

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: P456690

Luminaire Tested: **GALN-SA8A-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31186 lumens
Efficiency: N/A
Efficacy: 127.8 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

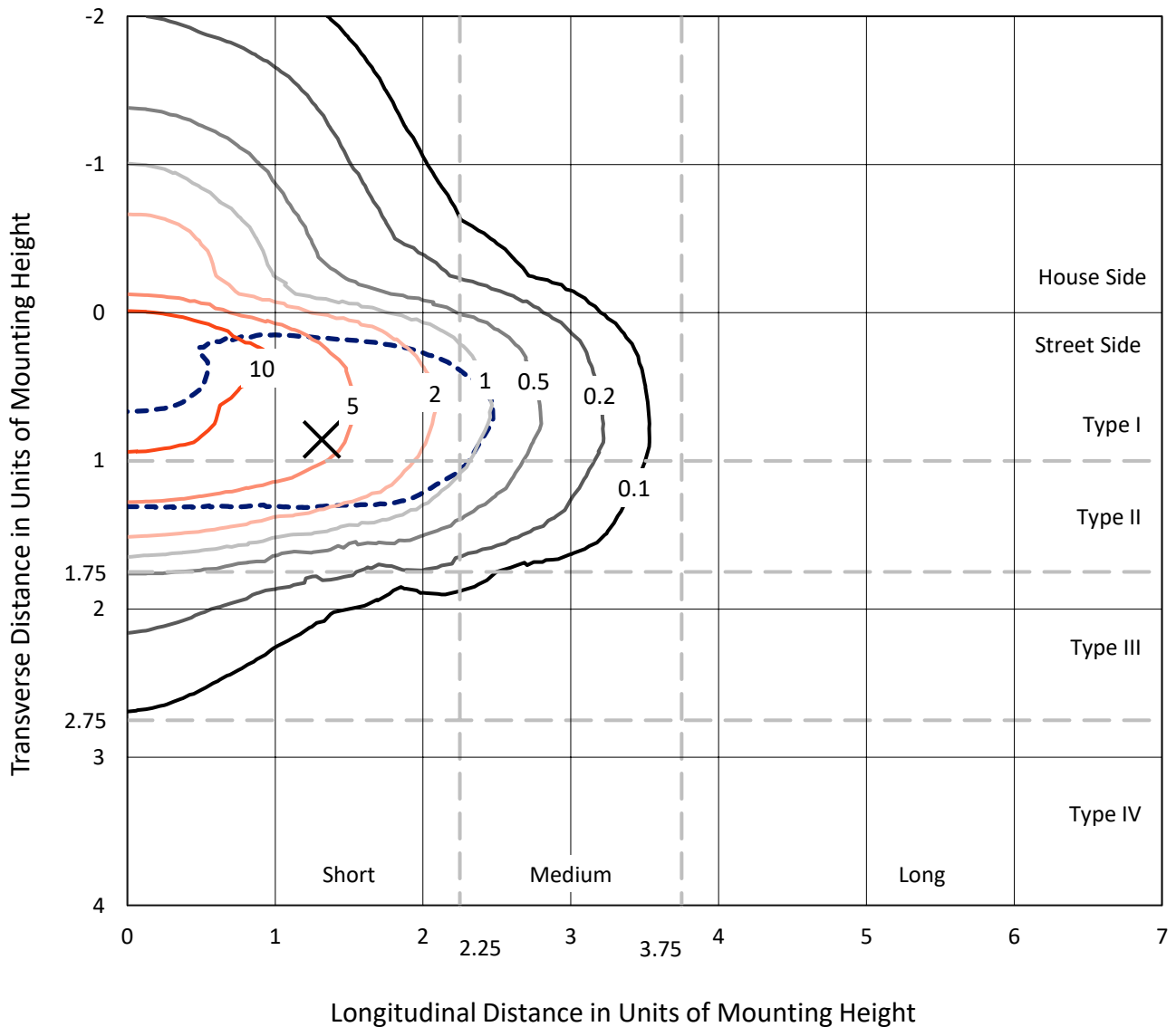
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456690
 CATALOG NUMBER: GALN-SA8A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

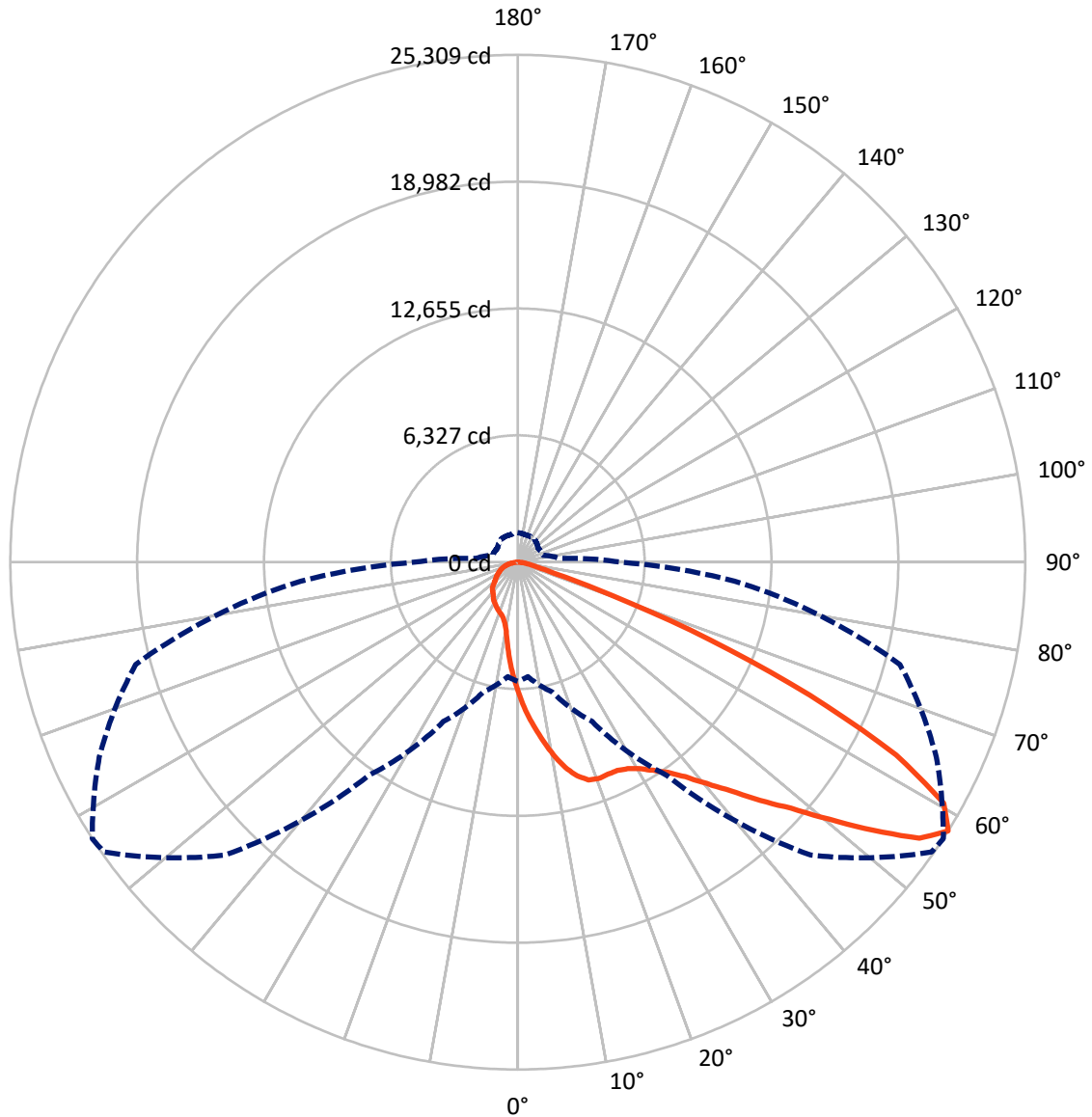
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P456690
CATALOG NUMBER: GALN-SA8A-727-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P456690

CATALOG NUMBER: GALN-SA8A-727-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4742.5	0.0	4742.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	26443.5	0.0	26443.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	31186.0	0.0	31186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.7	2.0
10°-20°	1855.7	6.0
20°-30°	3081.5	9.9
30°-40°	4641.6	14.9
40°-50°	6969.0	22.3
50°-60°	7811.3	25.0
60°-70°	4571.6	14.7
70°-80°	1352.2	4.3
80°-90°	273.3	0.9
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°	31186.0	100.0
0°-180°	31186.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456690

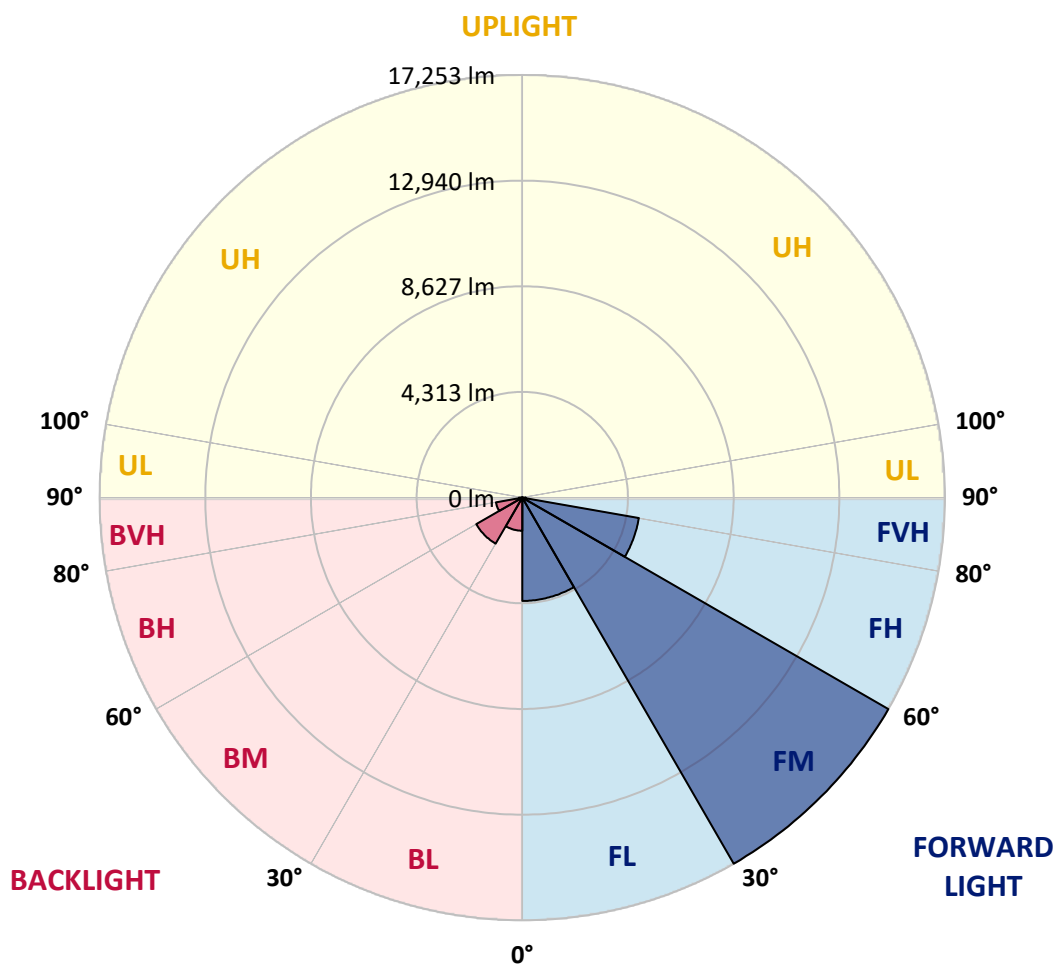
CATALOG NUMBER: GALN-SA8A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4215.6	13.5			
FM	(30°-60°)	17253.5	55.3			
FH	(60°-80°)	4832.6	15.5			G2/5000
FVH	(80°-90°)	141.8	0.5			G2/225
BL	(0°-30°)	1351.3	4.3	B3/2500		
BM	(30°-60°)	2168.5	7.0	B2/2500		
