

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: P453951

Luminaire Tested: **GALN-SA5A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453951
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-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 21256 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

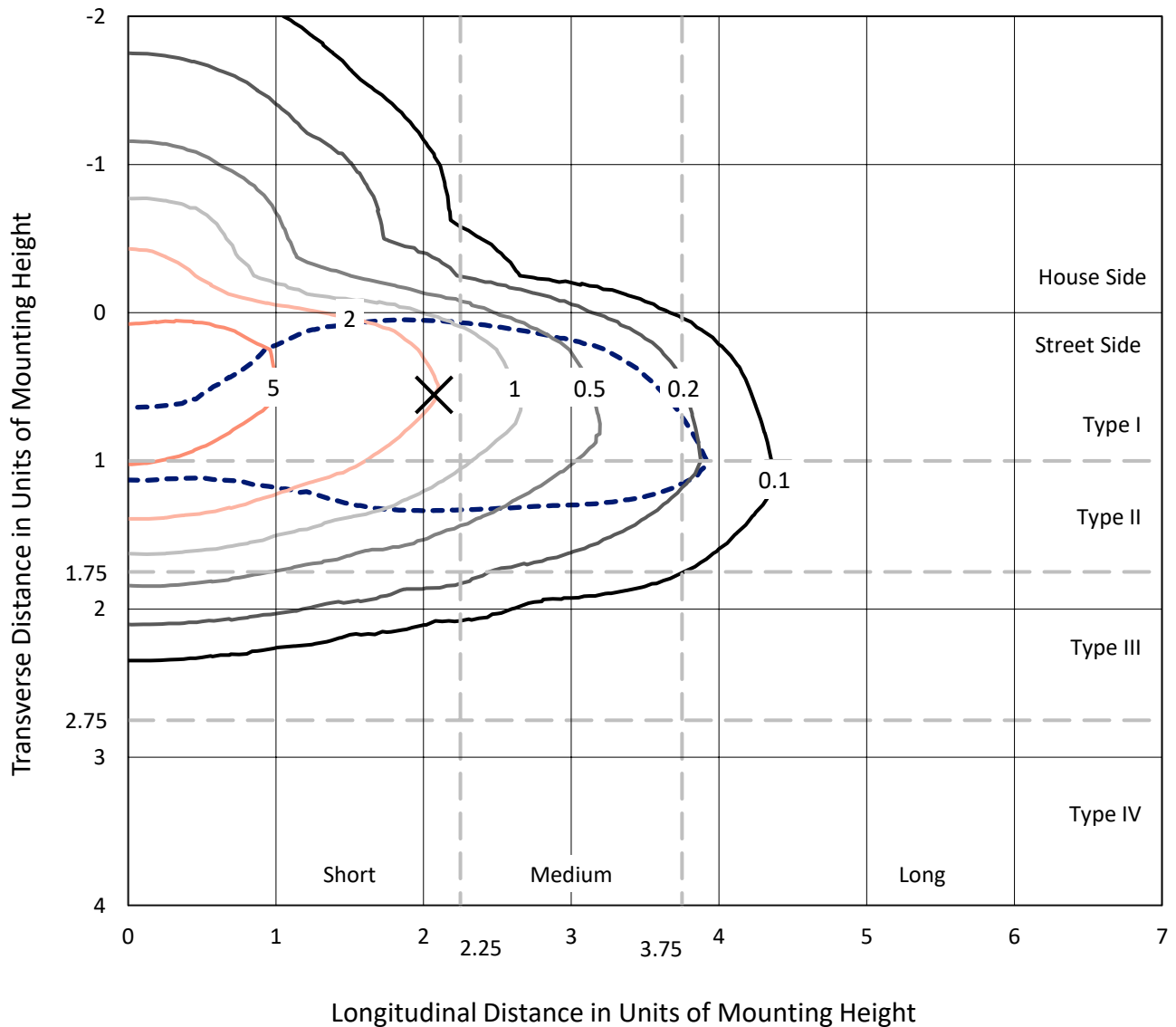
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453951
 CATALOG NUMBER: GALN-SA5A-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

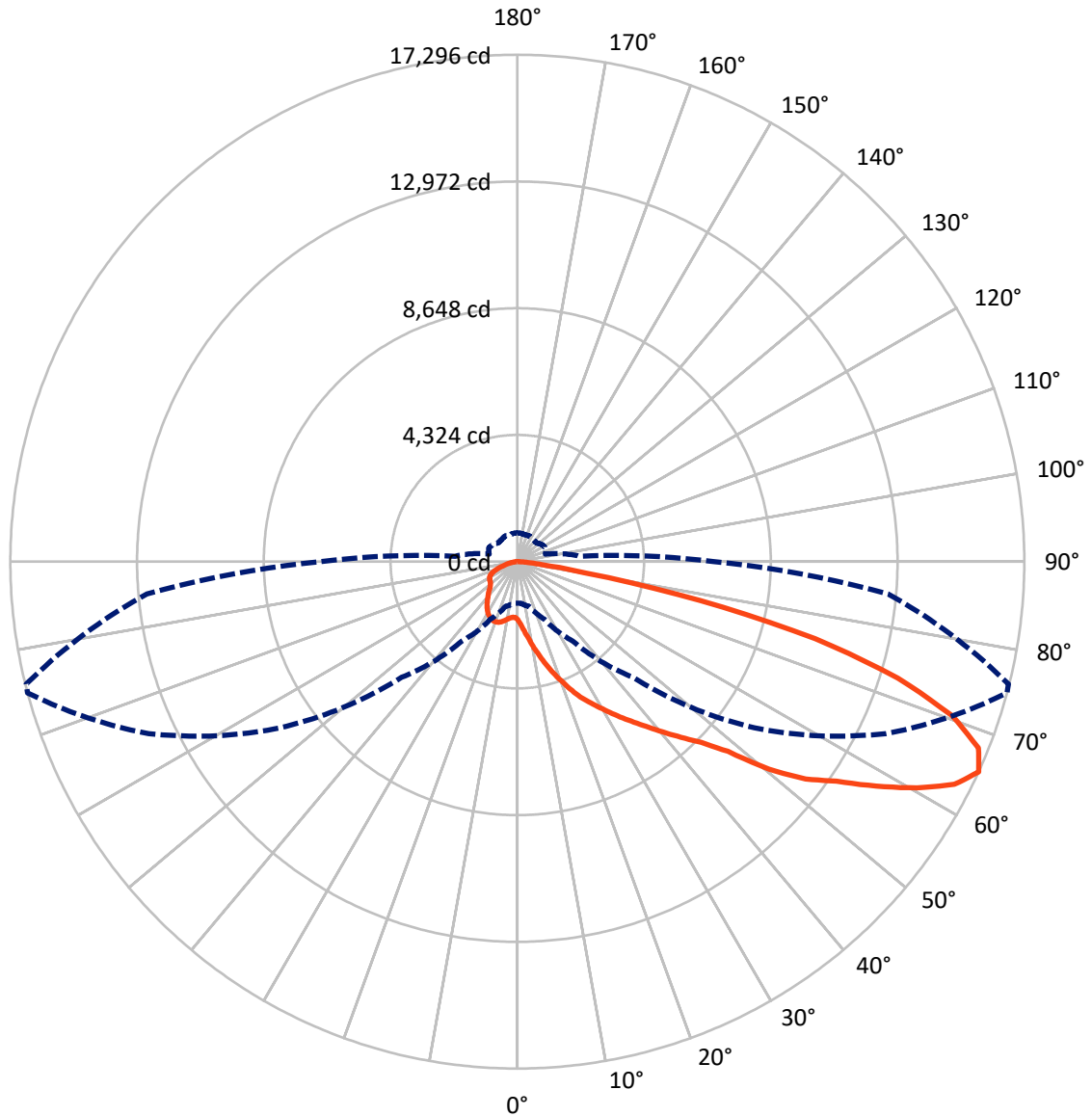
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

REPORT NUMBER: P453951
CATALOG NUMBER: GALN-SA5A-730-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453951

CATALOG NUMBER: GALN-SA5A-730-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3573.4	0.0	3573.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17682.6	0.0	17682.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	21256.0	0.0	21256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	1.1
10°-20°	939.9	4.4
20°-30°	1815.5	8.5
30°-40°	2948.9	13.9
40°-50°	4056.5	19.1
50°-60°	4789.3	22.5
60°-70°	4196.2	19.7
70°-80°	2003.3	9.4
80°-90°	266.6	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°	21256.0	100.0
0°-180°	21256.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453951

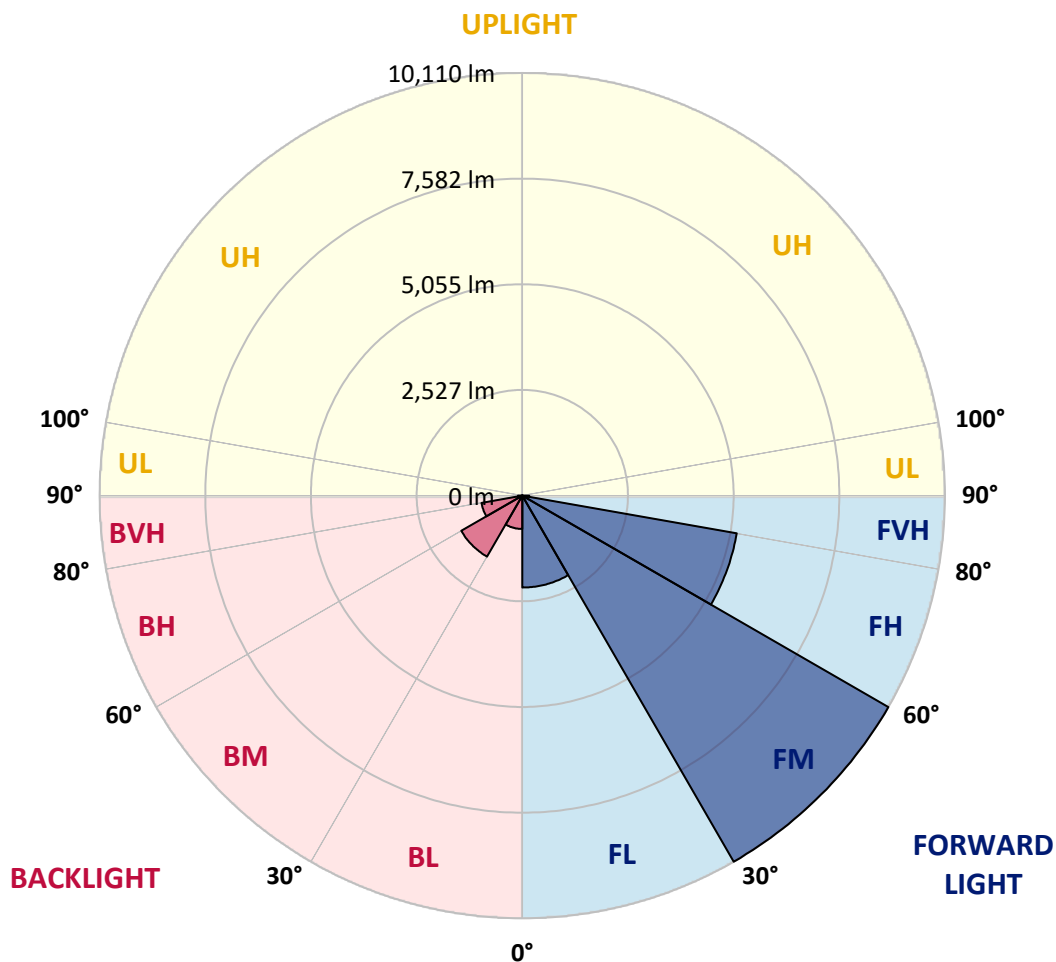
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2197.5	10.3			
FM	(30°-60°)	10109.8	47.6			
FH	(60°-80°)	5208.7	24.5			G3/7500
FVH	(80°-90°)	166.6	0.8			G2/225
