.9	4348.5	4311.5	4131.6
30°	4922.7	4998.9	4875.0	4870.3	4864.3	4925.1	4952.5	5050.2	4965.6	4928.6	4711.8
32.5°	5623.2	5703.0	5555.3	5512.4	5489.8	5526.7	5504.1	5582.7	5524.3	5467.1	5199.1
35°	6364.2	6442.9	6302.3	6218.9	6128.3	6050.9	5969.9	5990.1	5935.3	5848.4	5570.8
37.5°	7064.8	7208.9	7060.0	6970.6	6803.8	6652.5	6426.2	6332.1	6280.8	6201.0	5921.1
40°	7778.4	7860.6	7747.4	7671.2	7490.1	7253.0	6890.8	6691.9	6622.8	6545.3	6308.2
42.5°	8303.8	8382.4	8321.6	8269.2	8127.4	7852.2	7384.0	7135.0	7035.0	6948.0	6746.7
45°	8720.7	8779.1	8741.0	8760.1	8699.3	8432.4	7895.1	7610.4	7506.7	7400.7	7242.3
47.5°	8888.7	8950.7	9011.4	9124.6	9228.3	9031.7	8444.3	8125.1	8015.5	7907.0	7751.0
50°	8869.7	8932.8	9109.1	9349.8	9671.4	9605.9	9023.3	8673.1	8571.8	8447.9	8303.8
52.5°	8717.2	8788.6	9015.0	9415.3	9927.6	10036.0	9613.1	9239.0	9143.7	8995.9	8851.8
55°	8316.9	8359.8	8699.3	9266.4	9988.3	10336.2	10190.9	9841.8	9746.5	9540.4	9383.1
57.5°	7574.7	7636.6	8131.0	8864.9	9835.9	10539.9	10698.4	10475.6	10383.9	10087.2	9922.8
60°	6606.1	6705.0	7270.9	8190.6	9447.5	10538.8	11159.5	11098.7	11022.4	10625.7	10454.2
62.5°	5510.0	5624.4	6168.9	7237.5	8768.4	10239.7	11447.8	11620.5	11581.2	11122.5	10903.3
65°	4231.7	4310.3	4852.4	6004.4	7711.7	9597.6	11481.1	11976.7	11983.9	11500.2	11138.0
67.5°	2817.6	3043.9	3514.5	4505.7	6296.3	8548.0	11188.0	12035.1	12104.2	11630.0	11020.1
70°	1374.8	1672.7	2133.7	2928.4	4505.7	6938.5	10422.0	11556.2	11709.9	11251.2	10317.2
72.5°	570.7	667.2	918.5	1445.1	2586.4	4682.0	8882.8	10257.6	10542.3	9969.3	8674.3
75°	384.8	417.0	525.4	741.0	1178.3	2308.9	6405.9	7648.5	8107.2	7529.4	6154.6
77.5°	296.6	316.9	382.4	518.2	700.5	873.3	3428.7	4609.4	4846.4	4486.7	3202.4
80°	233.5	249.0	285.9	377.7	496.8	467.0	1168.7	2088.5	2225.5	1866.9	1029.3
82.5°	202.5	208.5	204.9	256.1	330.0	272.8	383.6	770.8	850.6	617.1	336.0
85°	146.5	163.2	170.4	158.5	175.1	138.2	157.3	272.8	300.2	268.1	189.4
87.5°	59.6	88.2	108.4	102.5	64.3	39.3	48.8	79.8	91.7	100.1	62.0
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°	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0	2515.0
2.5°	2517.3	2525.7	2531.6	2538.8	2543.5	2550.7	2565.0	2573.3	2574.5	2580.5	2579.3
5°	2540.0	2551.9	2565.0	2584.1	2605.5	2623.4	2650.8	2669.8	2677.0	2682.9	2681.7
7.5°	2588.8	2605.5	2629.3	2662.7	2693.7	2717.5	2750.8	2773.5	2796.1	2804.5	2805.6
10°	2661.5	2685.3	2719.9	2765.1	2798.5	2829.5	2864.0	2883.1	2905.7	2915.3	2920.0
