

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: P944159

Luminaire Tested: **GALN-SB9A-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944159
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-SB9A-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33360 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

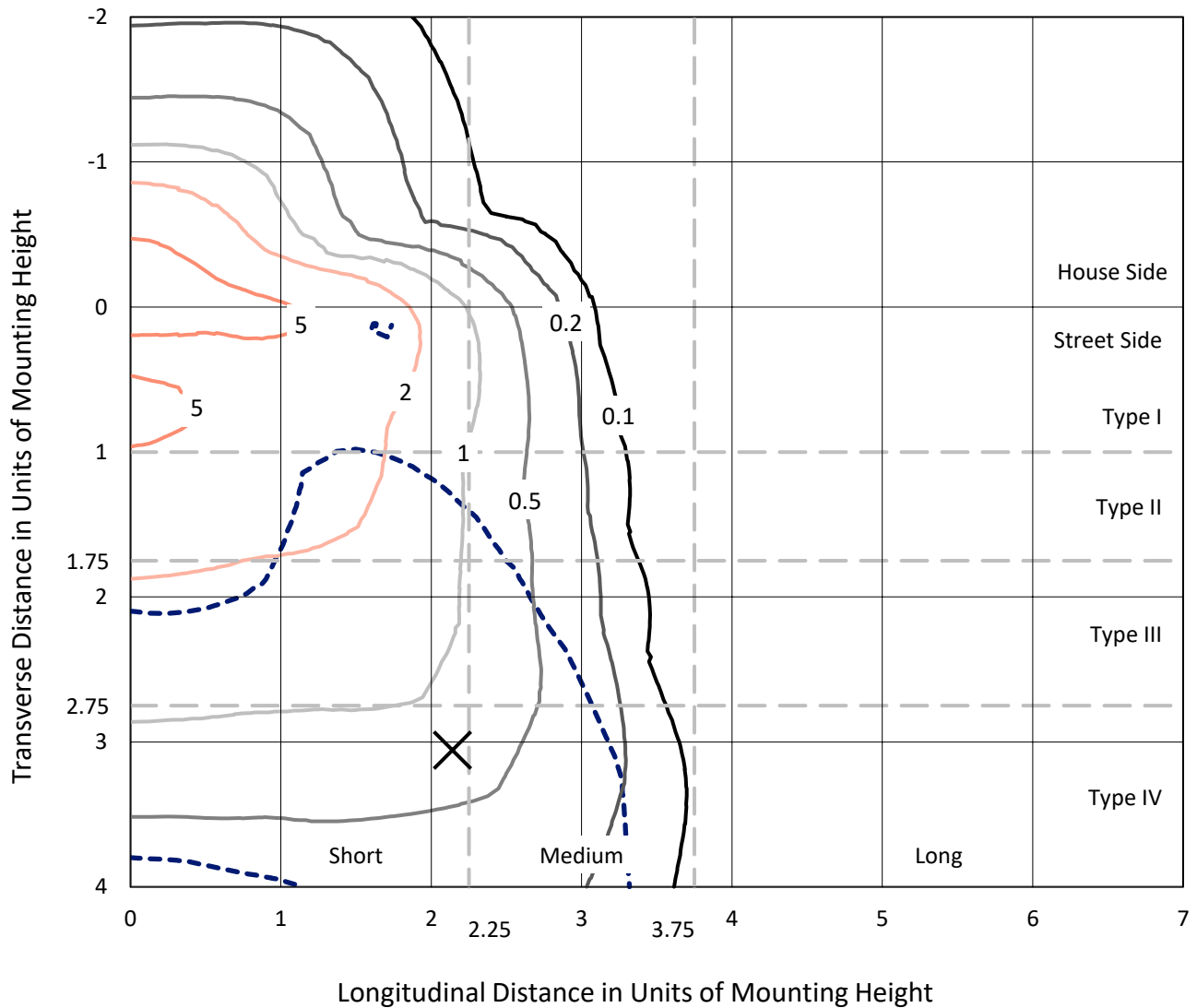
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

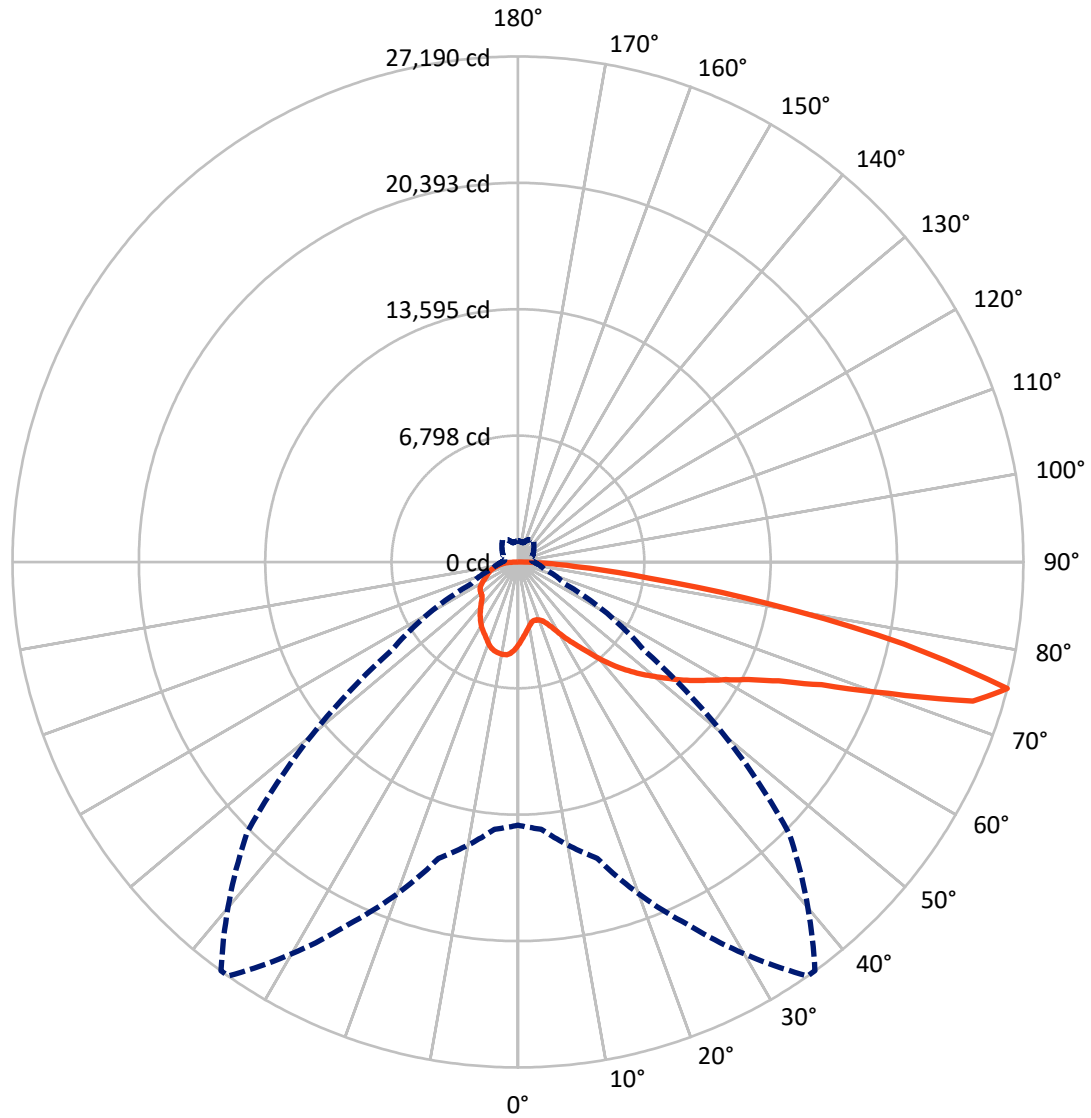
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7938.8	0.0	7938.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	25421.2	0.0	25421.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	33360.0	0.0	33360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	1.3
10°-20°	1214.0	3.6
20°-30°	2038.7	6.1
30°-40°	3168.4	9.5
40°-50°	4702.8	14.1
50°-60°	6492.5	19.5
60°-70°	7876.8	23.6
70°-80°	6509.6	19.5
80°-90°	936.3	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°	33360.0	100.0
0°-180°	33360.0	100.0



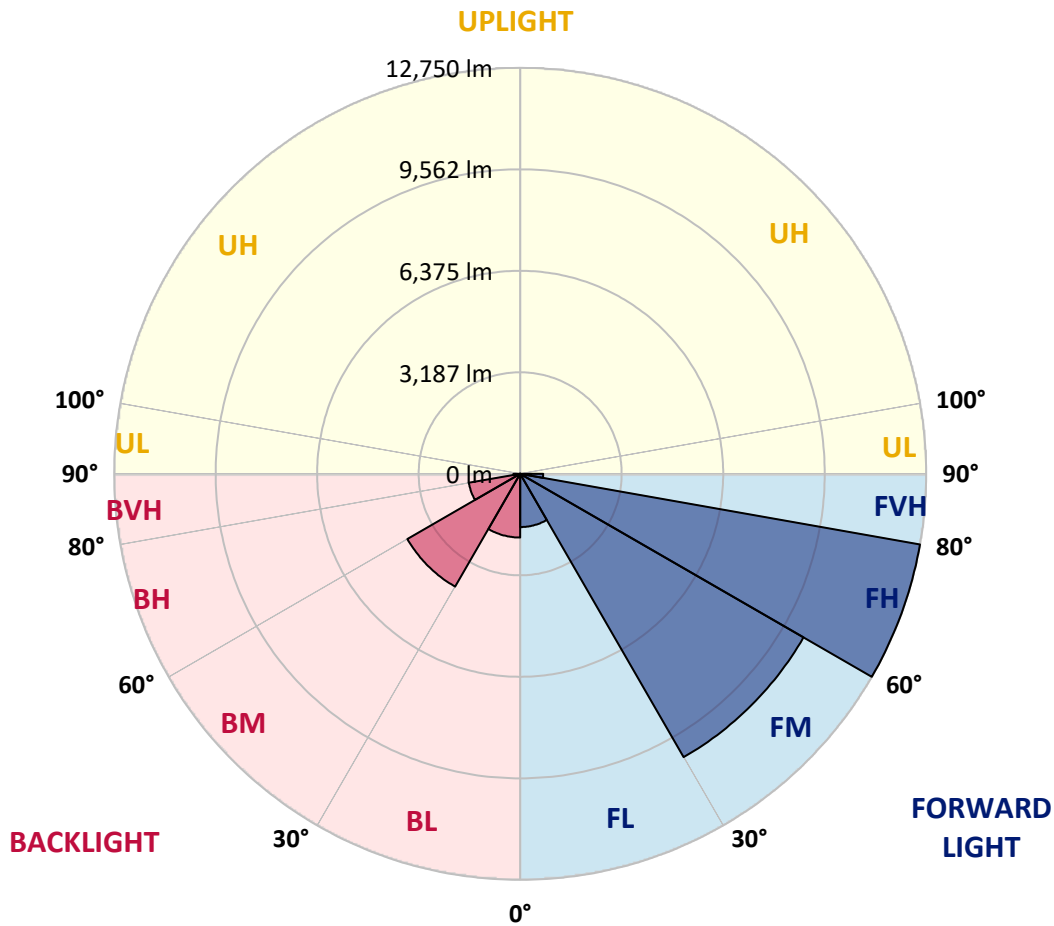
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.9	5.0			
FM (30°-60°)	10273.1	30.8			
FH (60°-80°)	12749.7	38.2			G5
FVH (80°-90°)	725.5	2.2			G4/750
BL (0°-30°)	2000.7	6.0	B3/2500		
BM (30°-60°)	4090.6	12.3	B3/5000		
BH (60°-80°)	1636.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	210.8	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4
2.5°	4099.2	4124.4	4135.3	4129.8	4156.9	4153.3	4191.2	4238.1	4303.0	4366.1	4458.1
