

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: P522851

Luminaire Tested: **GALN-SA7C-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49004 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

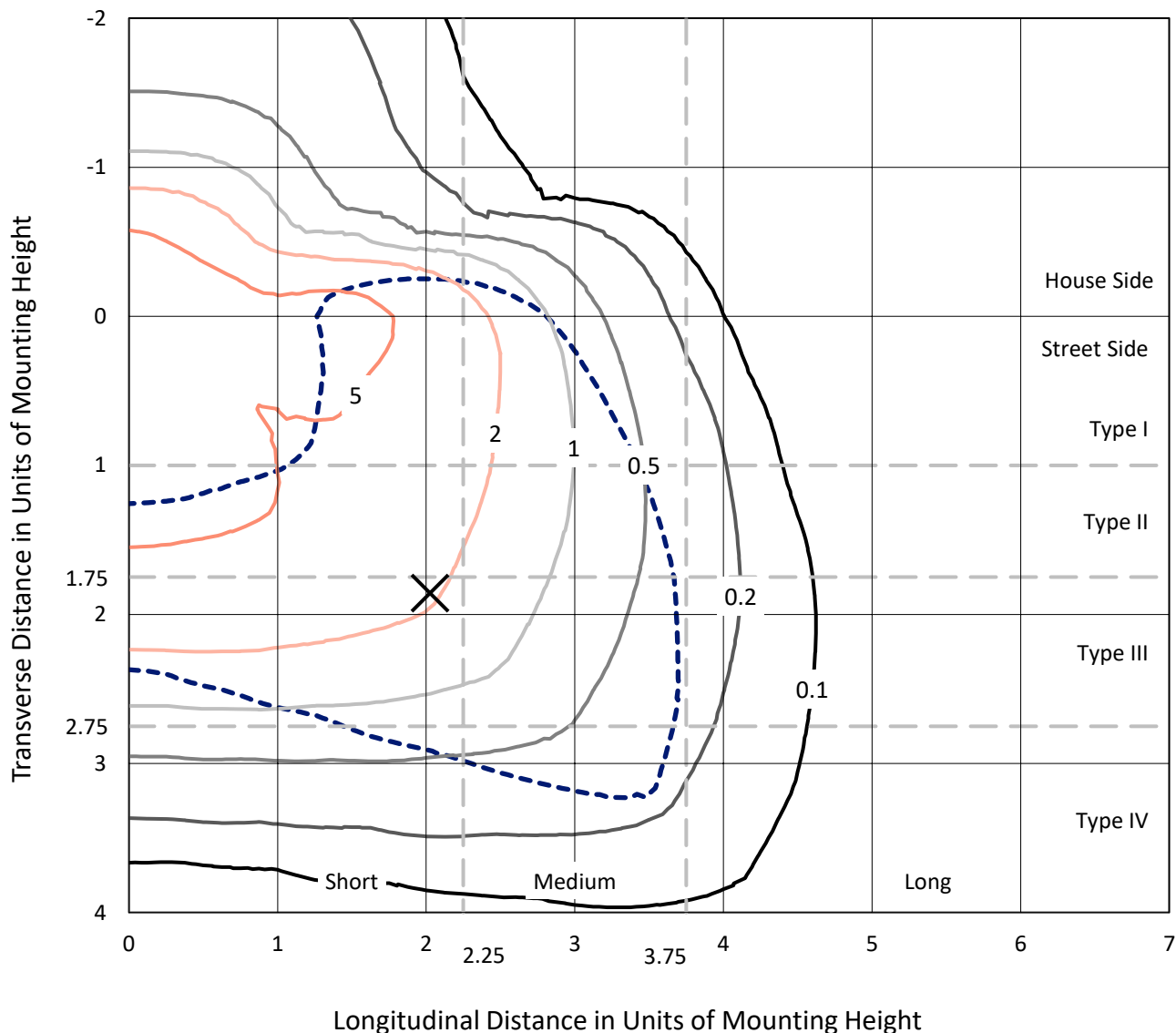
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522851
 CATALOG NUMBER: GALN-SA7C-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

