

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: P956257

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956257
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-SB9A-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 34327 lumens
Efficiency: N/A
Efficacy: 134.4 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): 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

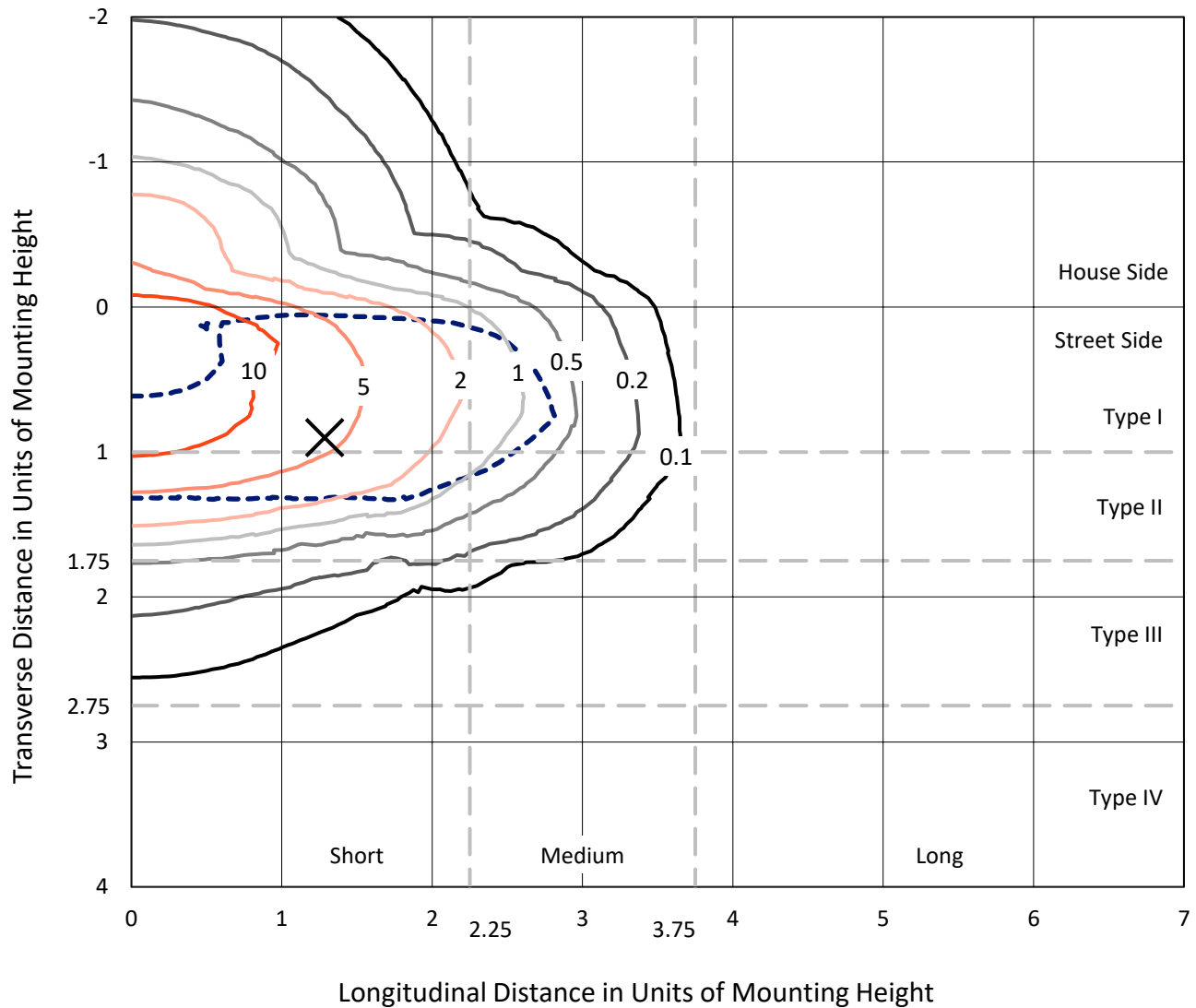


REPORT NUMBER: P956257

CATALOG NUMBER: GALN-SB9A-722-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

