

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: P949120

Luminaire Tested: **GALN-SB4A-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14761 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - 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



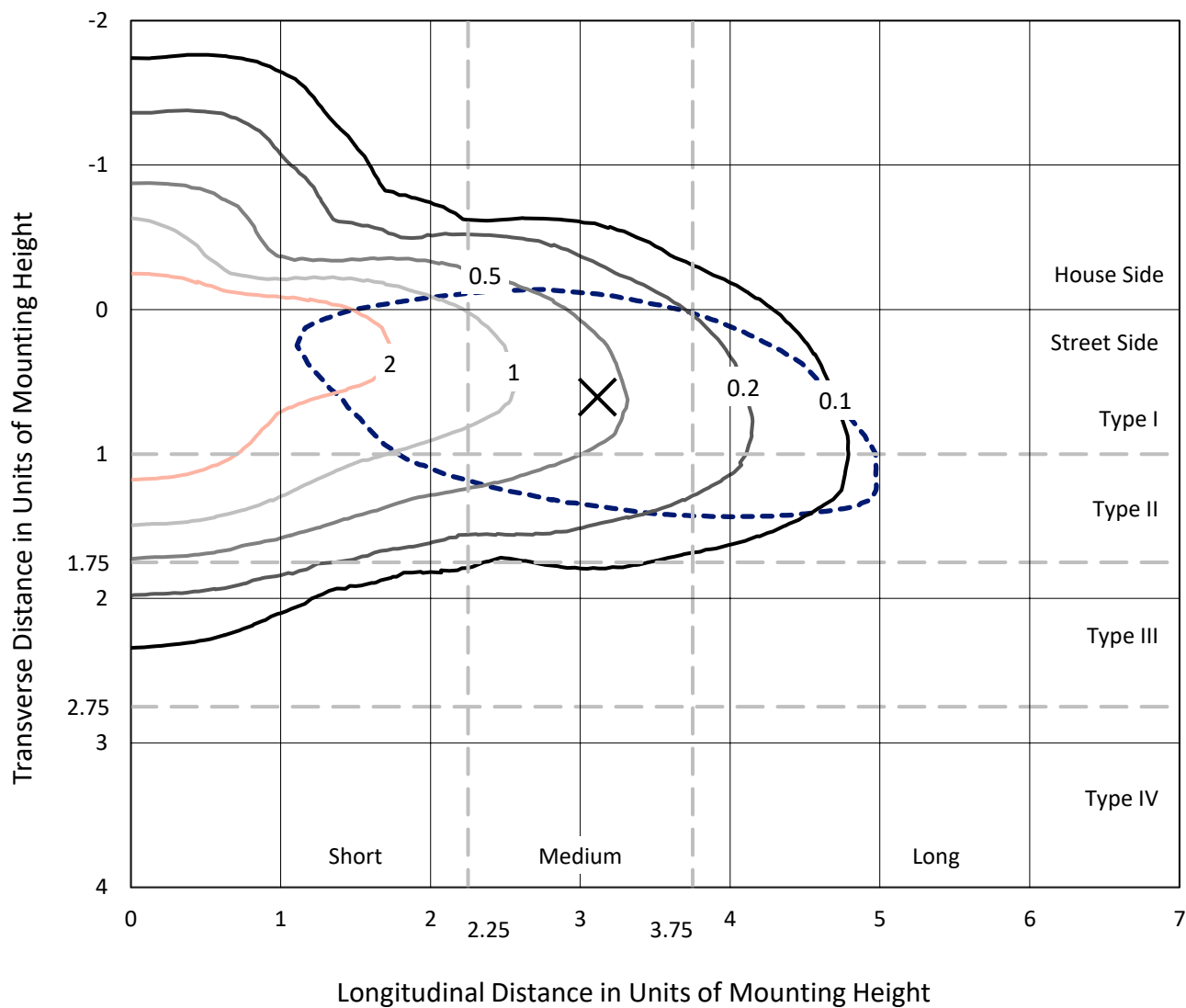
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Iso-Footcandle Lines of Horizontal Illumination

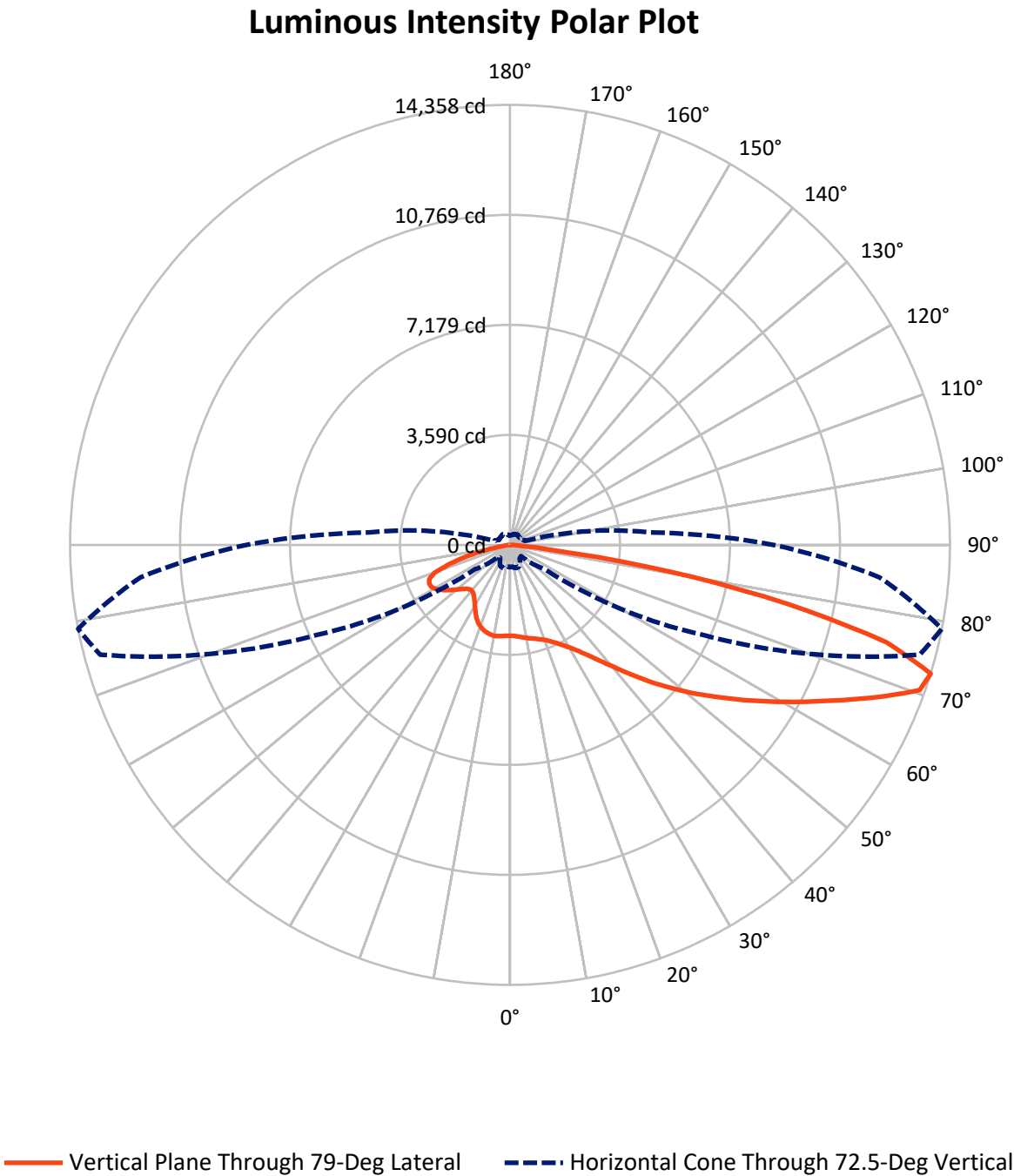
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.2	0.0	3248.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11512.8	0.0	11512.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	14761.0	0.0	14761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	1.8
10°-20°	703.2	4.8
20°-30°	1134.7	7.7
30°-40°	1703.0	11.5
40°-50°	2415.8	16.4
50°-60°	3050.9	20.7
60°-70°	3098.6	21.0
70°-80°	2111.8	14.3
80°-90°	274.0	1.9
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°	14761.0	100.0
0°-180°	14761.0	100.0

Coefficient of Utilization



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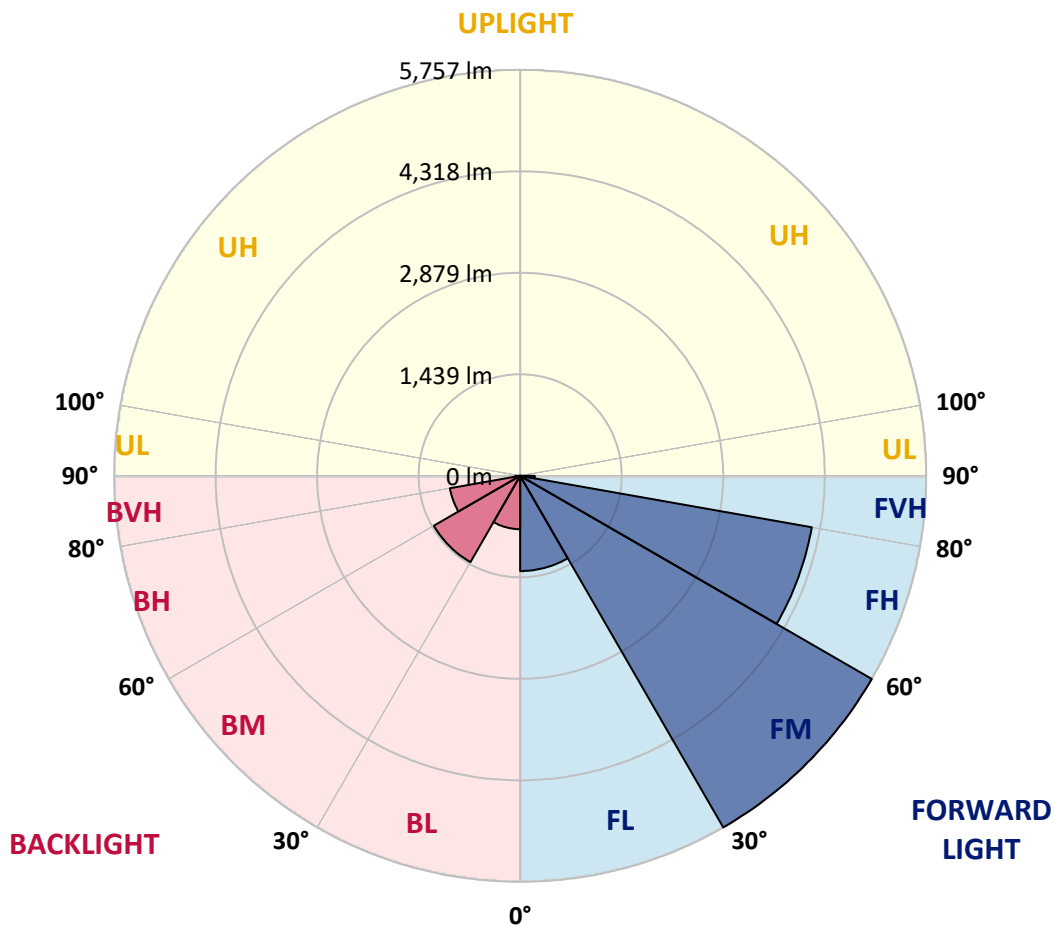
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.3	9.1			
FM	(30°-60°)	5757.1	39.0			
FH	(60°-80°)	4199.0	28.4			G2/5000
FVH	(80°-90°)	206.4	1.4			G2/225
BL	(0°-30°)	756.6	5.1	B2/1000		
BM	(30°-60°)	1412.6	9.6	B2/2500		
BH	(60°-80°)	1011.4	6.9	B3/2500		G3/2500
BVH	(80°-90°)	67.6	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1
