

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: P522912

Luminaire Tested: **GALN-SA9B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522912
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-SA9B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47013 lumens
Efficiency: N/A
Efficacy: 129.2 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

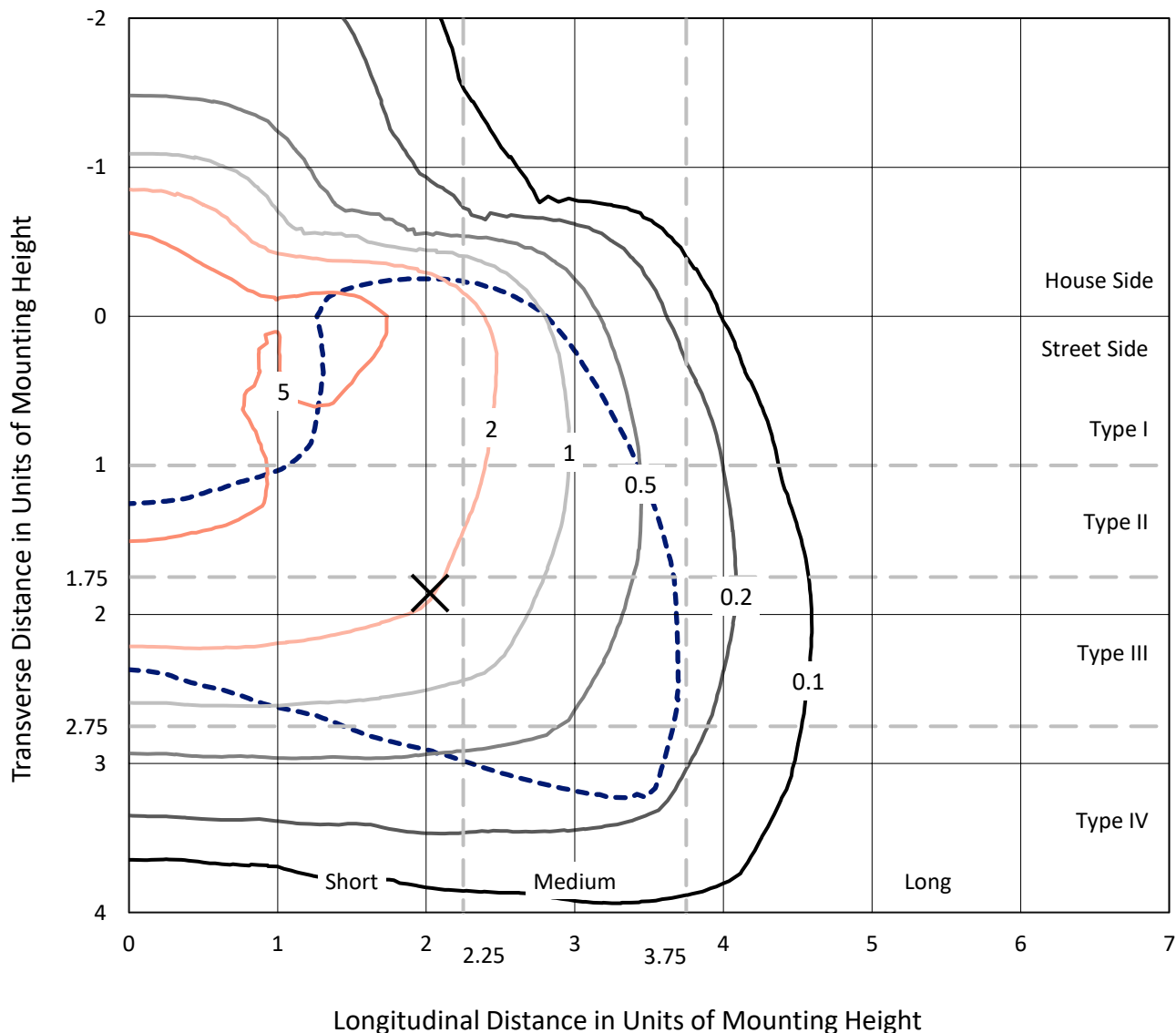
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

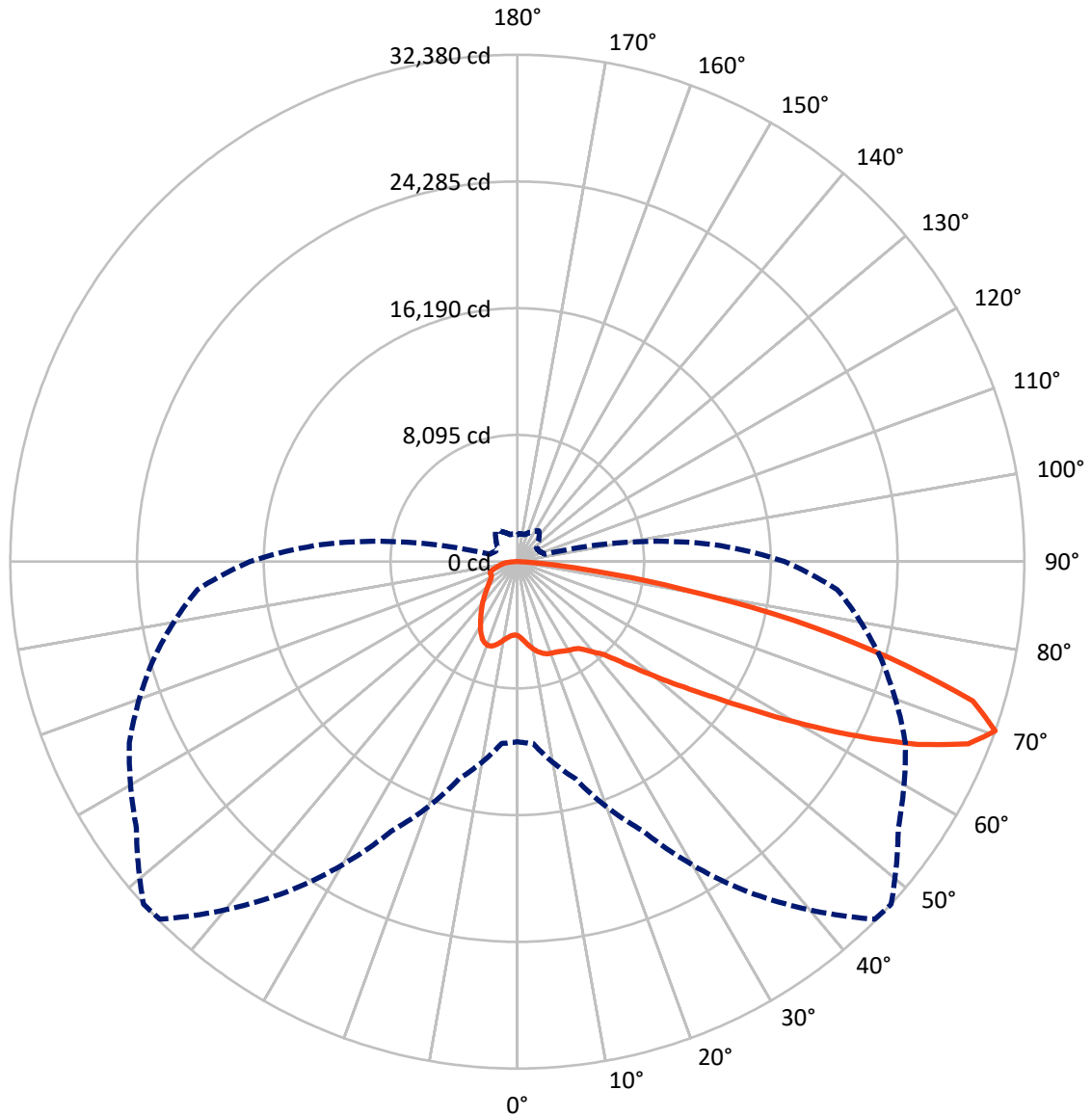
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10644.7	0.0	10644.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36368.3	0.0	36368.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	47013.0	0.0	47013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.5	1.0
10°-20°	1626.4	3.5
20°-30°	2704.6	5.8
30°-40°	3833.4	8.2
40°-50°	5658.9	12.0
50°-60°	9801.5	20.8
60°-70°	13844.9	29.4
70°-80°	7958.8	16.9
80°-90°	1098.1	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°	47013.0	100.0
0°-180°	47013.0	100.0

Coefficient of Utilization



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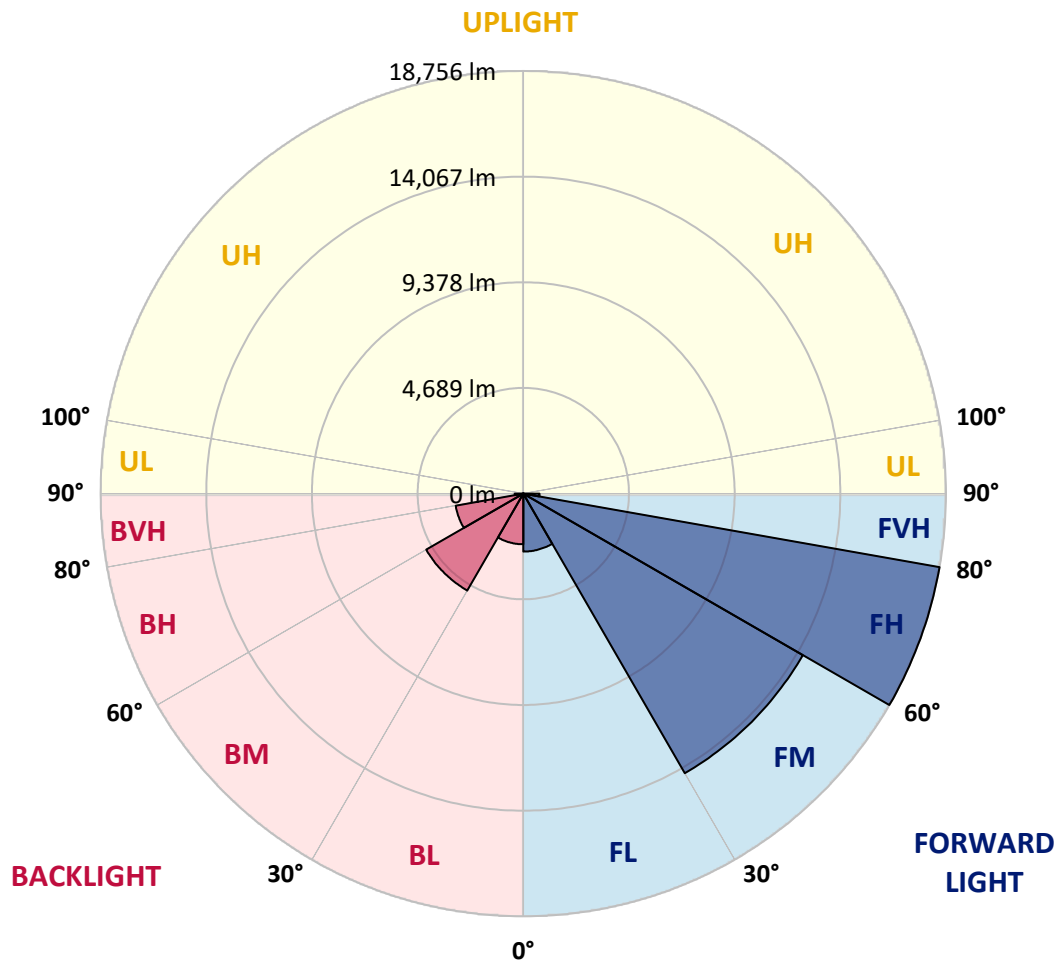
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2570.8	5.5			
FM	(30°-60°)	14324.0	30.5			
FH	(60°-80°)	18756.2	39.9			G5
FVH	(80°-90°)	717.3	1.5			G4/750
BL	(0°-30°)	2246.6	4.8	B3/2500		
BM	(30°-60°)	4969.8	10.6	B3/5000		
BH	(60°-80°)	3047.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	380.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5
