

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: P949117

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
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-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15104 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

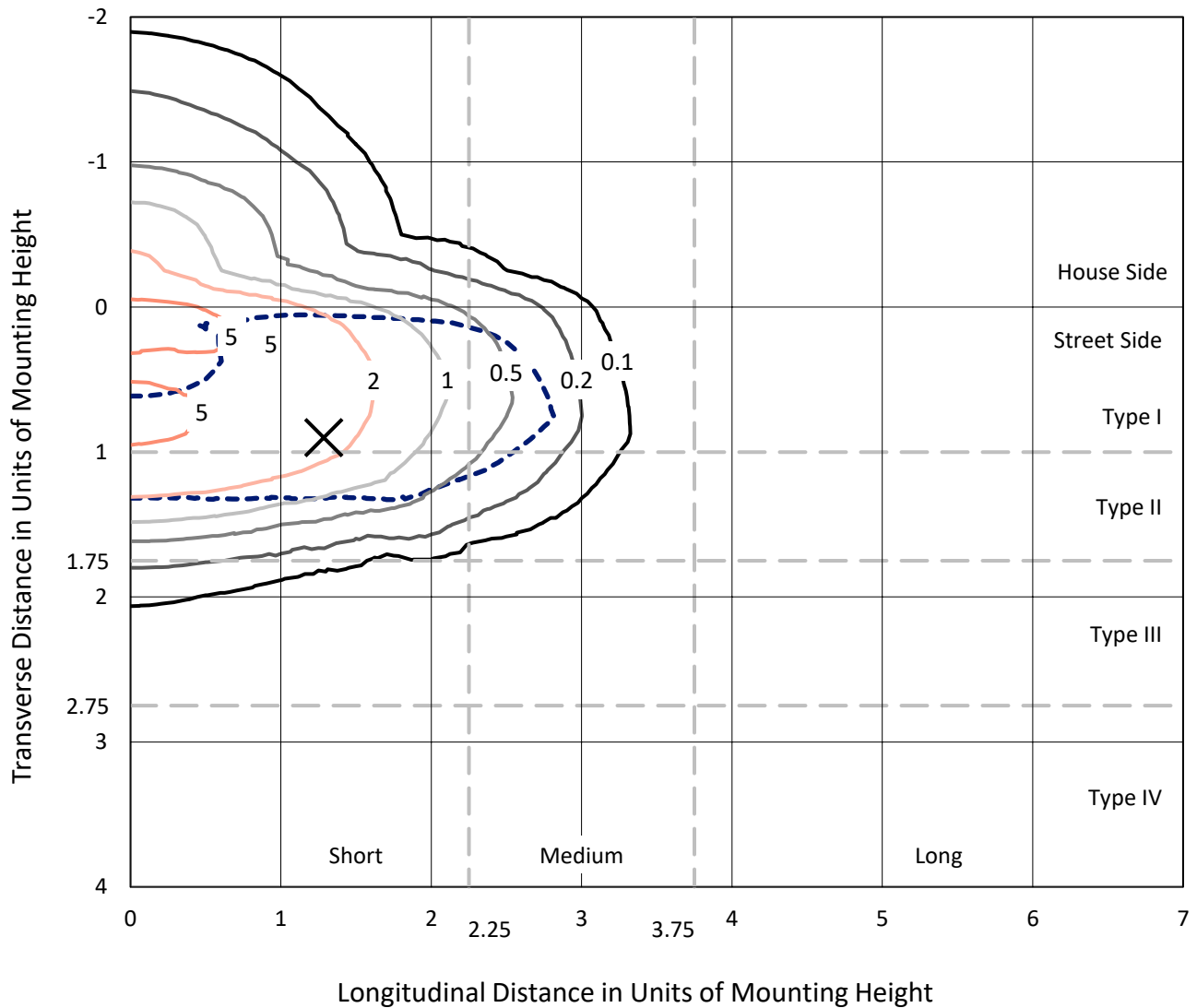
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949117
 CATALOG NUMBER: GALN-SB4A-722-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

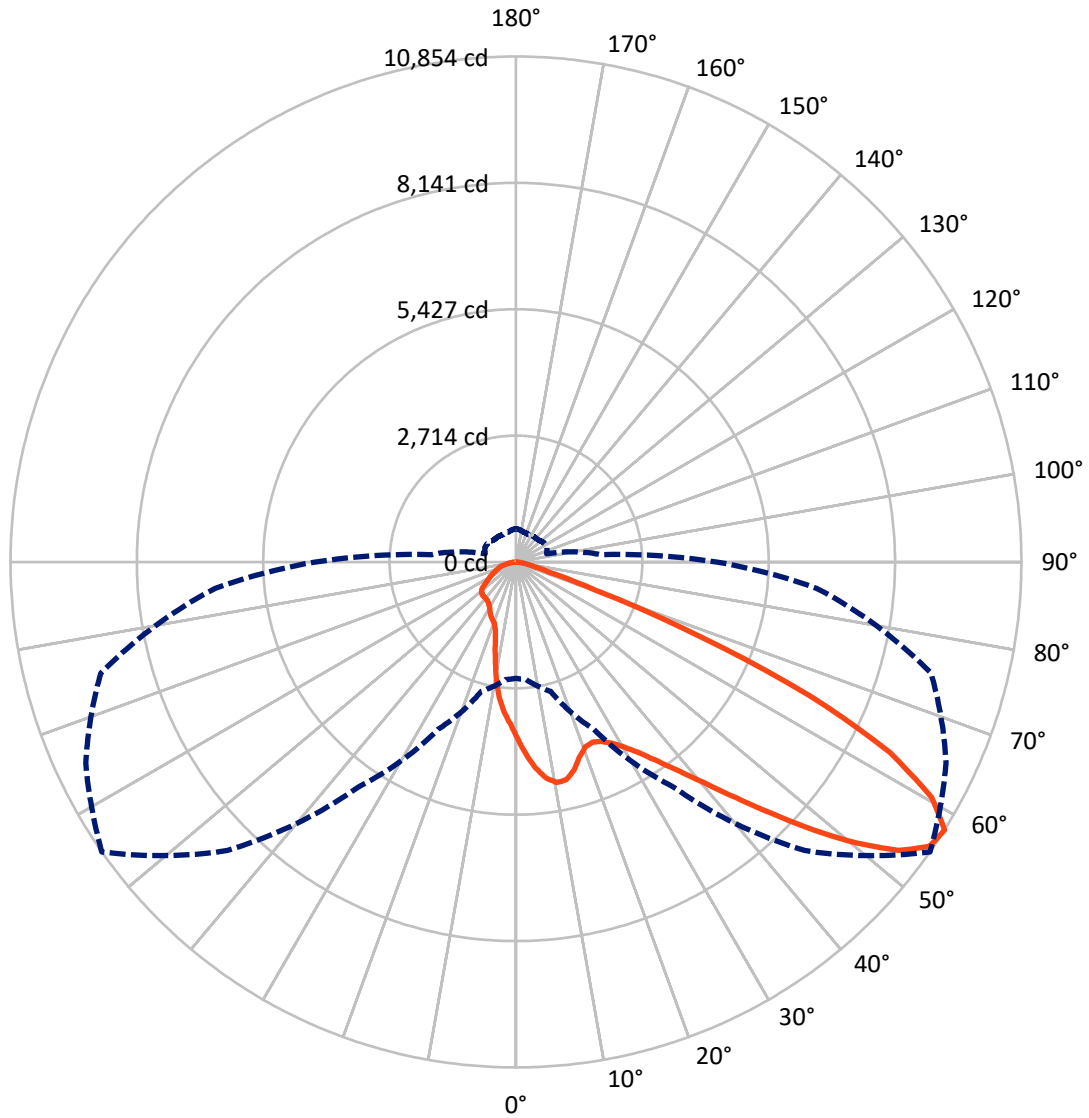
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P949117
CATALOG NUMBER: GALN-SB4A-722-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P949117
 CATALOG NUMBER: GALN-SB4A-722-U-AFL

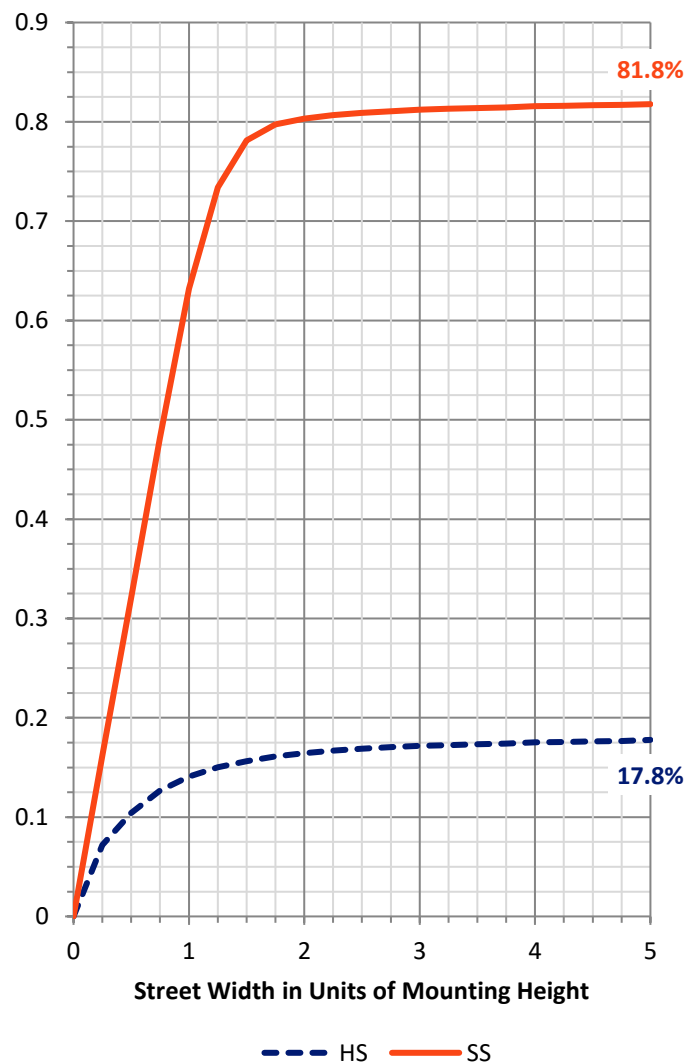
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.0	0.0	2733.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12371.0	0.0	12371.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	15104.0	0.0	15104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	2.3
10°-20°	886.4	5.9
20°-30°	1414.5	9.4
30°-40°	2239.4	14.8
40°-50°	3427.7	22.7
50°-60°	3671.4	24.3
60°-70°	2309.7	15.3
70°-80°	683.0	4.5
80°-90°	120.8	0.8
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°	15104.0	100.0
