

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: P651993

Luminaire Tested: **GALN-SA7A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24172 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

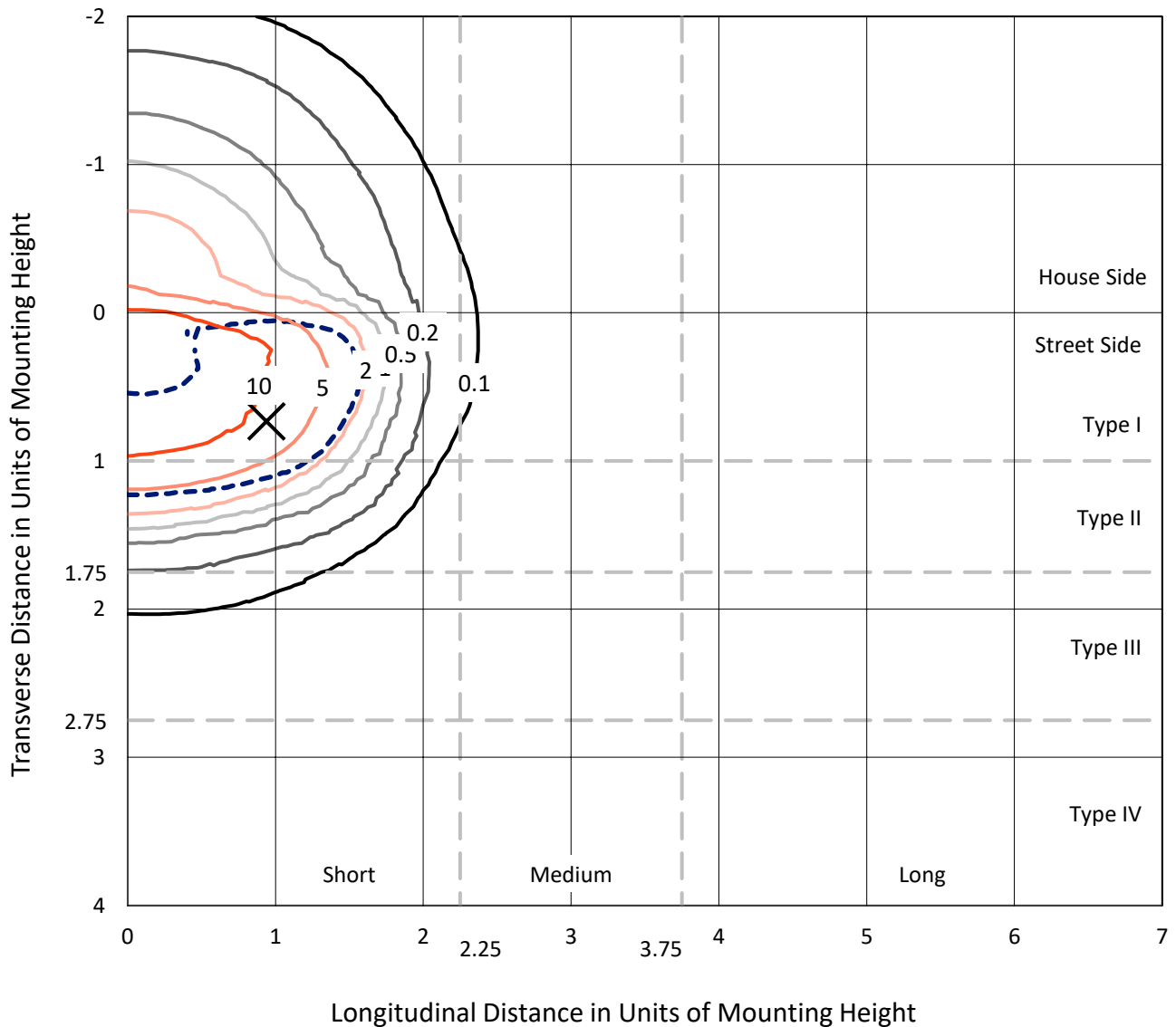
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651993
 CATALOG NUMBER: GALN-SA7A-840-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