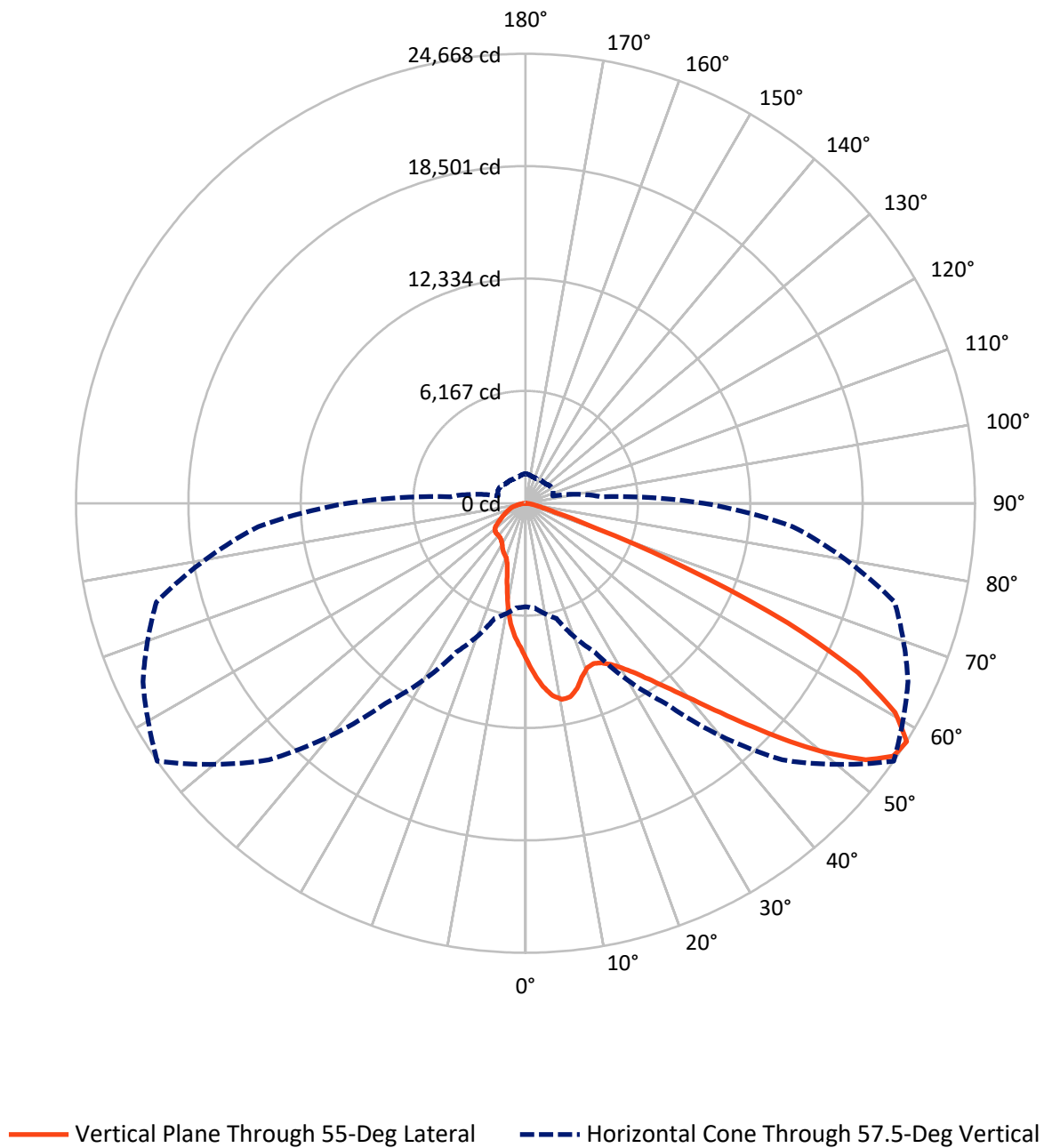


Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type II - Short - N/A

REPORT NUMBER: P956257

CATALOG NUMBER: GALN-SB9A-722-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P956257

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6211.3	0.0	6211.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28115.7	0.0	28115.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	34327.0	0.0	34327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	2.3
10°-20°	2014.6	5.9
20°-30°	3214.7	9.4
30°-40°	5089.6	14.8
40°-50°	7790.1	22.7
50°-60°	8344.0	24.3
60°-70°	5249.2	15.3
70°-80°	1552.3	4.5
80°-90°	274.5	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°	34327.0	100.0
0°-180°	34327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956257