2.5°	2964.7	2950.6	2959.2	2956.1	2960.0	2964.7	2966.3	2968.6	2976.4	2975.6	2974.8
5°	2958.4	2944.4	2956.1	2952.2	2962.3	2973.3	2982.7	2991.2	3003.7	3009.2	3001.4
7.5°	2945.2	2935.8	2947.5	2959.2	2978.0	2994.4	3007.6	3027.2	3045.1	3048.2	3053.7
10°	2867.9	2860.8	2888.2	2918.6	2970.2	3014.7	3043.6	3066.2	3085.7	3088.8	3096.6
12.5°	2787.5	2778.9	2809.3	2850.7	2934.2	3014.7	3075.6	3105.2	3122.4	3132.6	3144.3
15°	2774.2	2767.1	2784.3	2820.2	2889.7	2993.6	3097.4	3152.1	3166.9	3178.6	3183.3
17.5°	2838.2	2824.9	2832.0	2844.4	2885.1	2974.1	3114.6	3205.2	3227.8	3240.3	3240.3
20°	2986.6	2967.8	2956.9	2931.9	2924.9	2977.2	3113.0	3269.2	3298.9	3314.5	3318.4
22.5°	3184.1	3171.6	3148.2	3084.9	3016.2	3015.4	3142.7	3351.2	3406.6	3421.5	3412.1
25°	3423.0	3404.3	3374.6	3288.7	3156.8	3091.2	3192.7	3455.8	3548.7	3552.6	3525.3
27.5°	3697.9	3669.8	3629.2	3515.9	3337.9	3209.9	3269.2	3576.1	3711.9	3710.4	3654.1
30°	3987.5	3959.4	3916.5	3779.1	3555.0	3369.9	3375.4	3705.7	3905.6	3897.0	3800.9
32.5°	4199.1	4178.1	4169.5	4063.3	3804.8	3558.9	3497.2	3849.3	4144.5	4136.7	4002.4
35°	4361.5	4334.2	4344.4	4290.5	4077.3	3770.5	3646.3	4020.3	4434.9	4434.2	4267.1
37.5°	4522.4	4498.2	4506.8	4470.9	4329.5	4039.1	3828.3	4229.6	4794.9	4812.1	4587.2
40°	4669.2	4643.4	4677.8	4644.2	4525.5	4324.8	4035.2	4466.2	5211.8	5244.6	4974.5
42.5°	4757.4	4737.1	4794.1	4794.9	4695.7	4566.1	4262.4	4727.0	5694.4	5767.8	5450.8