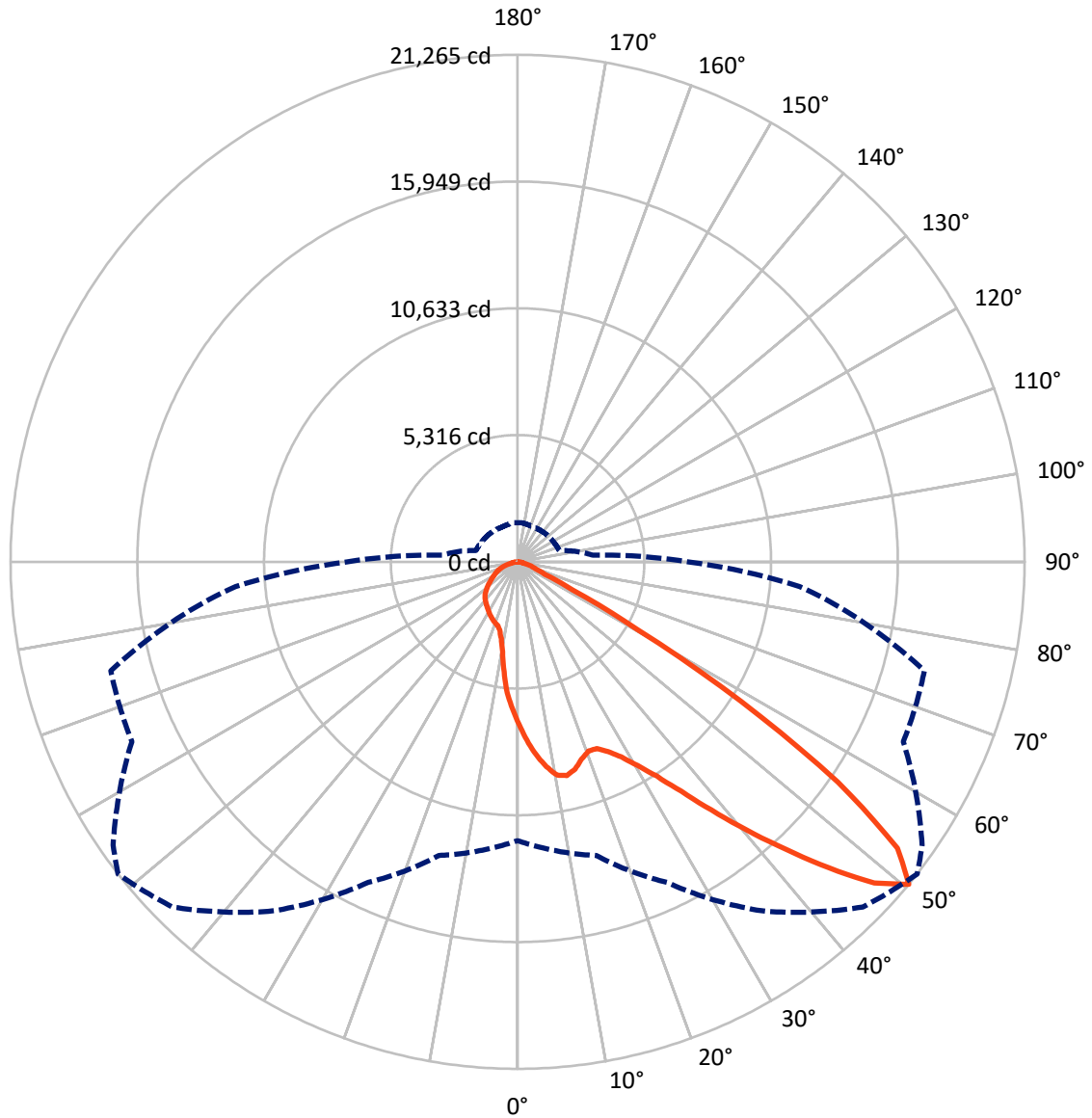
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P651993
CATALOG NUMBER: GALN-SA7A-840-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P651993
 CATALOG NUMBER: GALN-SA7A-840-U-AFL-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4543.8	0.0	4543.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19628.3	0.0	19628.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	24172.0	0.0	24172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.0	2.6
10°-20°	1683.2	7.0
20°-30°	2835.4	11.7
30°-40°	4758.0	19.7
40°-50°	7278.5	30.1
50°-60°	5306.6	22.0
60°-70°	1181.0	4.9
70°-80°	426.0	1.8
80°-90°	75.4	0.3
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°	24172.0	100.0
0°-180°	24172.0	100.0