5°	3783.6	3810.6	3834.1	3855.7	3908.0	3924.3	3983.8	4073.9	4193.0	4313.8	4465.3
7.5°	3489.6	3513.1	3549.1	3588.8	3677.2	3693.4	3792.6	3933.3	4099.2	4275.9	4485.1
10°	3249.8	3273.2	3311.1	3356.2	3466.2	3486.0	3612.3	3799.8	4016.2	4239.9	4506.8
12.5°	3147.0	3154.2	3175.8	3220.9	3316.5	3329.1	3468.0	3682.6	3935.1	4212.8	4539.2
15°	3141.6	3156.0	3157.8	3181.2	3260.6	3266.0	3394.0	3606.9	3884.6	4207.4	4587.9
17.5°	3195.7	3206.5	3190.3	3204.7	3271.4	3280.4	3381.4	3570.8	3868.3	4230.8	4670.9
20°	3339.9	3349.0	3300.3	3280.4	3329.1	3336.3	3435.5	3594.2	3884.6	4279.5	4784.5
22.5°	3646.5	3651.9	3532.9	3451.8	3455.4	3459.0	3545.5	3689.8	3947.7	4367.9	4928.8
25°	4124.4	4120.8	3931.5	3774.6	3684.4	3664.6	3722.3	3844.9	4054.1	4485.1	5114.5
27.5°	4683.5	4656.4	4467.1	4232.6	4036.1	4007.2	3994.6	4046.9	4205.6	4640.2	5341.7
30°	5314.7	5289.4	5085.7	4779.1	4506.8	4459.9	4340.8	4313.8	4431.0	4851.2	5657.3
32.5°	6007.2	5991.0	5747.5	5376.0	5011.7	4957.6	4757.4	4685.3	4777.3	5170.4	6097.4
35°	6587.9	6573.5	6371.5	5989.2	5543.7	5477.0	5273.2	5192.1	5239.0	5579.8	6672.7
37.5°	7112.7	7105.5	6932.4	6631.2	6171.3	6090.2	5861.1	5834.1	5825.1	6119.0	7370.6
40°	7599.6	7581.6	7401.3	7242.6	6901.7	6827.8	6625.8	6602.3	6533.8	6782.7	8160.5
42.5°	8138.9	8092.0	7830.5	7756.5	7664.6	7603.2	7482.4	7486.0	7334.5	7531.1	8997.3
45°	8578.9	8551.8	8283.1	8239.9	8339.0	8313.8	8418.4	8445.4	8151.5	8315.6	9866.5
47.5°	9051.4	9026.1	8798.9	8768.3	9037.0	9044.2	9413.9	9422.9	8948.6	9130.7	10737.6
