

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: P454038

Luminaire Tested: **GALN-SA5A-760-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454038
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-SA5A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23340 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

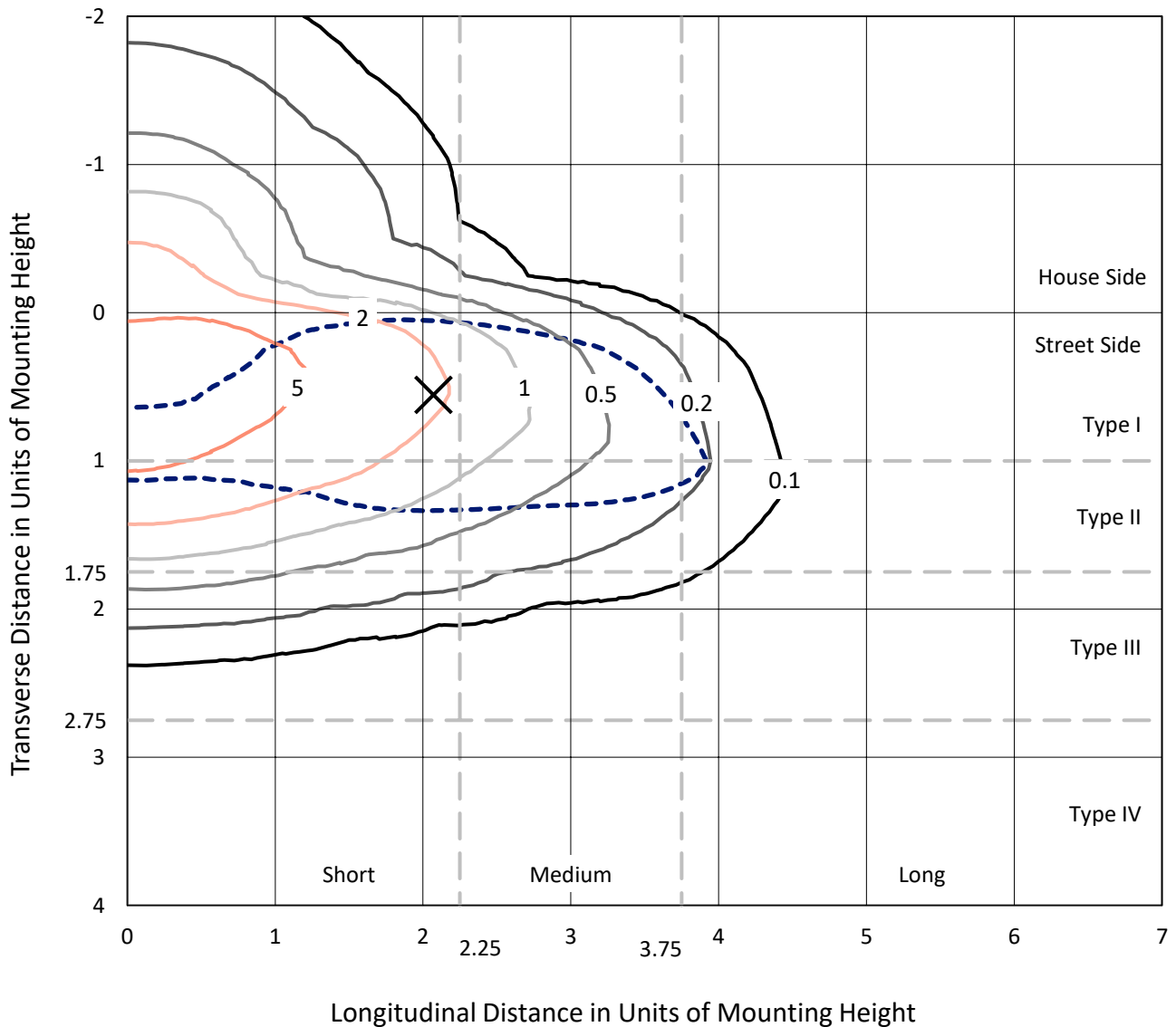
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454038
 CATALOG NUMBER: GALN-SA5A-760-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

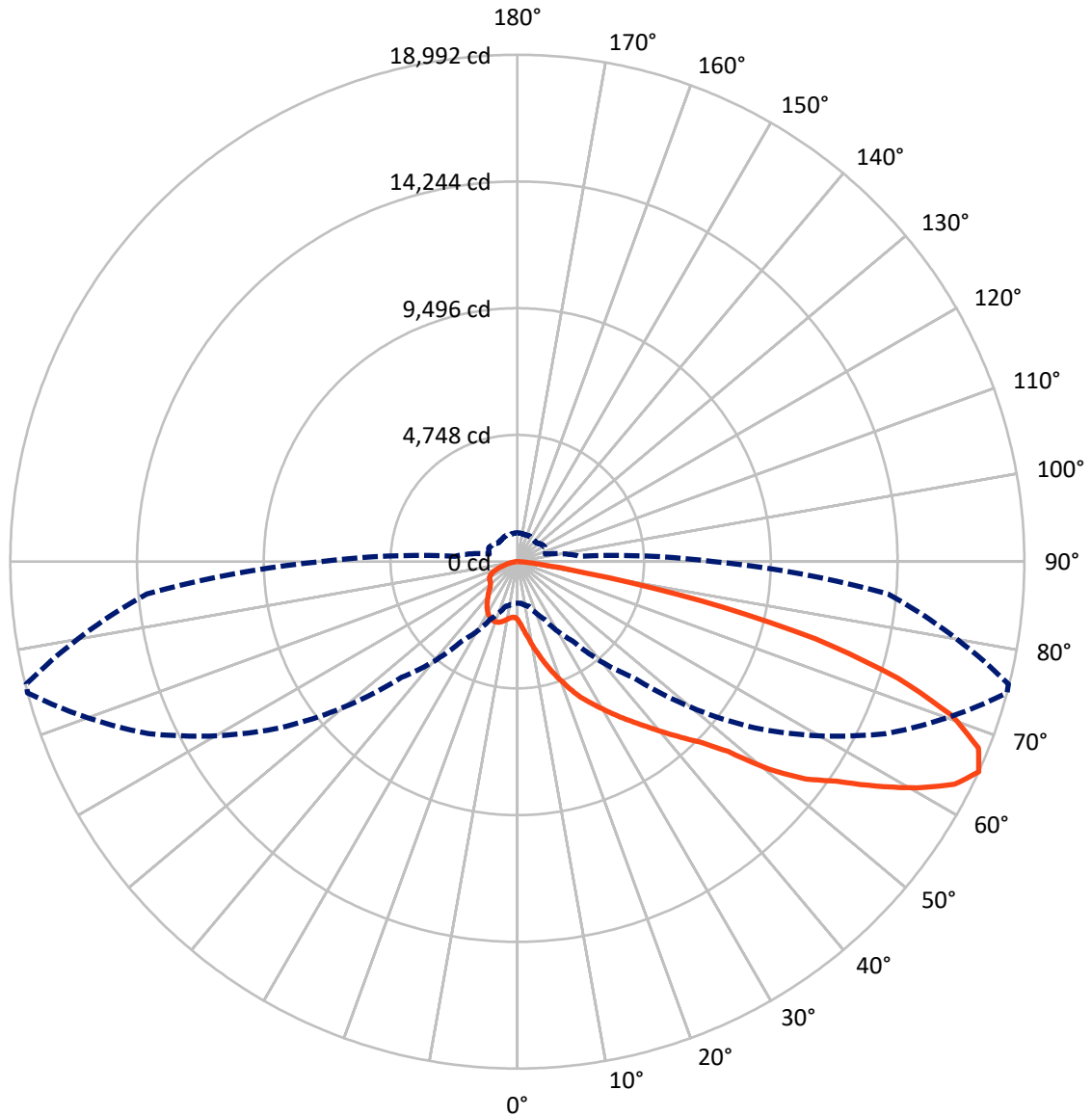
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P454038
CATALOG NUMBER: GALN-SA5A-760-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454038

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3923.8	0.0	3923.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19416.2	0.0	19416.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	23340.0	0.0	23340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	1.1
10°-20°	1032.0	4.4
20°-30°	1993.5	8.5
30°-40°	3238.0	13.9
40°-50°	4454.2	19.1
50°-60°	5258.9	22.5
60°-70°	4607.6	19.7
70°-80°	2199.7	9.4
80°-90°	292.7	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°	23340.0	100.0
0°-180°	23340.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454038

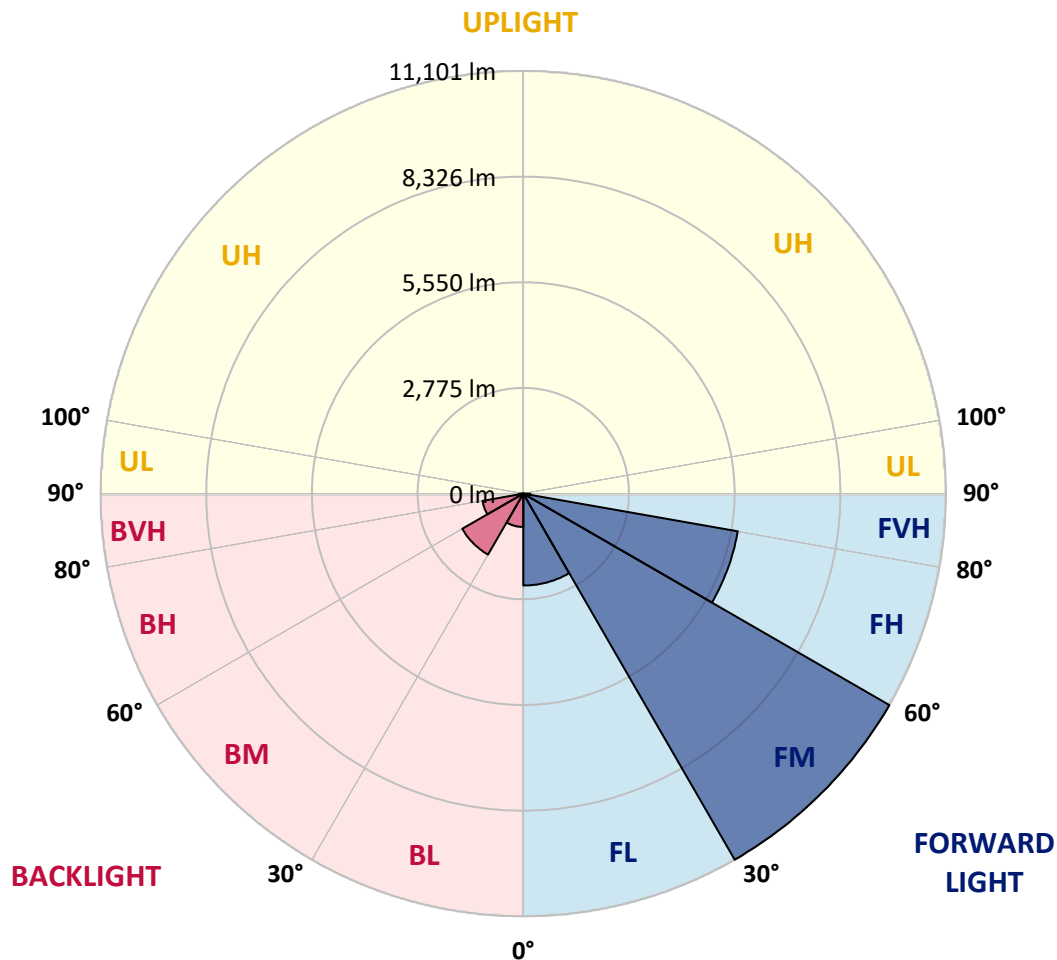
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.0	10.3			
FM (30°-60°)	11101.0	47.6			
FH (60°-80°)	5719.3	24.5			G3/7500
FVH (80°-90°)	182.9	0.8			G2/225
BL (0°-30°)	876.0	3.8	B2/1000		
