

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: P522848

Luminaire Tested: **GALN-SA7C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522848
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 40982 lumens
Efficiency: N/A
Efficacy: 108.7 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

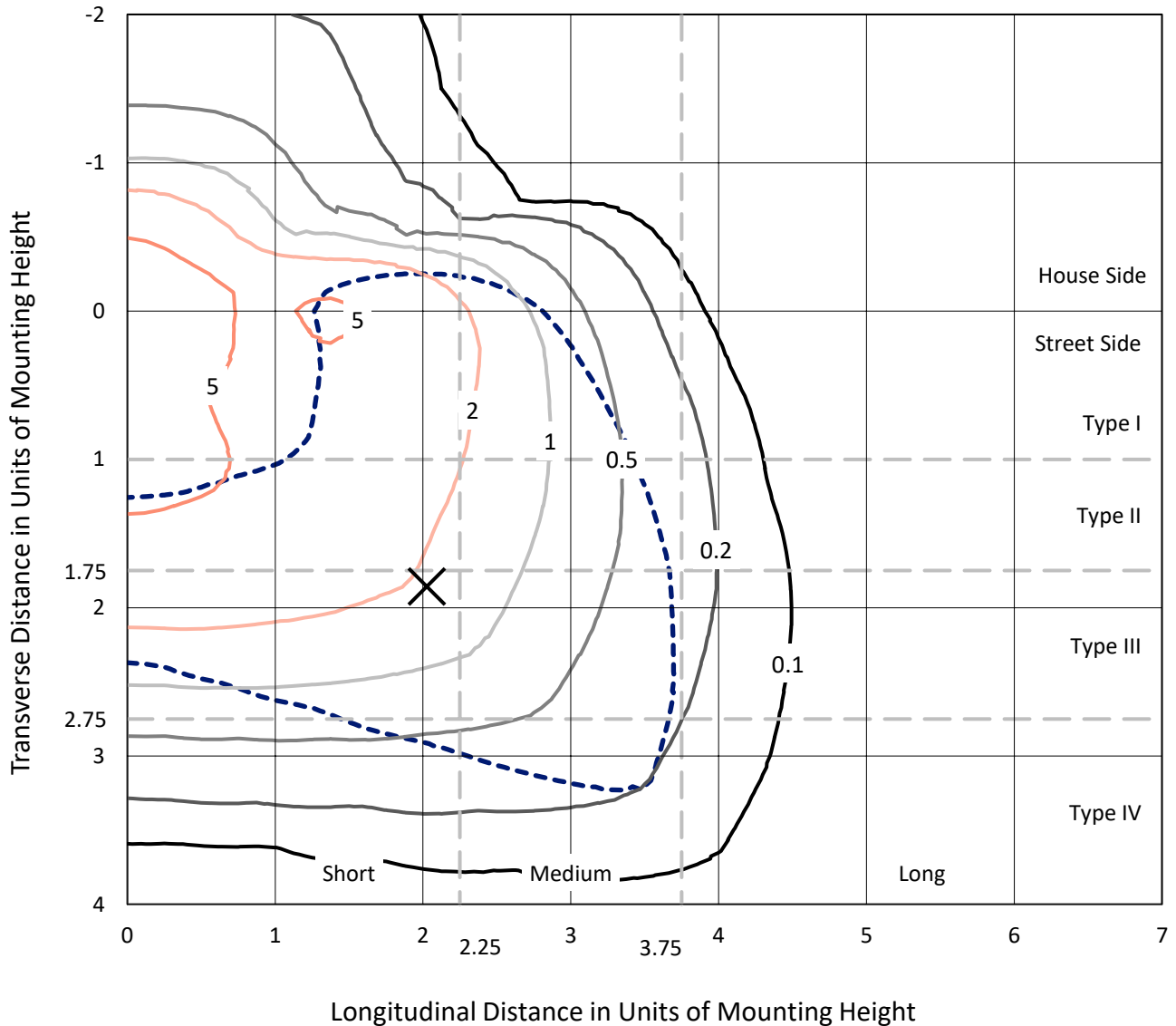
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522848
 CATALOG NUMBER: GALN-SA7C-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

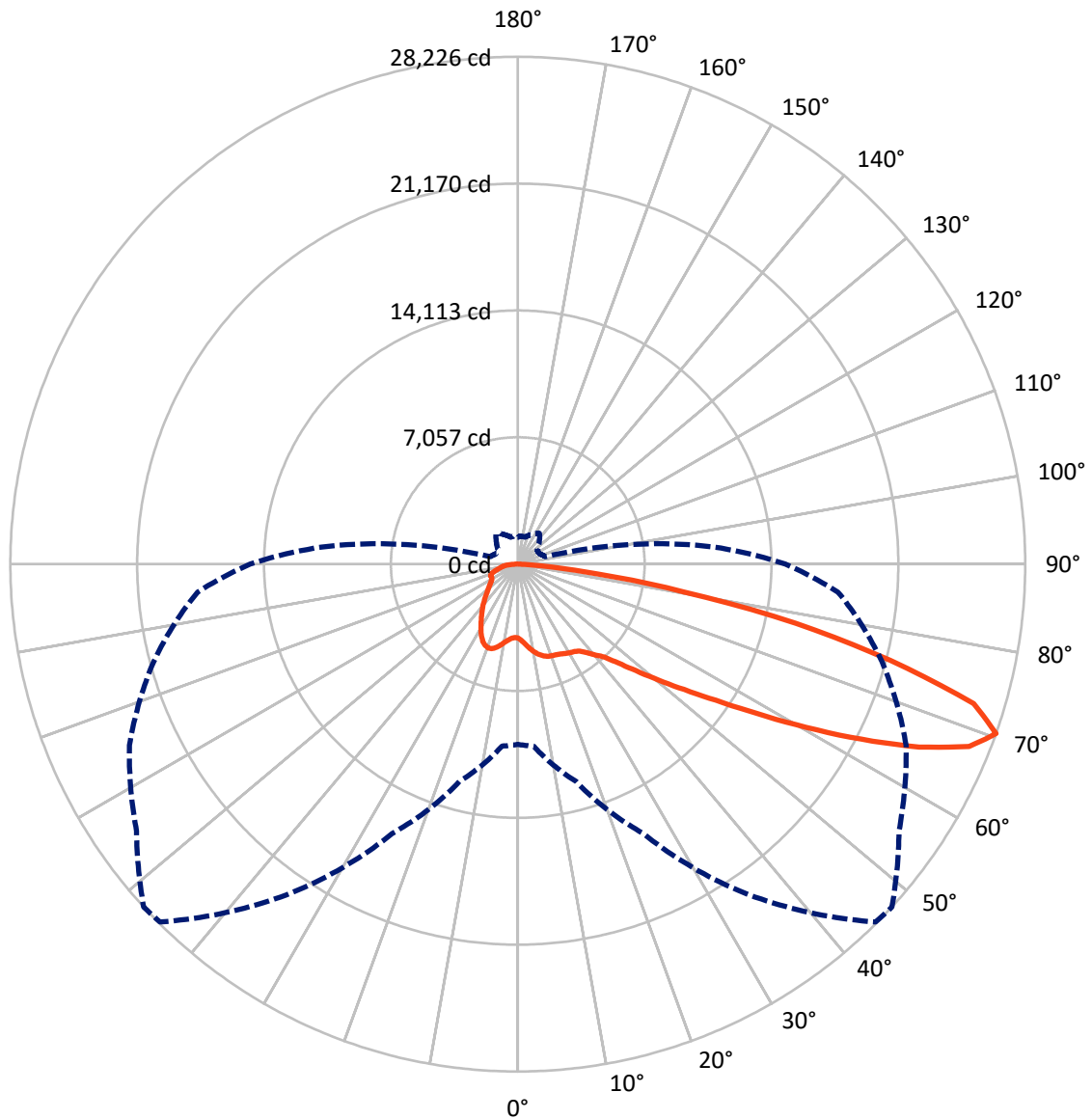
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P522848
CATALOG NUMBER: GALN-SA7C-727-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522848

CATALOG NUMBER: GALN-SA7C-727-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9279.1	0.0	9279.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	31702.9	0.0	31702.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	40982.0	0.0	40982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.1	1.0
10°-20°	1417.7	3.5
20°-30°	2357.7	5.8
30°-40°	3341.6	8.2
40°-50°	4933.0	12.0
50°-60°	8544.1	20.8
60°-70°	12068.8	29.4
70°-80°	6937.8	16.9
80°-90°	957.3	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°	40982.0	100.0
0°-180°	40982.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522848

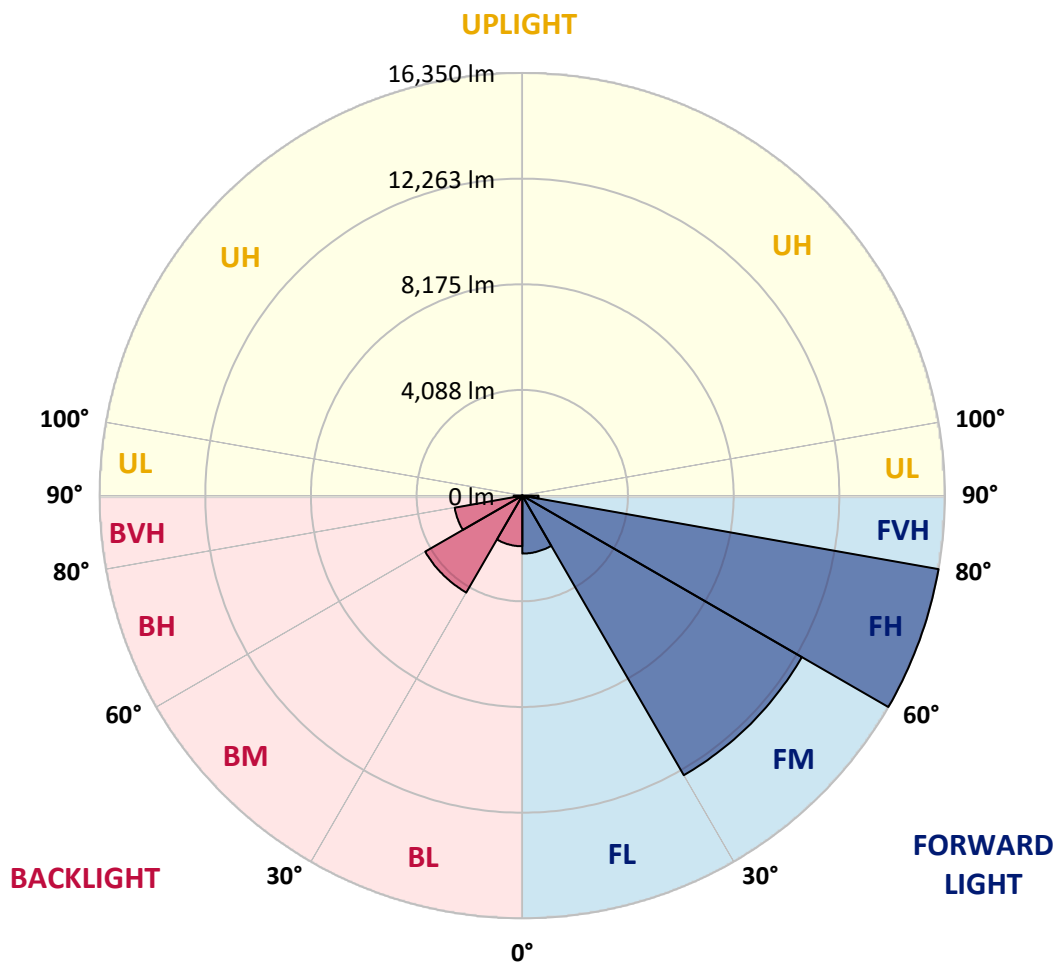
CATALOG NUMBER: GALN-SA7C-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2241.0	5.5			
FM	(30°-60°)	12486.4	30.5			
FH	(60°-80°)	16350.1	39.9			G5
FVH	(80°-90°)	625.3	1.5			G4/750
BL	(0°-30°)	1958.4	4.8	B3/2500		
BM	(30°-60°)	4332.3	10.6	B3/5000		
