

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: P951259

Luminaire Tested: **GALN-SB5C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951259
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-SB5C-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31784 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.5
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



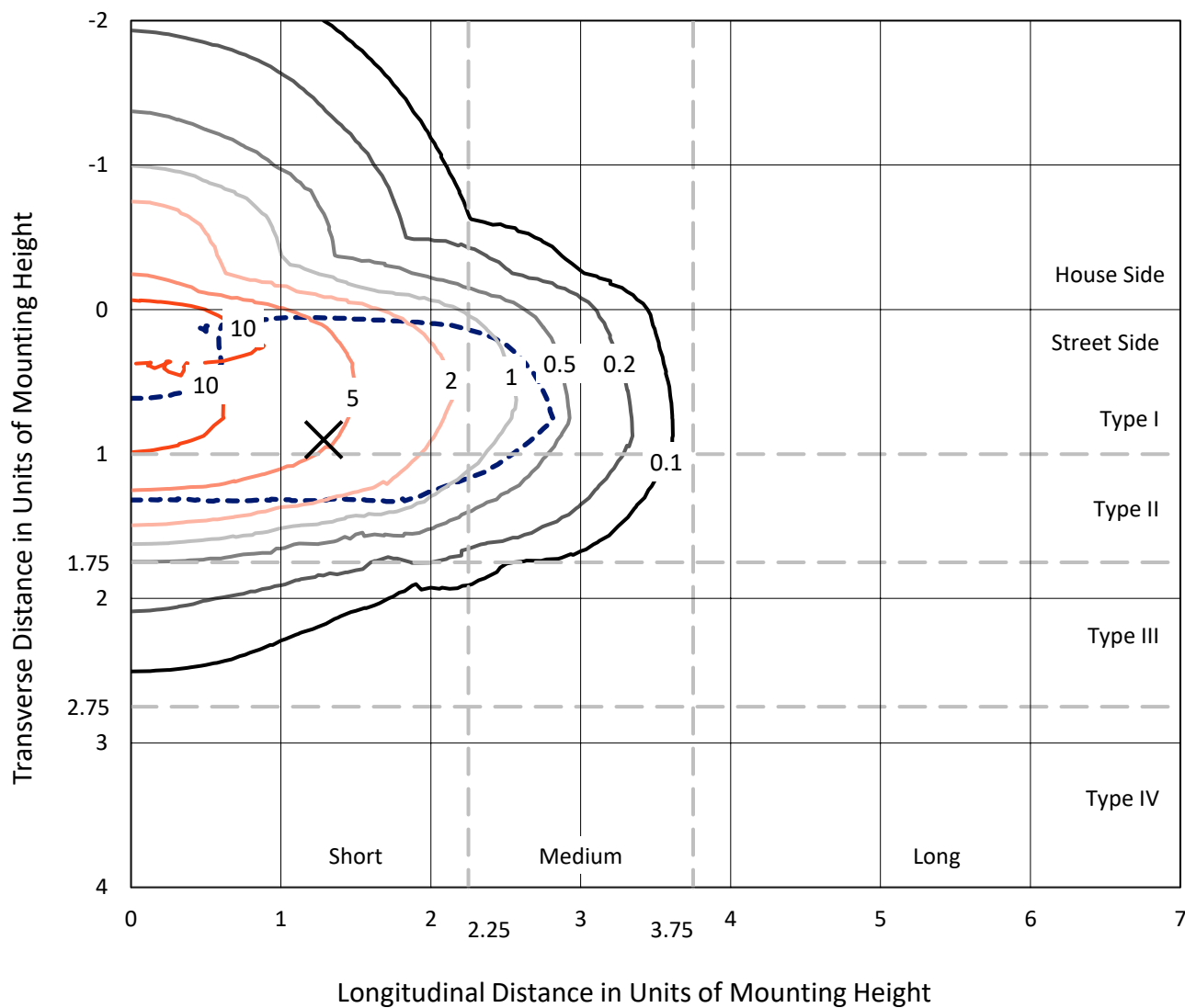
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

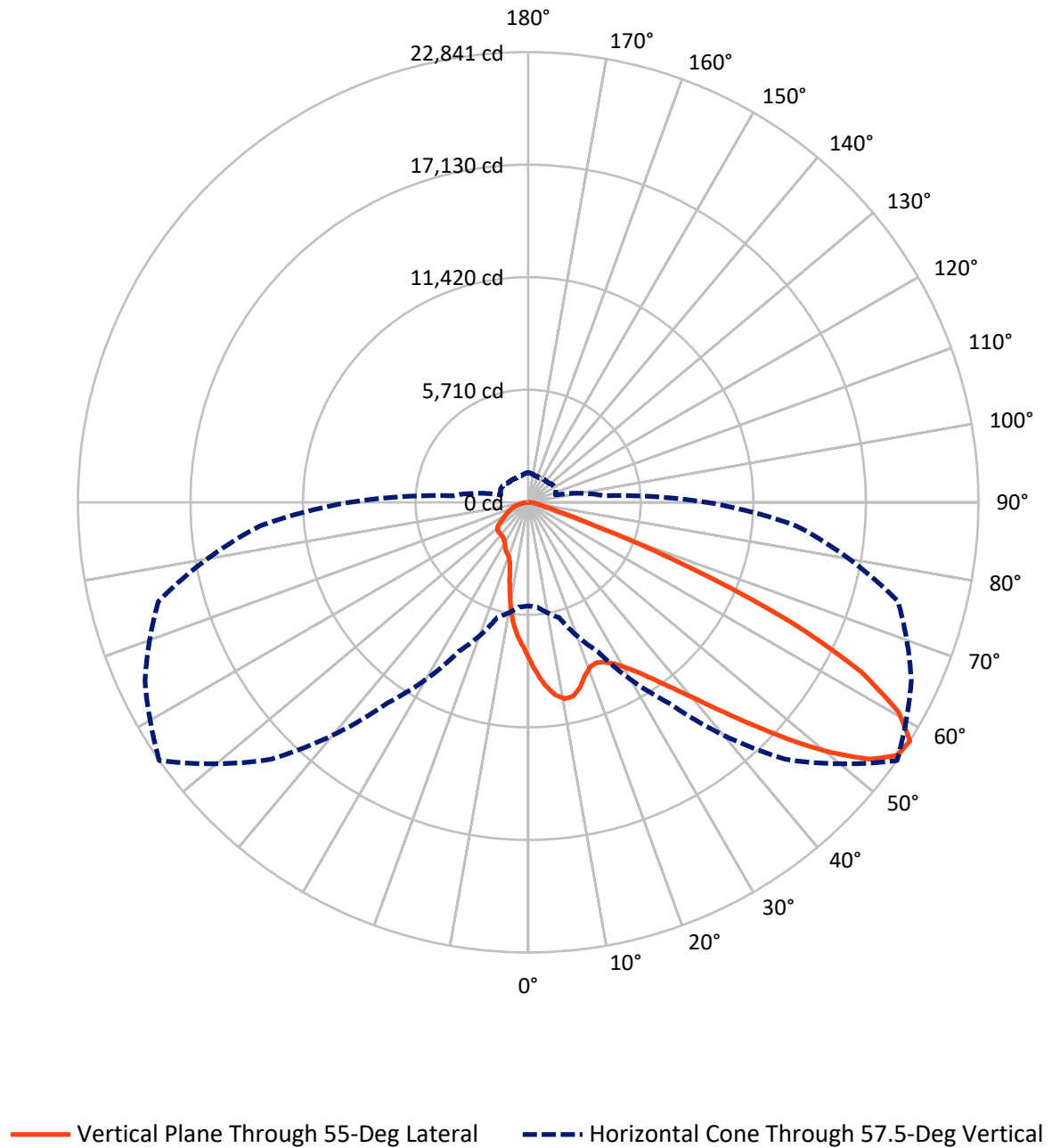


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5751.2	0.0	5751.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26032.8	0.0	26032.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	31784.0	0.0	31784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.0	2.3
10°-20°	1865.3	5.9
20°-30°	2976.5	9.4
30°-40°	4712.5	14.8
40°-50°	7213.0	22.7
50°-60°	7725.8	24.3
60°-70°	4860.4	15.3
70°-80°	1437.3	4.5
80°-90°	254.1	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°	31784.0	100.0
0°-180°	31784.0	100.0

Coefficient of Utilization



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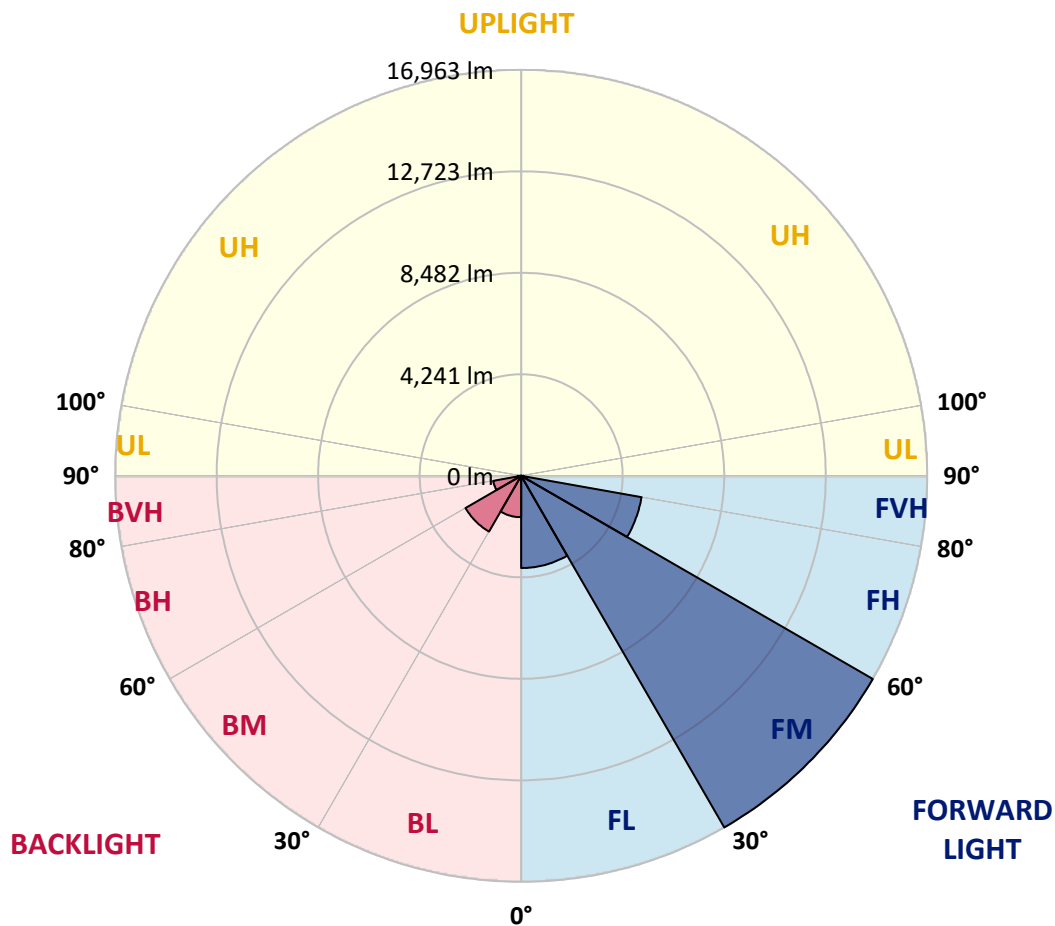
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3852.2	12.1			
FM	(30°-60°)	16963.4	53.4			
FH	(60°-80°)	5109.9	16.1			G3/7500
FVH	(80°-90°)	107.4	0.3			G2/225
BL	(0°-30°)	1728.6	5.4	B3/2500		
BM	(30°-60°)	2688.0	8.5	B3/5000		