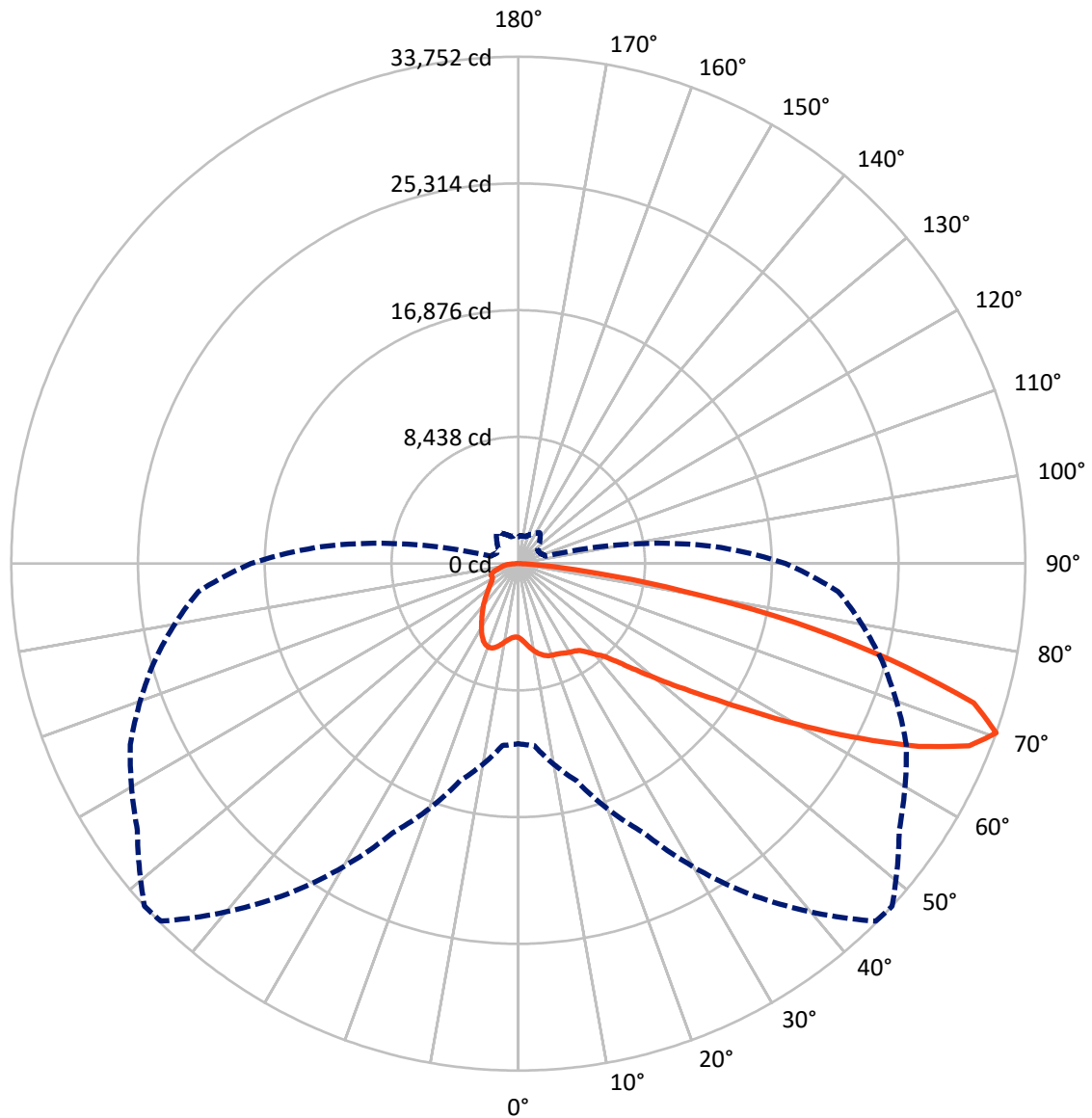
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P522851
CATALOG NUMBER: GALN-SA7C-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522851

CATALOG NUMBER: GALN-SA7C-740-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11095.5	0.0	11095.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	37908.5	0.0	37908.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	49004.0	0.0	49004.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.1	1.0
10°-20°	1695.2	3.5
20°-30°	2819.2	5.8
30°-40°	3995.7	8.2
40°-50°	5898.6	12.0
50°-60°	10216.6	20.8
60°-70°	14431.2	29.4
70°-80°	8295.8	16.9
80°-90°	1144.6	2.3
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°	49004.0	100.0
0°-180°	49004.0	100.0



