

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: P522904

Luminaire Tested: **GALN-SA9A-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522904  
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-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 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: 38648 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

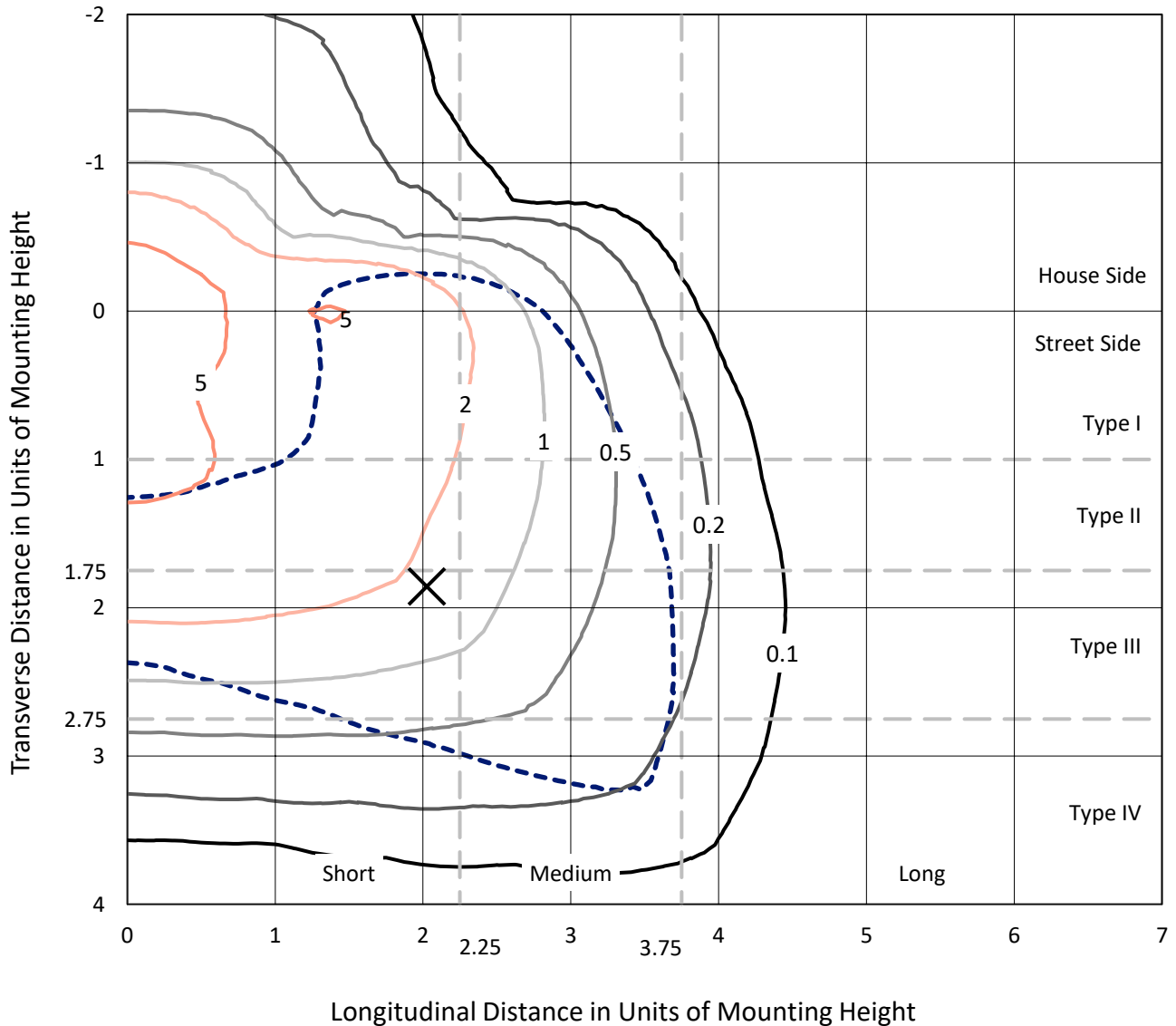
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

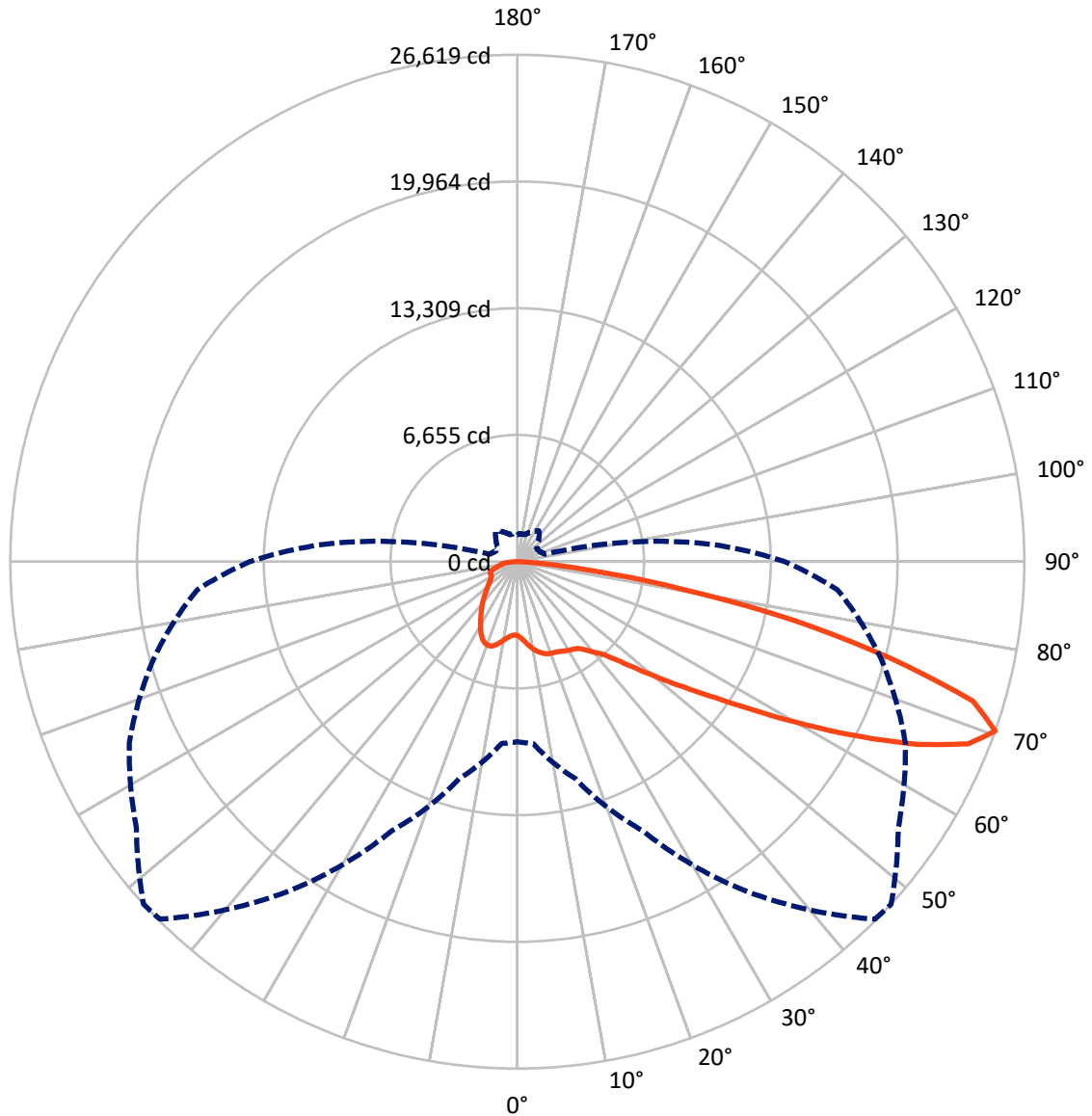
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	8750.7	0.0	8750.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29897.3	0.0	29897.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	38648.0	0.0	38648.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.9	1.0
10°-20°	1337.0	3.5
20°-30°	2223.4	5.8
30°-40°	3151.3	8.2
40°-50°	4652.0	12.0
50°-60°	8057.5	20.8
60°-70°	11381.5	29.4
70°-80°	6542.7	16.9
80°-90°	902.7	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°	38648.0	100.0
0°-180°	38648.0	100.0

**Coefficient of Utilization**



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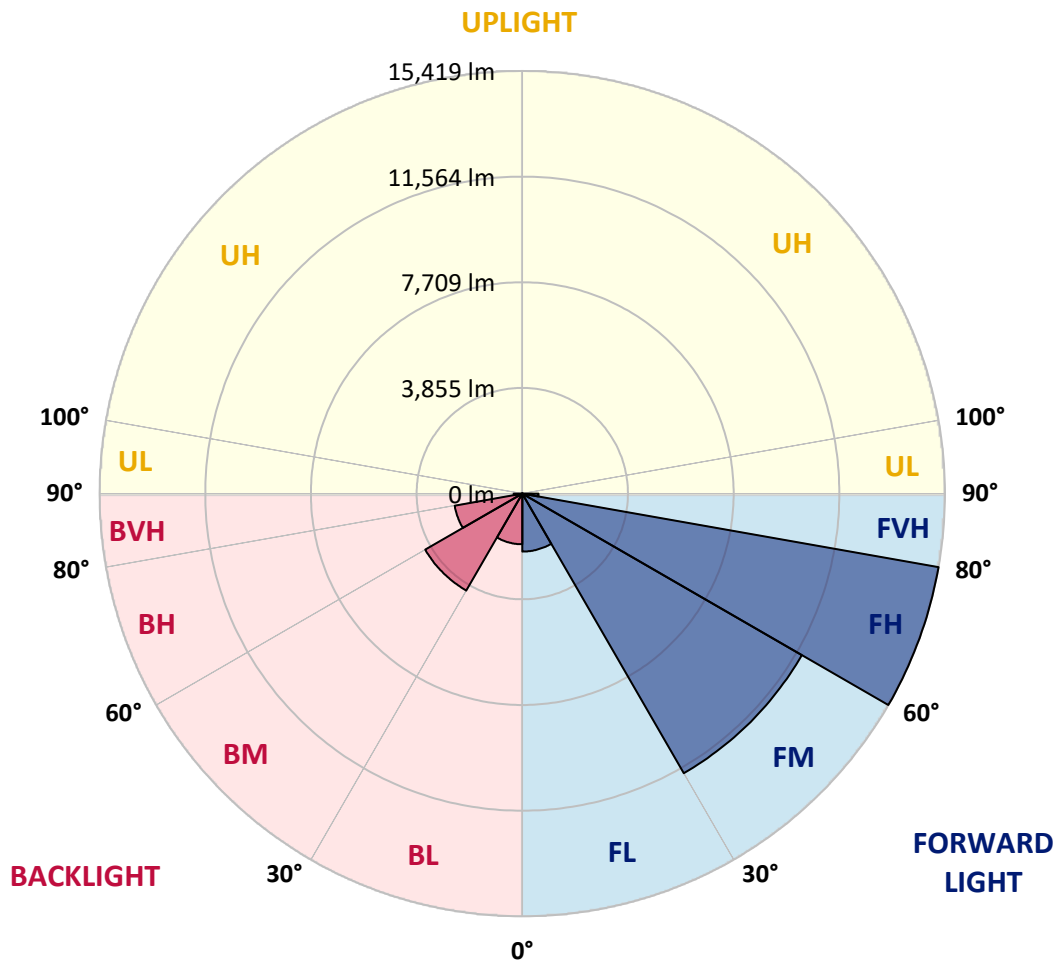
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2113.4	5.5			
FM	(30°-60°)	11775.3	30.5			
FH	(60°-80°)	15418.9	39.9			G5
FVH	(80°-90°)	589.7	1.5			G4/750
BL	(0°-30°)	1846.9	4.8	B3/2500		
BM	(30°-60°)	4085.5	10.6	B3/5000		
BH	(60°-80°)	2505.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	313.0	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°	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8
