

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: P522899

Luminaire Tested: **GALN-SA8D-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522899
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-SA8D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45955 lumens
Efficiency: N/A
Efficacy: 93.2 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

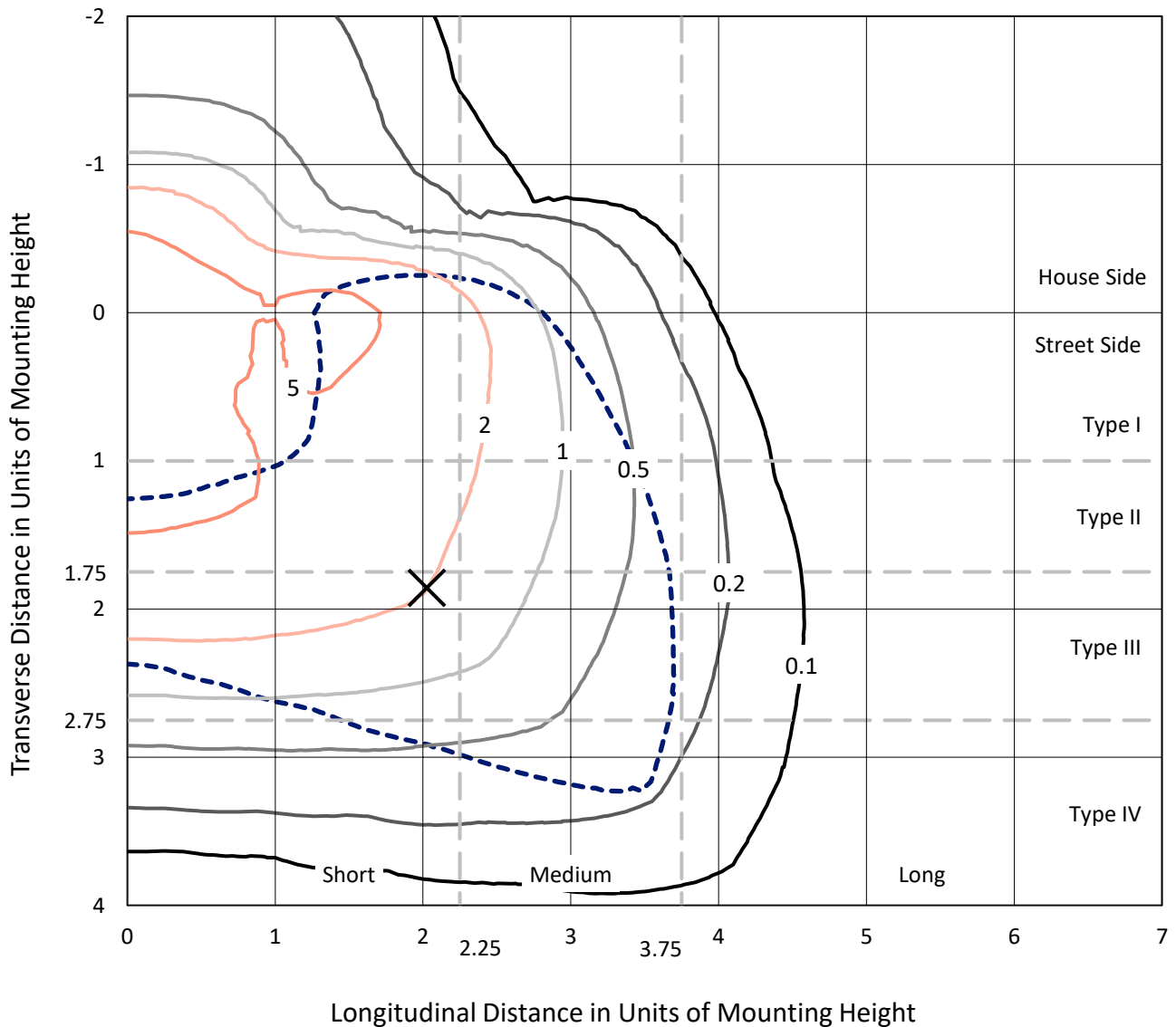
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522899
 CATALOG NUMBER: GALN-SA8D-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

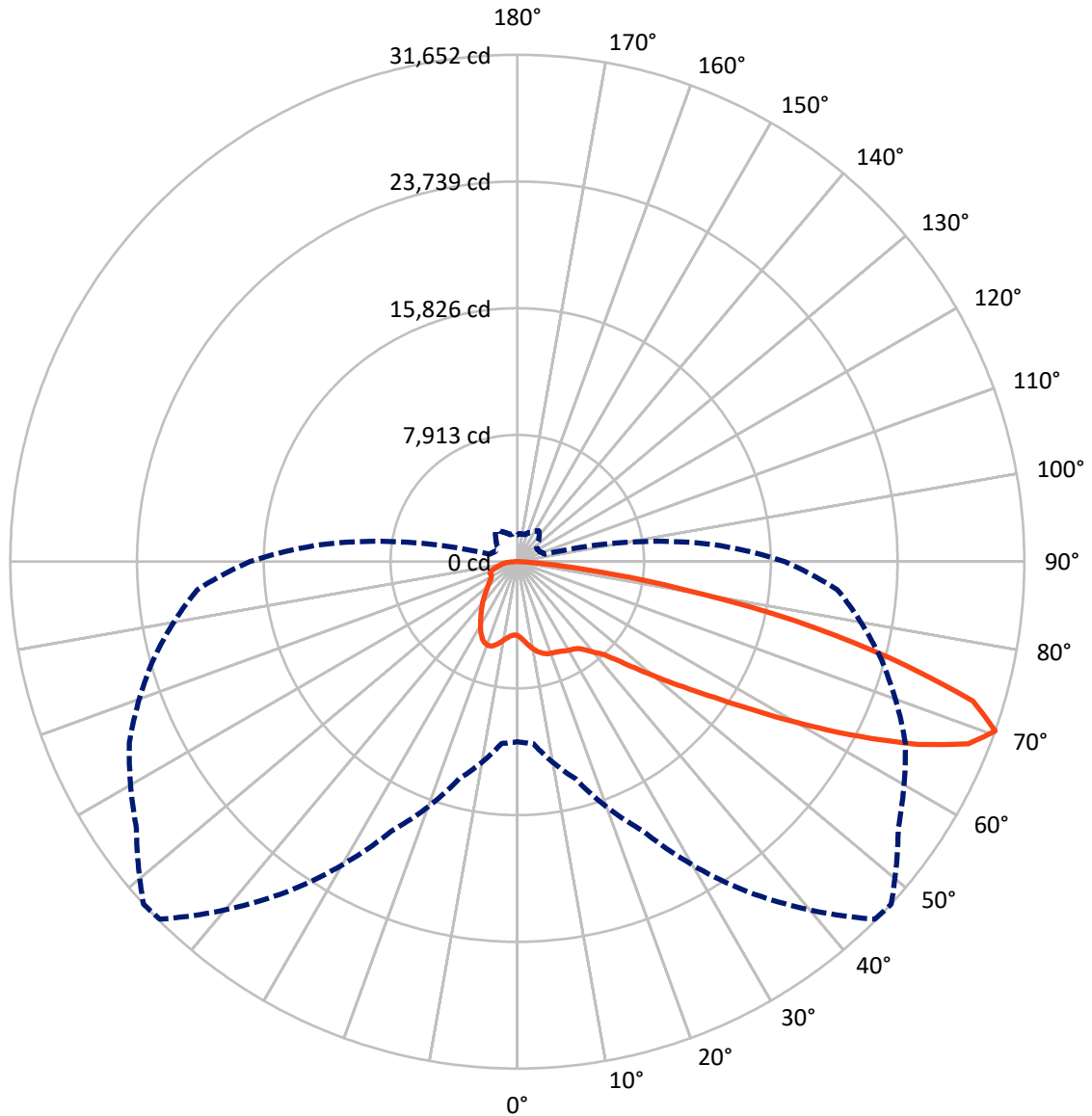
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P522899
CATALOG NUMBER: GALN-SA8D-827-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522899

CATALOG NUMBER: GALN-SA8D-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10405.1	0.0	10405.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	35549.9	0.0	35549.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	45955.0	0.0	45955.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.5	1.0
10°-20°	1589.8	3.5
20°-30°	2643.7	5.8
30°-40°	3747.1	8.2
40°-50°	5531.6	12.0
50°-60°	9580.9	20.8
60°-70°	13533.3	29.4
70°-80°	7779.7	16.9
80°-90°	1073.4	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°	45955.0	100.0
0°-180°	45955.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522899

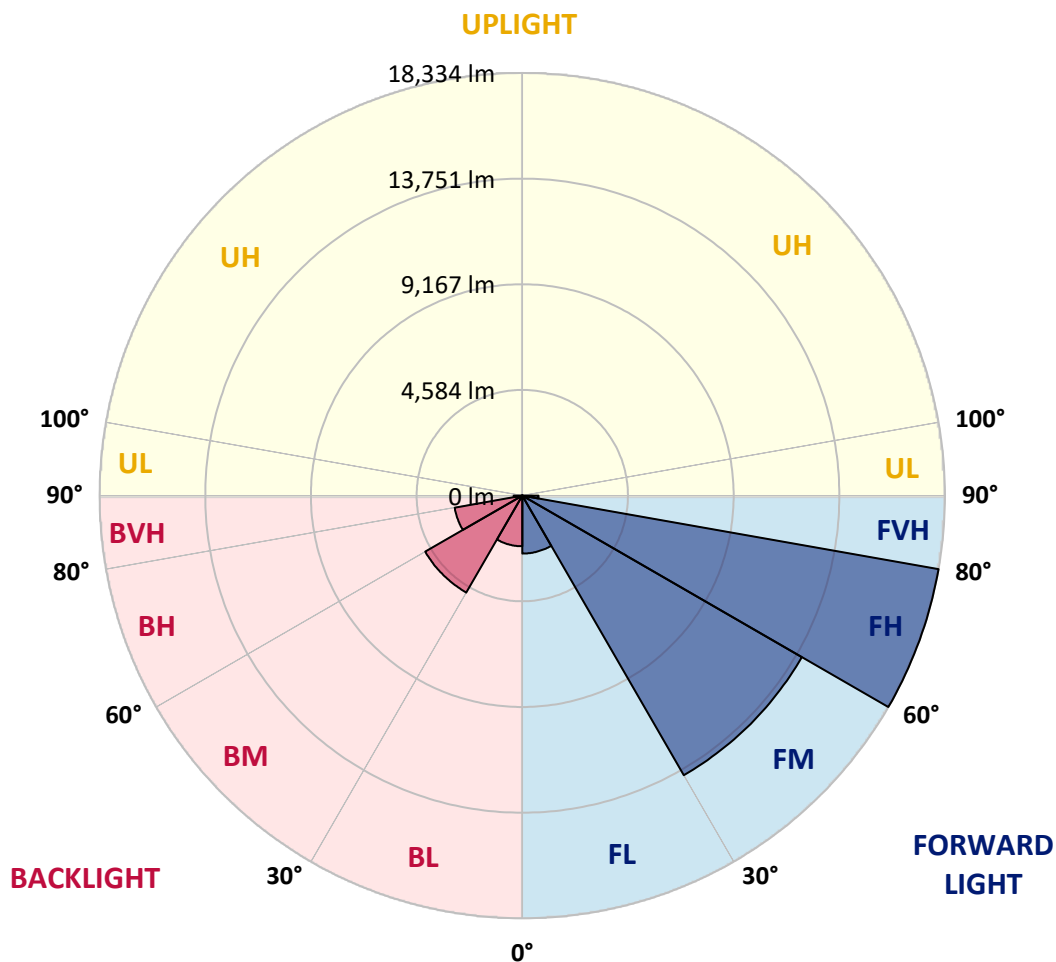
CATALOG NUMBER: GALN-SA8D-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2513.0	5.5			
FM	(30°-60°)	14001.6	30.5			
FH	(60°-80°)	18334.1	39.9			G5
FVH	(80°-90°)	701.2	1.5			G4/750
