

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: P522902

Luminaire Tested: **GALN-SA9A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522902
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-SA9A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34697 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

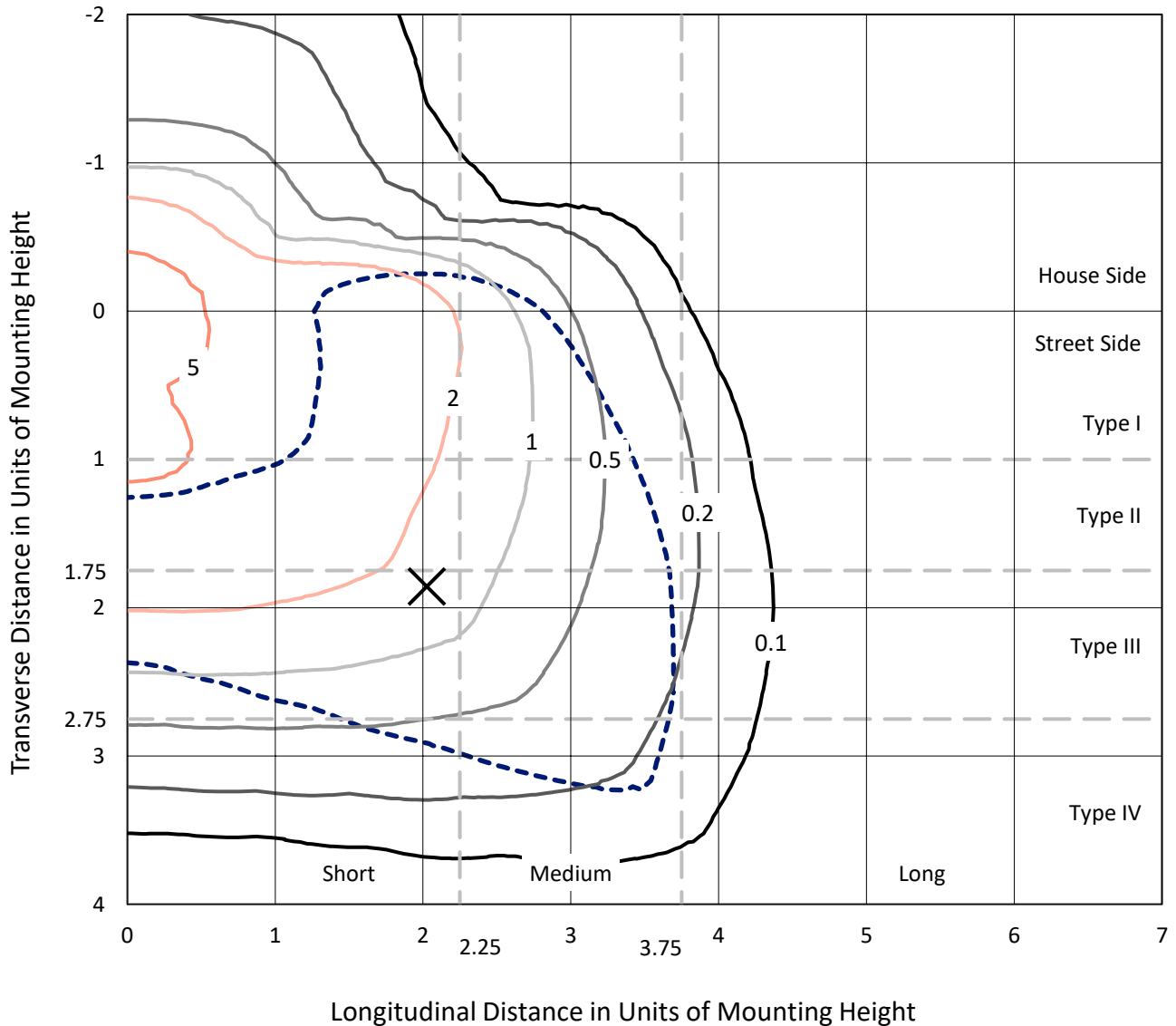
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

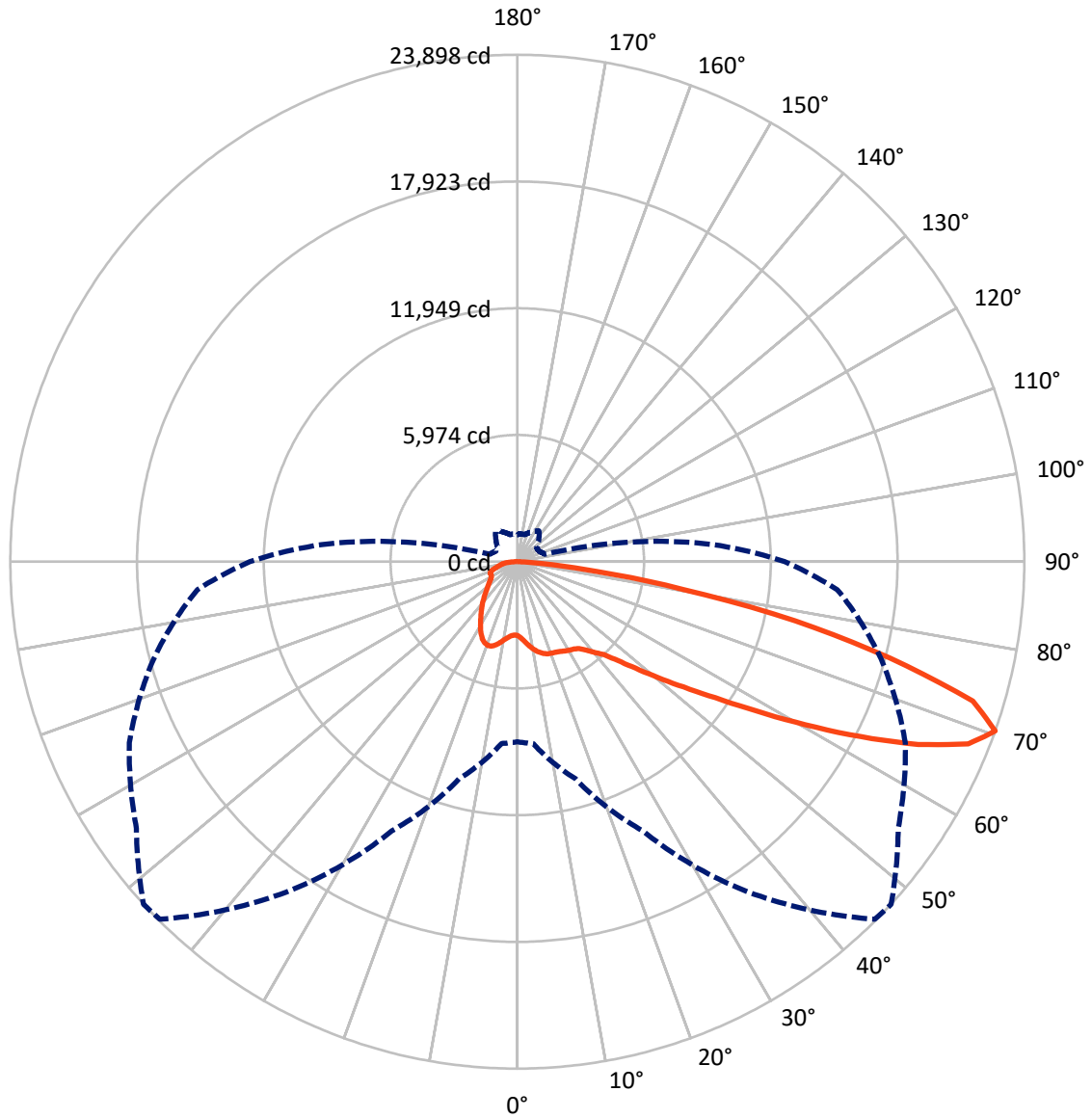
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	7856.1	0.0	7856.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26840.9	0.0	26840.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	34697.0	0.0	34697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	1.0
10°-20°	1200.3	3.5
20°-30°	1996.1	5.8
30°-40°	2829.2	8.2
40°-50°	4176.4	12.0
50°-60°	7233.8	20.8
60°-70°	10217.9	29.4
70°-80°	5873.8	16.9
80°-90°	810.4	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°	34697.0	100.0
0°-180°	34697.0	100.0

Coefficient of Utilization



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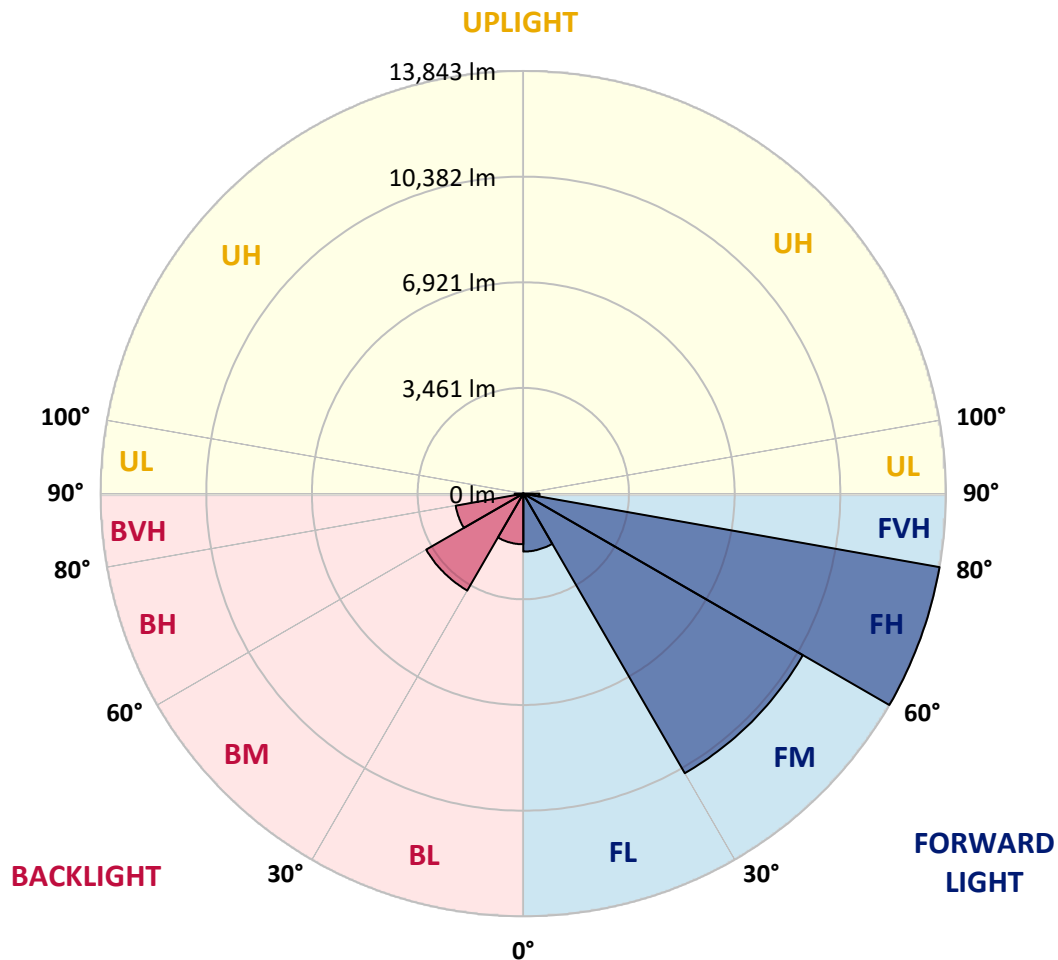
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1897.4	5.5			
FM	(30°-60°)	10571.5	30.5			
FH	(60°-80°)	13842.7	39.9			G5
FVH	(80°-90°)	529.4	1.5			G4/750
BL	(0°-30°)	1658.1	4.8	B3/2500		
BM	(30°-60°)	3667.9	10.6	B3/5000		
BH	(60°-80°)	2249.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	281.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2