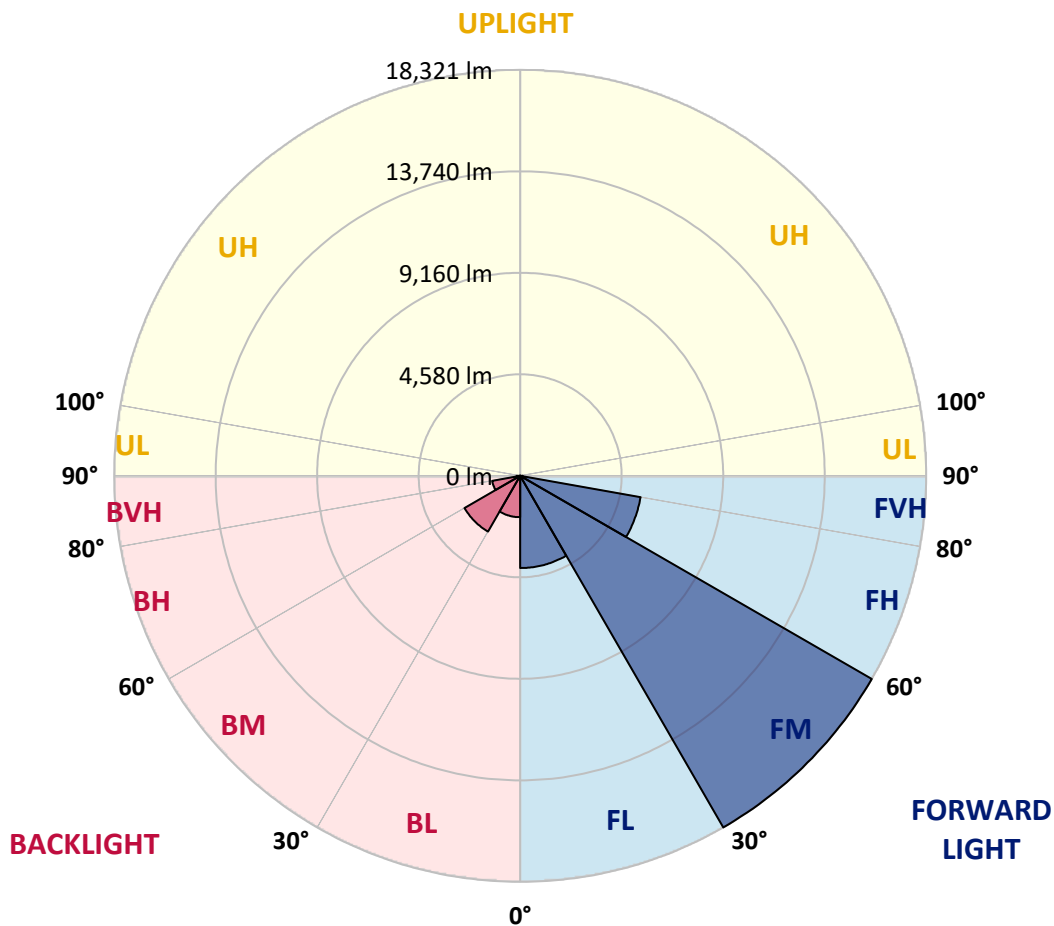
CATALOG NUMBER: GALN-SB9A-722-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4160.4	12.1			
FM	(30°-60°)	18320.6	53.4			
FH	(60°-80°)	5518.7	16.1			G3/7500
FVH	(80°-90°)	116.0	0.3			G2/225
BL	(0°-30°)	1866.9	5.4	B3/2500		
BM	(30°-60°)	2903.1	8.5	B3/5000		
BH	(60°-80°)	1282.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	158.5	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: P956257