0°-180°	15104.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949117

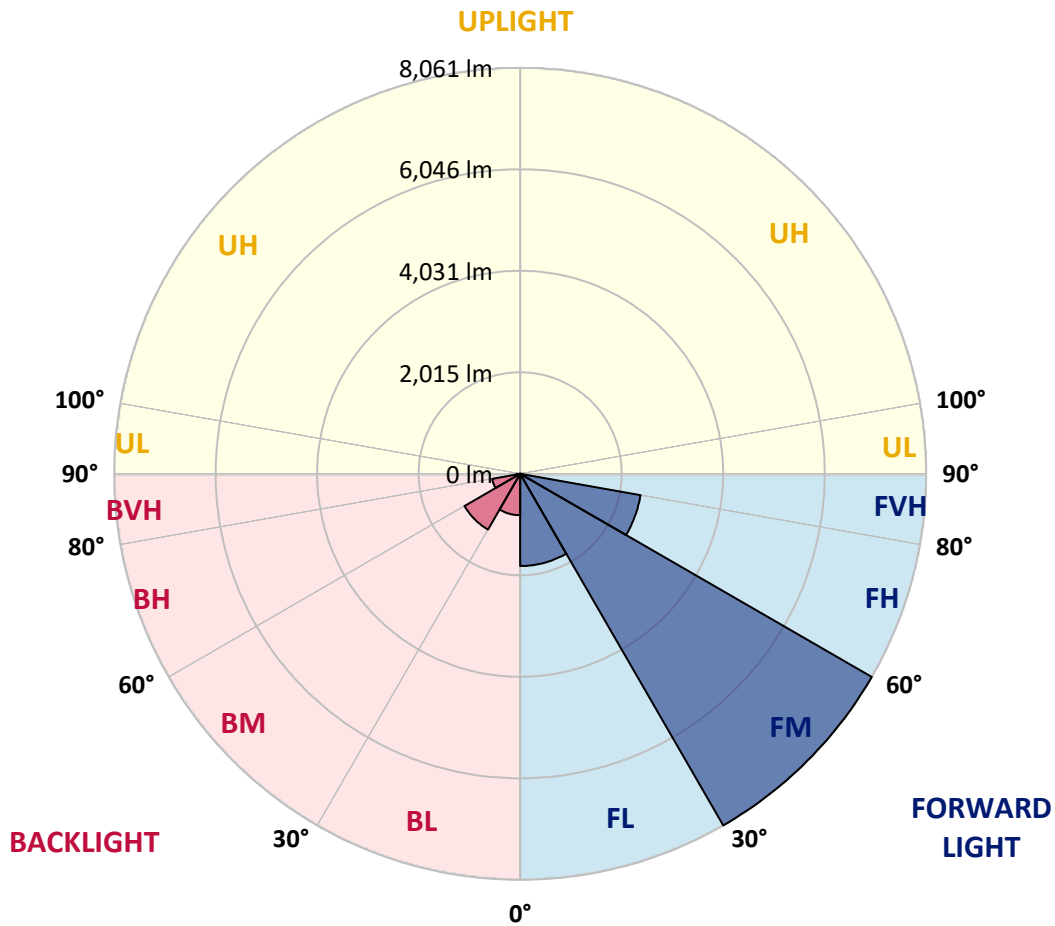
CATALOG NUMBER: GALN-SB4A-722-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.6	12.1			
FM (30°-60°)	8061.1	53.4			
FH (60°-80°)	2428.3	16.1			G2/5000
FVH (80°-90°)	51.0	0.3			G1/100
BL (0°-30°)	821.4	5.4	B2/1000		
BM (30°-60°)	1277.4	8.5	B2/2500		
BH (60°-80°)	564.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	69.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P949117
 CATALOG NUMBER: GALN-SB4A-722-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6
2.5°	4342.1	4338.9	4356.1	4297.6	4257.7	4203.9	4132.8	4042.2	3944.6	3841.6	3797.1
5°	4733.3	4705.9	4723.9	4680.2	4636.4	4555.2	4449.8	4302.2	4121.9	3916.5	3807.2
7.5°	4671.6	4652.8	4698.9	4737.9	4770.7	4760.6	4683.3	4528.7	4296.0	3997.7	3839.2
10°	4174.2	4153.1	4217.9	4353.0	4551.3	4723.9	4817.6	4721.5	4474.0	4086.7	3870.5
12.5°	3735.4	3725.2	3768.2	3877.5	4097.7	4428.7	4800.4	4890.2	4659.1	4192.2	3912.6
15°	3548.0	3535.5	3562.8	3618.3	3758.8	4067.2	4644.2	5005.8	4841.0	4314.0	3979.8
17.5°	3506.6	3492.6	3504.3	3533.2	3623.7	3858.7	4408.4	5062.8	5030.7	4449.8	4036.0