2.5°	5023.9	5006.3	5003.8	4966.1	4946.0	4908.2	4893.1	4857.9	4815.1	4772.4	4732.1
5°	5418.9	5418.9	5401.3	5348.5	5265.5	5179.9	5142.2	5074.3	4953.5	4855.4	4772.4
7.5°	5824.0	5829.0	5793.8	5715.8	5597.5	5459.2	5423.9	5323.3	5152.2	5008.9	4885.6
10°	6173.6	6173.6	6125.8	6020.2	5871.8	5720.8	5685.6	5572.4	5381.2	5202.6	5041.6
12.5°	6440.3	6440.3	6377.4	6239.1	6078.0	5942.2	5901.9	5793.8	5615.1	5416.4	5212.6
15°	6613.9	6601.3	6530.9	6374.9	6218.9	6100.7	6073.0	5982.4	5818.9	5617.7	5388.7
17.5°	6621.4	6616.4	6548.5	6417.7	6281.8	6201.3	6183.7	6123.3	5995.0	5803.8	5562.3
20°	6475.5	6485.6	6440.3	6347.2	6281.8	6246.6	6239.1	6218.9	6128.4	5949.7	5708.2
22.5°	6319.6	6337.2	6294.4	6244.1	6239.1	6274.3	6279.3	6284.3	6226.5	6052.9	5831.5
25°	6281.8	6294.4	6251.6	6206.3	6234.0	6327.1	6347.2	6367.4	6322.1	6176.2	5977.4
27.5°	6473.0	6463.0	6379.9	6281.8	6299.4	6425.2	6452.9	6475.5	6452.9	6327.1	6158.5
30°	7013.9	6981.2	6815.2	6528.4	6437.8	6525.8	6553.5	6616.4	6616.4	6523.3	6354.8
32.5°	7919.6	7856.7	7552.3	6988.7	6674.3	6621.4	6649.1	6752.3	6805.1	6732.1	6548.5
35°	9018.9	8953.5	8518.3	7761.1	7107.0	6812.6	6805.1	6920.8	7061.7	6898.2	6659.2
37.5°	10123.4	10055.4	9532.2	8681.8	7738.4	7215.2	7169.9	7210.1	7270.5	6971.1	6812.6
40°	11227.8	11147.3	10689.4	9710.8	8510.8	7748.5	7630.3	7449.1	7424.0	7210.1	7109.5
42.5°	12322.1	12249.2	12017.7	10865.5	9436.6	8269.3	8088.1	7776.2	7871.8	7743.5	7655.4
45°	13426.5	13431.6	13185.0	12161.1	10553.6	9230.3	8986.2	8498.2	8724.6	8676.8	8727.1