2.5°	3707.8	3694.8	3693.0	3665.1	3650.3	3622.4	3611.3	3585.3	3553.7	3522.2	3492.4
5°	3999.3	3999.3	3986.3	3947.3	3886.1	3822.9	3795.1	3745.0	3655.8	3583.4	3522.2
7.5°	4298.3	4302.0	4276.0	4218.4	4131.1	4029.0	4003.0	3928.8	3802.5	3696.7	3605.7
10°	4556.3	4556.3	4521.1	4443.1	4333.5	4222.1	4196.1	4112.6	3971.5	3839.6	3720.8
12.5°	4753.1	4753.1	4706.7	4604.6	4485.8	4385.5	4355.8	4276.0	4144.1	3997.5	3847.1
15°	4881.3	4872.0	4820.0	4704.9	4589.8	4502.5	4482.1	4415.2	4294.5	4146.0	3977.0
17.5°	4886.8	4883.1	4833.0	4736.4	4636.2	4576.8	4563.8	4519.2	4424.5	4283.4	4105.2
20°	4779.1	4786.6	4753.1	4684.4	4636.2	4610.2	4604.6	4589.8	4522.9	4391.1	4212.8
22.5°	4664.0	4677.0	4645.5	4608.3	4604.6	4630.6	4634.3	4638.0	4595.3	4467.2	4303.8
25°	4636.2	4645.5	4613.9	4580.5	4600.9	4669.6	4684.4	4699.3	4665.9	4558.2	4411.5
27.5°	4777.3	4769.9	4708.6	4636.2	4649.2	4742.0	4762.4	4779.1	4762.4	4669.6	4545.2
30°	5176.5	5152.3	5029.8	4818.1	4751.3	4816.3	4836.7	4883.1	4883.1	4814.4	4690.0
32.5°	5844.9	5798.5	5573.8	5157.9	4925.8	4886.8	4907.2	4983.4	5022.4	4968.5	4833.0
35°	6656.3	6608.0	6286.8	5727.9	5245.2	5027.9	5022.4	5107.8	5211.7	5091.1	4914.7
37.5°	7471.3	7421.2	7035.0	6407.5	5711.2	5325.0	5291.6	5321.3	5365.9	5144.9	5027.9
40°	8286.4	8227.0	7889.1	7166.8	6281.2	5718.6	5631.4	5497.7	5479.1	5321.3	5247.0
42.5°	9094.1	9040.3	8869.4	8019.1	6964.5	6103.0	5969.3	5739.0	5809.6	5714.9	5649.9
45°	9909.2	9912.9	9730.9	8975.3	7788.8	6812.2	6632.1	6271.9	6439.0	6403.7	6440.9