BL	(0°-30°)	2196.1	4.8	B3/2500		
BM	(30°-60°)	4858.0	10.6	B3/5000		
BH	(60°-80°)	2978.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	372.2	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: P522899

CATALOG NUMBER: GALN-SA8D-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3
2.5°	4910.9	4893.7	4891.2	4854.3	4834.7	4797.8	4783.0	4748.6	4706.8	4665.0	4625.6
5°	5297.0	5297.0	5279.8	5228.1	5147.0	5063.3	5026.5	4960.1	4842.0	4746.1	4665.0
7.5°	5692.9	5697.8	5663.4	5587.1	5471.6	5336.3	5301.9	5203.5	5036.3	4896.1	4775.6
10°	6034.7	6034.7	5988.0	5884.7	5739.6	5592.1	5557.6	5447.0	5260.1	5085.5	4928.1
12.5°	6295.4	6295.4	6233.9	6098.6	5941.3	5808.5	5769.1	5663.4	5488.8	5294.5	5095.3
15°	6465.1	6452.8	6383.9	6231.4	6079.0	5963.4	5936.3	5847.8	5688.0	5491.2	5267.5
17.5°	6472.4	6467.5	6401.1	6273.2	6140.4	6061.8	6044.5	5985.5	5860.1	5673.2	5437.1
20°	6329.8	6339.6	6295.4	6204.4	6140.4	6106.0	6098.6	6079.0	5990.4	5815.8	5579.8
22.5°	6177.3	6194.6	6152.7	6103.6	6098.6	6133.1	6138.0	6142.9	6086.3	5916.7	5700.3
25°	6140.4	6152.7	6110.9	6066.7	6093.7	6184.7	6204.4	6224.1	6179.8	6037.2	5842.9
27.5°	6327.3	6317.5	6236.4	6140.4	6157.7	6280.6	6307.7	6329.8	6307.7	6184.7	6020.0
30°	6856.1	6824.1	6661.8	6381.4	6292.9	6379.0	6406.0	6467.5	6467.5	6376.5	6211.8
32.5°	7741.3	7679.9	7382.3	6831.5	6524.1	6472.4	6499.5	6600.3	6651.9	6580.6	6401.1
35°	8816.0	8752.0	8326.6	7586.4	6947.0	6659.3	6651.9	6765.1	6902.8	6742.9	6509.3
37.5°	9895.5	9829.1	9317.6	8486.5	7564.3	7052.8	7008.5	7047.9	7106.9	6814.3	6659.3
40°	10975.1	10896.4	10448.8	9492.2	8319.2	7574.1	7458.5	7281.5	7256.9	7047.9	6949.5
