

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: P453471

Luminaire Tested: **GALN-SA4C-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453471
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-SA4C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25577 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

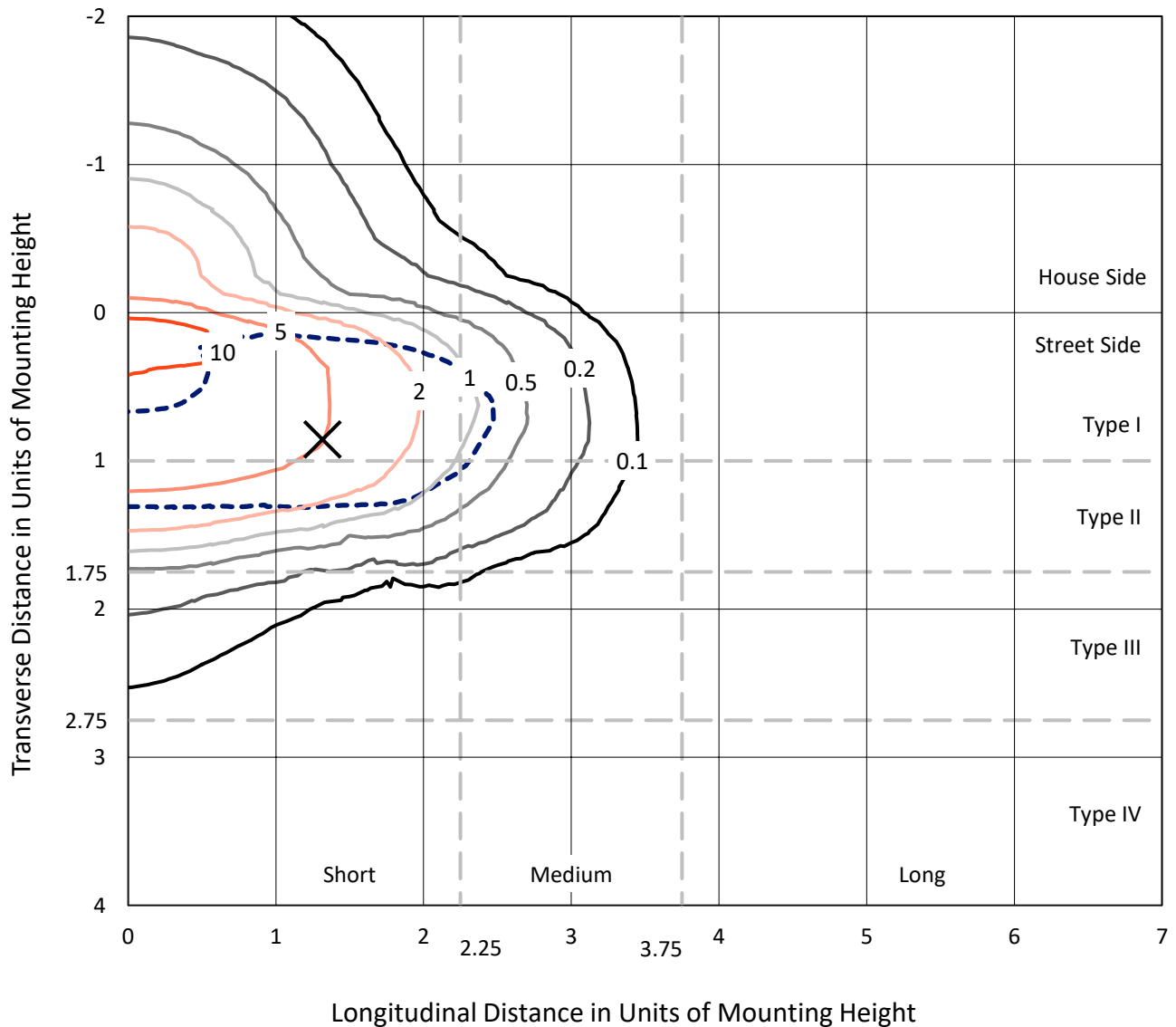
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453471
 CATALOG NUMBER: GALN-SA4C-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

