

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: P522821

Luminaire Tested: **GALN-SA6D-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522821  
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-SA6D-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38392 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

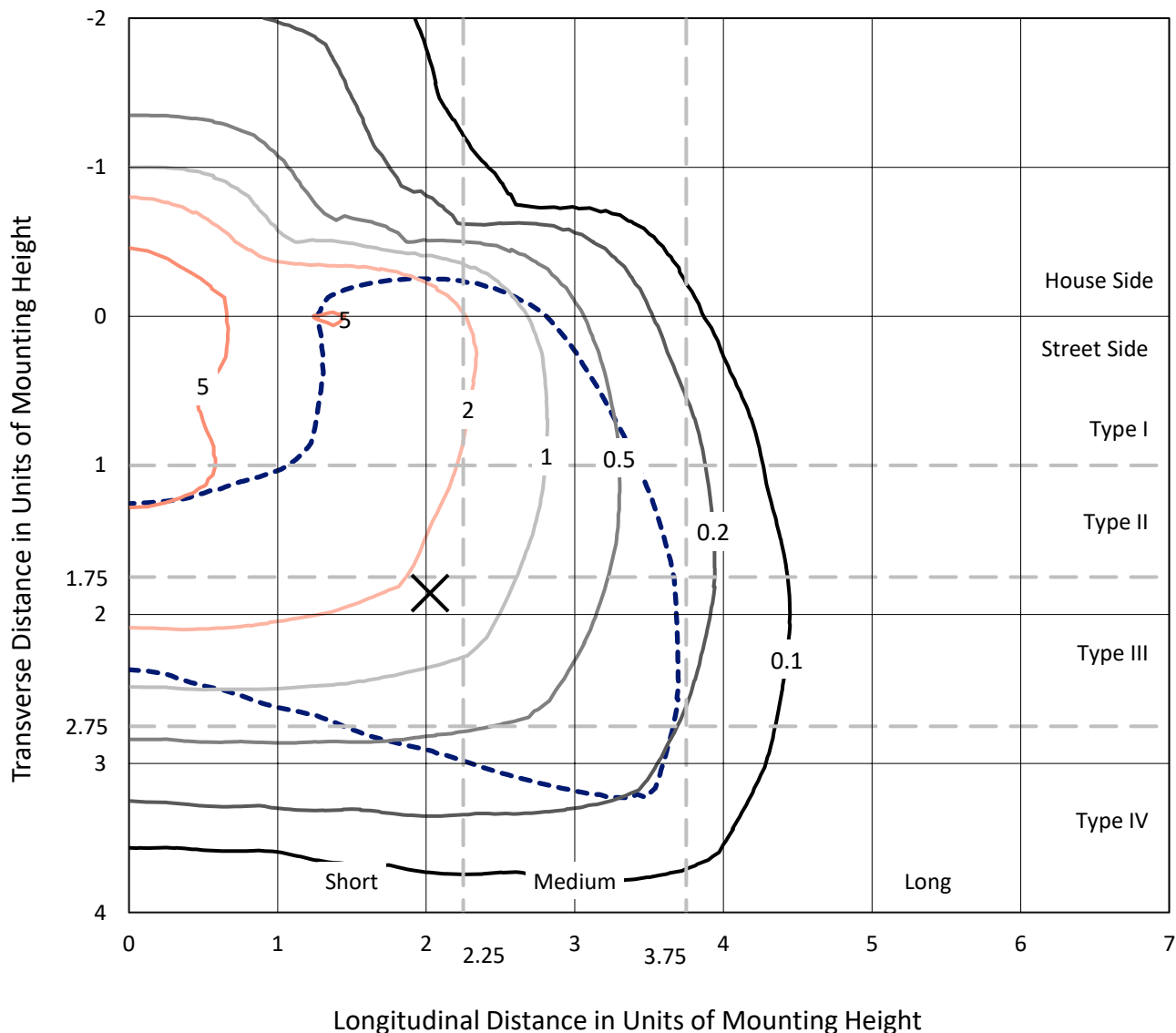
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

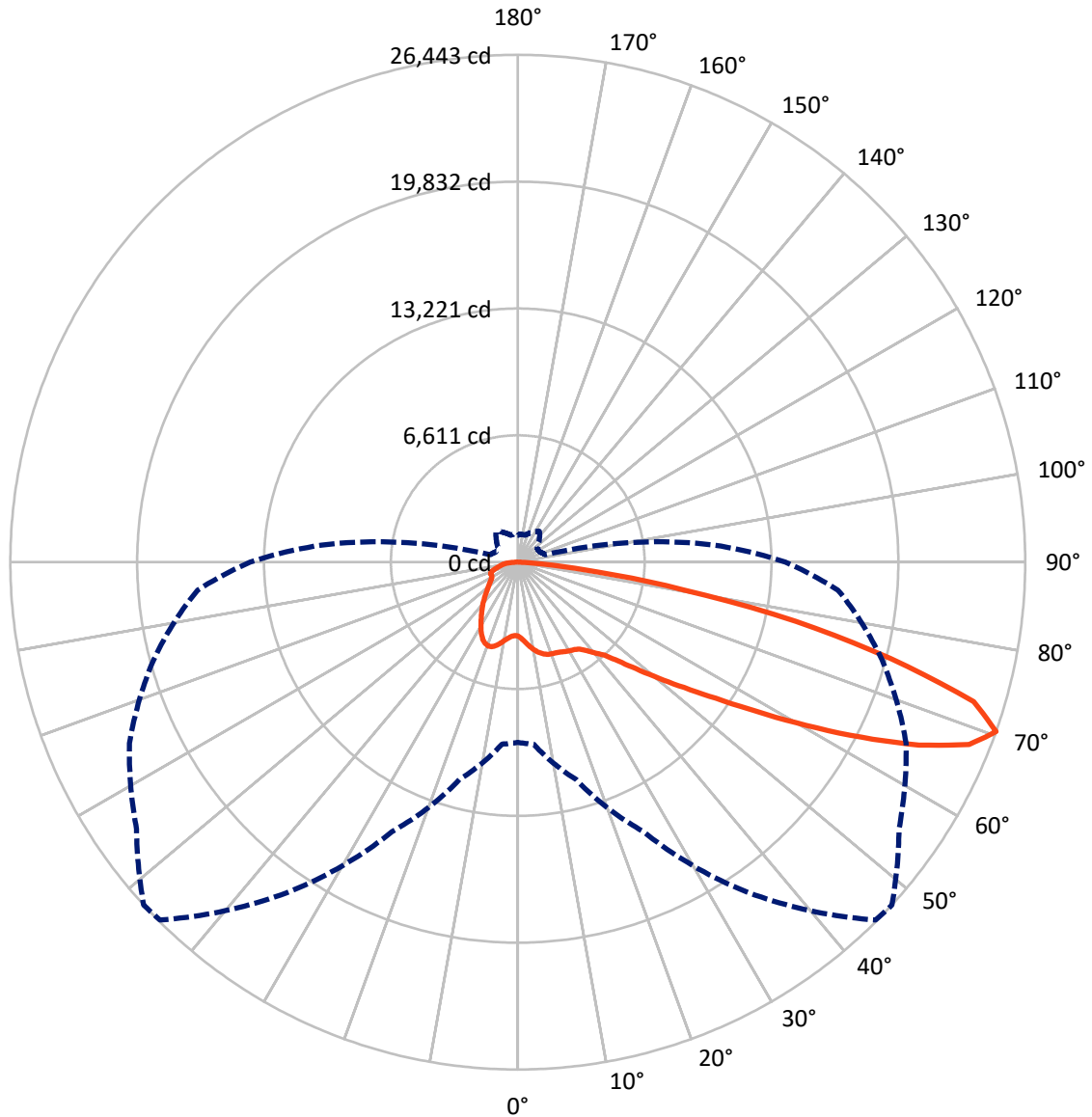
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	8692.7	0.0	8692.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29699.3	0.0	29699.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	38392.0	0.0	38392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.3	1.0
10°-20°	1328.1	3.5
20°-30°	2208.7	5.8
30°-40°	3130.4	8.2
40°-50°	4621.2	12.0
50°-60°	8004.1	20.8
60°-70°	11306.1	29.4
70°-80°	6499.3	16.9
80°-90°	896.7	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°	38392.0	100.0
0°-180°	38392.0	100.0

**Coefficient of Utilization**



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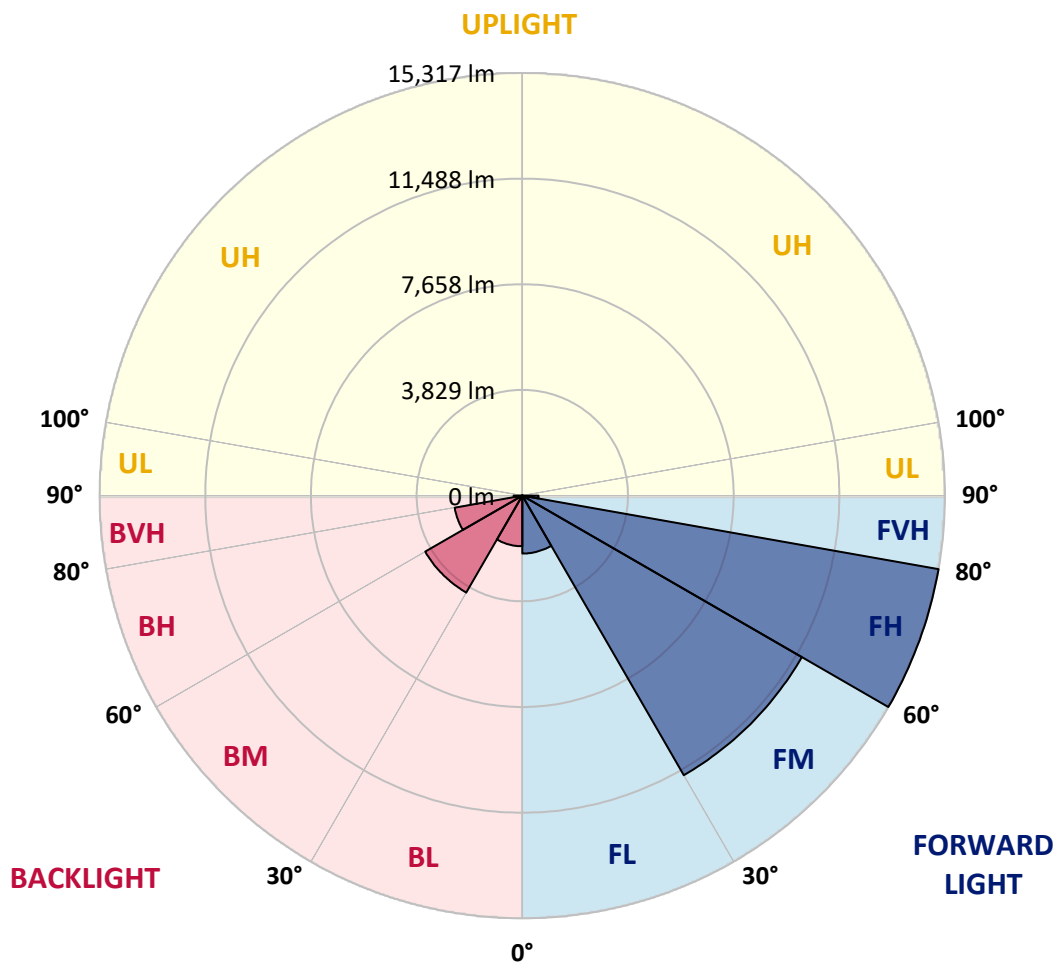
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2099.4	5.5			
FM	(30°-60°)	11697.3	30.5			
FH	(60°-80°)	15316.8	39.9			G5
FVH	(80°-90°)	585.8	1.5			G4/750
BL	(0°-30°)	1834.7	4.8	B3/2500		
BM	(30°-60°)	4058.5	10.6	B3/5000		
BH	(60°-80°)	2488.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	311.0	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°	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1