50°	9633.9	9597.8	9372.4	9410.3	9711.5	9738.5	10414.8	10353.5	9682.6	9958.5	11601.4
52.5°	10018.0	10039.7	9991.0	10052.3	10463.5	10488.7	11399.5	11242.6	10409.4	10775.5	12449.1
55°	10301.2	10344.5	10495.9	10636.6	11257.0	11282.2	12328.2	12088.4	11011.7	11532.9	13246.2
57.5°	10665.5	10604.1	10887.3	11161.4	12010.8	12077.5	13231.7	12903.5	11545.5	12185.8	13792.6
60°	11188.5	11145.2	11365.2	11771.0	12854.8	12961.2	14187.6	13637.5	11936.9	12703.3	13899.0
62.5°	12248.9	12140.7	12174.9	12533.8	13918.8	14059.5	15266.0	14277.7	12131.6	12905.3	13329.1
65°	13834.1	13648.3	13475.2	13724.1	15417.5	15556.4	16483.3	14780.9	12059.5	12514.0	11816.0
67.5°	15830.5	15646.5	15433.7	15668.2	17624.9	17734.9	17985.6	15064.0	11491.4	11006.3	9141.6
70°	17477.0	17408.5	17662.8	18627.6	21150.6	21154.2	19911.6	14829.6	9935.1	7803.4	5289.4
72.5°	17258.8	17217.3	18557.3	21540.1	25594.2	25498.6	21734.9	13055.0	6692.5	3520.3	1982.0
75°	14158.7	14427.4	16503.2	21487.8	27190.3	27177.6	20618.6	8299.4	2768.3	1459.0	1024.3
77.5°	7592.4	8018.0	10714.2	15864.7	21226.3	21545.5	14495.9	2903.5	1188.5	934.2	708.7
80°	2476.1	2847.6	4270.5	8077.5	13792.6	13733.1	6212.8	1139.8	813.3	661.9	490.5
82.5°	1051.4	1094.7	1908.0	3814.2	7078.4	6968.4	1978.4	654.6	571.7	452.7	303.0
85°	411.2	459.9	842.2	1763.8	3065.8	2999.1	714.2	324.6	366.1	295.8	180.3
87.5°	135.3	164.1	301.2	604.1	954.0	919.7	174.9	111.8	158.7	135.3	64.9
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°	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4	4445.4