BH	(60°-80°)	1091.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	131.5	0.4			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: P456690

CATALOG NUMBER: GALN-SA8A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8
2.5°	8141.1	8052.4	7982.4	7920.9	7840.7	7623.9	7407.1	7403.7	7231.2	6964.9	6691.8
5°	9467.5	9348.0	9363.4	9172.2	8981.0	8666.9	8207.7	8183.8	7816.8	7318.3	6811.3
7.5°	10331.3	10333.0	10285.2	10176.0	9969.4	9612.6	9092.0	8974.2	8463.8	7707.5	6947.9
10°	10286.9	10333.0	10413.3	10507.2	10570.3	10394.5	9919.9	9776.5	9112.5	8178.7	7099.8
12.5°	9696.3	9768.0	9882.4	10117.9	10498.6	10788.8	10626.7	10510.6	9863.6	8648.1	7267.1
15°	9327.6	9370.2	9433.4	9592.2	10001.9	10696.6	11116.6	11055.1	10572.0	9179.0	7454.9
17.5°	9214.9	9257.6	9278.0	9375.4	9667.3	10379.1	11309.5	11418.7	11200.2	9667.3	7644.4
20°	9327.6	9348.0	9348.0	9406.1	9634.8	10193.1	11301.0	11521.2	11715.8	10252.8	7821.9
22.5°	9622.9	9631.4	9619.5	9640.0	9810.7	10244.3	11220.7	11493.9	12132.3	10749.6	7960.2
25°	10102.6	10116.2	10037.7	9989.9	10114.5	10469.6	11265.1	11516.0	12458.4	11224.1	8052.4
27.5°	10647.1	10664.2	10568.6	10457.6	10515.7	10747.9	11439.2	11664.6	12702.5	11691.9	8110.4
30°	11314.6	11321.4	11161.0	11027.8	10990.3	11162.7	11736.3	11946.2	13006.3	12243.3	8197.5
32.5°	11997.4	12048.7	11842.1	11654.3	11591.2	11644.1	12175.0	12378.1	13368.2	12835.6	8337.4
35°	12926.1	12934.6	12687.1	12458.4	12250.1	12318.4	12736.6	12883.4	13868.4	13520.2	8535.5
37.5°	14085.2	14163.7	13822.3	13395.6	13139.5	13040.5	13416.0	13576.5	14570.0	14360.1	8834.2