BH	(60°-80°)	2656.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	331.9	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: P522848

CATALOG NUMBER: GALN-SA7C-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1
2.5°	4379.5	4364.1	4361.9	4329.0	4311.5	4278.6	4265.4	4234.7	4197.4	4160.2	4125.1
5°	4723.8	4723.8	4708.4	4662.4	4590.0	4515.4	4482.5	4423.3	4318.1	4232.5	4160.2
7.5°	5076.8	5081.2	5050.5	4982.5	4879.5	4758.8	4728.1	4640.4	4491.3	4366.3	4258.8
10°	5381.7	5381.7	5340.0	5247.9	5118.5	4986.9	4956.2	4857.5	4690.9	4535.2	4394.8
12.5°	5614.1	5614.1	5559.3	5438.7	5298.3	5179.9	5144.8	5050.5	4894.8	4721.6	4543.9
15°	5765.4	5754.5	5693.1	5557.1	5421.1	5318.1	5293.9	5215.0	5072.4	4897.0	4697.4
17.5°	5772.0	5767.6	5708.4	5594.4	5476.0	5405.8	5390.4	5337.8	5226.0	5059.3	4848.8
20°	5644.8	5653.6	5614.1	5533.0	5476.0	5445.3	5438.7	5421.1	5342.2	5186.5	4976.0
22.5°	5508.9	5524.2	5486.9	5443.1	5438.7	5469.4	5473.8	5478.2	5427.7	5276.4	5083.4
25°	5476.0	5486.9	5449.6	5410.2	5434.3	5515.4	5533.0	5550.5	5511.1	5383.9	5210.6
27.5°	5642.6	5633.9	5561.5	5476.0	5491.3	5601.0	5625.1	5644.8	5625.1	5515.4	5368.5
30°	6114.1	6085.6	5940.9	5690.9	5611.9	5688.7	5712.8	5767.6	5767.6	5686.5	5539.6
32.5°	6903.6	6848.8	6583.4	6092.2	5818.1	5772.0	5796.1	5886.1	5932.1	5868.5	5708.4
35°	7862.0	7804.9	7425.6	6765.5	6195.3	5938.7	5932.1	6033.0	6155.8	6013.3	5804.9
37.5°	8824.7	8765.5	8309.3	7568.1	6745.7	6289.6	6250.1	6285.2	6337.8	6076.8	5938.7
40°	9787.4	9717.3	9318.1	8465.0	7419.0	6754.5	6651.4	6493.5	6471.6	6285.2	6197.5
