

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: P522905

Luminaire Tested: **GALN-SA9A-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522905
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-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 41488 lumens
Efficiency: N/A
Efficacy: 151.4 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

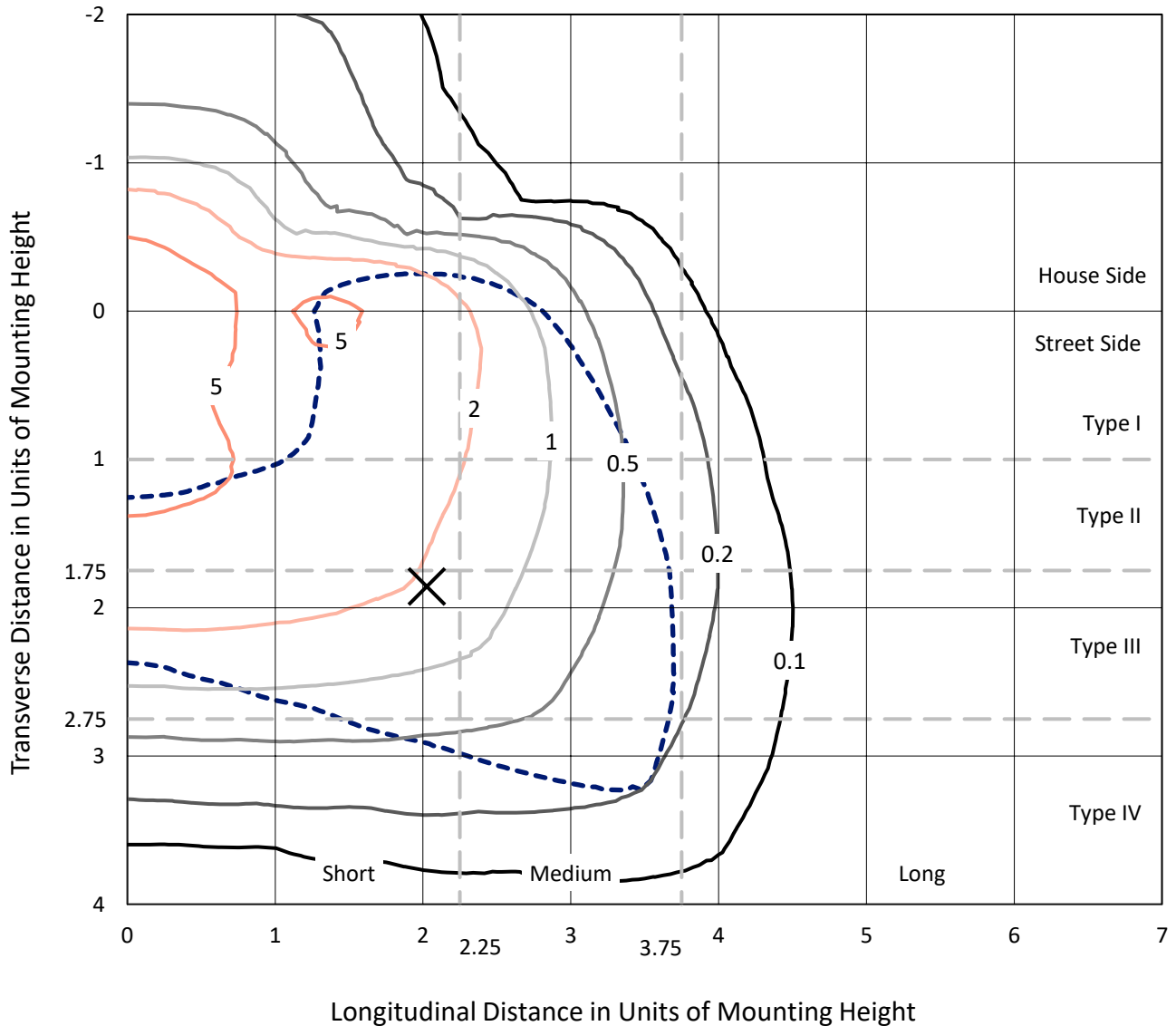
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

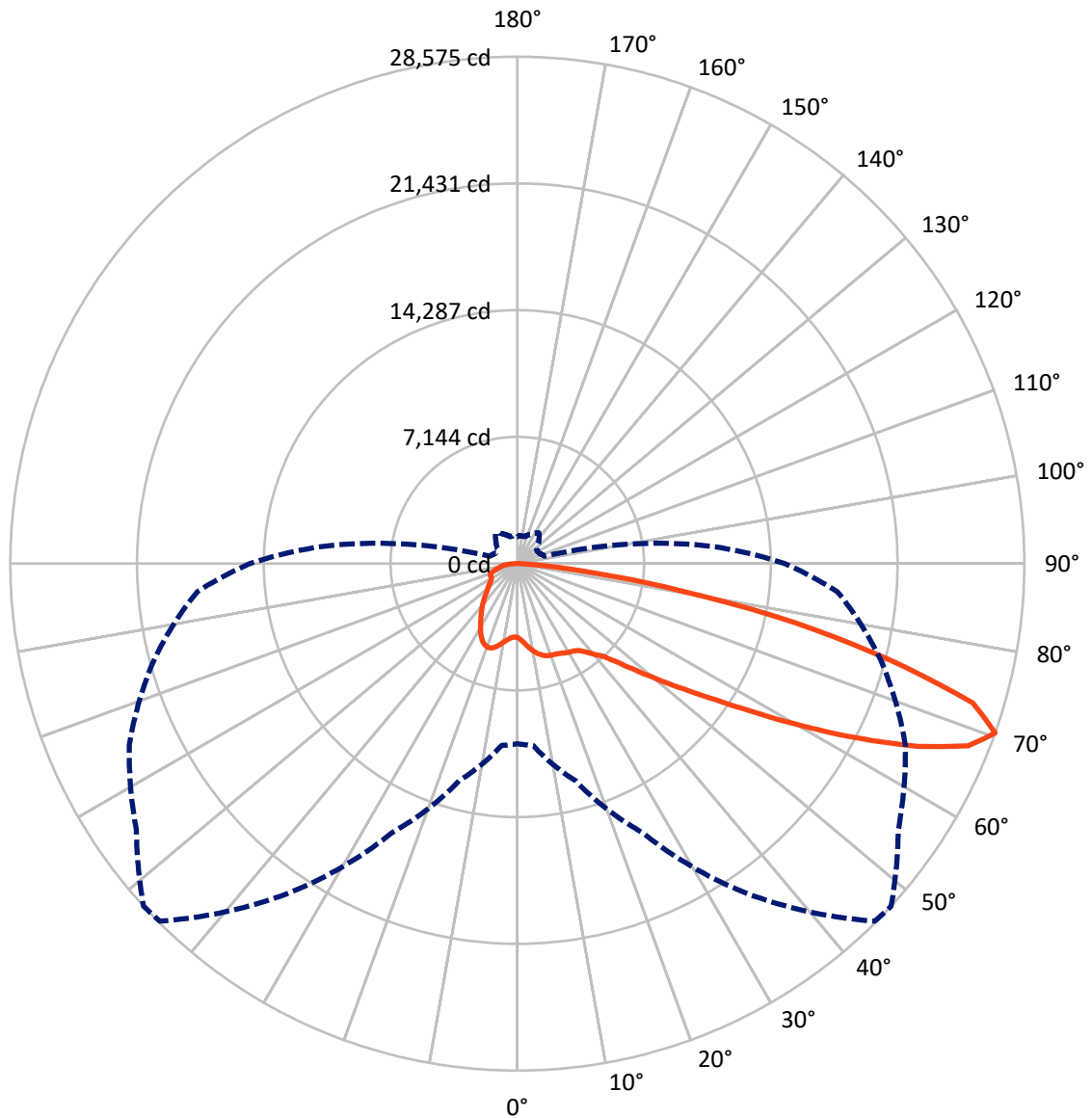
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	9393.7	0.0	9393.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32094.3	0.0	32094.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	41488.0	0.0	41488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	1.0
10°-20°	1435.2	3.5
20°-30°	2386.8	5.8
30°-40°	3382.9	8.2
40°-50°	4993.9	12.0
50°-60°	8649.6	20.8
60°-70°	12217.8	29.4
70°-80°	7023.5	16.9
80°-90°	969.1	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°	41488.0	100.0
0°-180°	41488.0	100.0

Coefficient of Utilization



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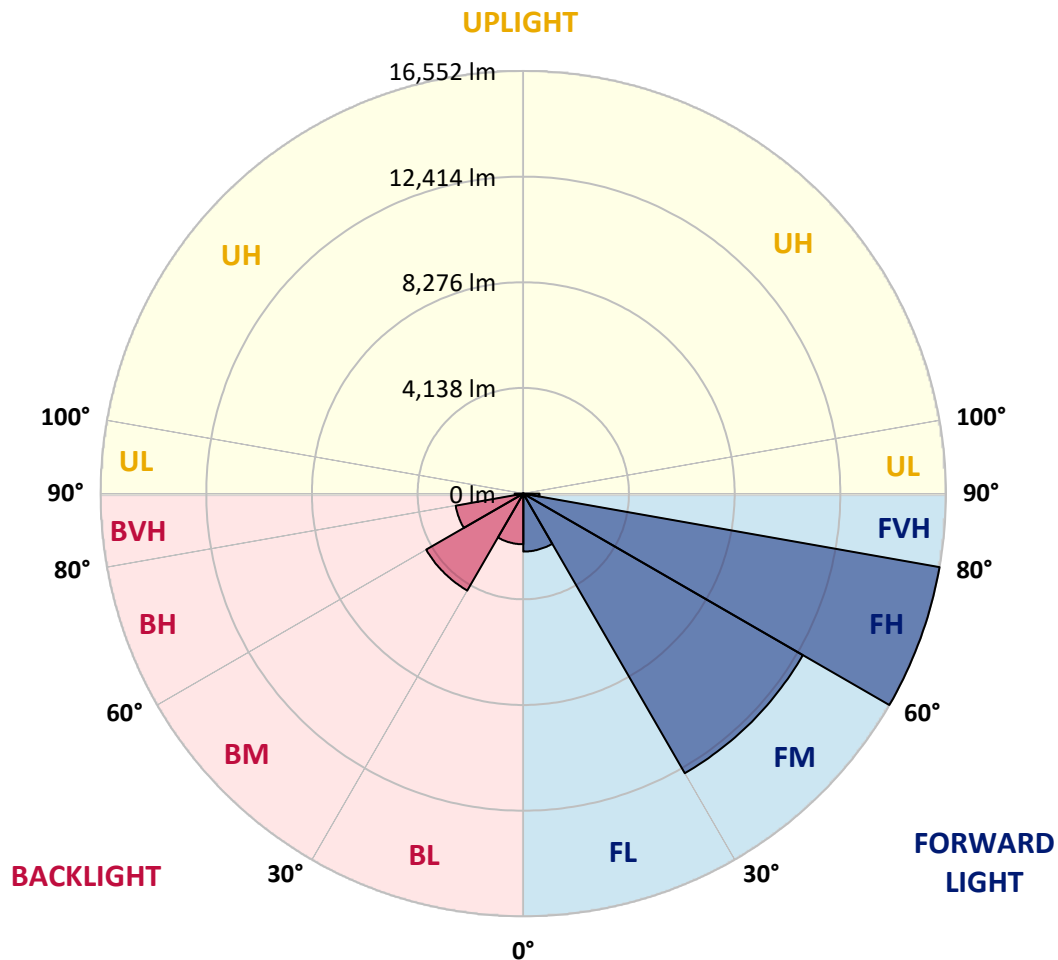
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2268.7	5.5			
FM	(30°-60°)	12640.6	30.5			
FH	(60°-80°)	16552.0	39.9			G5
FVH	(80°-90°)	633.0	1.5			G4/750
BL	(0°-30°)	1982.6	4.8	B3/2500		
BM	(30°-60°)	4385.8	10.6	B3/5000		
BH	(60°-80°)	2689.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	336.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9