REPORT NUMBER: P522851

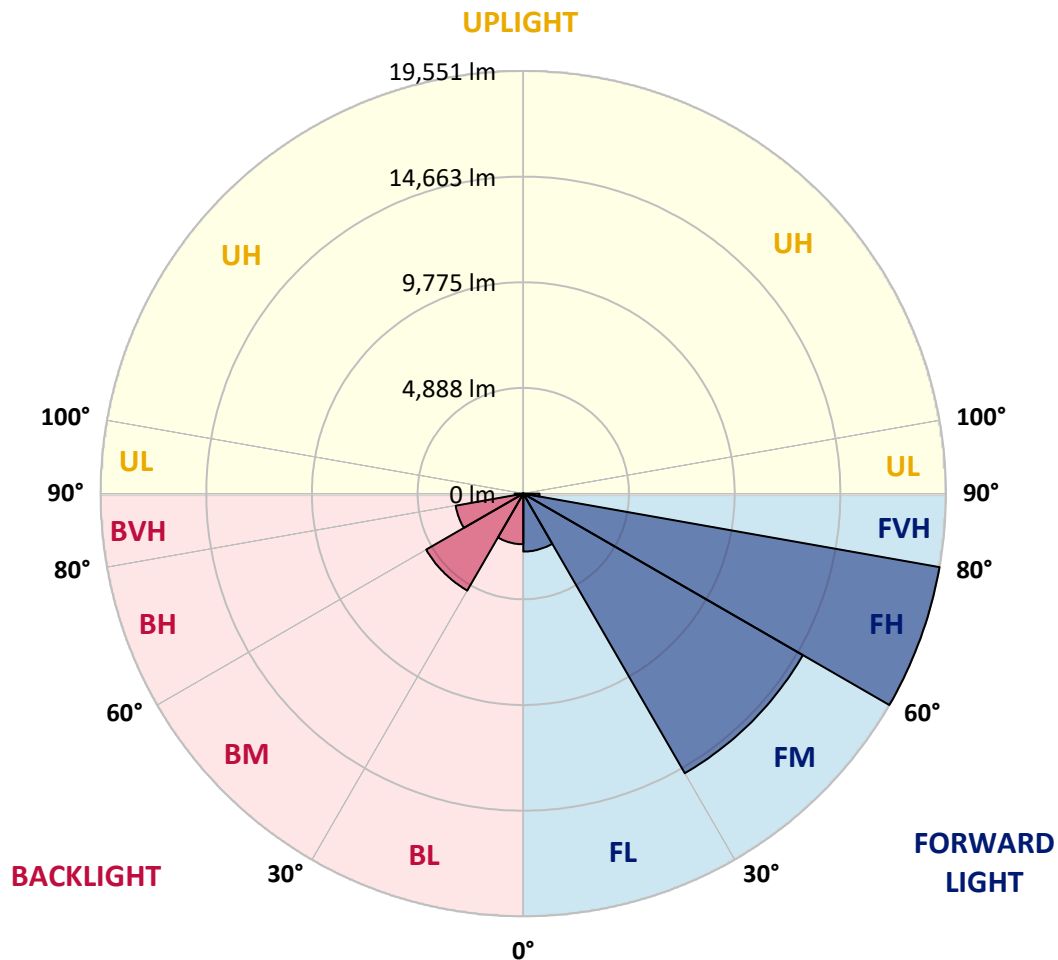
CATALOG NUMBER: GALN-SA7C-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2679.7	5.5			
FM	(30°-60°)	14930.6	30.5			
FH	(60°-80°)	19550.6	39.9			G5
FVH	(80°-90°)	747.7	1.5			G4/750
BL	(0°-30°)	2341.8	4.8	B3/2500		
BM	(30°-60°)	5180.3	10.6	B4/8500		
BH	(60°-80°)	3176.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	396.9	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P522851

