

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: P522903

Luminaire Tested: **GALN-SA9A-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522903  
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-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 37784 lumens  
Efficiency: N/A  
Efficacy: 137.9 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

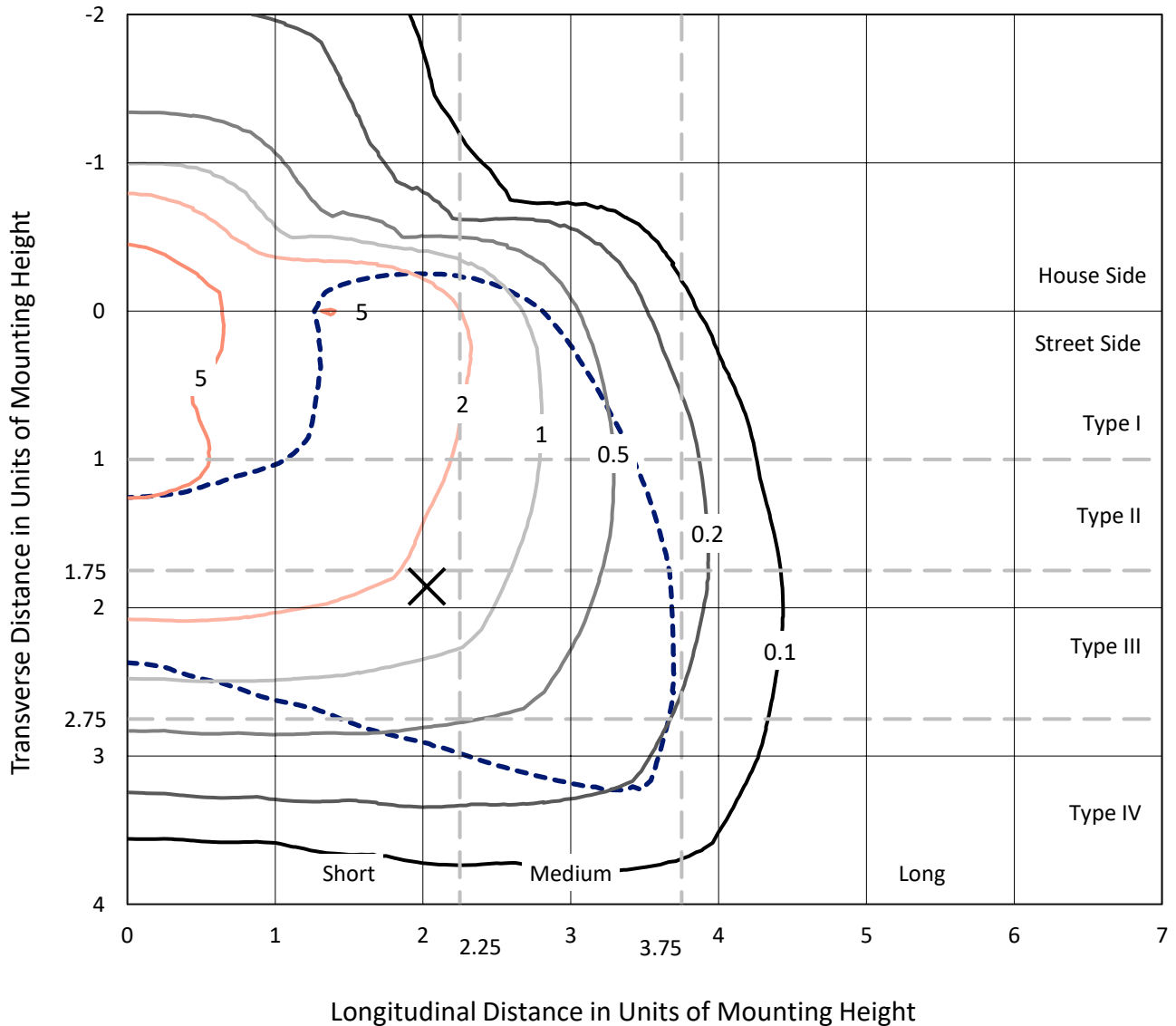
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P522903  
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### Iso-Footcandle Lines of Horizontal Illumination