BM (30°-60°)	1850.0	7.9	B2/2500		
BH (60°-80°)	1088.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	109.8	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: P454038

CATALOG NUMBER: GALN-SA5A-760-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6
2.5°	2881.3	2862.3	2842.1	2786.4	2726.9	2659.8	2563.6	2471.1	2348.3	2344.5	2253.4
5°	3680.1	3667.5	3577.6	3525.7	3387.7	3204.1	3048.4	2806.6	2582.5	2556.0	2378.7
7.5°	4414.4	4365.0	4330.8	4237.2	4100.4	3865.0	3563.7	3237.0	2862.3	2826.9	2533.2
10°	4967.6	4962.5	4944.8	4863.8	4761.3	4527.1	4192.8	3724.4	3216.8	3147.2	2720.5
12.5°	5381.6	5385.4	5382.8	5381.6	5308.1	5109.4	4747.3	4253.6	3575.1	3525.7	2937.0
15°	5653.8	5691.7	5706.9	5770.2	5776.6	5643.6	5332.2	4765.1	3978.9	3905.5	3170.0
17.5°	5833.5	5852.5	5923.4	6031.0	6118.4	6094.3	5817.1	5238.5	4391.6	4268.8	3411.7
20°	6005.7	6038.6	6093.0	6239.9	6394.3	6465.2	6270.3	5723.4	4800.5	4722.0	3678.9
22.5°	6364.0	6410.8	6429.8	6504.5	6636.1	6761.5	6672.8	6188.0	5248.6	5142.3	3962.4
25°	6970.3	7019.7	6966.5	6948.8	6991.9	7053.9	7034.9	6626.0	5671.5	5519.6	4230.8
27.5°	7760.3	7766.6	7662.8	7564.1	7457.7	7426.1	7367.9	7014.7	6038.6	5912.0	4500.5
30°	8608.5	8578.1	8405.9	8227.4	8047.7	7870.4	7703.3	7389.4	6447.5	6301.9	4765.1
32.5°	9395.9	9379.5	9188.3	8911.1	8607.2	8440.1	8102.1	7767.9	6885.5	6745.0	5037.2
35°	9985.9	10009.9	9799.8	9497.2	9165.5	9017.4	8590.8	8165.4	7338.7	7185.6	5333.5
37.5°	10404.9	10392.2	10206.1	9944.1	9652.9	9523.8	9161.7	8599.6	7826.1	7679.3	5657.6