2.5°	4130.0	4115.6	4113.5	4082.5	4065.9	4034.9	4022.5	3993.5	3958.4	3923.2	3890.1
5°	4454.7	4454.7	4440.3	4396.8	4328.6	4258.3	4227.2	4171.4	4072.1	3991.5	3923.2
7.5°	4787.7	4791.8	4762.9	4698.8	4601.6	4487.8	4458.9	4376.1	4235.5	4117.6	4016.3
10°	5075.2	5075.2	5035.9	4949.0	4827.0	4702.9	4674.0	4580.9	4423.7	4276.9	4144.5
12.5°	5294.4	5294.4	5242.7	5128.9	4996.6	4884.9	4851.8	4762.9	4616.0	4452.7	4285.1
15°	5437.1	5426.7	5368.8	5240.6	5112.4	5015.2	4992.4	4918.0	4783.6	4618.1	4429.9
17.5°	5443.3	5439.2	5383.3	5275.8	5164.1	5097.9	5083.4	5033.8	4928.3	4771.2	4572.6
20°	5323.3	5331.6	5294.4	5217.9	5164.1	5135.1	5128.9	5112.4	5037.9	4891.1	4692.6
22.5°	5195.1	5209.6	5174.4	5133.1	5128.9	5157.9	5162.0	5166.2	5118.6	4975.9	4793.9
25°	5164.1	5174.4	5139.3	5102.1	5124.8	5201.3	5217.9	5234.4	5197.2	5077.2	4913.9
27.5°	5321.3	5313.0	5244.8	5164.1	5178.6	5282.0	5304.7	5323.3	5304.7	5201.3	5062.8
30°	5765.9	5739.0	5602.5	5366.8	5292.3	5364.7	5387.5	5439.2	5439.2	5362.6	5224.1
32.5°	6510.4	6458.7	6208.5	5745.2	5486.7	5443.3	5466.0	5550.8	5594.3	5534.3	5383.3
35°	7414.2	7360.4	7002.7	6380.2	5842.4	5600.5	5594.3	5689.4	5805.2	5670.8	5474.3
37.5°	8322.1	8266.3	7836.1	7137.1	6361.5	5931.4	5894.1	5927.2	5976.9	5730.8	5600.5
40°	9230.0	9163.8	8787.4	7982.9	6996.5	6369.8	6272.6	6123.7	6103.0	5927.2	5844.5
42.5°	10129.7	10069.7	9879.4	8932.2	7757.5	6797.9	6649.0	6392.6	6471.1	6365.7	6293.3
45°	11037.6	11041.7	10839.0	9997.3	8675.8	7587.9	7387.3	6986.1	7172.2	7132.9	7174.3