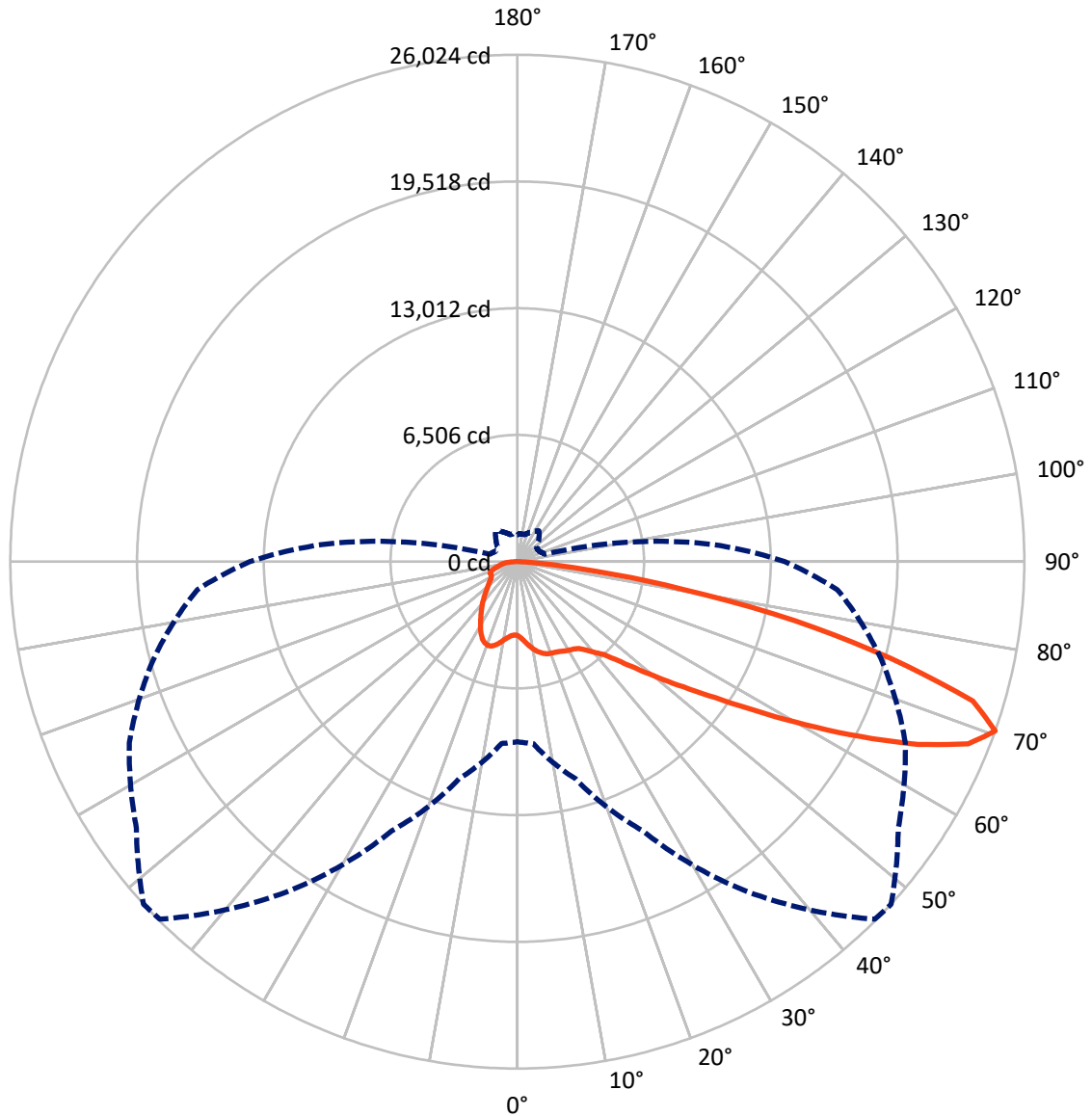
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P522903  
CATALOG NUMBER: GALN-SA9A-730-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P522903

CATALOG NUMBER: GALN-SA9A-730-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8555.0	0.0	8555.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	29229.0	0.0	29229.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	37784.0	0.0	37784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.0	1.0
10°-20°	1307.1	3.5
20°-30°	2173.7	5.8
30°-40°	3080.9	8.2
40°-50°	4548.0	12.0
50°-60°	7877.4	20.8
60°-70°	11127.0	29.4
70°-80°	6396.4	16.9
80°-90°	882.6	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°	37784.0	100.0
0°-180°	37784.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P522903