BL	(0°-30°)	797.8	3.8	B2/1000		
BM	(30°-60°)	1684.8	7.9	B2/2500		
BH	(60°-80°)	990.8	4.7	B2/1000		G2/1000
BVH	(80°-90°)	100.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P453951

CATALOG NUMBER: GALN-SA5A-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0
2.5°	2624.0	2606.8	2588.3	2537.6	2483.4	2422.3	2334.7	2250.5	2138.7	2135.2	2052.2
5°	3351.5	3340.0	3258.2	3210.9	3085.2	2918.0	2776.2	2556.0	2352.0	2327.7	2166.3
7.5°	4020.2	3975.3	3944.1	3858.8	3734.3	3519.9	3245.5	2948.0	2606.8	2574.5	2307.0
10°	4524.1	4519.4	4503.3	4429.5	4336.1	4122.8	3818.5	3391.9	2929.6	2866.2	2477.6
12.5°	4901.1	4904.5	4902.2	4901.1	4834.2	4653.2	4323.4	3873.8	3255.8	3210.9	2674.8
15°	5148.9	5183.5	5197.4	5255.0	5260.8	5139.7	4856.1	4339.6	3623.6	3556.8	2886.9
17.5°	5312.7	5329.9	5394.5	5492.5	5572.1	5550.2	5297.7	4770.8	3999.5	3887.6	3107.1
20°	5469.4	5499.4	5549.0	5682.7	5823.4	5888.0	5710.4	5212.3	4371.9	4300.4	3350.4
22.5°	5795.7	5838.4	5855.7	5923.7	6043.6	6157.7	6077.0	5635.5	4780.0	4683.2	3608.6
25°	6348.0	6392.9	6344.5	6328.4	6367.6	6424.1	6406.8	6034.4	5165.1	5026.7	3853.1
27.5°	7067.4	7073.2	6978.6	6888.7	6791.8	6763.0	6710.0	6388.3	5499.4	5384.1	4098.6
30°	7839.9	7812.2	7655.4	7492.8	7329.1	7167.7	7015.5	6729.6	5871.8	5739.2	4339.6
32.5°	8557.0	8542.0	8367.9	8115.4	7838.7	7686.5	7378.7	7074.3	6270.7	6142.8	4587.5
35°	9094.2	9116.1	8924.7	8649.2	8347.1	8212.2	7823.7	7436.3	6683.5	6544.0	4857.2
37.5°	9475.8	9464.3	9294.8	9056.2	8791.0	8673.4	8343.7	7831.8	7127.3	6993.6	5152.4