20°	3583.1	3571.4	3573.0	3571.4	3634.7	3821.3	4244.5	5040.9	5196.3	4574.7	4090.6
22.5°	3768.2	3748.7	3749.4	3708.1	3742.4	3886.9	4201.5	4982.3	5343.8	4684.1	4132.0
25°	4069.6	4034.4	4041.5	3936.0	3926.7	4033.6	4268.7	4937.0	5490.6	4771.5	4139.8
27.5°	4481.8	4442.0	4420.9	4264.0	4189.0	4242.1	4405.3	4952.7	5629.6	4847.3	4120.3
30°	4997.2	4948.8	4905.8	4683.3	4547.4	4527.9	4617.7	5055.7	5793.6	4926.9	4086.7
32.5°	5628.8	5572.6	5494.5	5199.4	5008.1	4905.8	4892.5	5239.2	5985.7	5028.4	4069.6
35°	6380.8	6307.4	6196.5	5814.7	5572.6	5363.4	5254.8	5503.9	6248.8	5181.4	4089.1
37.5°	7155.3	7072.6	6971.0	6516.6	6219.1	5910.7	5696.8	5863.1	6599.4	5389.1	4140.6
40°	7869.8	7776.8	7682.4	7277.9	6958.6	6586.9	6237.9	6317.5	7028.0	5637.4	4228.1
42.5°	8291.4	8222.7	8186.8	7968.1	7721.4	7344.3	6910.9	6856.3	7509.8	5923.2	4328.0
45°	8272.7	8244.5	8355.4	8446.0	8387.4	8178.2	7699.5	7452.0	7993.1	6170.7	4420.1
47.5°	7830.7	7849.5	8097.0	8606.1	8830.1	8939.5	8597.5	8036.8	8413.2	6355.8	4461.5
50°	6628.3	6643.9	7217.0	8314.8	8944.1	9560.2	9488.4	8607.6	8738.8	6469.0	4452.2
52.5°	5676.5	5686.6	5932.6	7451.2	8567.8	9872.5	10291.0	9145.6	8976.9	6500.2	4399.8
55°	4275.7	4310.8	4586.5	5845.9	7588.7	9625.0	10779.8	9700.0	9127.6	6503.3	4345.2