47.5°	14405.2	14392.6	14304.5	13419.0	11939.7	10468.0	10153.6	9587.5	9974.9	10151.0	10535.9
50°	15353.6	15346.1	15351.1	14845.4	13549.8	11939.7	11592.6	10998.8	11871.8	12483.1	13172.4
52.5°	16712.1	16754.9	16450.5	16317.1	15507.1	13678.1	13295.7	12681.9	14113.3	15076.9	16422.8
55°	18075.6	18040.4	17801.4	17939.8	17554.9	15736.0	15336.0	14847.9	16609.0	17663.1	19685.7
57.5°	18878.2	18890.7	19134.8	19811.5	20083.2	18302.1	17939.8	17562.4	19414.0	20161.2	22588.9
60°	19600.2	19658.0	20359.9	21637.9	22375.0	21454.3	21132.3	20765.0	21987.6	22284.5	25109.7
62.5°	19826.6	20005.2	21230.4	23142.3	24609.0	25011.5	24611.5	23801.5	24438.0	24322.2	26817.9
65°	18697.0	18941.1	21137.3	23705.9	26604.0	28387.7	28133.6	26629.2	26526.0	25829.2	27097.1
67.5°	15723.4	15967.4	18787.6	22523.5	27429.2	31311.0	31056.9	28692.1	27794.0	25970.0	24983.9
70°	11504.5	11658.0	14354.8	18963.7	25771.3	32292.1	32380.2	29698.4	27341.1	24055.6	20513.4
72.5°	6629.0	6968.6	8857.9	13341.0	21054.3	29811.6	30422.9	27605.3	24478.2	20068.1	14342.3
75°	2850.3	2857.9	4095.6	7358.6	14259.2	23962.5	24553.7	22883.2	19222.8	13876.9	7657.9
77.5°	1356.0	1381.1	1801.3	3285.6	7849.1	16556.1	18151.1	16166.2	12294.5	6666.7	2893.1
80°	880.5	898.1	1101.9	1630.2	3849.1	9600.1	10712.0	9325.9	5423.9	2382.4	1247.8
82.5°	533.3	538.4	737.1	996.2	2118.3	4347.2	5124.6	4047.8	2314.5	1426.4	734.6
85°	324.5	327.0	447.8	616.4	1285.5	1501.9	1542.2	1529.6	1358.5	933.3	392.5
87.5°	156.0	161.0	231.4	291.8	505.7	465.4	440.3	510.7	641.5	503.1	168.6