2.5°	4102.7	4088.3	4086.2	4055.4	4039.0	4008.2	3995.8	3967.1	3932.2	3897.2	3864.4
5°	4425.2	4425.2	4410.8	4367.7	4299.9	4230.1	4199.2	4143.8	4045.2	3965.0	3897.2
7.5°	4756.0	4760.1	4731.3	4667.6	4571.1	4458.1	4429.3	4347.2	4207.5	4090.4	3989.7
10°	5041.6	5041.6	5002.5	4916.2	4795.0	4671.8	4643.0	4550.5	4394.4	4248.5	4117.1
12.5°	5259.3	5259.3	5208.0	5095.0	4963.5	4852.5	4819.7	4731.3	4585.5	4423.2	4256.8
15°	5401.1	5390.8	5333.3	5205.9	5078.5	4982.0	4959.4	4885.4	4751.9	4587.5	4400.6
17.5°	5407.2	5403.1	5347.7	5240.8	5129.9	5064.1	5049.8	5000.5	4895.7	4739.6	4542.3
20°	5288.1	5296.3	5259.3	5183.3	5129.9	5101.1	5095.0	5078.5	5004.6	4858.7	4661.5
22.5°	5160.7	5175.1	5140.2	5099.1	5095.0	5123.7	5127.8	5131.9	5084.7	4942.9	4762.1
25°	5129.9	5140.2	5105.2	5068.3	5090.9	5166.9	5183.3	5199.7	5162.8	5043.6	4881.3
27.5°	5286.0	5277.8	5210.0	5129.9	5144.3	5247.0	5269.6	5288.1	5269.6	5166.9	5029.2
30°	5727.7	5701.0	5565.4	5331.2	5257.3	5329.2	5351.8	5403.1	5403.1	5327.1	5189.5
32.5°	6467.3	6416.0	6167.4	5707.2	5450.4	5407.2	5429.8	5514.1	5557.2	5497.6	5347.7
35°	7365.1	7311.7	6956.3	6337.9	5803.7	5563.4	5557.2	5651.7	5766.8	5633.2	5438.1
37.5°	8267.0	8211.5	7784.2	7089.8	6319.4	5892.1	5855.1	5888.0	5937.3	5692.8	5563.4
40°	9168.9	9103.1	8729.2	7930.1	6950.1	6327.6	6231.1	6083.1	6062.6	5888.0	5805.8
42.5°	10062.6	10003.0	9814.0	8873.0	7706.1	6752.9	6605.0	6350.2	6428.3	6323.5	6251.6
45°	10964.4	10968.6	10767.2	9931.1	8618.3	7537.7	7338.4	6939.8	7124.7	7085.7	7126.8