BH	(60°-80°)	1187.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	146.8	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0
2.5°	9137.2	9130.6	9166.8	9043.5	8959.7	8846.4	8696.9	8506.3	8300.9	8084.0	7990.3
5°	9960.4	9902.9	9940.7	9848.7	9756.6	9585.8	9363.9	9053.4	8673.9	8241.7	8011.7
7.5°	9830.6	9791.2	9888.1	9970.2	10039.3	10017.9	9855.2	9529.9	9040.3	8412.6	8079.1
10°	8783.9	8739.6	8876.0	9160.2	9577.5	9940.7	10137.8	9935.7	9414.9	8599.9	8144.8
12.5°	7860.5	7839.2	7929.5	8159.6	8622.9	9319.6	10101.7	10290.6	9804.3	8821.7	8233.5
15°	7466.2	7439.9	7497.4	7614.1	7909.8	8558.8	9773.1	10533.8	10187.1	9078.1	8374.8
17.5°	7379.1	7349.5	7374.2	7435.0	7625.6	8120.1	9276.9	10653.8	10586.4	9363.9	8493.1
20°	7540.1	7515.5	7518.8	7515.5	7648.6	8041.3	8931.8	10607.8	10934.7	9626.8	8608.1
22.5°	7929.5	7888.5	7890.1	7803.0	7875.3	8179.3	8841.4	10484.5	11245.3	9856.9	8695.2
25°	8563.8	8489.8	8504.6	8282.8	8263.1	8488.2	8982.8	10389.2	11554.2	10040.9	8711.6
27.5°	9431.3	9347.5	9303.2	8972.9	8815.2	8926.9	9270.3	10422.1	11846.7	10200.3	8670.6
30°	10515.8	10413.9	10323.5	9855.2	9569.3	9528.3	9717.2	10639.0	12191.7	10367.9	8599.9
32.5°	11845.0	11726.7	11562.4	10941.3	10538.8	10323.5	10295.6	11025.1	12595.9	10581.5	8563.8
35°	13427.3	13272.9	13039.5	12236.1	11726.7	11286.4	11058.0	11582.1	13149.6	10903.5	8604.8
37.5°	15057.2	14883.1	14669.5	13713.2	13087.2	12438.2	11988.0	12337.9	13887.4	11340.6	8713.3
