

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: P453487

Luminaire Tested: **GALN-SA4C-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25813 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

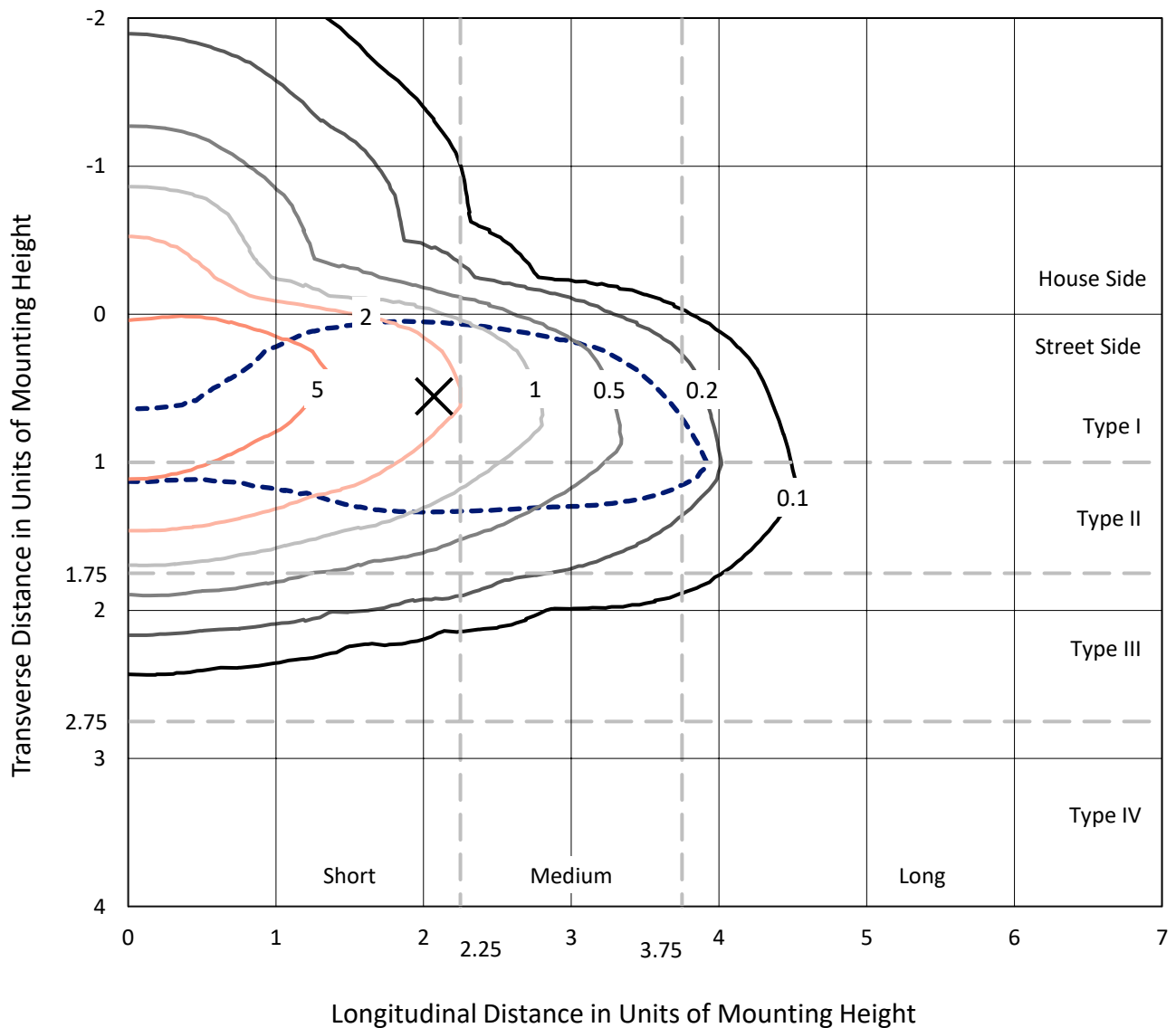
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453487
 CATALOG NUMBER: GALN-SA4C-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

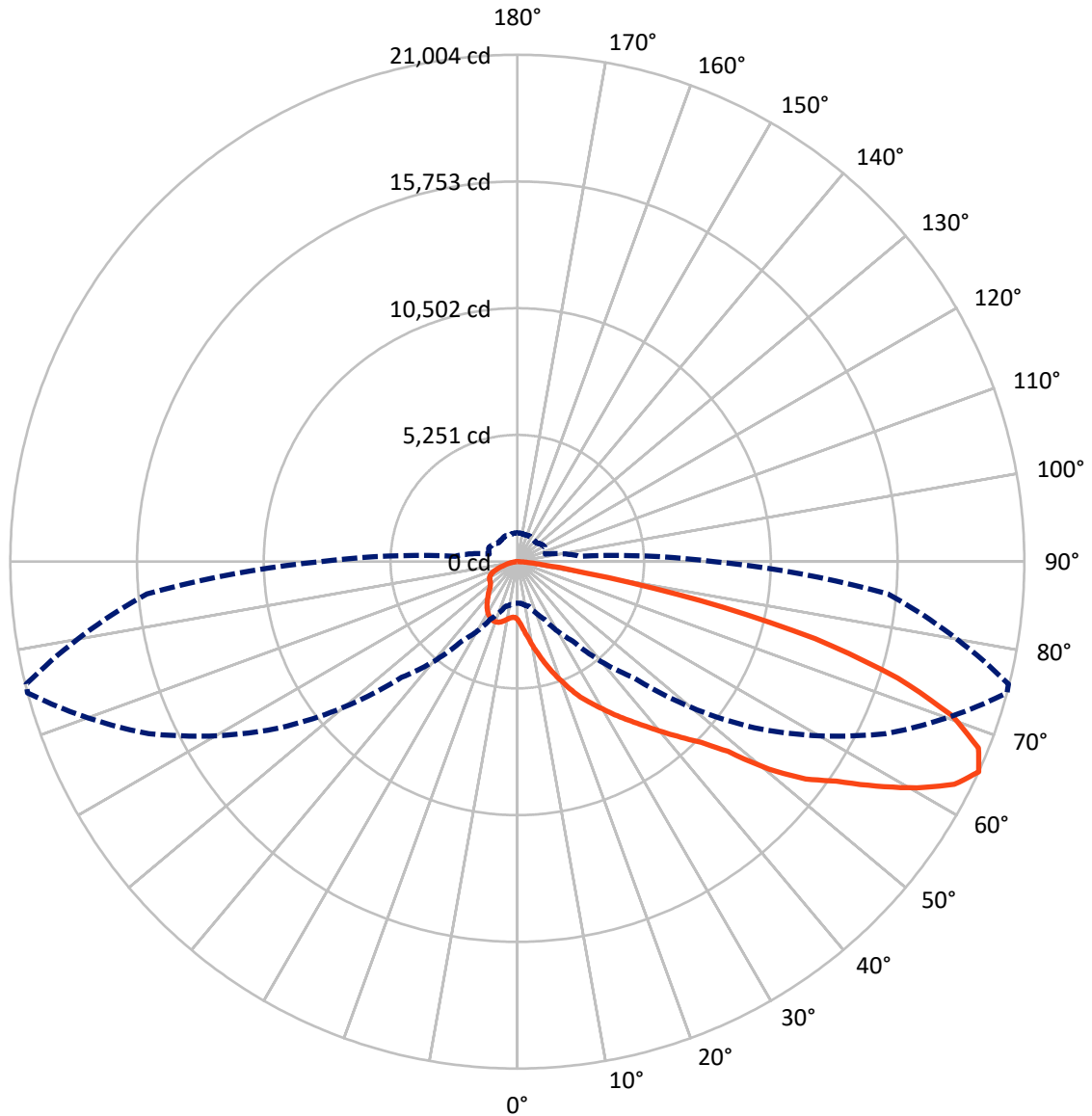
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

REPORT NUMBER: P453487
CATALOG NUMBER: GALN-SA4C-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P453487

CATALOG NUMBER: GALN-SA4C-730-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4339.5	0.0	4339.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	21473.5	0.0	21473.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	25813.0	0.0	25813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.1
10°-20°	1141.3	4.4
20°-30°	2204.7	8.5
30°-40°	3581.1	13.9
40°-50°	4926.1	19.1
50°-60°	5816.1	22.5
60°-70°	5095.8	19.7
70°-80°	2432.8	9.4
80°-90°	323.7	1.3
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°	25813.0	100.0
0°-180°	25813.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453487

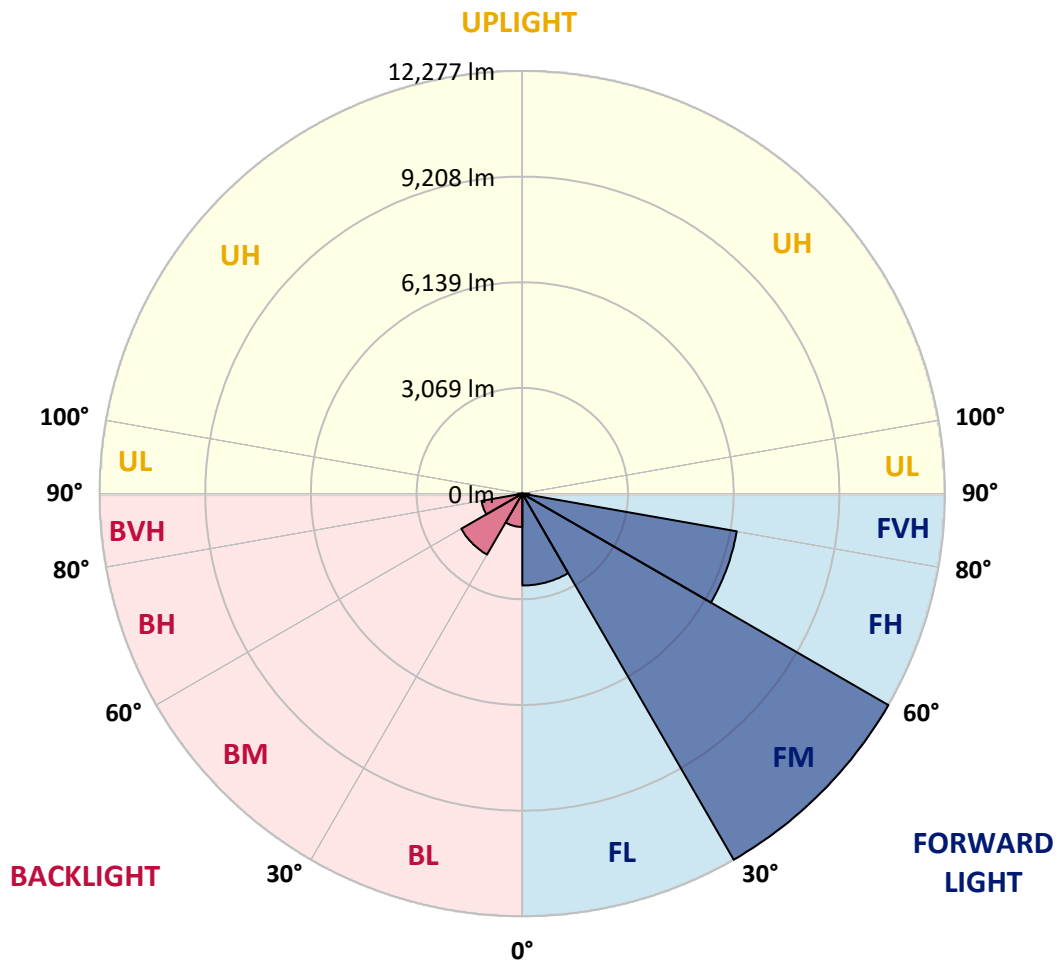
CATALOG NUMBER: GALN-SA4C-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2668.6	10.3			
FM	(30°-60°)	12277.2	47.6			
FH	(60°-80°)	6325.3	24.5			G3/7500
FVH	(80°-90°)	202.3	0.8			G2/225
BL	(0°-30°)	968.8	3.8	B2/1000		
BM	(30°-60°)	2046.0	7.9	B2/2500		
