

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: P955186

Luminaire Tested: **GALN-SB8B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955186
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-SB8B-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38255 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 292.8
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



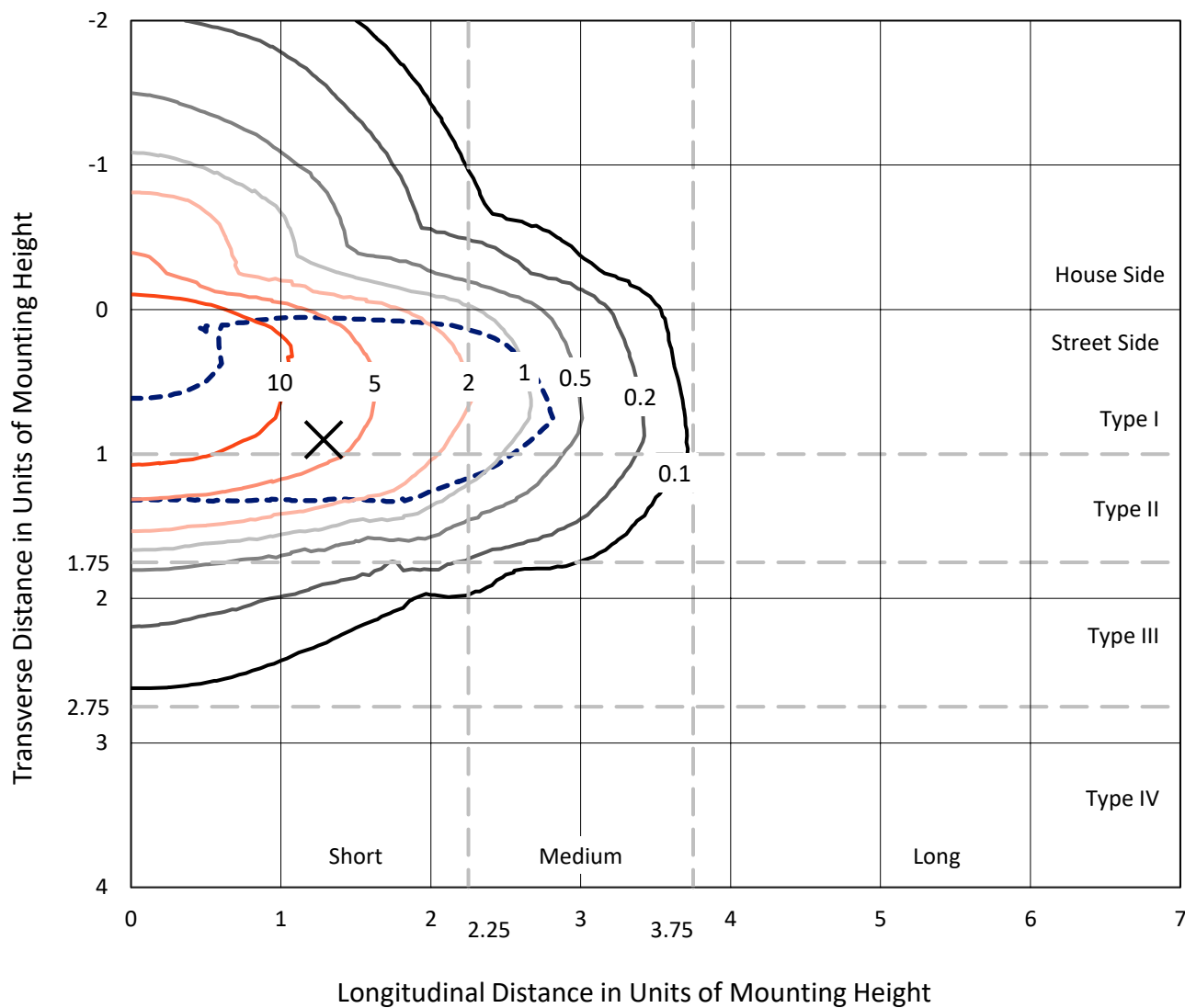
REPORT NUMBER: P955186

CATALOG NUMBER: GALN-SB8B-722-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