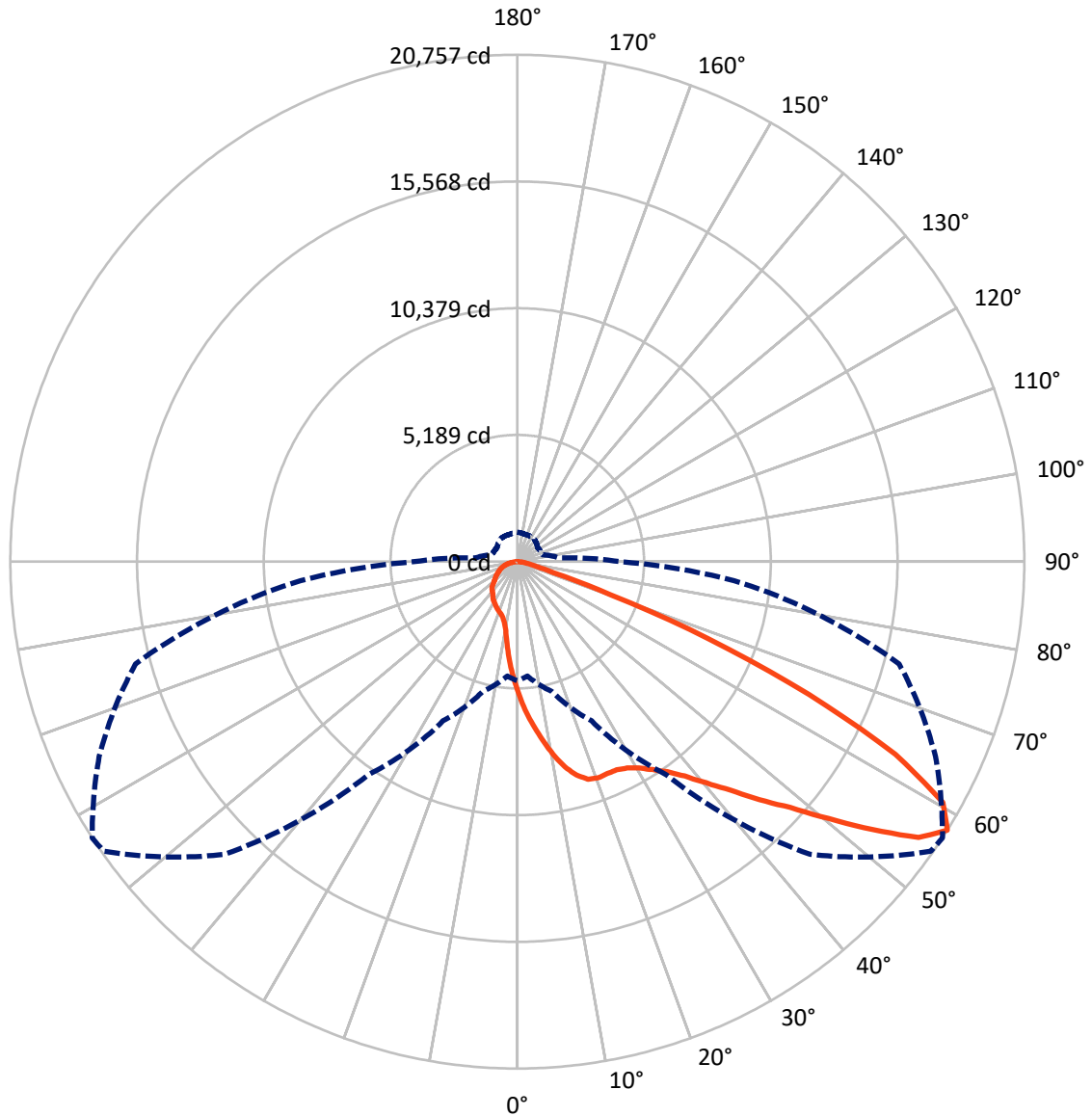
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

REPORT NUMBER: P453471
CATALOG NUMBER: GALN-SA4C-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453471

CATALOG NUMBER: GALN-SA4C-730-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3889.5	0.0	3889.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	21687.4	0.0	21687.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	25577.0	0.0	25577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.4	2.0
10°-20°	1522.0	6.0
20°-30°	2527.3	9.9
30°-40°	3806.8	14.9
40°-50°	5715.6	22.3
50°-60°	6406.4	25.0
60°-70°	3749.3	14.7
70°-80°	1109.0	4.3
80°-90°	224.2	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°	25577.0	100.0
0°-180°	25577.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453471