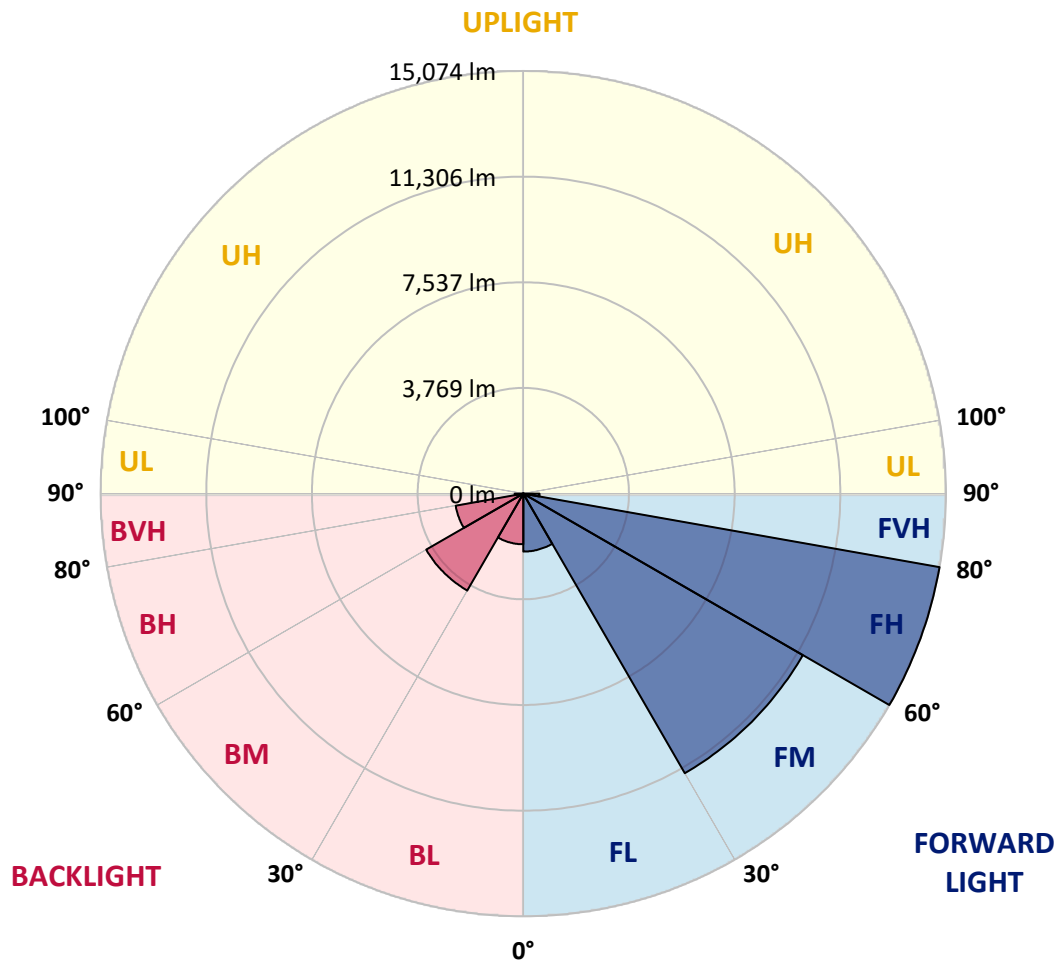
CATALOG NUMBER: GALN-SA9A-730-U-T4W

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2066.2	5.5			
FM	(30°-60°)	11512.1	30.5			
FH	(60°-80°)	15074.2	39.9			G5
FVH	(80°-90°)	576.5	1.5			G4/750
BL	(0°-30°)	1805.6	4.8	B3/2500		
BM	(30°-60°)	3994.2	10.6	B3/5000		
BH	(60°-80°)	2449.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	306.0	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