40°	9611.9	9605.0	9479.3	9305.2	9136.9	9095.4	8887.9	8258.4	7635.8	7479.0	5507.5
42.5°	9525.4	9540.4	9457.4	9410.1	9379.0	9409.0	9428.6	8817.5	8190.3	8046.2	5892.6
45°	9260.2	9252.2	9240.6	9317.9	9493.1	9690.3	9963.5	9345.6	8793.3	8678.0	6409.1
47.5°	8786.4	8844.0	8872.9	9086.2	9468.9	9935.9	10579.2	10053.5	9668.4	9568.1	7196.5
50°	8123.5	8169.6	8340.2	8719.5	9290.2	10028.1	11181.0	11211.0	11128.0	10940.1	8052.0
52.5°	7088.1	7159.6	7511.3	8206.5	8923.6	9990.0	11545.3	12203.7	12313.2	12172.5	8894.8
55°	5929.5	6029.8	6401.0	7313.0	8418.6	9782.5	11796.7	12779.0	13215.9	13085.6	9706.4
57.5°	4795.0	4901.1	5282.7	6165.8	7537.8	9323.7	11961.5	13420.0	14444.9	14275.4	10716.4
60°	3593.6	3704.3	4031.8	4941.4	6283.4	8426.7	11849.7	13975.7	15672.8	15600.2	11727.5
62.5°	2318.5	2440.7	2725.5	3478.4	4829.6	7201.1	11251.3	14282.4	16735.8	16648.2	12465.4
65°	1412.3	1426.2	1583.0	2159.4	3305.4	5575.5	9882.8	13875.4	17296.1	17269.6	12690.2
67.5°	913.1	935.0	1006.5	1293.6	1981.9	3872.7	7902.1	12532.2	16968.7	16959.4	12225.6
70°	771.3	778.2	810.5	872.8	1151.8	2348.5	5549.0	10391.3	15724.7	15724.7	11108.4
72.5°	689.4	698.7	710.2	729.8	822.0	1330.5	3311.2	8088.9	13576.8	13666.7	9455.1
75°	626.0	623.7	630.6	634.1	701.0	869.3	1712.1	5982.5	10503.1	10323.2	6847.2
77.5°	536.1	539.6	536.1	551.1	619.1	661.8	869.3	4014.5	6365.3	6132.4	3436.9
80°	440.4	446.2	451.9	461.2	529.2	502.7	522.3	1829.7	2354.3	2304.7	1061.8
82.5°	330.9	339.0	348.2	370.1	416.2	332.0	329.7	781.7	849.7	778.2	390.8
85°	133.7	157.9	238.7	260.6	261.7	182.2	202.9	326.3	347.0	339.0	153.3