40°	15372.4	15401.4	15109.5	14843.2	14375.4	14088.6	14348.1	14522.2	15435.5	15362.1	9180.7
42.5°	16181.5	16244.7	16266.9	16239.6	15887.9	15406.5	15505.5	15587.5	16459.8	16302.7	9535.8
45°	16454.7	16548.6	16866.1	17538.7	17576.2	17101.7	16871.2	16949.7	17576.2	17251.9	9875.5
47.5°	16002.3	16162.8	16748.3	18127.6	19160.4	19196.3	18501.5	18329.1	18593.7	18038.8	10121.4
50°	14832.9	14867.1	15763.3	17760.6	19903.0	21198.7	20480.0	20159.1	19559.9	18621.0	10290.4
52.5°	13023.4	13062.7	13813.8	16055.2	19445.5	22598.5	22794.8	22221.2	20541.4	19073.3	10401.3
55°	9667.3	9894.3	10720.5	12886.8	17277.5	22467.0	24635.1	24309.0	21727.9	19431.8	10575.4
57.5°	5944.1	5735.8	6715.7	8767.6	12994.4	20660.9	25203.5	25309.4	23033.8	19732.3	10867.4
60°	2734.8	2775.7	3180.3	4522.1	7920.9	16162.8	23738.8	24408.0	23755.9	19722.0	10940.8
62.5°	1884.6	1847.1	1744.6	1985.3	3612.2	10222.1	20051.5	21185.0	22308.3	19109.2	10648.8
65°	1684.9	1647.3	1449.3	1382.7	1659.3	4455.5	14576.9	16007.4	18783.1	17562.6	9921.6
67.5°	1573.9	1522.7	1317.9	1188.1	1184.7	1773.7	8595.2	10317.7	13931.6	14848.3	8596.9
70°	1457.9	1416.9	1213.7	1070.3	1008.9	1114.7	3777.8	4945.4	9045.9	10700.1	6696.9
72.5°	1341.8	1294.0	1111.3	957.7	877.4	834.8	1447.6	1882.9	5111.0	6415.3	4105.6
75°	1172.8	1148.9	993.5	867.2	780.1	674.3	918.4	1048.2	2444.6	2946.4	2060.5
77.5°	1026.0	1000.4	882.6	757.9	694.8	548.0	652.1	711.9	1031.1	1195.0	930.4
80°	751.1	776.7	744.3	669.2	619.7	430.2	438.7	488.2	612.8	677.7	568.5
82.5°	476.3	524.1	573.6	515.5	469.5	339.7	303.9	322.6	418.2	443.8	252.6