47.5°	11763.6	11753.3	11681.4	10958.3	9750.3	8548.4	8291.6	7829.4	8145.8	8289.6	8603.9
50°	12538.1	12532.0	12536.1	12123.1	11065.1	9750.3	9466.8	8981.9	9694.8	10194.0	10757.0
52.5°	13647.5	13682.4	13433.9	13325.0	12663.5	11169.9	10857.6	10356.3	11525.3	12312.1	13411.3
55°	14761.0	14732.3	14537.1	14650.1	14335.8	12850.4	12523.8	12125.2	13563.3	14424.1	16075.8
57.5°	15416.4	15426.7	15625.9	16178.6	16400.4	14945.9	14650.1	14341.9	15854.0	16464.1	18446.7
60°	16006.0	16053.3	16626.4	17670.1	18272.0	17520.1	17257.1	16957.2	17955.6	18198.1	20505.2
62.5°	16190.9	16336.8	17337.3	18898.6	20096.4	20425.1	20098.4	19436.9	19956.7	19862.1	21900.1
65°	15268.5	15467.7	17261.2	19358.8	21725.5	23182.1	22974.6	21746.1	21661.8	21092.7	22128.2
67.5°	12840.1	13039.4	15342.4	18393.2	22399.4	25569.3	25361.8	23430.7	22697.2	21207.8	20402.5
70°	9394.9	9520.2	11722.5	15486.2	21045.5	26370.6	26442.5	24252.4	22327.5	19644.4	16751.8
72.5°	5413.4	5690.7	7233.6	10894.6	17193.5	24344.9	24844.1	22543.2	19989.5	16388.1	11712.3
75°	2327.7	2333.8	3344.6	6009.2	11644.5	19568.4	20051.2	18687.0	15697.8	11332.2	6253.7
77.5°	1107.3	1127.9	1471.0	2683.1	6409.8	13520.1	14822.7	13201.7	10040.0	5444.2	2362.6
80°	719.0	733.4	899.8	1331.3	3143.3	7839.7	8747.7	7615.7	4429.3	1945.5	1019.0
82.5°	435.5	439.6	601.9	813.6	1729.8	3550.0	4184.9	3305.6	1890.1	1164.9	599.9
85°	265.0	267.1	365.7	503.3	1049.8	1226.5	1259.4	1249.1	1109.4	762.2	320.5
87.5°	127.4	131.5	189.0	238.3	412.9	380.1	359.5	417.0	523.9	410.9	137.6