Coefficient of Utilization

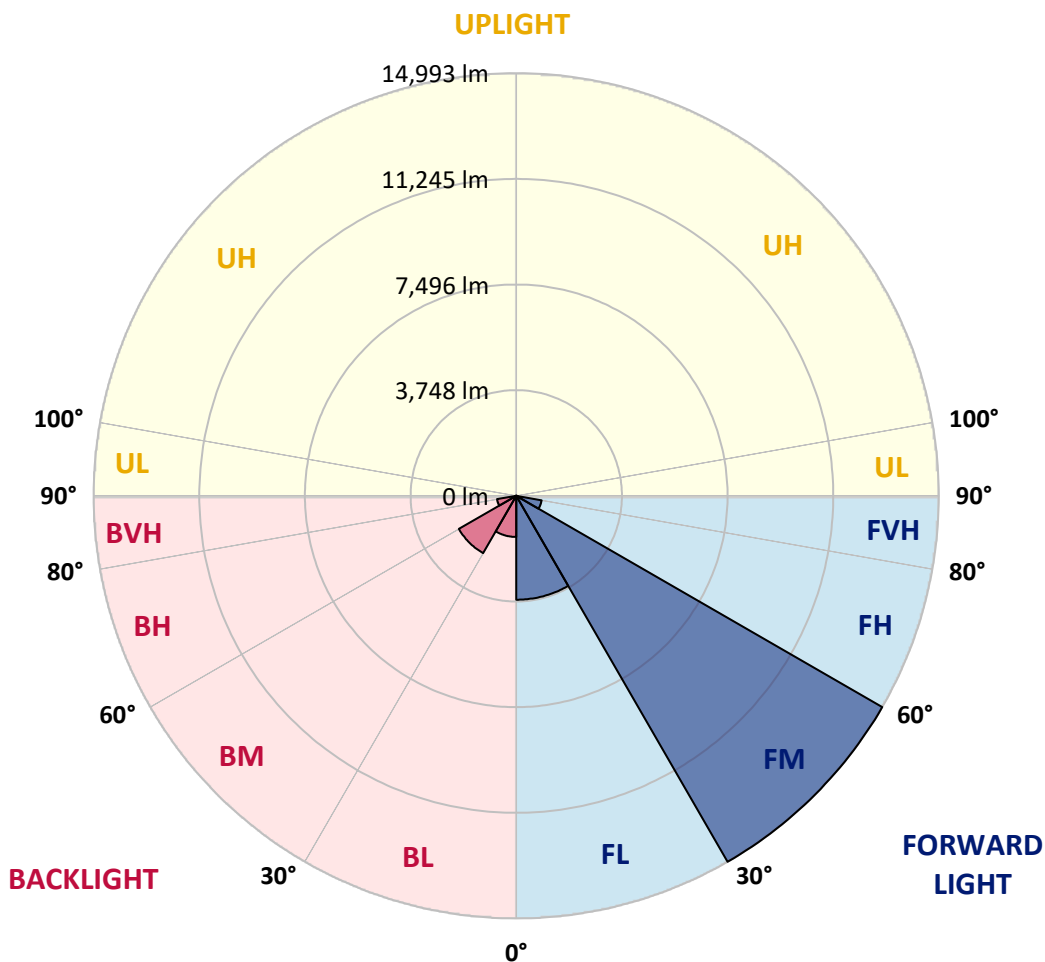


REPORT NUMBER: P651993
 CATALOG NUMBER: GALN-SA7A-840-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3687.1	15.3			
FM (30°-60°)	14992.7	62.0			
FH (60°-80°)	914.7	3.8			G1/1800
FVH (80°-90°)	33.8	0.1			G1/100
BL (0°-30°)	1459.5	6.0	B3/2500		
BM (30°-60°)	2350.4	9.7	B2/2500		
BH (60°-80°)	692.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	41.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P651993