85°	199.7	203.1	332.9	314.1	268.0	201.4	182.7	192.9	223.6	233.9	117.8
87.5°	76.8	75.1	117.8	109.3	83.6	58.0	58.0	64.9	88.8	81.9	37.6
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: P456690
 CATALOG NUMBER: GALN-SA8A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8	6551.8
2.5°	6574.0	6452.8	6212.1	5913.4	5694.9	5449.0	5232.2	5076.9	5018.9	4991.5	4940.3
5°	6568.9	6329.9	5831.4	5309.1	4889.1	4458.9	4095.3	3859.7	3839.3	3682.2	3666.8
7.5°	6570.6	6205.3	5411.5	4643.3	4003.1	3562.7	3262.3	3183.7	3089.8	3065.9	3077.9
10°	6575.7	6046.5	4960.8	3984.4	3364.7	3076.2	2963.5	2932.8	2936.2	2946.4	2948.1
12.5°	6582.5	5892.9	4493.1	3484.2	3006.2	2886.7	2874.7	2902.1	2931.1	2953.3	2958.4
15°	6591.1	5717.1	4037.3	3081.3	2826.9	2816.7	2856.0	2902.1	2943.0	2975.5	2980.6
17.5°	6580.8	5512.2	3654.9	2833.8	2727.9	2777.4	2842.3	2900.4	2937.9	2968.6	2972.0
20°	6556.9	5283.5	3286.2	2659.7	2666.5	2746.7	2816.7	2871.3	2912.3	2927.7	2939.6
22.5°	6464.8	5010.3	2965.2	2524.8	2593.1	2704.0	2787.7	2820.1	2774.0	2741.6	2750.1
25°	6307.7	4655.2	2666.5	2415.5	2526.5	2644.3	2729.6	2651.1	2613.6	2599.9	2606.7
27.5°	6111.4	4266.0	2441.1	2301.2	2441.1	2577.7	2553.8	2540.2	2523.1	2500.9	2506.0
30°	5899.7	3885.3	2249.9	2212.4	2349.0	2427.5	2437.7	2459.9	2441.1	2407.0	2420.7
32.5°	5703.4	3526.9	2104.8	2137.3	2284.1	2272.1	2349.0	2374.6	2287.5	2173.1	2178.3
35°	5536.1	3194.0	1995.6	2063.9	2173.1	2178.3	2255.1	2166.3	2072.4	2017.8	2021.2
37.5°	5409.8	2934.5	1923.9	2000.7	2031.4	2096.3	2055.3	2009.2	1997.3	1959.7	1961.4
40°	5334.7	2707.4	1877.8	1951.2	1946.1	1990.5	1859.0	1905.1	1922.2	1910.2	1911.9