2.5°	4433.5	4418.0	4415.8	4382.5	4364.7	4331.4	4318.1	4287.0	4249.3	4211.5	4176.0
5°	4782.1	4782.1	4766.5	4719.9	4646.7	4571.2	4537.9	4477.9	4371.4	4284.8	4211.5
7.5°	5139.5	5144.0	5112.9	5044.1	4939.7	4817.6	4786.5	4697.7	4546.8	4420.2	4311.4
10°	5448.1	5448.1	5405.9	5312.7	5181.7	5048.5	5017.4	4917.5	4748.8	4591.2	4449.1
12.5°	5683.4	5683.4	5627.9	5505.8	5363.7	5243.9	5208.3	5112.9	4955.2	4779.9	4600.0
15°	5836.6	5825.5	5763.4	5625.7	5488.1	5383.7	5359.3	5279.4	5135.1	4957.5	4755.4
17.5°	5843.3	5838.8	5778.9	5663.5	5543.6	5472.5	5457.0	5403.7	5290.5	5121.8	4908.6
20°	5714.5	5723.4	5683.4	5601.3	5543.6	5512.5	5505.8	5488.1	5408.1	5250.5	5037.4
22.5°	5576.9	5592.4	5554.7	5510.3	5505.8	5536.9	5541.4	5545.8	5494.7	5341.5	5146.2
25°	5543.6	5554.7	5516.9	5477.0	5501.4	5583.5	5601.3	5619.1	5579.1	5450.3	5274.9
27.5°	5712.3	5703.4	5630.2	5543.6	5559.1	5670.1	5694.5	5714.5	5694.5	5583.5	5434.8
30°	6189.6	6160.8	6014.2	5761.1	5681.2	5758.9	5783.3	5838.8	5838.8	5756.7	5608.0
32.5°	6988.9	6933.4	6664.7	6167.4	5889.9	5843.3	5867.7	5958.7	6005.4	5941.0	5778.9
35°	7959.0	7901.3	7517.2	6849.0	6271.8	6012.0	6005.4	6107.5	6231.8	6087.5	5876.6
37.5°	8933.7	8873.7	8411.9	7661.5	6829.0	6367.2	6327.3	6362.8	6416.1	6151.9	6012.0
40°	9908.3	9837.2	9433.2	8569.6	7510.6	6837.9	6733.5	6573.7	6551.5	6362.8	6274.0
42.5°	10874.0	10809.6	10605.4	9588.6	8327.6	7297.4	7137.6	6862.3	6946.7	6833.4	6755.7
45°	11848.6	11853.1	11635.5	10731.9	9313.3	8145.5	7930.2	7499.5	7699.3	7657.1	7701.5