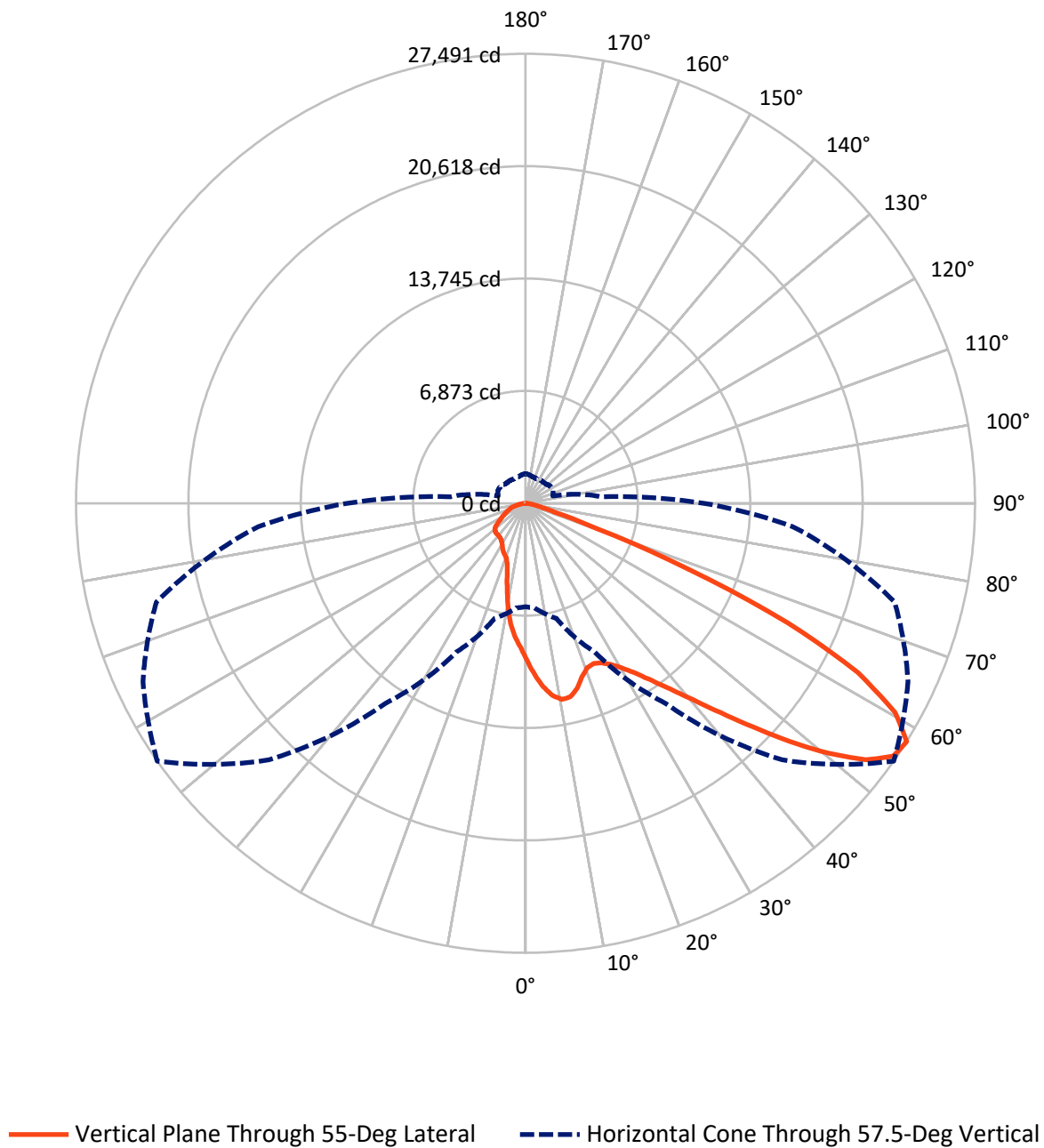


Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

REPORT NUMBER: P955186

CATALOG NUMBER: GALN-SB8B-722-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P955186

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6922.1	0.0	6922.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31333.0	0.0	31333.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	38255.0	0.0	38255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.5	2.3
10°-20°	2245.1	5.9
20°-30°	3582.5	9.4
30°-40°	5672.0	14.8
40°-50°	8681.5	22.7
50°-60°	9298.8	24.3
60°-70°	5849.9	15.3
70°-80°	1729.9	4.5
80°-90°	305.9	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°	38255.0	100.0
0°-180°	38255.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955186