CATALOG NUMBER: GALN-SA7C-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4
2.5°	5236.7	5218.4	5215.7	5176.4	5155.4	5116.1	5100.3	5063.6	5019.1	4974.5	4932.5
5°	5648.4	5648.4	5630.1	5575.0	5488.4	5399.3	5360.0	5289.2	5163.3	5061.0	4974.5
7.5°	6070.6	6075.8	6039.1	5957.8	5834.6	5690.4	5653.7	5548.8	5370.4	5221.0	5092.5
10°	6435.1	6435.1	6385.3	6275.1	6120.4	5963.1	5926.4	5808.4	5609.1	5422.9	5255.1
12.5°	6713.1	6713.1	6647.5	6503.3	6335.4	6193.8	6151.9	6039.1	5852.9	5645.8	5433.4
15°	6894.0	6880.9	6807.5	6644.9	6482.3	6359.0	6330.2	6235.8	6065.4	5855.6	5616.9
17.5°	6901.9	6896.6	6825.8	6689.5	6547.9	6463.9	6445.6	6382.6	6248.9	6049.6	5797.9
20°	6749.8	6760.3	6713.1	6616.0	6547.9	6511.1	6503.3	6482.3	6387.9	6201.7	5950.0
22.5°	6587.2	6605.5	6561.0	6508.5	6503.3	6540.0	6545.2	6550.5	6490.2	6309.2	6078.5
25°	6547.9	6561.0	6516.4	6469.2	6498.0	6595.1	6616.0	6637.0	6589.8	6437.7	6230.6
27.5°	6747.1	6736.7	6650.1	6547.9	6566.2	6697.3	6726.2	6749.8	6726.2	6595.1	6419.4
30°	7310.9	7276.8	7103.8	6804.8	6710.4	6802.2	6831.1	6896.6	6896.6	6799.6	6623.9
32.5°	8255.0	8189.4	7872.1	7284.7	6956.9	6901.9	6930.7	7038.2	7093.3	7017.2	6825.8
35°	9400.9	9332.7	8879.1	8089.8	7408.0	7101.2	7093.3	7213.9	7360.8	7190.3	6941.2
37.5°	10552.1	10481.3	9935.8	9049.5	8066.2	7520.7	7473.5	7515.5	7578.4	7266.4	7101.2
40°	11703.3	11619.4	11142.1	10122.0	8871.2	8076.6	7953.4	7764.6	7738.4	7515.5	7410.6
42.5°	12844.0	12767.9	12526.7	11325.7	9836.2	8619.5	8430.7	8105.5	8205.1	8071.4	7979.6
45°	13995.2	14000.4	13743.4	12676.1	11000.5	9621.2	9366.8	8858.1	9094.1	9044.3	9096.7
47.5°	15015.2	15002.1	14910.3	13987.3	12445.4	10911.3	10583.6	9993.5	10397.4	10580.9	10982.1
50°	16003.8	15996.0	16001.2	15474.1	14123.6	12445.4	12083.5	11464.6	12374.6	13011.8	13730.3
52.5°	17419.9	17464.4	17147.1	17008.2	16163.8	14257.4	13858.8	13219.0	14711.0	15715.4	17118.3
55°	18841.1	18804.4	18555.3	18699.5	18298.3	16402.4	15985.5	15476.7	17312.3	18411.1	20519.4
57.5°	19677.6	19690.8	19945.1	20650.5	20933.7	19077.1	18699.5	18306.2	20236.2	21015.0	23545.5
60°	20430.2	20490.6	21222.2	22554.3	23322.6	22362.9	22027.2	21644.4	22918.8	23228.2	26173.1
62.5°	20666.3	20852.4	22129.5	24122.4	25651.2	26070.8	25653.8	24809.5	25472.9	25352.3	27953.6
65°	19488.8	19743.2	22032.5	24709.8	27730.7	29589.9	29325.0	27756.9	27649.4	26923.0	28244.7
67.5°	16389.3	16643.7	19583.2	23477.3	28590.8	32637.0	32372.1	29907.2	28971.0	27069.9	26041.9
70°	11991.7	12151.7	14962.8	19766.8	26862.7	33659.7	33751.5	30956.1	28499.0	25074.3	21382.1
72.5°	6909.7	7263.7	9233.1	13906.0	21945.9	31074.1	31711.3	28774.4	25514.9	20918.0	14949.7
75°	2971.1	2978.9	4269.1	7670.2	14863.1	24977.3	25593.5	23852.3	20036.9	14464.5	7982.2
77.5°	1413.4	1439.6	1877.6	3424.7	8181.5	17257.3	18919.8	16850.8	12815.1	6949.1	3015.6
80°	917.8	936.2	1148.6	1699.2	4012.1	10006.7	11165.7	9720.8	5653.7	2483.3	1300.7
82.5°	555.9	561.2	768.3	1038.4	2208.0	4531.3	5341.6	4219.3	2412.5	1486.8	765.7
85°	338.3	340.9	466.8	642.5	1340.0	1565.5	1607.5	1594.4	1416.0	972.9	409.1
87.5°	162.6	167.8	241.3	304.2	527.1	485.1	458.9	532.3	668.7	524.5	175.7
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: P522851