47.5°	10631.4	10622.2	10557.2	9903.6	8811.9	7725.7	7493.6	7075.9	7361.8	7491.8	7775.8
50°	11331.4	11325.8	11329.6	10956.4	10000.2	8811.9	8555.7	8117.5	8761.7	9212.9	9721.7
52.5°	12334.0	12365.6	12140.9	12042.5	11444.7	10094.9	9812.6	9359.6	10416.1	11127.2	12120.5
55°	13340.4	13314.4	13138.0	13240.1	12956.0	11613.6	11318.4	10958.2	12257.9	13035.9	14528.6
57.5°	13932.6	13941.9	14122.0	14621.5	14822.0	13507.5	13240.1	12961.6	14328.1	14879.6	16671.3
60°	14465.5	14508.2	15026.2	15969.4	16513.5	15833.9	15596.2	15325.2	16227.5	16446.6	18531.7
62.5°	14632.6	14764.4	15668.7	17079.7	18162.2	18459.3	18164.1	17566.2	18035.9	17950.5	19792.4
65°	13799.0	13979.1	15600.0	17495.6	19634.6	20951.0	20763.4	19653.1	19577.0	19062.7	19998.5
67.5°	11604.3	11784.4	13865.8	16623.0	20243.6	23108.4	22920.9	21175.6	20512.8	19166.7	18438.8
70°	8490.7	8603.9	10594.3	13995.8	19020.0	23832.5	23897.5	21918.3	20178.6	17753.7	15139.5
72.5°	4892.4	5143.0	6537.4	9846.1	15538.7	22001.8	22453.0	20373.5	18065.7	14810.9	10585.0
75°	2103.6	2109.2	3022.7	5430.8	10523.8	17685.0	18121.4	16888.5	14187.0	10241.5	5651.8
77.5°	1000.8	1019.3	1329.4	2424.8	5792.9	12218.9	13396.1	11931.1	9073.7	4920.2	2135.2
80°	649.8	662.8	813.2	1203.1	2840.7	7085.2	7905.8	6882.8	4003.0	1758.3	920.9
82.5°	393.6	397.3	544.0	735.3	1563.3	3208.4	3782.1	2987.4	1708.2	1052.7	542.2
85°	239.5	241.4	330.5	454.9	948.8	1108.4	1138.2	1128.9	1002.6	688.8	289.6
87.5°	115.1	118.8	170.8	215.4	373.2	343.5	324.9	376.9	473.5	371.3	124.4