BH	(60°-80°)	1203.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	121.4	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: P453487

CATALOG NUMBER: GALN-SA4C-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4
2.5°	3186.6	3165.6	3143.2	3081.6	3015.8	2941.6	2835.2	2733.0	2597.2	2593.0	2492.2
5°	4070.1	4056.1	3956.7	3899.2	3746.6	3543.6	3371.4	3104.0	2856.2	2826.8	2630.8
7.5°	4882.1	4827.5	4789.7	4686.1	4534.9	4274.5	3941.3	3580.0	3165.6	3126.4	2801.6
10°	5494.0	5488.4	5468.8	5379.1	5265.7	5006.7	4637.1	4119.1	3557.6	3480.6	3008.8
12.5°	5951.8	5956.0	5953.2	5951.8	5870.6	5650.8	5250.3	4704.3	3953.9	3899.2	3248.2
15°	6252.8	6294.8	6311.6	6381.6	6388.6	6241.6	5897.2	5269.9	4400.5	4319.3	3505.8
17.5°	6451.6	6472.6	6551.0	6670.0	6766.6	6740.0	6433.4	5793.6	4856.9	4721.1	3773.2
20°	6642.0	6678.4	6738.6	6901.0	7071.9	7150.3	6934.6	6329.8	5309.1	5222.3	4068.7
22.5°	7038.3	7090.1	7111.1	7193.7	7339.3	7477.9	7379.9	6843.6	5804.8	5687.2	4382.3
25°	7708.9	7763.5	7704.7	7685.1	7732.7	7801.3	7780.3	7328.1	6272.4	6104.4	4679.1
27.5°	8582.6	8589.6	8474.7	8365.5	8247.9	8212.9	8148.5	7757.9	6678.4	6538.4	4977.3
30°	9520.6	9487.0	9296.6	9099.2	8900.4	8704.4	8519.5	8172.3	7130.7	6969.6	5269.9
32.5°	10391.5	10373.3	10161.9	9855.2	9519.2	9334.4	8960.6	8591.0	7615.1	7459.7	5571.0
35°	11043.9	11070.5	10838.1	10503.5	10136.6	9972.8	9501.0	9030.6	8116.3	7946.9	5898.6
37.5°	11507.3	11493.3	11287.5	10997.7	10675.7	10532.9	10132.4	9510.8	8655.4	8492.9	6257.0
40°	11672.5	11664.1	11511.5	11300.1	11095.7	11045.3	10793.3	10028.8	9272.8	9082.4	6688.2