CATALOG NUMBER: GALN-SA7A-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7
2.5°	8022.6	7868.2	7885.7	7775.0	7655.5	7620.6	7498.3	7381.7	7294.3	7107.9	6936.1
5°	8768.4	8721.8	8651.9	8564.5	8474.2	8252.7	8127.5	7981.8	7661.4	7373.0	7087.5
7.5°	8876.2	8867.4	8905.3	8905.3	8937.3	8852.9	8675.2	8573.2	8232.4	7763.4	7233.2
10°	8118.8	8145.0	8328.5	8567.4	8899.5	9129.6	9100.5	9074.2	8701.4	8060.5	7405.1
12.5°	7515.8	7457.5	7565.3	7769.2	8267.3	8823.7	9199.5	9202.4	9106.3	8535.3	7530.3
15°	7174.9	7215.7	7244.8	7340.9	7716.8	8360.5	9021.8	9217.0	9639.4	8870.4	7728.4
17.5°	7393.4	7256.5	7250.7	7274.0	7466.2	7949.8	8692.7	9027.6	9930.7	9301.5	7973.1
20°	7678.9	7676.0	7594.4	7565.3	7562.4	7993.5	8477.0	8931.5	10085.1	9860.8	8220.7
22.5°	8179.9	8179.9	8045.9	7981.8	7844.9	8197.4	8506.2	8814.9	10341.4	10245.3	8340.1
25°	9018.9	8882.0	8651.9	8494.5	8415.9	8541.1	8814.9	9091.7	10565.7	10653.1	8587.8
27.5°	9793.8	9578.2	9464.6	9193.6	9088.8	9015.9	9266.5	9546.2	10827.9	11288.2	8721.8
30°	10673.6	10635.6	10431.8	10082.2	9822.9	9688.9	9919.0	10195.8	11308.6	11937.8	9030.6
32.5°	12246.6	11902.8	11626.1	11197.9	10775.5	10490.0	10717.2	10900.7	12106.8	12616.5	9368.5
35°	13944.9	13834.2	13356.5	12584.5	11937.8	11681.4	11815.5	11952.4	13036.0	13653.6	9936.5
37.5°	15614.1	15462.6	15069.4	14419.7	13633.2	13111.8	13207.9	13368.1	14078.9	15051.9	10629.8
40°	16814.3	16627.8	16429.8	16333.6	15552.9	14839.2	14783.9	14824.6	15488.9	16362.7	11398.9
42.5°	16901.7	17131.8	17193.0	17580.4	17396.9	16811.4	16470.6	16479.3	16834.7	17659.1	12176.7
45°	16718.2	16505.5	16957.0	18014.5	18620.4	18894.2	18320.3	18247.5	17667.8	18410.7	12564.1
47.5°	14792.6	14850.9	15614.1	17286.3	19037.0	20260.4	20126.5	19884.7	18113.5	18384.4	12502.9
50°	11693.1	12045.6	12753.4	14836.3	17871.8	20476.0	21265.4	20706.2	17848.5	17662.0	11879.5
52.5°	7786.7	7932.3	8398.4	11087.2	14370.3	18302.9	19954.6	20082.7	17603.7	16715.2	11090.1
55°	3466.6	3454.9	4110.4	5791.2	9015.9	13927.5	16304.5	17085.3	16662.8	15751.0	10321.0
57.5°	1468.2	1517.8	1785.7	2502.3	4433.7	8404.2	11046.4	11730.9	12814.7	12934.1	7917.8
60°	993.4	999.2	1072.0	1252.6	1855.7	3947.2	5794.2	6615.6	7390.5	7338.1	4200.6
62.5°	780.7	801.1	856.5	929.3	1101.1	1791.6	2592.6	3050.0	3099.5	2607.2	1593.4
65°	667.1	670.0	725.4	786.5	862.3	1042.9	1249.7	1273.0	1287.6	1241.0	1171.1
67.5°	550.6	556.4	600.1	670.0	739.9	798.2	856.5	885.6	952.6	1083.6	1066.2
70°	437.0	445.7	483.6	541.9	605.9	640.8	713.7	739.9	801.1	903.1	943.9
72.5°	332.1	335.0	367.0	407.8	466.1	501.1	562.2	591.4	632.2	719.6	757.4
75°	238.8	247.6	270.9	291.3	300.1	323.4	381.6	413.7	471.9	509.8	512.7
77.5°	125.2	131.1	136.9	136.9	166.0	209.7	247.6	265.1	305.9	335.0	320.4
80°	49.5	52.4	67.0	90.3	116.6	151.5	177.7	186.4	221.4	238.8	247.6
82.5°	29.1	32.0	43.7	64.1	84.5	107.8	128.2	136.9	160.2	180.6	186.4
85°	14.5	17.5	26.2	40.8	55.3	67.0	64.1	61.1	61.1	58.3	61.1
87.5°	5.8	5.8	8.7	8.7	8.7	11.7	14.5	14.5	14.5	17.5	17.5
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: P651993