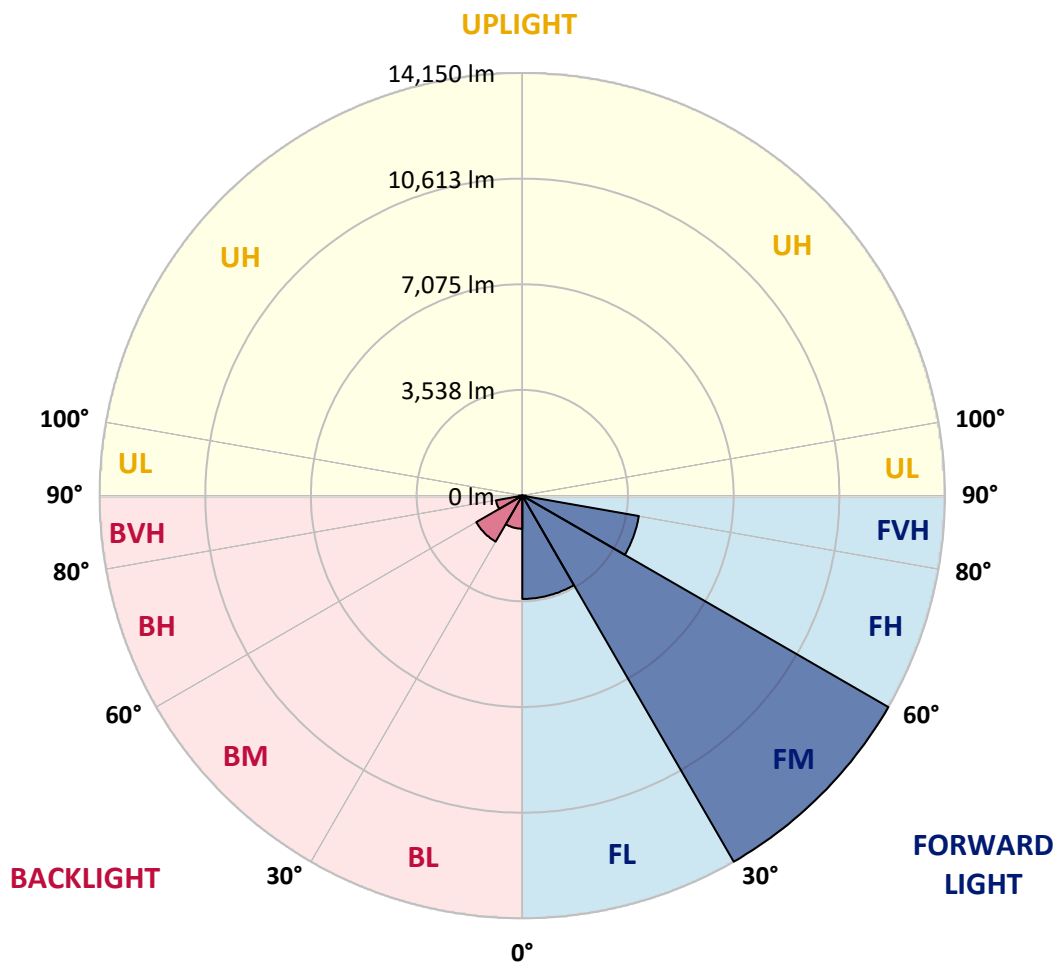
CATALOG NUMBER: GALN-SA4C-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3457.4	13.5			
FM	(30°-60°)	14150.3	55.3			
FH	(60°-80°)	3963.4	15.5			G2/5000
FVH	(80°-90°)	116.3	0.5			G2/225
BL	(0°-30°)	1108.3	4.3	B3/2500		
BM	(30°-60°)	1778.5	7.0	B2/2500		
BH	(60°-80°)	894.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	107.9	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-G2