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°	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1	3854.1
2.5°	3850.0	3843.8	3829.4	3823.3	3819.2	3821.2	3819.2	3819.2	3821.2	3821.2	3821.2
5°	3868.5	3858.2	3835.6	3835.6	3847.9	3876.7	3903.4	3923.9	3946.5	3944.5	3944.5
7.5°	3948.6	3930.1	3903.4	3911.6	3942.4	3987.6	4034.9	4080.1	4125.3	4129.4	4127.3
10°	4065.7	4047.2	4018.4	4028.7	4078.0	4145.8	4205.4	4271.1	4320.4	4334.8	4330.7
12.5°	4199.2	4162.3	4137.6	4166.4	4244.4	4334.8	4392.4	4441.7	4476.6	4497.1	4488.9
15°	4334.8	4299.9	4271.1	4330.7	4425.2	4509.5	4538.2	4546.4	4552.6	4573.1	4569.0
17.5°	4466.3	4419.1	4408.8	4486.9	4577.3	4614.2	4597.8	4562.9	4536.2	4552.6	4550.5
20°	4583.4	4546.4	4542.3	4620.4	4655.3	4620.4	4550.5	4488.9	4441.7	4445.8	4443.7
22.5°	4694.4	4665.6	4669.7	4702.6	4647.1	4527.9	4412.9	4328.7	4277.3	4287.6	4293.7
25°	4817.6	4788.9	4799.1	4745.7	4562.9	4355.4	4189.0	4117.1	4096.5	4117.1	4131.4
27.5°	4977.9	4959.4	4953.2	4747.8	4412.9	4100.6	3911.6	3884.9	3903.4	3948.6	3971.2
30°	5150.4	5150.4	5117.6	4712.8	4207.5	3794.5	3630.2	3634.3	3698.0	3761.6	3784.2
32.5°	5316.8	5351.8	5249.0	4618.3	3942.4	3496.6	3371.3	3375.4	3430.9	3509.0	3529.5
35°	5454.5	5555.2	5362.0	4445.8	3630.2	3246.0	3151.5	3096.0	3098.1	3157.6	3174.1
37.5°	5643.5	5830.4	5427.8	4189.0	3297.3	3032.3	2925.5	2828.9	2765.3	2740.6	2740.6
40°	5972.2	6247.5	5444.2	3808.9	2983.0	2828.9	2676.9	2561.9	2438.6	2327.7	2307.1
42.5°	6529.0	6876.1	5411.3	3371.3	2699.5	2605.0	2457.1	2315.3	2144.8	1988.7	1976.4