42.5°	5259.6	2547.0	1830.0	1882.9	1881.2	1794.2	1765.1	1804.4	1848.8	1853.9	1850.5
45°	5199.8	2422.4	1780.5	1778.8	1812.9	1676.4	1667.8	1691.7	1754.9	1785.6	1783.9
47.5°	5133.2	2318.2	1705.4	1657.6	1667.8	1603.0	1589.3	1599.5	1676.4	1725.9	1739.5
50°	5049.6	2214.1	1611.5	1546.6	1503.9	1534.7	1538.1	1539.8	1616.6	1673.0	1684.9
52.5°	4983.0	2135.6	1503.9	1456.2	1404.9	1473.2	1498.8	1502.2	1548.3	1594.4	1603.0
55°	5022.3	2091.2	1398.1	1364.0	1317.9	1410.1	1459.6	1466.4	1476.6	1510.8	1515.9
57.5°	5140.1	2101.4	1312.8	1268.4	1234.2	1334.9	1418.6	1423.7	1416.9	1457.9	1464.7
60°	5175.9	2096.3	1249.6	1162.5	1142.0	1254.7	1358.8	1369.1	1367.4	1427.1	1439.1
62.5°	5025.7	2031.4	1186.4	1073.8	1060.1	1172.8	1275.2	1316.2	1324.7	1410.1	1425.4
65°	4672.3	1898.3	1102.8	979.9	979.9	1085.7	1195.0	1251.3	1275.2	1389.6	1406.6
67.5°	4206.3	1741.2	1017.4	899.6	896.2	1002.1	1109.6	1167.7	1205.2	1360.6	1370.8
70°	3491.0	1529.6	911.6	812.6	812.6	908.2	1005.5	1075.5	1130.1	1305.9	1305.9
72.5°	2391.6	1271.8	783.6	713.6	715.3	804.0	903.1	981.6	1046.4	1196.7	1200.1
75°	1512.5	993.5	643.6	607.7	614.6	698.2	800.6	882.6	1012.3	1183.0	1188.1
77.5°	804.0	698.2	512.1	503.6	512.1	588.9	703.3	816.0	1015.7	1026.0	1008.9
80°	520.7	495.1	404.6	387.5	390.9	474.6	626.5	775.0	816.0	826.2	788.7
82.5°	283.4	314.1	286.8	269.7	269.7	370.4	534.3	616.3	585.5	486.5	464.3
85°	121.2	146.8	148.5	129.7	124.6	228.8	358.5	336.3	312.4	298.7	295.3
87.5°	34.1	47.8	47.8	35.8	27.3	63.2	71.7	20.5	0.0	1.7	3.4
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)