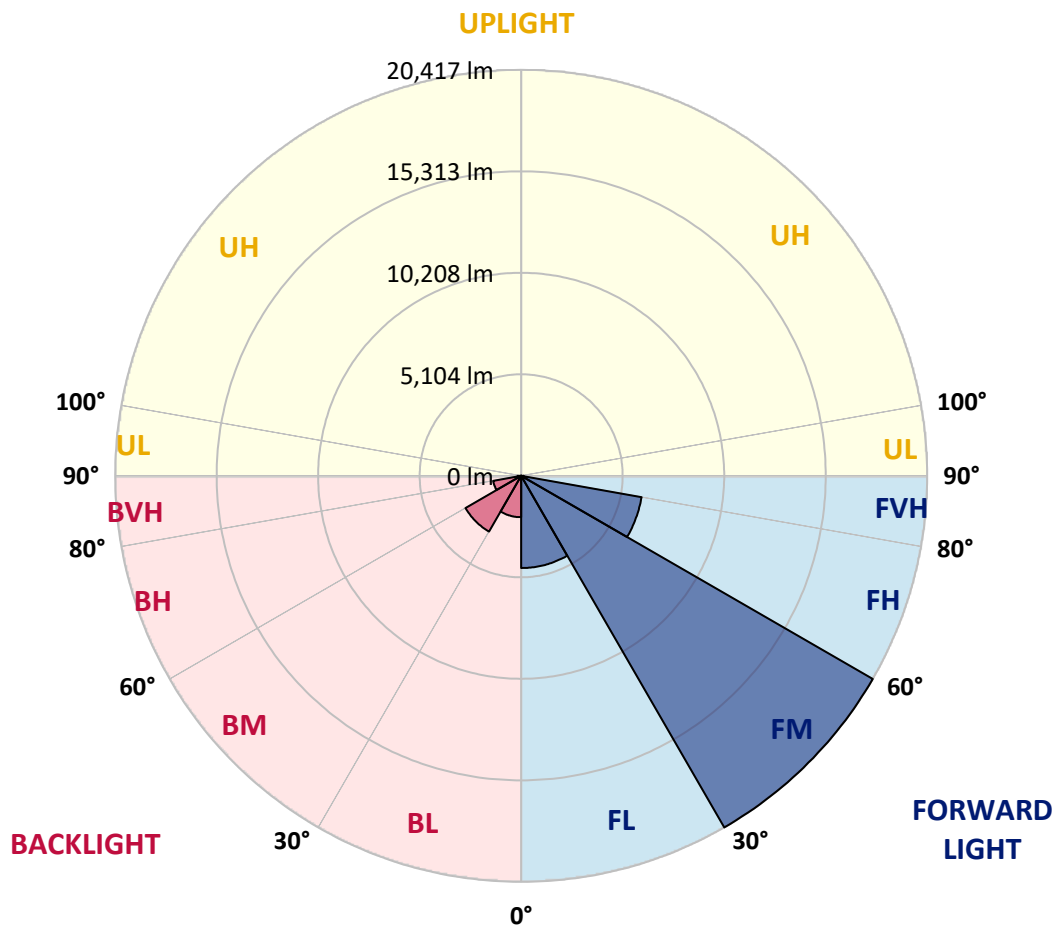
CATALOG NUMBER: GALN-SB8B-722-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4636.5	12.1			
FM	(30°-60°)	20417.0	53.4			
FH	(60°-80°)	6150.2	16.1			G3/7500
FVH	(80°-90°)	129.2	0.3			G2/225
BL	(0°-30°)	2080.5	5.4	B3/2500		
BM	(30°-60°)	3235.3	8.5	B3/5000		
BH	(60°-80°)	1429.6	3.7	B3/2500		G3/2500
BVH	(80°-90°)	176.6	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