42.5°	10741.4	10677.8	10476.0	9471.6	8226.0	7208.4	7050.5	6778.6	6861.9	6750.1	6673.4
45°	11704.1	11708.5	11493.6	10601.0	9199.7	8046.2	7833.5	7408.0	7605.4	7563.7	7607.6
47.5°	12557.2	12546.2	12469.5	11697.6	10408.1	9125.1	8851.0	8357.6	8695.3	8848.8	9184.4
50°	13384.0	13377.4	13381.8	12941.0	11811.6	10408.1	10105.4	9587.9	10348.8	10881.7	11482.6
52.5°	14568.2	14605.5	14340.1	14223.9	13517.8	11923.4	11590.1	11055.0	12302.8	13142.8	14316.0
55°	15756.8	15726.1	15517.8	15638.4	15302.9	13717.3	13368.6	12943.2	14478.3	15397.2	17160.4
57.5°	16456.4	16467.4	16680.1	17270.0	17506.9	15954.2	15638.4	15309.5	16923.5	17574.8	19691.1
60°	17085.8	17136.2	17748.1	18862.1	19504.7	18702.0	18421.3	18101.2	19167.0	19425.7	21888.5
62.5°	17283.2	17438.9	18506.9	20173.6	21452.1	21803.0	21454.3	20748.1	21303.0	21202.1	23377.6
65°	16298.5	16511.2	18425.7	20664.8	23191.2	24746.0	24524.5	23213.1	23123.2	22515.7	23621.0
67.5°	13706.4	13919.1	16377.5	19634.1	23910.5	27294.3	27072.8	25011.4	24228.5	22638.5	21778.9
70°	10028.7	10162.4	12513.4	16531.0	22465.3	28149.6	28226.3	25888.6	23833.7	20969.6	17881.9
72.5°	5778.6	6074.7	7721.6	11629.6	18353.4	25987.3	26520.2	24064.0	21338.1	17493.7	12502.4
75°	2484.7	2491.3	3570.2	6414.6	12430.0	20888.5	21403.8	19947.7	16756.8	12096.7	6675.5
77.5°	1182.0	1204.0	1570.2	2864.1	6842.2	14432.2	15822.6	14092.3	10717.3	5811.5	2522.0
80°	767.6	782.9	960.5	1421.1	3355.3	8368.6	9337.9	8129.5	4728.1	2076.8	1087.7
82.5°	464.9	469.3	642.6	868.4	1846.5	3789.5	4467.2	3528.6	2017.6	1243.4	640.4
85°	282.9	285.1	390.4	537.3	1120.6	1309.2	1344.3	1333.4	1184.2	813.6	342.1