45°	4787.9	4780.8	4866.7	4884.7	4846.4	4705.9	4466.9	5011.2	6214.4	6345.5	5993.4
47.5°	4755.1	4741.8	4860.5	4926.8	4957.3	4771.5	4636.4	5318.8	6745.3	6937.4	6585.3
50°	4589.5	4563.8	4740.2	4880.0	4988.5	4814.4	4807.4	5674.1	7348.9	7558.9	7180.2
52.5°	4292.0	4272.5	4473.2	4716.0	4919.8	4835.5	4999.5	6062.1	7922.0	8193.7	7790.0
55°	3911.8	3886.0	4107.0	4424.0	4748.8	4828.5	5191.5	6496.2	8598.2	8873.8	8420.1
57.5°	3309.0	3257.5	3537.0	3911.8	4470.1	4819.9	5391.4	6928.0	9285.3	9615.5	9092.4
60°	2429.8	2353.3	2696.1	3140.4	3925.1	4736.3	5638.9	7412.1	10109.8	10407.3	9826.3
62.5°	1414.8	1370.3	1594.4	2009.0	2958.4	4244.4	5777.9	7975.1	10920.2	11232.6	10547.8
65°	1098.6	1086.1	1105.6	1137.6	1646.7	3177.8	5349.3	8524.0	11950.9	12169.5	11299.7
67.5°	1004.9	995.5	1004.1	944.0	835.5	1770.1	4231.9	8663.0	13055.0	13187.7	11957.9
70°	893.2	882.3	910.4	858.9	657.4	805.0	2734.4	8158.6	13933.3	14182.4	12458.4
72.5°	727.7	715.2	780.8	757.4	553.6	516.9	1373.4	6960.0	13841.2	14358.1	12100.0
75°	559.1	552.0	630.1	649.6	451.3	406.8	659.0	5173.6	12180.5	12701.2	10428.3
77.5°	434.1	428.7	468.5	539.5	363.9	315.4	405.2	3281.7	9179.1	9270.4	7186.5
80°	325.6	310.0	346.7	417.7	283.4	230.3	274.8	1913.7	5802.1	5259.5	3127.9
82.5°	203.8	196.0	226.4	278.7	199.9	158.5	178.8	1057.2	2325.2	1369.5	603.6
85°	116.3	113.2	123.4	159.3	108.5	91.4	102.3	466.9	424.8	292.0	181.9
87.5°	46.8	45.3	56.2	71.1	39.8	33.6	35.9	112.4	93.7	86.7	60.1