47.5°	12712.3	12701.2	12623.5	11842.0	10536.6	9237.8	8960.3	8460.8	8802.7	8958.1	9297.8
50°	13549.2	13542.6	13547.0	13100.8	11957.4	10536.6	10230.2	9706.3	10476.6	11016.1	11624.4
52.5°	14748.1	14785.8	14517.2	14399.5	13684.7	12070.7	11733.2	11191.5	12454.7	13305.0	14492.8
55°	15951.4	15920.3	15709.4	15831.5	15491.8	13886.7	13533.7	13103.0	14657.1	15587.3	17372.2
57.5°	16659.6	16670.7	16886.0	17483.2	17723.0	16151.2	15831.5	15498.5	17132.5	17791.8	19934.2
60°	17296.8	17347.8	17967.2	19095.0	19745.5	18933.0	18648.8	18324.7	19403.6	19665.6	22158.8
62.5°	17496.6	17654.2	18735.4	20422.6	21717.0	22072.2	21719.2	21004.3	21566.0	21463.9	23666.2
65°	16499.7	16715.1	18653.2	20919.9	23477.5	25051.5	24827.3	23499.7	23408.7	22793.7	23912.6
67.5°	13875.6	14090.9	16579.7	19876.5	24205.7	27631.3	27407.1	25320.2	24527.6	22918.0	22047.8
70°	10152.5	10287.9	12667.9	16735.1	22742.6	28497.1	28574.8	26208.2	24128.0	21228.5	18102.6
72.5°	5849.9	6149.7	7817.0	11773.2	18580.0	26308.1	26847.6	24361.1	21601.5	17709.7	12656.8
75°	2515.4	2522.0	3614.3	6493.8	12583.5	21146.4	21668.1	20194.0	16963.7	12246.0	6758.0
77.5°	1196.6	1218.8	1589.6	2899.4	6926.7	14610.4	16018.0	14266.3	10849.6	5883.2	2553.1
80°	777.0	792.6	972.4	1438.6	3396.7	8471.9	9453.2	8229.9	4786.5	2102.4	1101.2
82.5°	470.7	475.1	650.5	879.2	1869.3	3836.3	4522.3	3572.1	2042.5	1258.8	648.3
85°	286.4	288.6	395.2	543.9	1134.5	1325.4	1360.9	1349.8	1198.9	823.7	346.3
87.5°	137.6	142.1	204.2	257.5	446.2	410.7	388.5	450.7	566.1	444.0	148.7