42.5°	12044.8	11973.5	11747.3	10621.0	9224.2	8083.2	7906.1	7601.2	7694.6	7569.2	7483.1
45°	13124.4	13129.3	12888.3	11887.4	10316.1	9022.6	8784.0	8306.9	8528.3	8481.5	8530.7
47.5°	14081.0	14068.7	13982.6	13117.0	11671.0	10232.4	9925.1	9371.7	9750.5	9922.6	10298.8
50°	15008.1	15000.7	15005.6	14511.3	13244.9	11671.0	11331.7	10751.3	11604.6	12202.2	12876.0
52.5°	16336.0	16377.8	16080.3	15949.9	15158.1	13370.3	12996.5	12396.5	13795.7	14737.6	16053.2
55°	17668.9	17634.4	17400.8	17536.1	17159.8	15381.9	14990.9	14513.8	16235.2	17265.6	19242.7
57.5°	18453.3	18465.6	18704.1	19365.7	19631.2	17890.2	17536.1	17167.2	18977.1	19707.5	22080.5
60°	19159.1	19215.6	19901.7	21151.0	21871.5	20971.5	20656.7	20297.7	21492.8	21783.0	24544.6
62.5°	19380.4	19555.0	20752.6	22621.5	24055.2	24448.7	24057.7	23265.8	23888.0	23774.9	26214.3
65°	18276.3	18514.8	20661.6	23172.4	26005.3	27748.8	27500.5	26029.9	25929.1	25247.9	26487.3
67.5°	15369.6	15608.1	18364.8	22016.6	26811.9	30606.3	30358.0	28046.4	27168.5	25385.6	24421.6
70°	11245.6	11395.6	14031.8	18536.9	25191.3	31565.4	31651.5	29030.0	26725.8	23514.2	20051.8
72.5°	6479.8	6811.8	8658.6	13040.8	20580.5	29140.7	29738.3	26984.0	23927.3	19616.5	14019.5
75°	2786.2	2793.6	4003.5	7193.0	13938.4	23423.2	24001.1	22368.3	18790.2	13564.6	7485.6
77.5°	1325.5	1350.1	1760.7	3211.6	7672.5	16183.5	17742.6	15802.4	12017.8	6516.7	2828.0
80°	860.7	877.9	1077.1	1593.5	3762.5	9384.0	10471.0	9116.0	5301.9	2328.8	1219.7
82.5°	521.3	526.3	720.5	973.8	2070.6	4249.4	5009.2	3956.7	2262.4	1394.3	718.1
85°	317.2	319.7	437.7	602.5	1256.6	1468.1	1507.4	1495.2	1327.9	912.3	383.6