40°	16560.7	16365.1	16166.3	15315.2	14643.2	13861.1	13126.6	13294.2	14789.4	11863.1	8897.3
42.5°	17447.9	17303.3	17227.8	16767.7	16248.5	15454.9	14543.0	14427.9	15803.2	12464.5	9107.6
45°	17408.5	17349.3	17582.7	17773.3	17650.0	17209.7	16202.5	15681.6	16820.3	12985.3	9301.5
47.5°	16478.5	16517.9	17038.8	18110.1	18581.7	18811.7	18092.0	16912.3	17704.3	13374.7	9388.6
50°	13948.2	13981.0	15187.0	17497.2	18821.6	20117.9	19966.8	18113.4	18389.4	13613.0	9368.9
52.5°	11945.2	11966.6	12484.2	15680.0	18029.6	20775.2	21655.9	19245.5	18890.6	13678.7	9258.8
55°	8997.5	9071.5	9651.5	12301.8	15969.2	20254.3	22684.4	20412.1	19207.7	13685.3	9143.8
57.5°	5256.2	5336.7	6053.1	8350.2	12411.9	18438.7	22840.5	21447.2	19422.9	13632.7	9074.8
60°	2574.7	2609.2	2921.4	4388.7	7653.5	14940.6	21585.2	21948.3	19542.9	13604.8	9071.5
62.5°	1735.1	1730.2	1743.3	2165.6	3770.9	9598.9	18969.4	21070.9	19478.8	13498.0	9038.6
65°	1491.9	1473.8	1424.6	1519.9	1953.6	4390.3	14656.3	18451.9	18990.8	13230.1	8813.5
67.5°	1289.8	1291.5	1293.1	1263.5	1395.0	2025.9	8956.5	14534.7	17239.3	11961.7	7946.0
70°	1068.0	1082.8	1089.4	1089.4	1137.0	1329.3	3823.5	9962.0	13598.2	9378.7	6399.8
72.5°	972.7	941.5	944.8	928.3	928.3	1012.1	1539.6	5647.3	8567.1	5275.9	3905.6
75°	793.6	813.3	816.6	805.1	767.3	772.3	913.6	2369.3	3665.7	2188.6	1930.6
77.5°	685.2	685.2	691.7	683.5	653.9	578.4	609.6	918.5	1247.1	897.1	964.5
80°	550.4	548.8	576.7	593.2	547.1	427.2	389.4	507.7	553.7	394.3	501.1