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°	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5	4719.5
2.5°	4714.5	4707.0	4689.4	4681.8	4676.8	4679.3	4676.8	4676.8	4679.3	4679.3	4679.3
5°	4737.1	4724.6	4696.9	4696.9	4712.0	4747.2	4779.9	4805.1	4832.7	4830.2	4830.2
7.5°	4835.3	4812.6	4779.9	4790.0	4827.7	4883.1	4940.9	4996.3	5051.6	5056.6	5054.1
10°	4978.7	4956.0	4920.8	4933.4	4993.8	5076.8	5149.7	5230.2	5290.6	5308.2	5303.2
12.5°	5142.2	5096.9	5066.7	5101.9	5197.5	5308.2	5378.7	5439.0	5481.8	5507.0	5496.9
15°	5308.2	5265.5	5230.2	5303.2	5418.9	5522.1	5557.3	5567.3	5574.9	5600.1	5595.0
17.5°	5469.2	5411.4	5398.8	5494.4	5605.1	5650.4	5630.2	5587.5	5554.8	5574.9	5572.4
20°	5612.6	5567.3	5562.3	5657.9	5700.7	5657.9	5572.4	5496.9	5439.0	5444.1	5441.6
22.5°	5748.5	5713.3	5718.3	5758.5	5690.6	5544.7	5403.8	5300.7	5237.8	5250.4	5257.9
25°	5899.4	5864.2	5876.8	5811.4	5587.5	5333.4	5129.6	5041.6	5016.4	5041.6	5059.2
27.5°	6095.7	6073.0	6065.5	5813.9	5403.8	5021.4	4790.0	4757.3	4779.9	4835.3	4862.9
30°	6307.0	6307.0	6266.7	5771.1	5152.2	4646.6	4445.3	4450.4	4528.3	4606.3	4634.0
32.5°	6510.8	6553.5	6427.7	5655.4	4827.7	4281.8	4128.3	4133.4	4201.3	4296.9	4322.1
35°	6679.3	6802.6	6566.1	5444.1	4445.3	3974.9	3859.2	3791.2	3793.7	3866.7	3886.8
37.5°	6910.8	7139.7	6646.6	5129.6	4037.8	3713.2	3582.4	3464.2	3386.2	3356.0	3356.0
40°	7313.3	7650.4	6666.7	4664.2	3652.9	3464.2	3278.0	3137.1	2986.2	2850.3	2825.2
42.5°	7995.0	8420.2	6626.5	4128.3	3305.7	3190.0	3008.8	2835.2	2626.4	2435.2	2420.1