REPORT NUMBER: P955186

CATALOG NUMBER: GALN-SB8B-722-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5
2.5°	10997.5	10989.6	11033.1	10884.7	10783.9	10647.4	10467.5	10238.1	9990.9	9729.8	9617.1
5°	11988.3	11919.0	11964.5	11853.8	11743.0	11537.4	11270.4	10896.6	10439.8	9919.7	9642.8
7.5°	11832.0	11784.6	11901.2	12000.1	12083.2	12057.5	11861.7	11470.1	10880.8	10125.3	9723.9
10°	10572.3	10518.9	10683.0	11025.2	11527.5	11964.5	12201.8	11958.6	11331.7	10350.8	9803.0
12.5°	9460.9	9435.2	9543.9	9820.8	10378.5	11217.0	12158.3	12385.8	11800.4	10617.8	9909.8
15°	8986.2	8954.6	9023.8	9164.2	9520.2	10301.4	11762.8	12678.4	12261.2	10926.3	10079.9
17.5°	8881.4	8845.8	8875.5	8948.7	9178.1	9773.3	11165.6	12822.8	12741.7	11270.4	10222.3
20°	9075.2	9045.6	9049.5	9045.6	9205.8	9678.4	10750.3	12767.4	13161.0	11586.8	10360.7
22.5°	9543.9	9494.5	9496.5	9391.7	9478.7	9844.5	10641.5	12619.1	13534.7	11863.7	10465.5
25°	10307.3	10218.3	10236.1	9969.1	9945.4	10216.3	10811.6	12504.4	13906.5	12085.2	10485.3
27.5°	11351.5	11250.6	11197.2	10799.7	10609.9	10744.3	11157.7	12544.0	14258.5	12277.0	10435.8
30°	12656.7	12534.1	12425.3	11861.7	11517.6	11468.1	11695.6	12805.0	14673.8	12478.7	10350.8
32.5°	14256.6	14114.2	13916.4	13168.9	12684.4	12425.3	12391.7	13269.7	15160.3	12735.8	10307.3
35°	16161.0	15975.1	15694.3	14727.2	14114.2	13584.2	13309.3	13940.2	15826.8	13123.4	10356.7
37.5°	18122.8	17913.2	17656.1	16505.1	15751.6	14970.5	14428.6	14849.9	16714.7	13649.4	10487.3
40°	19932.3	19697.0	19457.7	18433.3	17624.4	16683.1	15799.1	16000.8	17800.4	14278.3	10708.7
42.5°	21000.2	20826.2	20735.2	20181.5	19556.6	18601.4	17503.8	17365.4	19020.6	15002.1	10961.9
45°	20952.7	20881.6	21162.4	21391.8	21243.5	20713.5	19501.2	18874.3	20244.8	15629.0	11195.2
47.5°	19833.4	19880.9	20507.8	21797.2	22364.8	22641.6	21775.4	20355.5	21308.7	16097.7	11300.0
50°	16787.9	16827.5	18279.0	21059.5	22653.5	24213.8	24031.9	21801.1	22133.4	16384.5	11276.3
52.5°	14377.2	14402.9	15025.9	18872.3	21700.3	25004.9	26064.9	23163.7	22736.5	16463.6	11143.8
55°	10829.4	10918.4	11616.5	14806.3	19220.4	24378.0	27302.8	24567.8	23118.2	16471.5	11005.4
57.5°	6326.4	6423.3	7285.5	10050.2	14938.8	22192.7	27490.7	25813.7	23377.3	16408.2	10922.3
60°	3098.9	3140.4	3516.2	5282.2	9211.7	17982.4	25979.8	26416.9	23521.7	16374.6	10918.4
62.5°	2088.4	2082.4	2098.2	2606.5	4538.6	11553.2	22831.5	25360.8	23444.5	16246.0	10878.8
65°	1795.7	1773.9	1714.6	1829.3	2351.4	5284.2	17640.3	22208.5	22857.2	15923.7	10607.9
67.5°	1552.4	1554.4	1556.4	1520.8	1679.0	2438.4	10779.9	17493.9	20749.1	14397.0	9563.7
70°	1285.4	1303.2	1311.2	1311.2	1368.5	1599.9	4601.9	11990.2	16366.7	11288.2	7702.8
72.5°	1170.7	1133.2	1137.1	1117.3	1117.3	1218.2	1853.0	6797.0	10311.2	6350.1	4700.8
75°	955.2	978.9	982.9	969.0	923.5	929.5	1099.5	2851.7	4412.0	2634.2	2323.7
77.5°	824.7	824.7	832.6	822.7	787.1	696.1	733.7	1105.5	1501.0	1079.8	1160.9
80°	662.5	660.5	694.1	713.9	658.5	514.2	468.7	611.1	666.5	474.6	603.2
82.5°	322.3	342.1	476.6	543.8	500.3	371.8	286.8	379.7	356.0	209.6	270.9
85°	187.9	178.0	213.6	302.6	286.8	205.7	138.4	197.8	185.9	106.8	108.8
87.5°	59.3	55.4	43.5	102.8	83.1	57.4	37.6	57.4	51.4	23.7	23.7
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: P955186