42.5°	11567.5	11585.7	11484.9	11427.5	11389.7	11426.1	11449.9	10707.9	9946.2	9771.2	7155.9
45°	11245.5	11235.7	11221.7	11315.5	11528.3	11767.8	12099.6	11349.1	10678.5	10538.5	7783.1
47.5°	10670.1	10740.1	10775.1	11034.1	11498.9	12066.0	12847.2	12208.8	11741.2	11619.3	8739.4
50°	9865.0	9921.0	10128.2	10588.9	11281.9	12178.0	13578.1	13614.5	13513.7	13285.5	9778.2
52.5°	8607.8	8694.6	9121.6	9965.8	10836.7	12131.8	14020.5	14819.9	14953.0	14782.1	10801.7
55°	7200.7	7322.5	7773.3	8880.8	10223.5	11879.8	14325.7	15518.6	16049.2	15891.0	11787.4
57.5°	5823.0	5951.8	6415.2	7487.7	9153.8	11322.5	14525.9	16297.0	17541.7	17335.9	13013.8
60°	4364.1	4498.5	4896.1	6000.8	7630.5	10233.3	14390.1	16971.9	19032.8	18944.6	14241.7
62.5°	2815.6	2964.0	3309.8	4224.1	5865.0	8745.0	13663.5	17344.3	20323.7	20217.3	15137.8
65°	1715.1	1731.9	1922.3	2622.4	4014.1	6770.8	12001.6	16850.1	21004.1	20971.9	15410.8
67.5°	1108.9	1135.5	1222.3	1570.9	2406.8	4702.9	9596.2	15219.0	20606.5	20595.3	14846.6
70°	936.7	945.1	984.3	1059.9	1398.7	2852.0	6738.6	12619.0	19095.8	19095.8	13489.9
72.5°	837.3	848.5	862.5	886.3	998.3	1615.7	4021.1	9823.0	16487.5	16596.7	11482.1
75°	760.2	757.4	765.8	770.0	851.3	1055.7	2079.1	7265.1	12754.8	12536.4	8315.1
77.5°	651.0	655.2	651.0	669.2	751.8	803.7	1055.7	4875.1	7729.9	7447.1	4173.7
80°	534.8	541.8	548.8	560.0	642.6	610.4	634.2	2221.9	2859.0	2798.8	1289.5
82.5°	401.8	411.6	422.8	449.4	505.4	403.2	400.4	949.3	1031.9	945.1	474.6
85°	162.4	191.8	289.8	316.4	317.8	221.2	246.4	396.2	421.4	411.6	186.2