87.5°	136.0	140.4	201.8	254.4	440.8	405.7	383.8	445.2	559.2	438.6	146.9
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: P522848

CATALOG NUMBER: GALN-SA7C-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1	4114.1
2.5°	4109.7	4103.1	4087.8	4081.2	4076.8	4079.0	4076.8	4076.8	4079.0	4079.0	4079.0
5°	4129.5	4118.5	4094.4	4094.4	4107.5	4138.2	4166.7	4188.7	4212.8	4210.6	4210.6
7.5°	4215.0	4195.2	4166.7	4175.5	4208.4	4256.6	4307.1	4355.3	4403.6	4408.0	4405.8
10°	4340.0	4320.2	4289.5	4300.5	4353.1	4425.5	4489.1	4559.3	4611.9	4627.3	4622.9
12.5°	4482.5	4443.1	4416.7	4447.4	4530.8	4627.3	4688.7	4741.3	4778.6	4800.5	4791.7
15°	4627.3	4590.0	4559.3	4622.9	4723.8	4813.7	4844.4	4853.1	4859.7	4881.7	4877.3
17.5°	4767.6	4717.2	4706.2	4789.5	4886.0	4925.5	4908.0	4870.7	4842.2	4859.7	4857.5
20°	4892.6	4853.1	4848.8	4932.1	4969.4	4932.1	4857.5	4791.7	4741.3	4745.7	4743.5
22.5°	5011.0	4980.3	4984.7	5019.8	4960.6	4833.4	4710.6	4620.7	4565.9	4576.8	4583.4
25°	5142.6	5111.9	5122.9	5065.9	4870.7	4649.2	4471.6	4394.8	4372.9	4394.8	4410.2
27.5°	5313.7	5293.9	5287.4	5068.1	4710.6	4377.3	4175.5	4147.0	4166.7	4215.0	4239.1
30°	5497.9	5497.9	5462.8	5030.8	4491.3	4050.5	3875.1	3879.4	3947.4	4015.4	4039.5
32.5°	5675.5	5712.8	5603.2	4929.9	4208.4	3732.5	3598.7	3603.1	3662.3	3745.7	3767.6
35°	5822.5	5929.9	5723.8	4745.7	3875.1	3465.0	3364.1	3304.9	3307.1	3370.7	3388.2
37.5°	6024.2	6223.8	5794.0	4471.6	3519.8	3236.9	3122.9	3019.8	2951.8	2925.5	2925.5
40°	6375.1	6669.0	5811.5	4065.9	3184.3	3019.8	2857.5	2734.7	2603.1	2484.7	2462.8