87.5°	31.1	36.9	77.2	116.4	107.2	68.0	74.9	106.1	121.1	111.8	51.9
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°	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0	1975.0
2.5°	2014.2	1973.8	1904.6	1851.6	1813.5	1780.1	1759.4	1746.7	1742.1	1740.9	1742.1
5°	2082.2	2010.7	1901.2	1832.0	1793.9	1772.0	1759.4	1758.2	1759.4	1760.5	1757.0
7.5°	2175.6	2072.9	1930.0	1865.4	1836.6	1820.5	1814.7	1812.4	1813.5	1812.4	1812.4
10°	2300.1	2159.4	1986.5	1919.6	1895.4	1877.0	1867.7	1862.0	1857.4	1852.7	1850.4
12.5°	2437.3	2255.1	2047.6	1983.0	1948.4	1919.6	1898.9	1883.9	1873.5	1863.1	1860.8
15°	2590.6	2356.6	2115.6	2025.7	1976.1	1933.4	1897.7	1873.5	1855.0	1840.1	1838.9
17.5°	2737.0	2452.3	2161.7	2045.3	1972.6	1912.7	1865.4	1832.0	1808.9	1789.3	1787.0
20°	2893.8	2543.3	2182.5	2032.6	1938.1	1865.4	1803.2	1762.8	1736.3	1714.4	1710.9
22.5°	3051.8	2620.6	2180.2	1992.2	1878.1	1792.8	1727.1	1684.4	1653.3	1631.4	1623.3
25°	3202.8	2682.8	2151.3	1927.7	1795.1	1706.3	1639.5	1600.3	1572.6	1546.1	1546.1
27.5°	3338.9	2719.7	2097.2	1849.3	1709.8	1616.4	1563.4	1527.6	1502.3	1485.0	1474.6
30°	3472.6	2737.0	2023.4	1750.1	1619.9	1540.3	1497.6	1476.9	1453.8	1434.2	1431.9
32.5°	3592.5	2733.6	1931.1	1653.3	1534.5	1478.0	1460.7	1444.6	1420.4	1392.7	1385.8
35°	3708.9	2710.5	1821.6	1547.2	1463.1	1441.1	1445.8	1422.7	1378.9	1344.3	1338.5
37.5°	3835.8	2669.0	1701.7	1460.7	1403.1	1423.9	1435.4	1384.7	1313.2	1259.0	1246.3
40°	3982.2	2621.7	1577.2	1374.3	1355.8	1407.7	1407.7	1314.3	1216.3	1182.9	1173.7