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°	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1	2963.1
2.5°	2971.7	2971.7	2960.8	2943.6	2924.1	2911.6	2891.3	2885.8	2864.7	2858.5	2868.7
5°	3007.6	3001.4	2967.8	2919.4	2853.0	2792.1	2725.0	2682.8	2623.5	2602.4	2618.0
7.5°	3052.9	3035.7	2978.0	2871.8	2732.8	2596.2	2454.0	2346.3	2243.2	2206.5	2211.2
10°	3094.3	3070.1	2971.7	2785.9	2545.4	2308.8	2082.4	1923.9	1803.6	1754.5	1765.4
12.5°	3135.7	3091.2	2930.3	2643.0	2279.2	1958.2	1717.0	1593.6	1519.4	1460.1	1479.6
15°	3174.7	3112.3	2866.3	2451.7	1987.1	1661.5	1483.5	1385.1	1325.8	1286.8	1293.8
17.5°	3220.0	3130.2	2770.3	2208.9	1709.2	1456.2	1311.0	1251.6	1239.9	1235.2	1238.3
20°	3283.3	3146.6	2643.8	1937.2	1504.6	1292.2	1217.3	1211.8	1211.0	1208.7	1216.5
22.5°	3351.2	3166.1	2476.7	1690.4	1330.5	1189.9	1176.7	1165.7	1158.7	1157.9	1166.5
25°	3431.6	3172.4	2267.4	1488.2	1182.1	1141.5	1125.9	1109.5	1104.8	1104.8	1109.5
27.5°	3509.7	3151.3	2023.8	1312.5	1098.6	1097.0	1076.7	1071.3	1070.5	1072.8	1079.1
30°	3587.8	3111.5	1781.8	1150.1	1050.2	1050.2	1043.1	1047.1	1050.2	1058.0	1063.4
32.5°	3693.2	3069.3	1579.6	1029.9	1008.0	1000.2	1007.2	1015.0	1018.2	1028.3	1036.9
35°	3847.8	3039.6	1418.7	964.3	964.3	954.1	958.0	956.5	949.5	944.8	955.7
37.5°	4052.3	3038.1	1286.0	933.8	927.6	926.0	926.8	916.7	889.3	856.5	857.3
40°	4298.3	3080.3	1183.7	912.8	908.1	917.4	912.8	885.4	810.5	753.5	751.9