12.5°	2752.0	2777.1	2822.3	2885.5	2916.4	2937.9	2949.8	2945.0	2949.8	2958.1	2960.5
15°	2855.7	2883.1	2934.3	3002.2	3023.7	3004.6	2978.4	2954.6	2951.0	2953.4	2961.7
17.5°	2978.4	2998.6	3058.2	3115.4	3099.9	3021.3	2964.1	2926.0	2906.9	2901.0	2909.3
20°	3150.0	3150.0	3198.8	3234.5	3130.9	2997.5	2908.1	2846.2	2806.8	2790.2	2786.6
22.5°	3358.4	3339.4	3370.4	3345.3	3124.9	2930.7	2806.8	2699.6	2640.0	2616.2	2612.6
25°	3622.9	3600.3	3591.9	3437.1	3082.0	2824.7	2623.4	2493.5	2441.1	2428.0	2430.4
27.5°	4022.0	3964.8	3856.4	3487.1	3003.4	2657.9	2408.9	2288.6	2258.8	2260.0	2263.6
30°	4553.4	4439.0	4173.3	3495.4	2874.7	2422.0	2189.7	2103.9	2089.6	2095.6	2115.9
32.5°	5045.4	4937.0	4497.4	3457.3	2677.0	2190.9	1993.1	1936.0	1914.5	1921.7	1931.2
35°	5431.4	5401.6	4797.6	3403.7	2433.9	1974.1	1816.8	1768.0	1726.3	1716.7	1723.9
37.5°	5796.0	5784.0	5022.8	3328.7	2193.3	1820.4	1675.0	1610.7	1550.0	1516.6	1517.8
40°	6196.3	6184.3	5170.5	3213.1	1980.0	1687.0	1547.6	1463.0	1387.9	1327.2	1333.1
42.5°	6646.6	6576.3	5240.8	3047.5	1799.0	1573.8	1443.9	1329.6	1230.7	1174.7	1178.3
45°	7138.6	6980.2	5239.6	2836.6	1646.5	1470.1	1333.1	1171.1	1079.4	1027.0	1024.6
47.5°	7660.4	7366.2	5175.3	2603.1	1498.7	1355.8	1161.6	1037.7	976.9	944.7	937.6
50°	8198.9	7727.1	5065.7	2335.1	1347.4	1225.9	1054.4	969.8	923.3	893.5	882.8
52.5°	8705.3	8054.8	4933.4	2031.3	1193.7	1099.6	1006.7	941.2	892.3	859.0	844.7
55°	9175.8	8337.1	4746.4	1720.3	1068.6	1015.0	984.1	929.3	873.3	834.0	818.5
57.5°	9594.0	8520.6	4423.5	1428.4	979.3	956.7	960.2	909.0	844.7	811.3	789.9
60°	9941.9	8655.2	3945.8	1158.0	906.6	899.5	923.3	870.9	795.8	757.7	741.0
62.5°	10150.4	8652.8	3359.6	948.3	844.7	847.1	874.5	823.2	747.0	711.2	700.5
65°	10132.5	8440.8	2716.3	811.3	785.1	787.5	823.2	770.8	706.5	685.0	683.8
67.5°	9773.9	7923.7	2083.7	722.0	719.6	730.3	772.0	735.1	681.5	679.1	682.6
70°	8802.9	6850.3	1501.1	650.5	651.7	667.2	722.0	712.4	668.4	673.1	671.9
72.5°	7058.8	5222.9	1007.9	575.4	576.6	601.6	674.3	694.6	655.2	718.4	727.9
75°	4701.1	3257.2	648.1	495.6	496.8	529.0	632.6	660.0	619.5	716.0	722.0
77.5°	2258.8	1464.2	469.4	417.0	417.0	446.8	546.8	590.9	527.8	556.4	509.9
80°	780.3	550.4	369.3	336.0	328.8	349.1	461.1	512.3	455.1	419.4	393.1
82.5°	307.4	285.9	296.6	260.9	237.1	250.2	358.6	422.9	334.8	302.6	301.4
85°	176.3	185.9	209.7	172.7	137.0	153.7	263.3	303.8	252.6	222.8	227.5
87.5°	47.7	65.5	96.5	89.4	62.0	65.5	125.1	168.0	145.3	112.0	115.6
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)