40°	10554.3	10546.7	10408.7	10217.5	10032.7	9987.1	9759.2	9068.0	8384.4	8212.2	6047.5
42.5°	10459.3	10475.8	10384.6	10332.7	10298.5	10331.5	10353.0	9682.0	8993.3	8835.1	6470.3
45°	10168.1	10159.3	10146.6	10231.4	10423.9	10640.4	10940.4	10261.8	9655.4	9528.8	7037.4
47.5°	9647.8	9711.1	9742.8	9977.0	10397.3	10910.0	11616.4	11039.1	10616.3	10506.2	7902.1
50°	8919.9	8970.6	9157.9	9574.4	10201.1	11011.3	12277.2	12310.1	12219.0	12012.6	8841.4
52.5°	7783.1	7861.6	8247.7	9011.1	9798.5	10969.5	12677.3	13400.1	13520.4	13366.0	9766.8
55°	6510.8	6620.9	7028.6	8030.0	9244.0	10741.6	12953.3	14031.8	14511.6	14368.6	10658.1
57.5°	5265.1	5381.6	5800.6	6770.3	8276.8	10237.8	13134.3	14735.7	15861.1	15675.1	11767.1
60°	3946.0	4067.5	4427.0	5425.9	6899.5	9252.9	13011.5	15345.9	17209.4	17129.6	12877.3
62.5°	2545.8	2680.0	2992.7	3819.4	5303.1	7907.2	12354.5	15682.6	18376.6	18280.4	13687.5
65°	1550.8	1566.0	1738.2	2371.1	3629.5	6122.2	10851.8	15235.8	18991.9	18962.7	13934.4
67.5°	1002.6	1026.7	1105.2	1420.4	2176.2	4252.3	8676.9	13760.9	18632.3	18622.2	13424.2
70°	846.9	854.5	890.0	958.3	1264.7	2578.8	6093.0	11410.1	17266.4	17266.4	12197.5
72.5°	757.0	767.2	779.8	801.3	902.6	1460.9	3635.8	8881.9	14907.9	15006.6	10382.1
75°	687.4	684.9	692.5	696.3	769.7	954.5	1879.9	6569.0	11532.8	11335.4	7518.5
77.5°	588.7	592.5	588.7	605.1	679.8	726.7	954.5	4408.1	6989.3	6733.6	3773.8
80°	483.6	489.9	496.3	506.4	581.1	552.0	573.5	2009.1	2585.1	2530.6	1165.9
82.5°	363.3	372.2	382.3	406.4	457.0	364.6	362.1	858.3	933.0	854.5	429.2