47.5°	11842.1	11831.7	11759.3	11031.4	9815.3	8605.4	8346.9	7881.6	8200.1	8344.9	8661.3
50°	12621.7	12615.5	12619.7	12204.0	11138.9	9815.3	9529.9	9041.8	9759.5	10262.0	10828.7
52.5°	13738.5	13773.7	13523.4	13413.8	12747.9	11244.4	10930.0	10425.4	11602.2	12394.2	13500.7
55°	14859.4	14830.5	14634.0	14747.8	14431.3	12936.1	12607.3	12206.0	13653.7	14520.3	16183.0
57.5°	15519.2	15529.5	15730.1	16286.4	16509.8	15045.6	14747.8	14437.5	15959.7	16573.9	18569.7
60°	16112.7	16160.3	16737.3	17787.9	18393.9	17636.9	17372.2	17070.3	18075.4	18319.4	20641.9
62.5°	16298.9	16445.7	17452.9	19024.6	20230.4	20561.3	20232.4	19566.5	20089.7	19994.6	22046.2
65°	15370.3	15570.9	17376.3	19487.9	21870.4	23336.7	23127.8	21891.1	21806.3	21233.4	22275.7
67.5°	12925.8	13126.4	15444.7	18515.9	22548.7	25739.8	25530.9	23586.9	22848.6	21349.2	20538.5
70°	9457.5	9583.7	11800.7	15589.5	21185.8	26546.4	26618.8	24414.2	22476.3	19775.4	16863.5
72.5°	5449.5	5728.7	7281.9	10967.2	17308.1	24507.2	25009.8	22693.5	20122.8	16497.4	11790.4
75°	2343.2	2349.4	3366.9	6049.3	11722.1	19698.8	20184.9	18811.6	15802.5	11407.8	6295.4
77.5°	1114.7	1135.4	1480.8	2701.0	6452.5	13610.3	14921.5	13289.7	10106.9	5480.5	2378.3
80°	723.8	738.3	905.8	1340.1	3164.2	7891.9	8806.1	7666.5	4458.9	1958.5	1025.8
82.5°	438.4	442.6	606.0	819.0	1741.4	3573.7	4212.8	3327.6	1902.7	1172.6	603.9
85°	266.8	268.9	368.1	506.7	1056.8	1234.7	1267.8	1257.4	1116.8	767.3	322.6
87.5°	128.2	132.4	190.3	239.9	415.7	382.6	361.9	419.8	527.4	413.6	138.6