82.5°	267.8	284.3	396.0	451.8	415.7	308.9	238.2	315.5	295.8	174.2	225.1
85°	156.1	147.9	177.5	251.4	238.2	170.9	115.0	164.3	154.5	88.7	90.4
87.5°	49.3	46.0	36.1	85.4	69.0	47.6	31.2	47.6	42.7	19.7	19.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0	7964.0
2.5°	7873.7	7679.8	7487.5	7311.7	7204.9	7135.9	7066.9	6989.7	6960.1	6915.7
5°	7794.8	7420.2	7086.6	6799.1	6537.8	6332.5	6125.4	5957.8	5882.2	5933.2
7.5°	7748.8	7206.6	6692.3	6164.9	5657.1	5251.3	4898.0	4649.9	4538.2	4566.1
10°	7707.7	6965.0	6181.3	5348.2	4618.7	4115.9	3754.5	3565.5	3494.8	3509.6
12.5°	7669.9	6693.9	5565.1	4469.2	3693.7	3361.8	3258.2	3259.9	3273.0	3282.9
15°	7663.4	6367.0	4876.7	3700.2	3194.2	3172.8	3284.5	3355.2	3393.0	3404.5
17.5°	7653.5	5975.9	4175.1	3176.1	3072.6	3217.2	3320.7	3366.7	3396.3	3397.9
20°	7614.1	5479.7	3527.7	2926.3	3046.3	3171.2	3235.2	3271.4	3296.0	3304.2
22.5°	7492.5	4927.6	3023.3	2814.6	2941.1	3041.4	3116.9	3158.0	3172.8	3182.7
25°	7273.9	4309.8	2674.9	2707.8	2794.9	2921.4	2982.2	2990.4	2985.5	3000.3
27.5°	6988.0	3647.7	2458.1	2563.2	2674.9	2783.4	2816.2	2811.3	2801.5	2817.9
30°	6643.0	3052.9	2320.0	2400.5	2553.4	2651.9	2681.5	2670.0	2650.3	2668.4
32.5°	6278.2	2566.5	2206.7	2287.2	2453.1	2550.1	2579.6	2568.1	2553.4	2568.1
35°	5938.1	2226.4	2101.5	2211.6	2374.3	2469.6	2507.3	2509.0	2509.0	2527.1
37.5°	5625.9	2027.6	2014.4	2163.9	2320.0	2405.5	2459.7	2463.0	2392.3	2397.3
40°	5336.7	1943.8	1975.0	2132.7	2267.5	2349.6	2352.9	2168.9	2039.1	2035.8