87.5°	152.5	157.4	226.2	285.3	494.3	454.9	430.3	499.2	627.1	491.8	164.8
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: P522899
 CATALOG NUMBER: GALN-SA8D-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3	4613.3
2.5°	4608.4	4601.0	4583.8	4576.4	4571.5	4574.0	4571.5	4571.5	4574.0	4574.0	4574.0
5°	4630.5	4618.2	4591.2	4591.2	4606.0	4640.4	4672.3	4696.9	4724.0	4721.5	4721.5
7.5°	4726.4	4704.3	4672.3	4682.2	4719.1	4773.2	4829.7	4883.8	4937.9	4942.9	4940.4
10°	4866.6	4844.5	4810.1	4822.4	4881.4	4962.5	5033.8	5112.5	5171.6	5188.8	5183.8
12.5°	5026.5	4982.2	4952.7	4987.1	5080.6	5188.8	5257.6	5316.6	5358.4	5383.0	5373.2
15°	5188.8	5147.0	5112.5	5183.8	5297.0	5397.8	5432.2	5442.1	5449.4	5474.0	5469.1
17.5°	5346.1	5289.6	5277.3	5370.7	5478.9	5523.2	5503.5	5461.7	5429.8	5449.4	5447.0
20°	5486.3	5442.1	5437.1	5530.6	5572.4	5530.6	5447.0	5373.2	5316.6	5321.6	5319.1
22.5°	5619.1	5584.7	5589.6	5628.9	5562.6	5419.9	5282.2	5181.4	5119.9	5132.2	5139.6
25°	5766.7	5732.2	5744.5	5680.6	5461.7	5213.4	5014.2	4928.1	4903.5	4928.1	4945.3
27.5°	5958.5	5936.3	5929.0	5683.1	5282.2	4908.4	4682.2	4650.2	4672.3	4726.4	4753.5
30°	6165.0	6165.0	6125.7	5641.2	5036.3	4542.0	4345.3	4350.2	4426.4	4502.7	4529.7
32.5°	6364.2	6406.0	6283.1	5528.1	4719.1	4185.4	4035.4	4040.4	4106.7	4200.2	4224.8
35°	6529.0	6649.5	6418.3	5321.6	4345.3	3885.4	3772.3	3705.9	3708.4	3779.7	3799.4
37.5°	6755.2	6979.0	6497.0	5014.2	3946.9	3629.7	3501.8	3386.2	3310.0	3280.5	3280.5
40°	7148.7	7478.2	6516.7	4559.2	3570.7	3386.2	3204.2	3066.5	2919.0	2786.2	2761.6