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°	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8	3879.8
2.5°	3875.7	3869.5	3855.0	3848.8	3844.6	3846.7	3844.6	3844.6	3846.7	3846.7	3846.7
5°	3894.3	3883.9	3861.2	3861.2	3873.6	3902.5	3929.4	3950.1	3972.9	3970.8	3970.8
7.5°	3974.9	3956.3	3929.4	3937.7	3968.7	4014.2	4061.8	4107.3	4152.8	4156.9	4154.9
10°	4092.8	4074.2	4045.2	4055.6	4105.2	4173.5	4233.4	4299.6	4349.3	4363.7	4359.6
12.5°	4227.2	4190.0	4165.2	4194.1	4272.7	4363.7	4421.6	4471.3	4506.4	4527.1	4518.8
15°	4363.7	4328.6	4299.6	4359.6	4454.7	4539.5	4568.5	4576.8	4583.0	4603.6	4599.5
17.5°	4496.1	4448.5	4438.2	4516.8	4607.8	4645.0	4628.5	4593.3	4566.4	4583.0	4580.9
20°	4614.0	4576.8	4572.6	4651.2	4686.4	4651.2	4580.9	4518.8	4471.3	4475.4	4473.3
22.5°	4725.7	4696.7	4700.8	4733.9	4678.1	4558.1	4442.3	4357.5	4305.8	4316.2	4322.4
25°	4849.7	4820.8	4831.1	4777.4	4593.3	4384.4	4216.9	4144.5	4123.8	4144.5	4159.0
27.5°	5011.1	4992.4	4986.2	4779.4	4442.3	4128.0	3937.7	3910.8	3929.4	3974.9	3997.7
30°	5184.8	5184.8	5151.7	4744.3	4235.5	3819.8	3654.4	3658.5	3722.6	3786.7	3809.5
32.5°	5352.3	5387.5	5284.0	4649.1	3968.7	3519.9	3393.8	3397.9	3453.8	3532.3	3553.0
35°	5490.9	5592.2	5397.8	4475.4	3654.4	3267.6	3172.5	3116.7	3118.7	3178.7	3195.2
37.5°	5681.1	5869.3	5464.0	4216.9	3319.3	3052.5	2945.0	2847.8	2783.7	2758.9	2758.9
40°	6012.0	6289.2	5480.5	3834.3	3002.9	2847.8	2694.8	2578.9	2454.9	2343.2	2322.5
42.5°	6572.5	6922.0	5447.4	3393.8	2717.5	2622.4	2473.5	2330.8	2159.1	2001.9	1989.5