42.5°	5100.1	1927.3	1986.5	2129.4	2229.7	2233.0	2001.3	1858.3	1822.2	1823.8
45°	4878.3	1922.4	2012.8	2129.4	2173.8	1929.0	1772.9	1735.1	1738.4	1751.5
47.5°	4630.2	1902.7	2017.7	2099.9	2012.8	1715.4	1669.4	1652.9	1646.4	1649.7
50°	4359.1	1832.0	1955.3	2040.7	1736.7	1623.4	1565.9	1560.9	1569.1	1574.1
52.5°	4073.2	1717.0	1848.5	1933.9	1610.2	1542.9	1478.8	1490.3	1526.4	1537.9
55°	3885.9	1582.3	1707.2	1720.3	1521.5	1467.3	1413.1	1439.3	1506.7	1528.1
57.5°	3836.6	1439.3	1546.1	1531.4	1408.1	1401.6	1368.7	1391.7	1477.1	1508.4
60°	3821.8	1311.2	1388.4	1376.9	1298.0	1329.3	1321.0	1332.5	1362.1	1372.0
62.5°	3706.8	1209.3	1247.1	1230.7	1199.5	1253.7	1273.4	1248.7	1271.7	1283.3
65°	3414.3	1127.2	1109.1	1097.6	1110.7	1160.0	1199.5	1150.2	1171.5	1204.4
67.5°	2931.3	1015.4	966.1	979.3	1020.4	1046.6	1097.6	1041.7	1059.8	1115.7
70°	2371.0	874.1	829.8	867.5	907.0	961.2	969.4	931.6	974.4	1036.8
72.5°	1677.6	731.2	700.0	777.2	790.3	861.0	842.9	824.8	884.0	905.3
75°	1163.3	589.9	571.8	630.9	678.6	739.4	726.2	747.6	872.5	882.3
77.5°	736.1	458.4	446.9	484.7	550.4	617.8	639.2	882.3	1490.3	1549.4
80°	427.2	341.8	328.6	358.2	415.7	478.1	616.2	1082.8	982.6	971.1
82.5°	238.2	235.0	218.5	226.7	277.7	345.0	870.8	762.4	619.4	639.2
85°	111.7	138.0	118.3	113.4	156.1	404.2	581.7	435.4	289.2	282.6
87.5°	29.6	26.3	26.3	29.6	65.7	348.3	231.7	185.7	110.1	106.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)