42.5°	4628.6	3200.5	1118.1	887.0	901.0	912.8	894.0	799.5	748.8	710.5	709.0
45°	5017.4	3395.7	1084.5	859.7	887.8	901.8	811.2	769.9	729.3	683.2	680.1
47.5°	5457.8	3641.6	1076.7	833.9	858.1	866.7	776.1	757.4	711.3	661.3	657.4
50°	5937.2	3932.9	1097.8	803.4	815.2	785.5	764.4	747.2	699.6	650.4	644.9
52.5°	6433.0	4253.8	1140.0	762.1	772.2	739.4	759.7	744.9	692.6	626.2	621.5
55°	6920.2	4577.0	1180.6	713.6	728.5	698.0	746.4	735.5	660.6	585.6	581.7
57.5°	7415.2	4898.7	1220.4	670.7	686.3	658.2	725.4	710.5	624.6	548.1	546.6
60°	7929.8	5211.0	1239.1	629.3	640.3	621.5	693.3	667.6	584.0	509.9	507.5
62.5°	8411.5	5471.1	1208.7	587.9	595.0	587.2	651.2	616.8	543.4	466.9	466.1
65°	8894.9	5625.7	1115.0	547.3	548.9	545.0	591.8	562.2	495.8	429.4	424.8
67.5°	9332.9	5712.3	965.8	503.6	499.7	498.1	536.4	502.8	449.7	392.0	387.3
70°	9425.8	5492.1	737.9	452.1	452.1	448.2	475.5	441.2	399.0	352.1	350.6
72.5°	8609.1	4620.0	523.9	393.5	399.8	392.0	414.6	385.7	347.5	316.2	306.9
75°	6942.1	3387.9	381.0	333.4	344.3	331.1	352.1	331.8	299.0	298.3	268.6
77.5°	4769.9	2094.9	276.4	274.8	282.6	265.5	289.7	278.7	249.1	235.8	221.0
80°	2035.5	835.5	201.4	212.4	212.4	196.8	224.9	228.0	202.2	196.0	196.0
82.5°	405.2	237.4	141.3	146.0	137.4	132.7	159.3	176.5	243.6	270.9	271.7
85°	121.8	87.4	85.1	79.6	70.3	71.1	93.7	177.2	218.6	124.9	107.8
87.5°	33.6	21.9	22.6	18.0	14.8	19.5	32.0	134.3	73.4	31.2	26.5
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)