CATALOG NUMBER: GALN-SA7C-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4	4919.4
2.5°	4914.2	4906.3	4887.9	4880.1	4874.8	4877.5	4874.8	4874.8	4877.5	4877.5	4877.5
5°	4937.8	4924.7	4895.8	4895.8	4911.5	4948.3	4982.3	5008.6	5037.4	5034.8	5034.8
7.5°	5040.0	5016.4	4982.3	4992.8	5032.2	5089.9	5150.2	5207.9	5265.6	5270.8	5268.2
10°	5189.5	5165.9	5129.2	5142.3	5205.2	5291.8	5367.8	5451.7	5514.7	5533.0	5527.8
12.5°	5360.0	5312.8	5281.3	5318.0	5417.6	5533.0	5606.5	5669.4	5714.0	5740.2	5729.7
15°	5533.0	5488.4	5451.7	5527.8	5648.4	5755.9	5792.6	5803.1	5811.0	5837.2	5832.0
17.5°	5700.9	5640.5	5627.4	5727.1	5842.5	5889.7	5868.7	5824.1	5790.0	5811.0	5808.4
20°	5850.3	5803.1	5797.9	5897.5	5942.1	5897.5	5808.4	5729.7	5669.4	5674.6	5672.0
22.5°	5991.9	5955.2	5960.5	6002.4	5931.6	5779.5	5632.7	5525.2	5459.6	5472.7	5480.6
25°	6149.3	6112.6	6125.7	6057.5	5824.1	5559.3	5346.8	5255.1	5228.8	5255.1	5273.4
27.5°	6353.8	6330.2	6322.3	6060.1	5632.7	5234.1	4992.8	4958.7	4982.3	5040.0	5068.9
30°	6574.1	6574.1	6532.1	6015.5	5370.4	4843.4	4633.6	4638.8	4720.1	4801.4	4830.3
32.5°	6786.5	6831.1	6699.9	5894.9	5032.2	4463.1	4303.2	4308.4	4379.2	4478.9	4505.1
35°	6962.2	7090.7	6844.2	5674.6	4633.6	4143.2	4022.6	3951.8	3954.4	4030.5	4051.4
37.5°	7203.4	7442.1	6928.1	5346.8	4208.8	3870.5	3734.1	3610.9	3529.6	3498.1	3498.1
40°	7623.0	7974.4	6949.1	4861.7	3807.6	3610.9	3416.8	3270.0	3112.7	2971.1	2944.8
42.5°	8333.6	8776.8	6907.1	4303.2	3445.7	3325.1	3136.3	2955.3	2737.7	2538.4	2522.6
45°	9592.3	9820.5	6794.3	3723.6	3123.1	3049.7	2866.2	2669.5	2438.7	2260.4	2247.3
47.5°	11608.9	11286.3	6644.9	3209.7	2829.4	2808.5	2666.9	2438.7	2208.0	2084.7	2071.6
50°	14553.7	13593.9	6623.9	2837.3	2593.4	2603.9	2488.6	2278.8	2076.9	1974.6	1958.8
52.5°	18099.0	16381.4	6762.9	2575.1	2386.3	2425.6	2367.9	2173.9	1995.6	1909.0	1893.3
55°	21539.5	18888.3	6846.8	2370.5	2192.2	2265.7	2273.5	2110.9	1948.4	1861.8	1851.3
57.5°	24332.2	20776.4	6474.4	2184.4	2024.4	2137.2	2194.9	2074.2	1924.8	1859.2	1848.7
60°	26275.3	21668.0	5415.0	2019.2	1901.2	2034.9	2166.0	2076.9	1982.4	1990.3	1995.6
62.5°	26894.2	21272.0	4061.9	1895.9	1817.2	2000.8	2213.2	2184.4	2087.3	2147.7	2158.1
65°	25868.9	19635.7	2944.8	1798.9	1743.8	2024.4	2354.8	2263.0	2050.6	2095.2	2095.2
67.5°	22436.3	16916.4	2291.9	1709.7	1659.9	2069.0	2496.4	2255.2	1964.1	2016.5	1969.3
70°	17797.5	13085.2	1909.0	1610.1	1570.8	2003.4	2509.5	2173.9	1861.8	1872.3	1783.2
72.5°	11810.8	8603.7	1641.6	1515.7	1434.4	1801.5	2402.0	2069.0	1762.2	1701.9	1612.7
75°	5787.4	4290.1	1431.8	1397.7	1256.1	1568.1	2255.2	1969.3	1654.7	1560.3	1510.4
77.5°	2242.1	1825.1	1222.0	1248.2	1093.5	1381.9	2061.1	1827.7	1513.1	1384.6	1345.2
80°	1088.2	1035.8	1001.7	1041.0	899.4	1177.4	1882.8	1704.5	1381.9	1240.3	1182.7
82.5°	676.6	639.8	768.3	810.3	692.3	1075.1	1785.8	1599.6	1216.7	1027.9	980.7
85°	343.5	367.1	514.0	553.3	495.6	854.9	1471.1	1201.0	878.5	729.0	734.2
87.5°	131.1	175.7	270.1	291.1	264.9	451.0	810.3	700.2	563.8	382.9	354.0
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)