45°	7565.2	7745.1	5358.5	2936.7	2463.1	2405.2	2260.5	2105.3	1923.4	1782.7	1772.4
47.5°	9155.6	8901.2	5240.6	2531.4	2231.5	2215.0	2103.3	1923.4	1741.4	1644.2	1633.8
50°	11478.1	10721.1	5224.1	2237.7	2045.4	2053.6	1962.6	1797.2	1638.0	1557.3	1544.9
52.5°	14274.2	12919.5	5333.7	2030.9	1882.0	1913.0	1867.5	1714.5	1573.8	1505.6	1493.2
55°	16987.5	14896.7	5399.9	1869.6	1728.9	1786.9	1793.1	1664.8	1536.6	1468.4	1460.1
57.5°	19190.1	16385.7	5106.2	1722.7	1596.6	1685.5	1731.0	1635.9	1518.0	1466.3	1458.0
60°	20722.6	17088.9	4270.7	1592.5	1499.4	1604.9	1708.3	1638.0	1563.5	1569.7	1573.8
62.5°	21210.6	16776.6	3203.5	1495.3	1433.2	1578.0	1745.5	1722.7	1646.2	1693.8	1702.1
65°	20402.0	15486.1	2322.5	1418.7	1375.3	1596.6	1857.2	1784.8	1617.3	1652.4	1652.4
67.5°	17694.8	13341.4	1807.5	1348.4	1309.1	1631.7	1968.9	1778.6	1549.0	1590.4	1553.2
70°	14036.3	10319.9	1505.6	1269.8	1238.8	1580.0	1979.2	1714.5	1468.4	1476.6	1406.3
72.5°	9314.8	6785.5	1294.6	1195.4	1131.3	1420.8	1894.4	1631.7	1389.8	1342.2	1271.9
75°	4564.3	3383.4	1129.2	1102.3	990.6	1236.7	1778.6	1553.2	1305.0	1230.5	1191.2
77.5°	1768.2	1439.4	963.7	984.4	862.4	1089.9	1625.5	1441.5	1193.3	1092.0	1060.9
80°	858.3	816.9	790.0	821.0	709.4	928.6	1484.9	1344.3	1089.9	978.2	932.7
82.5°	533.6	504.6	606.0	639.0	546.0	847.9	1408.4	1261.6	959.6	810.7	773.5
85°	270.9	289.5	405.4	436.4	390.9	674.2	1160.2	947.2	692.8	574.9	579.1
87.5°	103.4	138.6	213.0	229.6	208.9	355.7	639.0	552.2	444.6	301.9	279.2
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)