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°	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9	4164.9
2.5°	4160.5	4153.8	4138.3	4131.6	4127.2	4129.4	4127.2	4127.2	4129.4	4129.4	4129.4
5°	4180.4	4169.3	4144.9	4144.9	4158.2	4189.3	4218.2	4240.4	4264.8	4262.6	4262.6
7.5°	4267.0	4247.0	4218.2	4227.1	4260.4	4309.2	4360.3	4409.1	4457.9	4462.4	4460.2
10°	4393.6	4373.6	4342.5	4353.6	4406.9	4480.1	4544.5	4615.6	4668.9	4684.4	4680.0
12.5°	4537.9	4497.9	4471.3	4502.4	4586.7	4684.4	4746.6	4799.8	4837.6	4859.8	4850.9
15°	4684.4	4646.7	4615.6	4680.0	4782.1	4873.1	4904.2	4913.1	4919.7	4941.9	4937.5
17.5°	4826.5	4775.4	4764.3	4848.7	4946.4	4986.3	4968.6	4930.8	4902.0	4919.7	4917.5
20°	4953.0	4913.1	4908.6	4993.0	5030.7	4993.0	4917.5	4850.9	4799.8	4804.3	4802.1
22.5°	5072.9	5041.8	5046.3	5081.8	5021.9	4893.1	4768.8	4677.7	4622.2	4633.3	4640.0
25°	5206.1	5175.0	5186.1	5128.4	4930.8	4706.6	4526.8	4449.1	4426.9	4449.1	4464.6
27.5°	5379.3	5359.3	5352.6	5130.6	4768.8	4431.3	4227.1	4198.2	4218.2	4267.0	4291.4
30°	5565.8	5565.8	5530.3	5092.9	4546.8	4100.5	3922.9	3927.3	3996.2	4065.0	4089.4
32.5°	5745.6	5783.3	5672.3	4990.8	4260.4	3778.6	3643.2	3647.6	3707.6	3791.9	3814.1
35°	5894.3	6003.1	5794.4	4804.3	3922.9	3507.7	3405.6	3345.7	3347.9	3412.3	3430.0
37.5°	6098.6	6300.6	5865.5	4526.8	3563.3	3276.9	3161.4	3057.1	2988.2	2961.6	2961.6
40°	6453.8	6751.3	5883.2	4116.1	3223.6	3057.1	2892.8	2768.5	2635.3	2515.4	2493.2
42.5°	7055.5	7430.7	5847.7	3643.2	2917.2	2815.1	2655.2	2502.0	2317.8	2149.1	2135.7