85°	146.9	173.4	262.1	286.1	287.4	200.0	222.8	358.3	381.1	372.2	168.4
87.5°	34.2	40.5	84.8	127.9	117.7	74.7	82.3	116.5	132.9	122.8	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6
2.5°	2211.6	2167.3	2091.4	2033.1	1991.3	1954.6	1931.8	1917.9	1912.9	1911.6	1912.9
5°	2286.3	2207.8	2087.6	2011.6	1969.8	1945.8	1931.8	1930.6	1931.8	1933.1	1929.3
7.5°	2388.9	2276.2	2119.2	2048.3	2016.7	1998.9	1992.6	1990.1	1991.3	1990.1	1990.1
10°	2525.6	2371.1	2181.2	2107.8	2081.2	2061.0	2050.8	2044.5	2039.5	2034.4	2031.9
12.5°	2676.2	2476.2	2248.3	2177.4	2139.5	2107.8	2085.0	2068.6	2057.2	2045.8	2043.3
15°	2844.6	2587.6	2323.0	2224.3	2169.8	2123.0	2083.8	2057.2	2036.9	2020.5	2019.2
17.5°	3005.4	2692.7	2373.7	2245.8	2166.0	2100.2	2048.3	2011.6	1986.3	1964.8	1962.2
20°	3177.5	2792.7	2396.5	2231.9	2128.1	2048.3	1980.0	1935.6	1906.5	1882.5	1878.7
22.5°	3351.0	2877.5	2393.9	2187.6	2062.2	1968.6	1896.4	1849.6	1815.4	1791.3	1782.5
25°	3516.8	2945.9	2362.3	2116.7	1971.1	1873.6	1800.2	1757.1	1726.8	1697.6	1697.6
27.5°	3666.2	2986.4	2302.8	2030.6	1877.4	1774.9	1716.6	1677.4	1649.5	1630.5	1619.2
30°	3813.1	3005.4	2221.8	1921.7	1778.7	1691.3	1644.5	1621.7	1596.4	1574.8	1572.3
32.5°	3944.7	3001.6	2120.5	1815.4	1685.0	1623.0	1604.0	1586.2	1559.7	1529.3	1521.7
35°	4072.6	2976.3	2000.2	1698.9	1606.5	1582.4	1587.5	1562.2	1514.1	1476.1	1469.8
37.5°	4211.8	2930.7	1868.5	1604.0	1540.7	1563.5	1576.1	1520.4	1441.9	1382.4	1368.5
40°	4372.6	2878.8	1731.8	1509.0	1488.8	1545.7	1545.7	1443.2	1335.6	1298.9	1288.7