CATALOG NUMBER: GALN-SB9A-722-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2
2.5°	9868.3	9861.2	9900.2	9767.1	9676.6	9554.2	9392.7	9186.8	8965.0	8730.8	8629.6
5°	10757.3	10695.2	10736.0	10636.6	10537.3	10352.7	10113.1	9777.8	9367.8	8901.1	8652.7
7.5°	10617.1	10574.5	10679.2	10768.0	10842.5	10819.4	10643.7	10292.4	9763.6	9085.7	8725.5
10°	9486.7	9438.8	9586.1	9893.1	10343.8	10736.0	10949.0	10730.7	10168.2	9288.0	8796.4
12.5°	8489.4	8466.4	8564.0	8812.4	9312.8	10065.2	10909.9	11114.0	10588.7	9527.5	8892.3
15°	8063.5	8035.2	8097.3	8223.3	8542.7	9243.6	10555.0	11376.6	11002.2	9804.4	9044.9
17.5°	7969.5	7937.6	7964.2	8029.8	8235.7	8769.8	10019.1	11506.2	11433.4	10113.1	9172.6
20°	8143.4	8116.8	8120.3	8116.8	8260.5	8684.6	9646.4	11456.5	11809.6	10397.1	9296.9
22.5°	8564.0	8519.6	8521.4	8427.3	8505.4	8833.7	9548.8	11323.4	12145.0	10645.5	9390.9
25°	9248.9	9169.1	9185.1	8945.5	8924.2	9167.3	9701.5	11220.5	12478.6	10844.3	9408.7
27.5°	10185.9	10095.4	10047.5	9690.8	9520.4	9641.1	10012.0	11256.0	12794.5	11016.4	9364.3
30°	11357.1	11247.1	11149.5	10643.7	10335.0	10290.6	10494.7	11490.2	13167.1	11197.4	9288.0
32.5°	12792.7	12664.9	12487.5	11816.7	11381.9	11149.5	11119.3	11907.2	13603.7	11428.1	9248.9
35°	14501.6	14334.8	14082.8	13215.1	12664.9	12189.4	11942.7	12508.8	14201.7	11775.9	9293.3
37.5°	16262.0	16073.9	15843.2	14810.4	14134.3	13433.3	12947.1	13325.1	14998.5	12247.9	9410.4
40°	17885.7	17674.5	17459.8	16540.6	15814.8	14970.1	14176.9	14357.9	15972.7	12812.2	9609.2
42.5°	18843.9	18687.8	18606.1	18109.3	17548.5	16691.4	15706.5	15582.3	17067.6	13461.7	9836.3
45°	18801.3	18737.4	18989.4	19195.3	19062.2	18586.6	17498.8	16936.3	18166.0	14024.2	10045.7
47.5°	17796.9	17839.5	18402.1	19559.1	20068.4	20316.8	19539.5	18265.4	19120.7	14444.8	10139.8
50°	15064.1	15099.6	16402.1	18897.2	20327.4	21727.6	21564.3	19562.6	19860.7	14702.1	10118.5
52.5°	12901.0	12924.0	13483.0	16934.5	19472.1	22437.4	23388.5	20785.3	20402.0	14773.1	9999.6
55°	9717.4	9797.3	10423.7	13286.0	17246.8	21874.8	24499.4	22045.2	20744.5	14780.2	9875.4
57.5°	5676.8	5763.7	6537.4	9018.3	13404.9	19914.0	24668.0	23163.2	20976.9	14723.4	9800.8
60°	2780.7	2818.0	3155.1	4739.8	8265.8	16136.0	23312.2	23704.4	21106.5	14693.3	9797.3
62.5°	1873.9	1868.6	1882.8	2338.9	4072.6	10366.9	20487.2	22756.8	21037.3	14577.9	9761.8
65°	1611.3	1591.8	1538.5	1641.5	2109.9	4741.6	15829.0	19928.2	20510.2	14288.7	9518.7
67.5°	1393.0	1394.8	1396.6	1364.6	1506.6	2188.0	9673.1	15697.6	18618.6	12918.7	8581.7
70°	1153.5	1169.4	1176.5	1176.5	1228.0	1435.6	4129.4	10759.1	14686.2	10129.1	6911.9
72.5°	1050.5	1016.8	1020.4	1002.6	1002.6	1093.1	1662.8	6099.1	9252.5	5698.1	4218.1
75°	857.1	878.4	882.0	869.5	828.7	834.0	986.6	2558.9	3959.0	2363.7	2085.1
77.5°	740.0	740.0	747.1	738.2	706.3	624.6	658.4	992.0	1346.9	968.9	1041.7
80°	594.5	592.7	622.9	640.6	590.9	461.4	420.6	548.3	598.0	425.9	541.2
82.5°	289.3	307.0	427.7	488.0	449.0	333.6	257.3	340.7	319.4	188.1	243.1
85°	168.6	159.7	191.7	271.5	257.3	184.6	124.2	177.5	166.8	95.8	97.6
87.5°	53.2	49.7	39.0	92.3	74.5	51.5	33.7	51.5	46.1	21.3	21.3
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: P956257