2.5°	4483.3	4512.2	4546.4	4596.9	4640.2	4676.3	4714.2	4737.6	4746.6	4773.7	4771.9
5°	4515.8	4578.9	4663.7	4746.6	4827.8	4876.5	4919.7	4941.4	4961.2	4975.7	4979.3
7.5°	4569.9	4651.0	4784.5	4892.7	4961.2	5000.9	5029.8	5022.5	5029.8	5033.4	5038.8
10°	4616.8	4730.4	4889.1	4991.9	5044.2	5046.0	5038.8	5013.5	5000.9	5002.7	5006.3
12.5°	4672.7	4798.9	4970.2	5056.8	5071.2	5031.6	5000.9	4957.6	4941.4	4934.2	4930.6
15°	4748.4	4892.7	5058.6	5091.1	5055.0	5004.5	4952.2	4881.9	4845.8	4817.0	4826.0
17.5°	4840.4	4999.1	5127.1	5103.7	5026.1	4943.2	4858.4	4752.0	4678.1	4647.4	4649.2
20°	4968.4	5110.9	5179.4	5076.6	4959.4	4833.2	4688.9	4559.1	4490.5	4459.9	4456.3
22.5°	5123.5	5260.6	5229.9	5029.8	4863.8	4661.9	4481.5	4385.9	4351.7	4330.0	4333.6
25°	5309.3	5426.5	5266.0	4961.2	4706.9	4434.6	4295.8	4265.1	4248.9	4232.6	4232.6
27.5°	5550.9	5614.1	5293.1	4860.2	4461.7	4193.0	4142.5	4147.9	4142.5	4115.4	4120.8
30°	5870.2	5857.5	5318.3	4696.1	4180.3	3974.8	3978.4	4001.8	4005.4	3987.4	3996.4
32.5°	6290.4	6162.3	5330.9	4483.3	3911.6	3783.6	3787.2	3812.4	3830.5	3799.8	3814.2
35°	6798.9	6517.6	5311.1	4216.4	3704.2	3601.4	3574.4	3581.6	3587.0	3558.2	3578.0
37.5°	7392.2	6916.1	5222.7	3920.6	3532.9	3422.9	3365.2	3316.5	3287.6	3260.6	3278.6
40°	8043.3	7350.8	5060.4	3632.1	3341.7	3233.5	3147.0	3055.0	2957.6	2921.6	2937.8
42.5°	8725.0	7798.0	4863.8	3356.2	3121.7	3033.4	2941.4	2807.9	2661.9	2587.9	2596.9