42.5°	7815.1	8230.7	6477.4	4035.4	3231.3	3118.2	2941.1	2771.4	2567.3	2380.4	2365.7
45°	8995.5	9209.4	6371.6	3492.0	2928.8	2860.0	2687.8	2503.4	2287.0	2119.8	2107.5
47.5°	10886.6	10584.1	6231.4	3010.0	2653.4	2633.7	2500.9	2287.0	2070.6	1955.0	1942.7
50°	13648.2	12748.1	6211.8	2660.8	2432.1	2441.9	2333.7	2137.0	1947.6	1851.7	1837.0
52.5°	16972.9	15362.2	6342.1	2414.9	2237.8	2274.7	2220.6	2038.6	1871.4	1790.2	1775.5
55°	20199.3	17713.1	6420.8	2223.1	2055.8	2124.7	2132.1	1979.6	1827.1	1746.0	1736.1
57.5°	22818.3	19483.7	6071.6	2048.5	1898.4	2004.2	2058.3	1945.2	1805.0	1743.5	1733.7
60°	24640.5	20319.8	5078.1	1893.5	1782.9	1908.3	2031.2	1947.6	1859.1	1866.5	1871.4
62.5°	25220.8	19948.5	3809.2	1778.0	1704.2	1876.3	2075.5	2048.5	1957.5	2014.0	2023.9
65°	24259.3	18414.0	2761.6	1687.0	1635.3	1898.4	2208.3	2122.2	1923.0	1964.8	1964.8
67.5°	21040.3	15863.9	2149.3	1603.4	1556.6	1940.3	2341.1	2114.9	1841.9	1891.1	1846.8
70°	16690.1	12271.1	1790.2	1509.9	1473.0	1878.8	2353.4	2038.6	1746.0	1755.8	1672.2
72.5°	11075.9	8068.4	1539.4	1421.4	1345.1	1689.4	2252.6	1940.3	1652.5	1596.0	1512.4
75°	5427.3	4023.1	1342.7	1310.7	1177.9	1470.6	2114.9	1846.8	1551.7	1463.2	1416.5
77.5°	2102.6	1711.6	1146.0	1170.5	1025.5	1296.0	1932.9	1714.0	1418.9	1298.4	1261.5
80°	1020.5	971.4	939.4	976.3	843.5	1104.1	1765.7	1598.4	1296.0	1163.2	1109.1
82.5°	634.5	600.0	720.5	759.9	649.2	1008.2	1674.7	1500.1	1141.0	964.0	919.7
85°	322.1	344.3	482.0	518.9	464.8	801.7	1379.6	1126.3	823.8	683.6	688.6
87.5°	123.0	164.8	253.3	273.0	248.4	423.0	759.9	656.6	528.7	359.0	332.0
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)