Type II Short





REPORT NUMBER: P453471

CATALOG NUMBER: GALN-SA4C-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4
2.5°	6676.9	6604.1	6546.7	6496.3	6430.5	6252.7	6074.9	6072.1	5930.7	5712.2	5488.2
5°	7764.7	7666.7	7679.3	7522.5	7365.7	7108.1	6731.5	6711.9	6410.9	6002.1	5586.2
7.5°	8473.2	8474.6	8435.4	8345.8	8176.4	7883.7	7456.7	7360.1	6941.5	6321.3	5698.2
10°	8436.8	8474.6	8540.4	8617.4	8669.2	8525.0	8135.8	8018.2	7473.5	6707.7	5822.9
12.5°	7952.3	8011.2	8105.0	8298.2	8610.4	8848.4	8715.4	8620.2	8089.6	7092.7	5960.1
15°	7649.9	7684.9	7736.7	7866.9	8203.0	8772.8	9117.2	9066.8	8670.6	7528.1	6114.1
17.5°	7557.5	7592.5	7609.3	7689.1	7928.5	8512.4	9275.4	9365.0	9185.8	7928.5	6269.5
20°	7649.9	7666.7	7666.7	7714.3	7901.9	8359.8	9268.4	9449.0	9608.6	8408.8	6415.1
22.5°	7892.1	7899.1	7889.3	7906.1	8046.2	8401.8	9202.6	9426.6	9950.2	8816.2	6528.5
25°	8285.6	8296.8	8232.4	8193.2	8295.4	8586.6	9239.0	9444.8	10217.6	9205.4	6604.1
27.5°	8732.2	8746.2	8667.8	8576.8	8624.4	8814.8	9381.8	9566.6	10417.9	9589.0	6651.7
30°	9279.6	9285.2	9153.6	9044.4	9013.6	9155.0	9625.4	9797.6	10667.1	10041.2	6723.1
32.5°	9839.6	9881.6	9712.2	9558.2	9506.4	9549.8	9985.2	10151.8	10963.9	10527.1	6837.9
35°	10601.3	10608.3	10405.3	10217.6	10046.8	10102.8	10445.9	10566.3	11374.1	11088.5	7000.3
37.5°	11551.9	11616.3	11336.3	10986.3	10776.3	10695.1	11003.1	11134.7	11949.5	11777.3	7245.3
40°	12607.6	12631.4	12391.9	12173.5	11789.9	11554.7	11767.5	11910.3	12659.4	12599.2	7529.5
42.5°	13271.2	13323.0	13341.2	13318.8	13030.4	12635.6	12716.8	12784.0	13499.4	13370.6	7820.7
45°	13495.2	13572.2	13832.6	14384.2	14415.0	14025.8	13836.8	13901.2	14415.0	14149.0	8099.4
47.5°	13124.2	13255.8	13736.0	14867.3	15714.3	15743.7	15173.9	15032.5	15249.5	14794.4	8301.0
50°	12165.1	12193.1	12928.2	14566.2	16323.3	17386.0	16796.5	16533.3	16041.9	15271.9	8439.6
52.5°	10681.1	10713.3	11329.3	13167.6	15948.1	18534.0	18695.0	18224.6	16846.9	15642.9	8530.6
55°	7928.5	8114.8	8792.4	10569.1	14170.0	18426.2	20204.3	19936.9	17820.0	15936.9	8673.4
57.5°	4875.0	4704.2	5507.8	7190.7	10657.3	16944.9	20670.5	20757.3	18891.0	16183.3	8912.8
60°	2242.9	2276.5	2608.3	3708.8	6496.3	13255.8	19469.3	20018.1	19483.3	16174.9	8973.0
62.5°	1545.7	1514.9	1430.9	1628.3	2962.5	8383.6	16445.1	17374.8	18296.0	15672.3	8733.6
65°	1381.9	1351.1	1188.7	1134.0	1360.9	3654.2	11955.1	13128.4	15404.9	14403.8	8137.2
67.5°	1290.9	1248.9	1080.8	974.4	971.6	1454.7	7049.3	8462.0	11425.9	12177.7	7050.7
70°	1195.7	1162.1	995.4	877.8	827.4	914.2	3098.3	4056.0	7418.9	8775.6	5492.4
72.5°	1100.4	1061.2	911.4	785.4	719.6	684.6	1187.3	1544.3	4191.8	5261.4	3367.1
75°	961.8	942.2	814.8	711.2	639.8	553.0	753.2	859.6	2004.9	2416.5	1689.9
77.5°	841.4	820.4	723.8	621.6	569.8	449.4	534.8	583.8	845.6	980.0	763.0
80°	616.0	637.0	610.4	548.8	508.2	352.8	359.8	400.4	502.6	555.8	466.2
82.5°	390.6	429.8	470.4	422.8	385.0	278.6	249.2	264.6	343.0	364.0	207.2
85°	163.8	166.6	273.0	257.6	219.8	165.2	149.8	158.2	183.4	191.8	96.6
87.5°	63.0	61.6	96.6	89.6	68.6	47.6	47.6	53.2	72.8	67.2	30.8
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: P453471