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°	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2	3483.2
2.5°	3479.4	3473.9	3460.9	3455.3	3451.6	3453.5	3451.6	3451.6	3453.5	3453.5	3453.5
5°	3496.2	3486.9	3466.5	3466.5	3477.6	3503.6	3527.7	3546.3	3566.7	3564.9	3564.9
7.5°	3568.6	3551.9	3527.7	3535.1	3563.0	3603.8	3646.6	3687.4	3728.2	3732.0	3730.1
10°	3674.4	3657.7	3631.7	3641.0	3685.5	3746.8	3800.7	3860.1	3904.6	3917.6	3913.9
12.5°	3795.1	3761.7	3739.4	3765.4	3835.9	3917.6	3969.6	4014.2	4045.7	4064.3	4056.9
15°	3917.6	3886.1	3860.1	3913.9	3999.3	4075.4	4101.4	4108.9	4114.4	4133.0	4129.3
17.5°	4036.5	3993.8	3984.5	4055.0	4136.7	4170.1	4155.3	4123.7	4099.6	4114.4	4112.6
20°	4142.3	4108.9	4105.2	4175.7	4207.3	4175.7	4112.6	4056.9	4014.2	4017.9	4016.0
22.5°	4242.5	4216.6	4220.3	4250.0	4199.8	4092.2	3988.2	3912.1	3865.6	3874.9	3880.5
25°	4354.0	4328.0	4337.2	4289.0	4123.7	3936.2	3785.8	3720.8	3702.3	3720.8	3733.8
27.5°	4498.8	4482.1	4476.5	4290.8	3988.2	3706.0	3535.1	3511.0	3527.7	3568.6	3589.0
30°	4654.7	4654.7	4625.0	4259.3	3802.5	3429.3	3280.8	3284.5	3342.1	3399.6	3420.0
32.5°	4805.1	4836.7	4743.9	4173.9	3563.0	3160.1	3046.8	3050.6	3100.7	3171.2	3189.8
35°	4929.5	5020.5	4846.0	4017.9	3280.8	2933.6	2848.2	2798.0	2799.9	2853.7	2868.6
37.5°	5100.3	5269.3	4905.4	3785.8	2980.0	2740.5	2643.9	2556.7	2499.1	2476.8	2476.8
40°	5397.4	5646.2	4920.2	3442.3	2695.9	2556.7	2419.3	2315.3	2203.9	2103.6	2085.1
42.5°	5900.6	6214.4	4890.5	3046.8	2439.7	2354.3	2220.6	2092.5	1938.4	1797.3	1786.1