42.5°	6969.4	7340.0	5776.4	3598.7	2881.6	2780.7	2622.8	2471.5	2289.5	2122.8	2109.7
45°	8022.1	8212.8	5682.1	3114.1	2611.9	2550.5	2397.0	2232.5	2039.5	1890.4	1879.4
47.5°	9708.5	9438.7	5557.1	2684.3	2366.3	2348.7	2230.3	2039.5	1846.5	1743.4	1732.5
50°	12171.2	11368.6	5539.6	2372.8	2168.9	2177.7	2081.2	1905.7	1736.9	1651.3	1638.2
52.5°	15136.2	13699.8	5655.8	2153.5	1995.6	2028.5	1980.3	1818.0	1668.9	1596.5	1583.4
55°	18013.4	15796.3	5726.0	1982.5	1833.4	1894.8	1901.3	1765.4	1629.4	1557.0	1548.3
57.5°	20349.0	17375.3	5414.6	1826.8	1693.0	1787.3	1835.6	1734.7	1609.7	1554.8	1546.1
60°	21974.0	18120.9	4528.6	1688.6	1589.9	1701.8	1811.4	1736.9	1657.9	1664.5	1668.9
62.5°	22491.6	17789.8	3397.0	1585.6	1519.8	1673.3	1850.9	1826.8	1745.6	1796.1	1804.9
65°	21634.1	16421.3	2462.8	1504.4	1458.4	1693.0	1969.3	1892.6	1714.9	1752.2	1752.2
67.5°	18763.5	14147.2	1916.7	1429.8	1388.2	1730.3	2087.8	1886.0	1642.6	1686.4	1647.0
70°	14884.0	10943.2	1596.5	1346.5	1313.6	1675.5	2098.7	1818.0	1557.0	1565.8	1491.3
72.5°	9877.3	7195.3	1372.8	1267.6	1199.6	1506.6	2008.8	1730.3	1473.7	1423.3	1348.7
75°	4840.0	3587.8	1197.4	1168.9	1050.5	1311.4	1886.0	1647.0	1383.8	1304.8	1263.2
77.5°	1875.0	1526.3	1021.9	1043.9	914.5	1155.7	1723.7	1528.5	1265.4	1157.9	1125.0
80°	910.1	866.2	837.7	870.6	752.2	984.7	1574.6	1425.5	1155.7	1037.3	989.1
82.5°	565.8	535.1	642.6	677.6	579.0	899.1	1493.4	1337.7	1017.6	859.7	820.2
85°	287.3	307.0	429.8	462.7	414.5	714.9	1230.3	1004.4	734.7	609.7	614.0
87.5°	109.7	146.9	225.9	243.4	221.5	377.2	677.6	585.5	471.5	320.2	296.1
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)