45°	7515.1	7693.8	5323.0	2917.3	2446.8	2389.3	2245.5	2091.4	1910.6	1770.9	1760.6
47.5°	9094.9	8842.2	5205.9	2514.6	2216.7	2200.3	2089.3	1910.6	1729.8	1633.3	1623.0
50°	11402.0	10650.1	5189.5	2222.9	2031.8	2040.0	1949.6	1785.3	1627.1	1547.0	1534.7
52.5°	14179.6	12834.0	5298.4	2017.4	1869.5	1900.3	1855.1	1703.1	1563.4	1495.6	1483.3
55°	16875.0	14798.0	5364.1	1857.2	1717.5	1775.0	1781.2	1653.8	1526.4	1458.6	1450.4
57.5°	19063.0	16277.2	5072.4	1711.3	1586.0	1674.4	1719.6	1625.0	1507.9	1456.6	1448.4
60°	20585.3	16975.7	4242.4	1581.9	1489.5	1594.2	1697.0	1627.1	1553.1	1559.3	1563.4
62.5°	21070.1	16665.5	3182.3	1485.3	1423.7	1567.5	1733.9	1711.3	1635.3	1682.6	1690.8
65°	20266.9	15383.5	2307.1	1409.3	1366.2	1586.0	1844.9	1773.0	1606.6	1641.5	1641.5
67.5°	17577.6	13253.1	1795.6	1339.5	1300.4	1620.9	1955.8	1766.8	1538.8	1579.9	1542.9
70°	13943.4	10251.6	1495.6	1261.4	1230.6	1569.6	1966.1	1703.1	1458.6	1466.9	1397.0
72.5°	9253.1	6740.6	1286.1	1187.5	1123.8	1411.4	1881.9	1620.9	1380.6	1333.3	1263.5
75°	4534.1	3361.0	1121.7	1095.0	984.1	1228.5	1766.8	1542.9	1296.3	1222.4	1183.3
77.5°	1756.5	1429.9	957.4	977.9	856.7	1082.7	1614.8	1431.9	1185.4	1084.7	1053.9
80°	852.6	811.5	784.8	815.6	704.7	922.4	1475.1	1335.4	1082.7	971.7	926.5
82.5°	530.0	501.3	601.9	634.8	542.4	842.3	1399.1	1253.2	953.3	805.3	768.4
85°	269.1	287.6	402.7	433.5	388.3	669.7	1152.5	940.9	688.2	571.1	575.2
87.5°	102.7	137.6	211.6	228.0	207.5	353.4	634.8	548.5	441.7	299.9	277.3
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)