45°	6791.8	6953.3	4810.7	2636.5	2211.3	2159.3	2029.4	1890.1	1726.7	1600.5	1591.2
47.5°	8219.6	7991.2	4704.9	2272.6	2003.4	1988.5	1888.3	1726.7	1563.3	1476.1	1466.8
50°	10304.7	9625.1	4690.0	2008.9	1836.3	1843.7	1762.0	1613.5	1470.5	1398.1	1387.0
52.5°	12814.9	11598.8	4788.4	1823.3	1689.6	1717.4	1676.6	1539.2	1412.9	1351.7	1340.5
55°	15250.9	13373.8	4847.8	1678.5	1552.2	1604.2	1609.8	1494.6	1379.5	1318.3	1310.8
57.5°	17228.3	14710.6	4584.2	1546.6	1433.4	1513.2	1554.1	1468.6	1362.8	1316.4	1309.0
60°	18604.1	15341.9	3834.1	1429.7	1346.1	1440.8	1533.6	1470.5	1403.7	1409.2	1412.9
62.5°	19042.3	15061.5	2876.0	1342.4	1286.7	1416.7	1567.1	1546.6	1477.9	1520.6	1528.1
65°	18316.3	13902.9	2085.1	1273.7	1234.7	1433.4	1667.3	1602.3	1451.9	1483.5	1483.5
67.5°	15885.9	11977.5	1622.8	1210.6	1175.3	1464.9	1767.6	1596.8	1390.7	1427.8	1394.4
70°	12601.4	9264.9	1351.7	1140.0	1112.2	1418.5	1776.9	1539.2	1318.3	1325.7	1262.6
72.5°	8362.6	6091.8	1162.3	1073.2	1015.6	1275.6	1700.7	1464.9	1247.7	1205.0	1141.9
75°	4097.7	3037.6	1013.8	989.6	889.4	1110.3	1596.8	1394.4	1171.6	1104.7	1069.5
77.5°	1587.5	1292.3	865.2	883.8	774.2	978.5	1459.4	1294.1	1071.3	980.3	952.5
80°	770.5	733.4	709.3	737.1	636.8	833.7	1333.1	1206.9	978.5	878.2	837.4
82.5°	479.0	453.0	544.0	573.7	490.2	761.2	1264.4	1132.6	861.5	727.8	694.4
85°	243.2	259.9	363.9	391.8	350.9	605.3	1041.6	850.4	622.0	516.2	519.9
87.5°	92.8	124.4	191.2	206.1	187.5	319.4	573.7	495.7	399.2	271.1	250.7
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)