CATALOG NUMBER: GALN-SA4C-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4	5373.4
2.5°	5391.6	5292.2	5094.8	4849.8	4670.6	4469.0	4291.2	4163.8	4116.2	4093.8	4051.8
5°	5387.4	5191.4	4782.6	4354.2	4009.8	3657.0	3358.7	3165.5	3148.7	3019.9	3007.3
7.5°	5388.8	5089.2	4438.2	3808.2	3283.1	2921.9	2675.5	2611.1	2534.1	2514.5	2524.3
10°	5393.0	4959.0	4068.6	3267.7	2759.5	2522.9	2430.5	2405.3	2408.1	2416.5	2417.9
12.5°	5398.6	4833.0	3685.0	2857.5	2465.5	2367.5	2357.7	2380.1	2403.9	2422.1	2426.3
15°	5405.6	4688.8	3311.1	2527.1	2318.5	2310.1	2342.3	2380.1	2413.7	2440.3	2444.5
17.5°	5397.2	4520.8	2997.5	2324.1	2237.3	2277.9	2331.1	2378.7	2409.5	2434.7	2437.5
20°	5377.6	4333.2	2695.1	2181.3	2186.9	2252.7	2310.1	2354.9	2388.5	2401.1	2410.9
22.5°	5302.0	4109.2	2431.9	2070.7	2126.7	2217.7	2286.3	2312.9	2275.1	2248.5	2255.5
25°	5173.2	3818.0	2186.9	1981.1	2072.1	2168.7	2238.7	2174.3	2143.5	2132.3	2137.9
27.5°	5012.2	3498.8	2002.1	1887.3	2002.1	2114.1	2094.5	2083.3	2069.3	2051.1	2055.3
30°	4838.6	3186.5	1845.3	1814.5	1926.5	1990.9	1999.3	2017.5	2002.1	1974.1	1985.3
32.5°	4677.6	2892.5	1726.3	1752.9	1873.3	1863.5	1926.5	1947.5	1876.1	1782.3	1786.5
35°	4540.4	2619.5	1636.7	1692.7	1782.3	1786.5	1849.5	1776.7	1699.7	1654.9	1657.7
37.5°	4436.8	2406.7	1577.9	1640.9	1666.1	1719.3	1685.7	1647.9	1638.1	1607.3	1608.7
40°	4375.2	2220.5	1540.1	1600.3	1596.1	1632.5	1524.7	1562.5	1576.5	1566.7	1568.1
42.5°	4313.6	2088.9	1500.9	1544.3	1542.9	1471.5	1447.7	1479.9	1516.3	1520.5	1517.7
45°	4264.6	1986.7	1460.3	1458.9	1486.9	1374.9	1367.9	1387.5	1439.3	1464.5	1463.1
47.5°	4210.0	1901.3	1398.7	1359.5	1367.9	1314.7	1303.5	1311.9	1374.9	1415.5	1426.7
50°	4141.4	1815.9	1321.7	1268.5	1233.5	1258.7	1261.5	1262.9	1325.9	1372.1	1381.9
52.5°	4086.8	1751.5	1233.5	1194.3	1152.3	1208.3	1229.3	1232.1	1269.9	1307.7	1314.7
55°	4119.0	1715.1	1146.7	1118.6	1080.8	1156.5	1197.1	1202.7	1211.1	1239.1	1243.3
57.5°	4215.6	1723.5	1076.6	1040.2	1012.2	1094.8	1163.5	1167.7	1162.1	1195.7	1201.3
60°	4245.0	1719.3	1024.8	953.4	936.6	1029.0	1114.4	1122.8	1121.4	1170.5	1180.3
62.5°	4121.8	1666.1	973.0	880.6	869.4	961.8	1045.8	1079.4	1086.4	1156.5	1169.1
65°	3832.0	1556.9	904.4	803.6	803.6	890.4	980.0	1026.2	1045.8	1139.6	1153.7
67.5°	3449.8	1428.1	834.4	737.8	735.0	821.8	910.0	957.6	988.4	1115.8	1124.2
70°	2863.1	1254.5	747.6	666.4	666.4	744.8	824.6	882.0	926.8	1071.0	1071.0
72.5°	1961.5	1043.0	642.6	585.2	586.6	659.4	740.6	805.0	858.2	981.4	984.2
75°	1240.5	814.8	527.8	498.4	504.0	572.6	656.6	723.8	830.2	970.2	974.4
77.5°	659.4	572.6	420.0	413.0	420.0	483.0	576.8	669.2	833.0	841.4	827.4
80°	427.0	406.0	331.8	317.8	320.6	389.2	513.8	635.6	669.2	677.6	646.8
82.5°	232.4	257.6	235.2	221.2	221.2	303.8	438.2	505.4	480.2	399.0	380.8
85°	99.4	120.4	121.8	106.4	102.2	187.6	294.0	275.8	256.2	245.0	242.2
87.5°	28.0	39.2	39.2	29.4	22.4	51.8	58.8	16.8	0.0	1.4	2.8
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)