45°	8121.1	8314.3	5752.3	3152.5	2644.1	2582.0	2426.6	2260.1	2064.7	1913.7	1902.6
47.5°	9828.4	9555.3	5625.7	2717.4	2395.5	2377.7	2257.8	2064.7	1869.3	1765.0	1753.9
50°	12321.5	11509.0	5608.0	2402.1	2195.7	2204.6	2106.9	1929.3	1758.3	1671.7	1658.4
52.5°	15323.1	13868.9	5725.6	2180.1	2020.3	2053.6	2004.7	1840.5	1689.5	1616.2	1602.9
55°	18235.9	15991.3	5796.7	2007.0	1856.0	1918.2	1924.8	1787.2	1649.5	1576.3	1567.4
57.5°	20600.3	17589.8	5481.4	1849.3	1713.9	1809.4	1858.2	1756.1	1629.5	1574.0	1565.2
60°	22245.3	18344.6	4584.5	1709.5	1609.6	1722.8	1833.8	1758.3	1678.4	1685.1	1689.5
62.5°	22769.3	18009.4	3438.9	1605.1	1538.5	1693.9	1873.8	1849.3	1767.2	1818.3	1827.1
65°	21901.2	16624.1	2493.2	1523.0	1476.4	1713.9	1993.6	1915.9	1736.1	1773.9	1773.9
67.5°	18995.1	14321.8	1940.4	1447.5	1405.3	1751.7	2113.5	1909.3	1662.9	1707.3	1667.3
70°	15067.8	11078.3	1616.2	1363.1	1329.8	1696.2	2124.6	1840.5	1576.3	1585.1	1509.7
72.5°	9999.3	7284.1	1389.8	1283.2	1214.4	1525.2	2033.6	1751.7	1491.9	1440.8	1365.4
75°	4899.7	3632.1	1212.2	1183.3	1063.4	1327.6	1909.3	1667.3	1400.9	1321.0	1278.8
77.5°	1898.2	1545.2	1034.6	1056.8	925.8	1170.0	1745.0	1547.4	1281.0	1172.2	1138.9
80°	921.3	876.9	848.1	881.4	761.5	996.8	1594.0	1443.1	1170.0	1050.1	1001.3
82.5°	572.8	541.7	650.5	686.0	586.1	910.2	1511.9	1354.3	1030.1	870.3	830.3
85°	290.8	310.8	435.1	468.4	419.6	723.8	1245.5	1016.8	743.7	617.2	621.6
87.5°	111.0	148.7	228.7	246.4	224.2	381.9	686.0	592.8	477.3	324.1	299.7
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)