87.5°	37.8	44.8	93.8	141.4	130.2	82.6	91.0	128.8	147.0	135.8	63.0
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: P453487
 CATALOG NUMBER: GALN-SA4C-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4	2398.4
2.5°	2446.0	2397.0	2312.9	2248.5	2202.3	2161.7	2136.5	2121.1	2115.5	2114.1	2115.5
5°	2528.6	2441.8	2308.7	2224.7	2178.5	2151.9	2136.5	2135.1	2136.5	2137.9	2133.7
7.5°	2642.0	2517.4	2343.8	2265.3	2230.3	2210.7	2203.7	2200.9	2202.3	2200.9	2200.9
10°	2793.2	2622.4	2412.4	2331.1	2301.7	2279.3	2268.1	2261.1	2255.5	2249.9	2247.1
12.5°	2959.8	2738.6	2486.6	2408.2	2366.2	2331.1	2305.9	2287.7	2275.1	2262.5	2259.7
15°	3146.0	2861.8	2569.2	2460.0	2399.8	2348.0	2304.5	2275.1	2252.7	2234.5	2233.1
17.5°	3323.8	2978.0	2625.2	2483.8	2395.6	2322.7	2265.3	2224.7	2196.7	2172.9	2170.1
20°	3514.2	3088.6	2650.4	2468.4	2353.6	2265.3	2189.7	2140.7	2108.5	2081.9	2077.7
22.5°	3706.0	3182.4	2647.6	2419.4	2280.7	2177.1	2097.3	2045.5	2007.7	1981.1	1971.3
25°	3889.4	3258.0	2612.6	2341.0	2179.9	2072.1	1990.9	1943.3	1909.7	1877.5	1877.5
27.5°	4054.7	3302.8	2546.8	2245.7	2076.3	1962.9	1898.5	1855.1	1824.3	1803.3	1790.7
30°	4217.1	3323.8	2457.2	2125.3	1967.1	1870.5	1818.7	1793.5	1765.5	1741.7	1738.9
32.5°	4362.7	3319.6	2345.2	2007.7	1863.5	1794.9	1773.9	1754.3	1724.9	1691.3	1682.9
35°	4504.1	3291.6	2212.1	1878.9	1776.7	1750.1	1755.7	1727.7	1674.5	1632.5	1625.5
37.5°	4658.1	3241.2	2066.5	1773.9	1703.9	1729.1	1743.1	1681.5	1594.7	1528.9	1513.5
40°	4835.9	3183.8	1915.3	1668.9	1646.5	1709.5	1709.5	1596.1	1477.1	1436.5	1425.3