45°	9431.9	8256.1	4670.9	3083.9	2896.3	2858.4	2752.0	2591.5	2432.8	2339.0	2331.8
47.5°	10124.4	8688.9	4387.7	2809.7	2685.3	2726.8	2643.8	2495.9	2319.2	2171.3	2155.1
50°	10786.3	9094.7	3924.3	2532.0	2514.0	2687.1	2607.8	2395.0	2193.0	2003.6	1987.4
52.5°	11442.7	9422.9	3330.9	2279.5	2422.0	2676.3	2560.9	2326.4	2079.4	1881.0	1859.3
55°	12000.0	9592.4	2759.2	2063.1	2288.5	2584.3	2505.0	2245.3	1918.8	1707.8	1689.8
57.5°	12317.4	9455.4	2283.1	1850.3	2104.6	2432.8	2409.4	2072.1	1727.7	1565.4	1543.7
60°	12180.3	8899.9	1893.6	1664.6	1929.7	2268.7	2243.5	1900.8	1581.6	1428.3	1406.7
62.5°	11424.7	7841.3	1585.2	1502.3	1771.0	2101.0	2077.5	1769.2	1469.8	1321.9	1298.5
65°	9902.6	6378.7	1345.4	1367.0	1610.5	1899.0	1933.3	1659.2	1381.4	1237.2	1213.7
67.5°	7552.7	4620.4	1157.8	1249.8	1453.6	1700.6	1799.8	1579.8	1307.5	1170.4	1148.8
70°	4304.8	2624.0	999.1	1136.2	1314.7	1516.7	1697.0	1516.7	1228.1	1114.5	1100.1
72.5°	1632.1	1204.7	863.8	1022.5	1181.2	1361.6	1583.4	1417.5	1136.2	1051.4	1037.0
75°	871.1	734.0	726.8	889.1	1028.0	1210.1	1440.9	1320.1	1067.6	1110.9	1147.0
77.5°	593.3	519.4	607.8	761.0	860.2	1042.4	1289.4	1172.2	925.2	921.6	849.4
80°	411.2	367.9	494.1	613.2	665.5	876.5	1125.3	1006.3	753.8	703.3	672.7
82.5°	247.1	239.9	369.7	458.1	470.7	676.3	932.4	844.0	616.8	537.4	541.0
85°	135.3	142.5	236.2	268.7	274.1	472.5	730.4	652.8	474.3	398.6	402.2
87.5°	37.9	48.7	86.6	106.4	131.7	245.3	434.6	387.7	238.1	165.9	165.9
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)