REPORT NUMBER: P522903

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1
2.5°	4037.7	4023.6	4021.5	3991.2	3975.0	3944.7	3932.6	3904.3	3869.9	3835.5	3803.2
5°	4355.1	4355.1	4341.0	4298.5	4231.8	4163.1	4132.7	4078.1	3981.1	3902.2	3835.5
7.5°	4680.7	4684.7	4656.4	4593.7	4498.7	4387.5	4359.2	4278.3	4140.8	4025.6	3926.5
10°	4961.7	4961.7	4923.3	4838.4	4719.1	4597.8	4569.5	4478.5	4324.8	4181.3	4051.9
12.5°	5176.0	5176.0	5125.5	5014.3	4884.9	4775.7	4743.3	4656.4	4512.9	4353.1	4189.3
15°	5315.5	5305.4	5248.8	5123.5	4998.1	4903.1	4880.8	4808.0	4676.6	4514.9	4330.9
17.5°	5321.6	5317.6	5263.0	5157.8	5048.7	4984.0	4969.8	4921.3	4818.2	4664.5	4470.4
20°	5204.3	5212.4	5176.0	5101.2	5048.7	5020.3	5014.3	4998.1	4925.3	4781.8	4587.7
22.5°	5079.0	5093.1	5058.8	5018.3	5014.3	5042.6	5046.6	5050.7	5004.2	4864.7	4686.7
25°	5048.7	5058.8	5024.4	4988.0	5010.2	5085.0	5101.2	5117.4	5081.0	4963.7	4804.0
27.5°	5202.3	5194.2	5127.5	5048.7	5062.8	5163.9	5186.1	5204.3	5186.1	5085.0	4949.6
30°	5637.0	5610.7	5477.3	5246.8	5174.0	5244.8	5267.0	5317.6	5317.6	5242.8	5107.3
32.5°	6364.9	6314.4	6069.7	5616.8	5364.1	5321.6	5343.8	5426.7	5469.2	5410.6	5263.0
35°	7248.5	7195.9	6846.1	6237.5	5711.8	5475.3	5469.2	5562.2	5675.4	5544.0	5351.9
37.5°	8136.1	8081.5	7660.9	6977.5	6219.3	5798.8	5762.4	5794.7	5843.3	5602.6	5475.3
40°	9023.7	8959.0	8591.0	7804.5	6840.0	6227.4	6132.4	5986.8	5966.6	5794.7	5713.9
42.5°	9903.2	9844.6	9658.6	8732.5	7584.1	6645.9	6500.4	6249.7	6326.5	6223.4	6152.6
45°	10790.8	10794.9	10596.7	9773.8	8481.8	7418.3	7222.2	6829.9	7011.9	6973.5	7013.9
47.5°	11577.3	11567.2	11496.4	10784.7	9595.9	8413.1	8160.3	7705.4	8016.8	8158.3	8467.7
50°	12339.6	12333.5	12337.6	11931.2	10889.9	9595.9	9316.9	8839.7	9541.3	10032.6	10586.6
52.5°	13431.4	13465.8	13221.1	13114.0	12462.9	10993.0	10685.7	10192.3	11342.8	12117.2	13198.9
55°	14527.3	14498.9	14306.9	14418.1	14108.7	12646.9	12325.4	11933.2	13348.5	14195.7	15821.3
57.5°	15172.2	15182.3	15378.5	15922.4	16140.7	14709.2	14418.1	14114.8	15602.9	16203.4	18154.5
60°	15752.5	15799.0	16363.1	17390.2	17982.7	17242.6	16983.8	16688.7	17671.3	17909.9	20180.4
62.5°	15934.5	16078.0	17062.7	18599.3	19778.1	20101.6	19780.1	19129.1	19640.6	19547.6	21553.3
65°	15026.7	15222.8	16987.9	19052.2	21381.4	22815.0	22610.8	21401.7	21318.8	20758.7	21777.7
67.5°	12636.8	12832.9	15099.4	18101.9	22044.6	25164.4	24960.2	23059.6	22337.8	20871.9	20079.4
70°	9246.1	9369.4	11536.9	15241.0	20712.2	25952.9	26023.7	23868.4	21973.9	19333.3	16486.5
72.5°	5327.7	5600.6	7119.1	10722.1	16921.2	23959.4	24450.7	22186.2	19673.0	16128.6	11526.8
75°	2290.8	2296.9	3291.6	5914.0	11460.1	19258.5	19733.6	18391.1	15449.2	11152.7	6154.6
77.5°	1089.8	1110.0	1447.7	2640.6	6308.3	13306.0	14587.9	12992.6	9881.0	5358.0	2325.2
80°	707.7	721.8	885.6	1310.2	3093.5	7715.5	8609.2	7495.1	4359.2	1914.7	1002.9
82.5°	428.6	432.7	592.4	800.7	1702.4	3493.8	4118.6	3253.2	1860.1	1146.4	590.4
85°	260.8	262.8	359.9	495.4	1033.2	1207.1	1239.4	1229.3	1091.8	750.1	315.4
87.5°	125.4	129.4	186.0	234.5	406.4	374.0	353.8	410.4	515.6	404.4	135.5