57.5°	2497.8	2536.1	2876.5	3968.1	5898.2	8762.2	10854.0	10191.9	9229.9	6478.4	4312.4
60°	1223.5	1239.9	1388.3	2085.5	3637.0	7099.9	10257.5	10430.0	9286.9	6465.1	4310.8
62.5°	824.5	822.2	828.4	1029.1	1792.0	4561.5	9014.4	10013.1	9256.5	6414.3	4295.2
65°	709.0	700.4	677.0	722.2	928.4	2086.3	6964.8	8768.5	9024.6	6287.1	4188.2
67.5°	612.9	613.7	614.5	600.4	662.9	962.7	4256.2	6907.0	8192.2	5684.3	3776.0
70°	507.5	514.6	517.7	517.7	540.3	631.7	1816.9	4734.0	6462.0	4456.8	3041.2
72.5°	462.2	447.4	449.0	441.2	441.2	481.0	731.6	2683.6	4071.1	2507.2	1856.0
75°	377.1	386.5	388.1	382.6	364.6	367.0	434.1	1125.9	1742.0	1040.0	917.4
77.5°	325.6	325.6	328.7	324.8	310.8	274.8	289.7	436.5	592.6	426.3	458.3
80°	261.6	260.8	274.1	281.9	260.0	203.0	185.1	241.3	263.1	187.4	238.1
82.5°	127.3	135.1	188.2	214.7	197.5	146.8	113.2	149.9	140.5	82.8	107.0
85°	74.2	70.3	84.3	119.5	113.2	81.2	54.7	78.1	73.4	42.2	42.9
87.5°	23.4	21.9	17.2	40.6	32.8	22.6	14.8	22.6	20.3	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949117
 CATALOG NUMBER: GALN-SB4A-722-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6	3784.6
2.5°	3741.6	3649.5	3558.1	3474.6	3423.8	3391.0	3358.3	3321.6	3307.5	3286.4