CATALOG NUMBER: GALN-SB9A-722-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2	8601.2
2.5°	8503.6	8294.2	8086.6	7896.7	7781.4	7706.9	7632.3	7548.9	7517.0	7469.1
5°	8418.5	8013.9	7653.6	7343.1	7060.9	6839.1	6615.5	6434.5	6352.9	6407.9
7.5°	8368.8	7783.2	7227.7	6658.1	6109.8	5671.5	5289.9	5022.0	4901.3	4931.5
10°	8324.4	7522.3	6675.8	5776.2	4988.3	4445.2	4054.8	3850.8	3774.5	3790.4
12.5°	8283.6	7229.5	6010.4	4826.8	3989.2	3630.7	3518.9	3520.7	3534.9	3545.5
15°	8276.5	6876.4	5266.9	3996.3	3449.7	3426.7	3547.3	3623.6	3664.4	3676.9
17.5°	8265.8	6454.0	4509.1	3430.2	3318.4	3474.6	3586.4	3636.0	3668.0	3669.8
20°	8223.3	5918.1	3810.0	3160.5	3290.0	3424.9	3494.1	3533.1	3559.7	3568.6
22.5°	8091.9	5321.9	3265.2	3039.8	3176.4	3284.7	3366.3	3410.7	3426.7	3437.3
25°	7855.9	4654.6	2889.0	2924.5	3018.5	3155.1	3220.8	3229.7	3224.4	3240.3
27.5°	7547.2	3939.5	2654.7	2768.3	2889.0	3006.1	3041.6	3036.3	3025.6	3043.3
30°	7174.5	3297.1	2505.7	2592.6	2757.6	2864.1	2896.1	2883.6	2862.3	2881.9
32.5°	6780.5	2771.8	2383.2	2470.2	2649.4	2754.1	2786.0	2773.6	2757.6	2773.6
35°	6413.2	2404.5	2269.6	2388.5	2564.2	2667.1	2708.0	2709.7	2709.7	2729.3
37.5°	6076.1	2189.8	2175.6	2337.1	2505.7	2597.9	2656.5	2660.0	2583.7	2589.1
40°	5763.7	2099.3	2133.0	2303.4	2448.9	2537.6	2541.2	2342.4	2202.2	2198.7
42.5°	5508.2	2081.5	2145.4	2299.8	2408.1	2411.6	2161.4	2007.0	1968.0	1969.7
45°	5268.6	2076.2	2173.8	2299.8	2347.7	2083.3	1914.7	1873.9	1877.5	1891.7
47.5°	5000.7	2054.9	2179.1	2267.9	2173.8	1852.6	1802.9	1785.2	1778.1	1781.6
50°	4707.9	1978.6	2111.7	2204.0	1875.7	1753.3	1691.1	1685.8	1694.7	1700.0
52.5°	4399.1	1854.4	1996.4	2088.6	1739.1	1666.3	1597.1	1609.5	1648.6	1661.0
55°	4196.8	1708.9	1843.8	1858.0	1643.2	1584.7	1526.1	1554.5	1627.3	1650.3
57.5°	4143.6	1554.5	1669.8	1653.9	1520.8	1513.7	1478.2	1503.0	1595.3	1629.0
60°	4127.6	1416.1	1499.5	1487.1	1401.9	1435.6	1426.7	1439.2	1471.1	1481.7
62.5°	4003.4	1306.1	1346.9	1329.1	1295.4	1354.0	1375.3	1348.7	1373.5	1385.9
65°	3687.5	1217.3	1197.8	1185.4	1199.6	1252.8	1295.4	1242.2	1265.3	1300.7
67.5°	3165.8	1096.7	1043.4	1057.6	1102.0	1130.4	1185.4	1125.1	1144.6	1204.9
70°	2560.7	944.1	896.1	937.0	979.6	1038.1	1047.0	1006.2	1052.3	1119.7
72.5°	1811.8	789.7	756.0	839.4	853.6	929.9	910.3	890.8	954.7	977.8
75°	1256.4	637.1	617.5	681.4	732.9	798.5	784.4	807.4	942.3	952.9
77.5°	795.0	495.1	482.7	523.5	594.5	667.2	690.3	952.9	1609.5	1673.4
80°	461.4	369.1	354.9	386.9	449.0	516.4	665.5	1169.4	1061.2	1048.8
82.5°	257.3	253.8	236.0	244.9	299.9	372.7	940.5	823.4	669.0	690.3
85°	120.7	149.1	127.8	122.4	168.6	436.5	628.2	470.3	312.3	305.2
87.5°	31.9	28.4	28.4	31.9	71.0	376.2	250.2	200.5	118.9	115.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)