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°	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1
2.5°	3789.0	3782.9	3768.8	3762.7	3758.7	3760.7	3758.7	3758.7	3760.7	3760.7	3760.7
5°	3807.2	3797.1	3774.9	3774.9	3787.0	3815.3	3841.6	3861.8	3884.0	3882.0	3882.0
7.5°	3886.1	3867.9	3841.6	3849.7	3880.0	3924.5	3971.0	4015.5	4059.9	4064.0	4062.0
10°	4001.3	3983.1	3954.8	3964.9	4013.4	4080.2	4138.8	4203.5	4252.0	4266.2	4262.1
12.5°	4132.7	4096.3	4072.1	4100.4	4177.2	4266.2	4322.8	4371.3	4405.7	4425.9	4417.8
15°	4266.2	4231.8	4203.5	4262.1	4355.1	4438.0	4466.3	4474.4	4480.5	4500.7	4496.7
17.5°	4395.6	4349.1	4339.0	4415.8	4504.8	4541.2	4525.0	4490.6	4464.3	4480.5	4478.5
20°	4510.8	4474.4	4470.4	4547.2	4581.6	4547.2	4478.5	4417.8	4371.3	4375.4	4373.3
22.5°	4620.0	4591.7	4595.7	4628.1	4573.5	4456.2	4343.0	4260.1	4209.6	4219.7	4225.7
25°	4741.3	4713.0	4723.1	4670.6	4490.6	4286.4	4122.6	4051.9	4031.6	4051.9	4066.0
27.5°	4899.0	4880.8	4874.8	4672.6	4343.0	4035.7	3849.7	3823.4	3841.6	3886.1	3908.3
30°	5068.9	5068.9	5036.5	4638.2	4140.8	3734.4	3572.7	3576.7	3639.4	3702.1	3724.3
32.5°	5232.6	5267.0	5165.9	4545.2	3880.0	3441.3	3317.9	3322.0	3376.6	3453.4	3473.6
35°	5368.1	5467.2	5277.1	4375.4	3572.7	3194.6	3101.6	3047.0	3049.0	3107.6	3123.8
37.5°	5554.1	5738.1	5341.8	4122.6	3245.1	2984.3	2879.2	2784.1	2721.5	2697.2	2697.2
40°	5877.6	6148.6	5358.0	3748.6	2935.8	2784.1	2634.5	2521.3	2400.0	2290.8	2270.6
42.5°	6425.6	6767.3	5325.6	3317.9	2656.8	2563.8	2418.2	2278.7	2110.8	1957.2	1945.1
45°	7396.1	7572.0	5238.7	2871.1	2408.1	2351.5	2209.9	2058.3	1880.4	1742.9	1732.8
47.5°	8950.9	8702.2	5123.5	2474.8	2181.6	2165.4	2056.3	1880.4	1702.4	1607.4	1597.3
50°	11221.5	10481.5	5107.3	2187.7	1999.6	2007.7	1918.8	1757.0	1601.3	1522.5	1510.3
52.5°	13955.1	12630.7	5214.4	1985.5	1839.9	1870.2	1825.8	1676.1	1538.7	1471.9	1459.8
55°	16607.8	14563.6	5279.1	1827.8	1690.3	1746.9	1753.0	1627.6	1502.3	1435.5	1427.5
57.5°	18761.1	16019.4	4992.0	1684.2	1560.9	1647.8	1692.3	1599.3	1484.1	1433.5	1425.4
60°	20259.3	16706.8	4175.2	1556.9	1465.9	1569.0	1670.1	1601.3	1528.5	1534.6	1538.7
62.5°	20736.5	16401.5	3131.9	1461.8	1401.2	1542.7	1706.5	1684.2	1609.4	1655.9	1664.0
65°	19945.9	15139.9	2270.6	1387.0	1344.6	1560.9	1815.7	1744.9	1581.1	1615.5	1615.5
67.5°	17299.3	13043.2	1767.1	1318.3	1279.9	1595.3	1924.8	1738.8	1514.4	1554.8	1518.4
70°	13722.5	10089.2	1471.9	1241.4	1211.1	1544.7	1934.9	1676.1	1435.5	1443.6	1374.9
72.5°	9106.6	6633.8	1265.7	1168.7	1106.0	1389.0	1852.0	1595.3	1358.7	1312.2	1243.5
75°	4462.3	3307.8	1103.9	1077.7	968.5	1209.1	1738.8	1518.4	1275.8	1203.0	1164.6
77.5°	1728.7	1407.2	942.2	962.4	843.1	1065.5	1589.2	1409.3	1166.6	1067.6	1037.2
80°	839.1	798.6	772.4	802.7	693.5	907.8	1451.7	1314.2	1065.5	956.4	911.9
82.5°	521.6	493.3	592.4	624.8	533.8	829.0	1376.9	1233.4	938.2	792.6	756.2
85°	264.9	283.1	396.3	426.6	382.1	659.1	1134.3	926.0	677.3	562.1	566.1
87.5°	101.1	135.5	208.3	224.4	204.2	347.8	624.8	539.8	434.7	295.2	273.0
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)