42.5°	5044.5	3136.2	1789.3	1580.7	1598.9	1661.9	1654.9	1482.7	1433.7	1412.7	1407.1
45°	5374.9	3119.4	1659.1	1503.7	1559.7	1605.9	1548.5	1443.5	1415.5	1398.7	1393.1
47.5°	5897.2	3139.0	1544.3	1446.3	1514.9	1549.9	1429.5	1416.9	1397.3	1373.5	1370.7
50°	6381.6	3120.8	1463.1	1414.1	1475.7	1482.7	1380.5	1384.7	1373.5	1346.9	1341.3
52.5°	6777.8	3063.4	1411.3	1397.3	1442.1	1365.1	1334.3	1349.7	1345.5	1311.9	1306.3
55°	7213.3	3028.4	1386.1	1397.3	1419.7	1262.9	1290.9	1313.3	1307.7	1283.9	1282.5
57.5°	7741.1	3035.4	1367.9	1401.5	1397.3	1211.1	1247.5	1274.1	1272.7	1265.7	1265.7
60°	8281.5	3038.2	1339.9	1400.1	1370.7	1170.5	1202.7	1240.5	1243.3	1247.5	1247.5
62.5°	8460.7	2916.4	1285.3	1374.9	1311.9	1131.3	1160.7	1212.5	1209.7	1220.9	1222.3
65°	8126.1	2579.0	1204.1	1317.5	1236.3	1103.3	1128.5	1176.1	1160.7	1190.1	1195.7
67.5°	7396.7	2133.7	1078.1	1213.9	1152.3	1073.9	1107.5	1125.7	1097.7	1155.1	1156.5
70°	6392.8	1666.1	918.5	1066.9	1057.1	1043.1	1090.7	1062.7	1023.5	1093.5	1079.5
72.5°	5345.5	1272.7	733.6	872.3	929.7	996.9	1061.3	981.5	926.9	947.9	922.7
75°	4015.5	940.9	589.4	683.2	774.2	931.1	1034.7	883.5	799.5	779.8	774.2
77.5°	2046.9	614.6	441.0	511.0	581.0	841.5	998.3	768.6	662.2	631.4	617.4
80°	730.8	382.2	310.8	352.8	392.0	723.8	872.3	635.6	513.8	508.2	513.8
82.5°	338.8	246.4	208.6	231.0	232.4	483.0	665.0	474.6	390.6	593.6	501.2
85°	145.6	123.2	117.6	114.8	106.4	215.6	373.8	254.8	397.6	177.8	163.8
87.5°	43.4	49.0	43.4	32.2	23.8	23.8	37.8	14.0	9.8	7.0	7.0
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)