42.5°	4561.2	2835.7	1617.9	1429.3	1445.7	1502.7	1496.4	1340.6	1296.3	1277.3	1272.3
45°	4860.0	2820.5	1500.2	1359.6	1410.3	1452.1	1400.1	1305.2	1279.9	1264.7	1259.6
47.5°	5332.2	2838.3	1396.3	1307.7	1369.8	1401.4	1292.5	1281.1	1263.4	1241.9	1239.4
50°	5770.2	2821.8	1322.9	1278.6	1334.3	1340.6	1248.2	1252.0	1241.9	1217.8	1212.8
52.5°	6128.5	2769.9	1276.1	1263.4	1303.9	1234.3	1206.5	1220.4	1216.6	1186.2	1181.1
55°	6522.2	2738.3	1253.3	1263.4	1283.7	1141.9	1167.2	1187.5	1182.4	1160.9	1159.6
57.5°	6999.5	2744.6	1236.8	1267.2	1263.4	1095.1	1128.0	1152.0	1150.8	1144.4	1144.4
60°	7488.1	2747.1	1211.5	1266.0	1239.4	1058.3	1087.5	1121.6	1124.2	1128.0	1128.0
62.5°	7650.2	2637.0	1162.1	1243.2	1186.2	1022.9	1049.5	1096.3	1093.8	1103.9	1105.2
65°	7347.6	2331.9	1088.7	1191.3	1117.8	997.6	1020.4	1063.4	1049.5	1076.1	1081.1
67.5°	6688.0	1929.3	974.8	1097.6	1041.9	971.0	1001.4	1017.8	992.5	1044.4	1045.7
70°	5780.4	1506.5	830.5	964.7	955.8	943.1	986.2	960.9	925.4	988.7	976.1
72.5°	4833.4	1150.8	663.4	788.7	840.6	901.4	959.6	887.4	838.1	857.1	834.3
75°	3630.8	850.7	533.0	617.8	700.1	841.9	935.5	798.8	722.9	705.1	700.1
77.5°	1850.8	555.8	398.8	462.1	525.4	760.8	902.6	695.0	598.8	570.9	558.3
80°	660.8	345.6	281.0	319.0	354.5	654.5	788.7	574.7	464.6	459.5	464.6
82.5°	306.4	222.8	188.6	208.9	210.1	436.8	601.3	429.2	353.2	536.8	453.2
85°	131.7	111.4	106.3	103.8	96.2	195.0	338.0	230.4	359.5	160.8	148.1
87.5°	39.2	44.3	39.2	29.1	21.5	21.5	34.2	12.7	8.9	6.3	6.3
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)