45°	9202.6	9421.5	6518.3	3572.4	2996.3	2925.8	2749.7	2561.0	2339.6	2168.6	2156.0
47.5°	11137.2	10827.8	6374.9	3079.3	2714.5	2694.4	2558.5	2339.6	2118.3	2000.0	1987.4
50°	13962.4	13041.6	6354.8	2722.0	2488.1	2498.1	2387.4	2186.2	1992.5	1894.4	1879.3
52.5°	17363.7	15715.9	6488.1	2470.5	2289.3	2327.1	2271.7	2085.6	1914.5	1831.5	1816.4
55°	20664.3	18120.9	6568.6	2274.2	2103.2	2173.6	2181.2	2025.2	1869.2	1786.2	1776.1
57.5°	23343.6	19932.3	6211.4	2095.6	1942.2	2050.3	2105.7	1990.0	1846.6	1783.7	1773.6
60°	25207.8	20787.6	5195.0	1937.1	1823.9	1952.2	2078.0	1992.5	1901.9	1909.5	1914.5
62.5°	25801.5	20407.7	3896.9	1818.9	1743.4	1919.5	2123.3	2095.6	2002.5	2060.4	2070.5
65°	24817.8	18837.9	2825.2	1725.8	1673.0	1942.2	2259.1	2171.1	1967.3	2010.1	2010.1
67.5°	21524.7	16229.1	2198.8	1640.3	1592.5	1984.9	2395.0	2163.5	1884.3	1934.6	1889.3
70°	17074.4	12553.6	1831.5	1544.7	1506.9	1922.0	2407.6	2085.6	1786.2	1796.2	1710.7
72.5°	11330.9	8254.2	1574.9	1454.1	1376.1	1728.3	2304.4	1984.9	1690.6	1632.7	1547.2
75°	5552.3	4115.8	1373.6	1340.9	1205.0	1504.4	2163.5	1889.3	1587.4	1496.9	1449.1
77.5°	2151.0	1751.0	1172.3	1197.5	1049.1	1325.8	1977.4	1753.5	1451.6	1328.3	1290.6
80°	1044.0	993.7	961.0	998.8	862.9	1129.6	1806.3	1635.2	1325.8	1189.9	1134.6
82.5°	649.1	613.8	737.1	777.4	664.2	1031.5	1713.2	1534.6	1167.3	986.2	940.9
85°	329.6	352.2	493.1	530.8	475.5	820.1	1411.3	1152.2	842.8	699.4	704.4
87.5°	125.8	168.6	259.1	279.2	254.1	432.7	777.4	671.7	540.9	367.3	339.6
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)