5°	3704.1	3526.1	3367.6	3231.0	3106.8	3009.2	2910.8	2831.2	2795.3	2819.5
7.5°	3682.3	3424.6	3180.2	2929.6	2688.3	2495.5	2327.6	2209.7	2156.6	2169.9
10°	3662.8	3309.8	2937.4	2541.5	2194.8	1955.9	1784.1	1694.4	1660.8	1667.8
12.5°	3644.8	3181.0	2644.6	2123.8	1755.3	1597.5	1548.3	1549.1	1555.4	1560.1
15°	3641.7	3025.6	2317.4	1758.4	1517.9	1507.7	1560.8	1594.4	1612.4	1617.8
17.5°	3637.0	2839.8	1984.0	1509.3	1460.1	1528.8	1578.0	1599.9	1613.9	1614.7
20°	3618.3	2604.0	1676.4	1390.6	1447.6	1507.0	1537.4	1554.6	1566.3	1570.2
22.5°	3560.5	2341.6	1436.7	1337.5	1397.6	1445.3	1481.2	1500.7	1507.7	1512.4
25°	3456.6	2048.1	1271.2	1286.8	1328.2	1388.3	1417.2	1421.1	1418.7	1425.8
27.5°	3320.8	1733.4	1168.1	1218.1	1271.2	1322.7	1338.3	1336.0	1331.3	1339.1
30°	3156.8	1450.7	1102.5	1140.8	1213.4	1260.2	1274.3	1268.8	1259.4	1268.0
32.5°	2983.5	1219.6	1048.6	1086.9	1165.7	1211.8	1225.9	1220.4	1213.4	1220.4
35°	2821.8	1058.0	998.7	1051.0	1128.3	1173.6	1191.5	1192.3	1192.3	1200.9
37.5°	2673.5	963.5	957.3	1028.3	1102.5	1143.1	1168.9	1170.4	1136.9	1139.2
40°	2536.1	923.7	938.5	1013.5	1077.5	1116.6	1118.1	1030.7	969.0	967.4
42.5°	2423.6	915.9	944.0	1011.9	1059.6	1061.1	951.0	883.1	865.9	866.7