CATALOG NUMBER: GALN-SA7A-840-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7	6813.7
2.5°	6822.4	6705.9	6598.1	6400.0	6184.5	6123.3	5872.8	5782.5	5718.4	5642.6	5619.3
5°	6857.4	6703.0	6356.4	5957.2	5639.7	5231.9	4963.9	4675.5	4465.7	4413.3	4398.8
7.5°	6930.2	6665.1	6068.0	5464.9	4815.3	4261.9	3839.4	3612.2	3411.2	3399.6	3379.1
10°	7011.8	6551.5	5753.4	4806.6	3976.3	3463.7	3210.2	3111.2	3061.7	3050.0	3044.2
12.5°	7078.8	6528.2	5400.8	4165.7	3382.1	3073.3	2997.6	2988.8	3009.2	3015.1	3026.7
15°	7107.9	6435.0	4975.5	3591.8	3012.1	2898.5	2930.5	2965.5	2980.1	3017.9	2988.8
17.5°	7163.3	6315.6	4451.2	3137.4	2805.3	2825.7	2881.0	2921.8	2945.1	2971.3	2933.5
20°	7192.4	6207.8	3958.8	2866.5	2732.5	2770.3	2846.1	2878.2	2907.3	2918.9	2875.2
22.5°	7166.2	5986.4	3524.8	2648.0	2662.5	2712.1	2779.1	2814.1	2796.6	2750.0	2723.7
25°	7096.3	5674.6	3073.3	2508.2	2563.5	2650.9	2703.3	2677.2	2645.1	2618.9	2610.1
27.5°	7093.3	5293.1	2747.0	2379.9	2479.0	2598.4	2581.0	2557.6	2572.3	2551.8	2528.6
30°	7107.9	4923.1	2479.0	2307.2	2417.9	2476.2	2496.5	2473.2	2490.7	2452.8	2464.5
32.5°	7032.2	4561.9	2304.3	2222.7	2345.0	2342.1	2409.1	2426.6	2385.8	2307.2	2318.8
35°	7064.2	4270.6	2155.7	2184.8	2263.5	2263.5	2315.9	2295.5	2187.7	2141.1	2152.8
37.5°	7285.6	3985.1	2082.8	2132.4	2184.8	2208.1	2190.6	2103.3	2077.0	2077.0	2082.8
40°	7495.3	3740.4	2039.2	2120.7	2112.0	2126.6	1998.4	2007.1	2007.1	2010.0	1995.4
42.5°	7681.8	3574.3	2004.2	2050.8	2065.4	1989.6	1911.0	1902.3	1922.6	1919.8	1908.1
45°	7748.8	3437.4	1954.7	1972.1	1983.8	1858.5	1820.7	1803.2	1826.5	1835.2	1846.9
47.5°	7492.5	3323.8	1899.3	1864.3	1841.0	1759.5	1710.0	1678.0	1707.1	1756.6	1768.2
50°	7163.3	3175.3	1811.9	1744.9	1695.4	1660.5	1625.5	1593.4	1613.9	1648.8	1640.0
52.5°	6676.8	2942.2	1701.3	1631.3	1546.9	1555.6	1523.6	1506.1	1517.8	1517.8	1509.0
55°	5983.5	2417.9	1514.8	1465.3	1395.4	1418.7	1424.5	1401.2	1377.9	1398.2	1380.8
57.5°	4084.1	1707.1	1351.7	1351.7	1281.8	1313.8	1310.9	1255.5	1200.2	1206.0	1194.4
60°	2362.5	1360.4	1246.8	1235.2	1162.3	1188.5	1194.4	1156.5	1072.0	1077.8	1066.2
62.5°	1342.9	1162.3	1089.5	1072.0	1057.5	1080.8	1080.8	1031.2	958.4	964.2	952.6
65°	1141.9	1077.8	973.0	970.1	964.2	970.1	946.7	894.3	830.2	804.0	806.9
67.5°	1037.0	996.2	894.3	868.1	850.6	847.7	804.0	754.5	725.4	702.1	699.1
70°	908.9	876.8	801.1	766.2	748.7	707.9	664.2	632.2	591.4	579.7	591.4
72.5°	719.6	716.6	687.5	649.6	611.7	579.7	541.9	498.1	460.3	451.5	431.1
75°	498.1	503.9	509.8	503.9	471.9	431.1	387.4	352.5	305.9	279.6	273.8
77.5°	326.2	335.0	343.7	332.1	311.7	273.8	244.7	201.0	166.0	145.7	142.7
80°	238.8	250.5	256.3	247.6	224.3	195.2	163.2	128.2	101.9	84.5	84.5
82.5°	183.5	195.2	201.0	186.4	163.2	139.9	116.6	90.3	69.9	55.3	52.4
85°	64.1	61.1	72.8	75.8	90.3	84.5	69.9	52.4	40.8	29.1	26.2
87.5°	17.5	17.5	20.4	20.4	17.5	14.5	14.5	14.5	11.7	8.7	8.7
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)