42.5°	4154.0	2582.5	1473.4	1301.6	1316.6	1368.5	1362.8	1220.9	1180.6	1163.3	1158.7
45°	4426.1	2568.7	1366.2	1238.2	1284.4	1322.4	1275.1	1188.7	1165.6	1151.8	1147.2
47.5°	4856.1	2584.8	1271.7	1191.0	1247.5	1276.3	1177.1	1166.8	1150.6	1131.0	1128.7
50°	5255.0	2569.9	1204.8	1164.4	1215.2	1220.9	1136.8	1140.2	1131.0	1109.1	1104.5
52.5°	5581.3	2522.6	1162.1	1150.6	1187.5	1124.1	1098.7	1111.4	1108.0	1080.3	1075.7
55°	5939.8	2493.8	1141.4	1150.6	1169.1	1039.9	1063.0	1081.4	1076.8	1057.2	1056.1
57.5°	6374.5	2499.5	1126.4	1154.1	1150.6	997.3	1027.3	1049.2	1048.0	1042.2	1042.2
60°	6819.5	2501.8	1103.3	1152.9	1128.7	963.8	990.4	1021.5	1023.8	1027.3	1027.3
62.5°	6967.1	2401.5	1058.4	1132.2	1080.3	931.6	955.8	998.4	996.1	1005.3	1006.5
65°	6691.5	2123.7	991.5	1084.9	1018.0	908.5	929.3	968.5	955.8	980.0	984.6
67.5°	6090.9	1757.0	887.7	999.6	948.9	884.3	912.0	926.9	903.9	951.2	952.3
70°	5264.2	1372.0	756.3	878.5	870.5	858.9	898.1	875.1	842.8	900.4	888.9
72.5°	4401.8	1048.0	604.1	718.3	765.5	820.9	873.9	808.2	763.2	780.5	759.8
75°	3306.6	774.8	485.4	562.6	637.6	766.7	852.0	727.5	658.3	642.2	637.6
77.5°	1685.6	506.1	363.2	420.8	478.5	692.9	822.0	633.0	545.3	520.0	508.4
80°	601.8	314.7	255.9	290.5	322.8	596.1	718.3	523.4	423.1	418.5	423.1
82.5°	279.0	202.9	171.8	190.2	191.4	397.8	547.6	390.8	321.7	488.8	412.7
85°	119.9	101.5	96.8	94.5	87.6	177.5	307.8	209.8	327.4	146.4	134.9
87.5°	35.7	40.4	35.7	26.5	19.6	19.6	31.1	11.5	8.1	5.8	5.8
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)