CATALOG NUMBER: GALN-SB8B-722-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5	9585.5
2.5°	9476.7	9243.3	9012.0	8800.4	8671.8	8588.7	8505.7	8412.7	8377.1	8323.7
5°	9381.8	8930.9	8529.4	8183.3	7868.9	7621.7	7372.5	7170.8	7079.8	7141.1
7.5°	9326.4	8673.8	8054.8	7420.0	6808.9	6320.4	5895.2	5596.6	5462.2	5495.8
10°	9277.0	8383.1	7439.8	6437.1	5559.1	4953.9	4518.8	4291.4	4206.4	4224.2
12.5°	9231.5	8056.8	6698.2	5379.1	4445.7	4046.2	3921.6	3923.6	3939.4	3951.3
15°	9223.6	7663.2	5869.5	4453.6	3844.5	3818.8	3953.2	4038.3	4083.8	4097.6
17.5°	9211.7	7192.6	5025.1	3822.7	3698.1	3872.2	3996.7	4052.1	4087.7	4089.7
20°	9164.2	6595.3	4245.9	3522.1	3666.5	3816.8	3893.9	3937.4	3967.1	3977.0
22.5°	9017.9	5930.8	3638.8	3387.6	3539.9	3660.6	3751.5	3801.0	3818.8	3830.6
25°	8754.9	5187.3	3219.5	3259.1	3363.9	3516.2	3589.4	3599.2	3593.3	3611.1
27.5°	8410.8	4390.3	2958.5	3085.1	3219.5	3350.1	3389.6	3383.7	3371.8	3391.6
30°	7995.5	3674.4	2792.4	2889.3	3073.2	3191.9	3227.5	3213.6	3189.9	3211.6
32.5°	7556.4	3089.0	2655.9	2752.8	2952.6	3069.2	3104.8	3091.0	3073.2	3091.0
35°	7147.1	2679.7	2529.4	2661.9	2857.6	2972.3	3017.8	3019.8	3019.8	3041.6
37.5°	6771.3	2440.4	2424.5	2604.5	2792.4	2895.2	2960.5	2964.4	2879.4	2885.3
40°	6423.3	2339.5	2377.1	2566.9	2729.1	2828.0	2831.9	2610.4	2454.2	2450.3
42.5°	6138.5	2319.7	2390.9	2563.0	2683.6	2687.6	2408.7	2236.7	2193.2	2195.1
45°	5871.5	2313.8	2422.6	2563.0	2616.4	2321.7	2133.8	2088.4	2092.3	2108.1
47.5°	5572.9	2290.1	2428.5	2527.4	2422.6	2064.6	2009.2	1989.5	1981.6	1985.5
50°	5246.6	2205.0	2353.4	2456.2	2090.3	1953.9	1884.7	1878.7	1888.6	1894.5
52.5°	4902.5	2066.6	2224.8	2327.6	1938.1	1857.0	1779.8	1793.7	1837.2	1851.0
55°	4677.0	1904.4	2054.7	2070.6	1831.3	1766.0	1700.7	1732.4	1813.5	1839.2
57.5°	4617.7	1732.4	1860.9	1843.1	1694.8	1686.9	1647.3	1675.0	1777.9	1815.4
60°	4599.9	1578.1	1671.1	1657.2	1562.3	1599.9	1590.0	1603.8	1639.4	1651.3
62.5°	4461.5	1455.5	1501.0	1481.2	1443.7	1508.9	1532.6	1503.0	1530.7	1544.5
65°	4109.5	1356.6	1334.9	1321.0	1336.9	1396.2	1443.7	1384.3	1410.0	1449.6
67.5°	3528.1	1222.2	1162.8	1178.7	1228.1	1259.7	1321.0	1253.8	1275.6	1342.8
70°	2853.7	1052.1	998.7	1044.2	1091.6	1156.9	1166.8	1121.3	1172.7	1247.9
72.5°	2019.1	880.0	842.5	935.4	951.2	1036.3	1014.5	992.8	1064.0	1089.7
75°	1400.1	710.0	688.2	759.4	816.8	889.9	874.1	899.8	1050.1	1062.0
77.5°	886.0	551.8	537.9	583.4	662.5	743.6	769.3	1062.0	1793.7	1864.9
80°	514.2	411.3	395.5	431.1	500.3	575.5	741.6	1303.2	1182.6	1168.8
82.5°	286.8	282.8	263.0	272.9	334.2	415.3	1048.1	917.6	745.6	769.3
85°	134.5	166.1	142.4	136.5	187.9	486.5	700.1	524.1	348.1	340.1
87.5°	35.6	31.6	31.6	35.6	79.1	419.3	278.8	223.5	132.5	128.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)