45°	2318.2	913.5	956.5	1011.9	1033.0	916.7	842.5	824.5	826.1	832.3
47.5°	2200.3	904.2	958.8	997.9	956.5	815.2	793.3	785.5	782.4	783.9
50°	2071.5	870.6	929.2	969.8	825.3	771.4	744.1	741.8	745.7	748.0
52.5°	1935.6	815.9	878.4	919.0	765.2	733.2	702.7	708.2	725.4	730.8
55°	1846.6	751.9	811.3	817.5	723.0	697.3	671.5	684.0	716.0	726.2
57.5°	1823.2	684.0	734.7	727.7	669.2	666.0	650.4	661.3	701.9	716.8
60°	1816.2	623.1	659.8	654.3	616.8	631.7	627.8	633.2	647.3	652.0
62.5°	1761.5	574.7	592.6	584.8	570.0	595.8	605.1	593.4	604.3	609.8
65°	1622.5	535.6	527.0	521.6	527.8	551.2	570.0	546.6	556.7	572.3
67.5°	1393.0	482.5	459.1	465.4	484.9	497.4	521.6	495.0	503.6	530.2
70°	1126.7	415.4	394.3	412.3	431.0	456.8	460.7	442.7	463.0	492.7
72.5°	797.2	347.5	332.6	369.3	375.6	409.1	400.6	392.0	420.1	430.2
75°	552.8	280.3	271.7	299.8	322.5	351.4	345.1	355.3	414.6	419.3
77.5°	349.8	217.8	212.4	230.3	261.6	293.6	303.7	419.3	708.2	736.3
80°	203.0	162.4	156.2	170.2	197.5	227.2	292.8	514.6	466.9	461.5
82.5°	113.2	111.7	103.8	107.8	132.0	164.0	413.8	362.3	294.4	303.7
85°	53.1	65.6	56.2	53.9	74.2	192.1	276.4	206.9	137.4	134.3
87.5°	14.1	12.5	12.5	14.1	31.2	165.5	110.1	88.2	52.3	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)