

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: P522866

Luminaire Tested: **GALN-SA8A-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522866  
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-SA8A-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 30906 lumens  
Efficiency: N/A  
Efficacy: 126.7 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

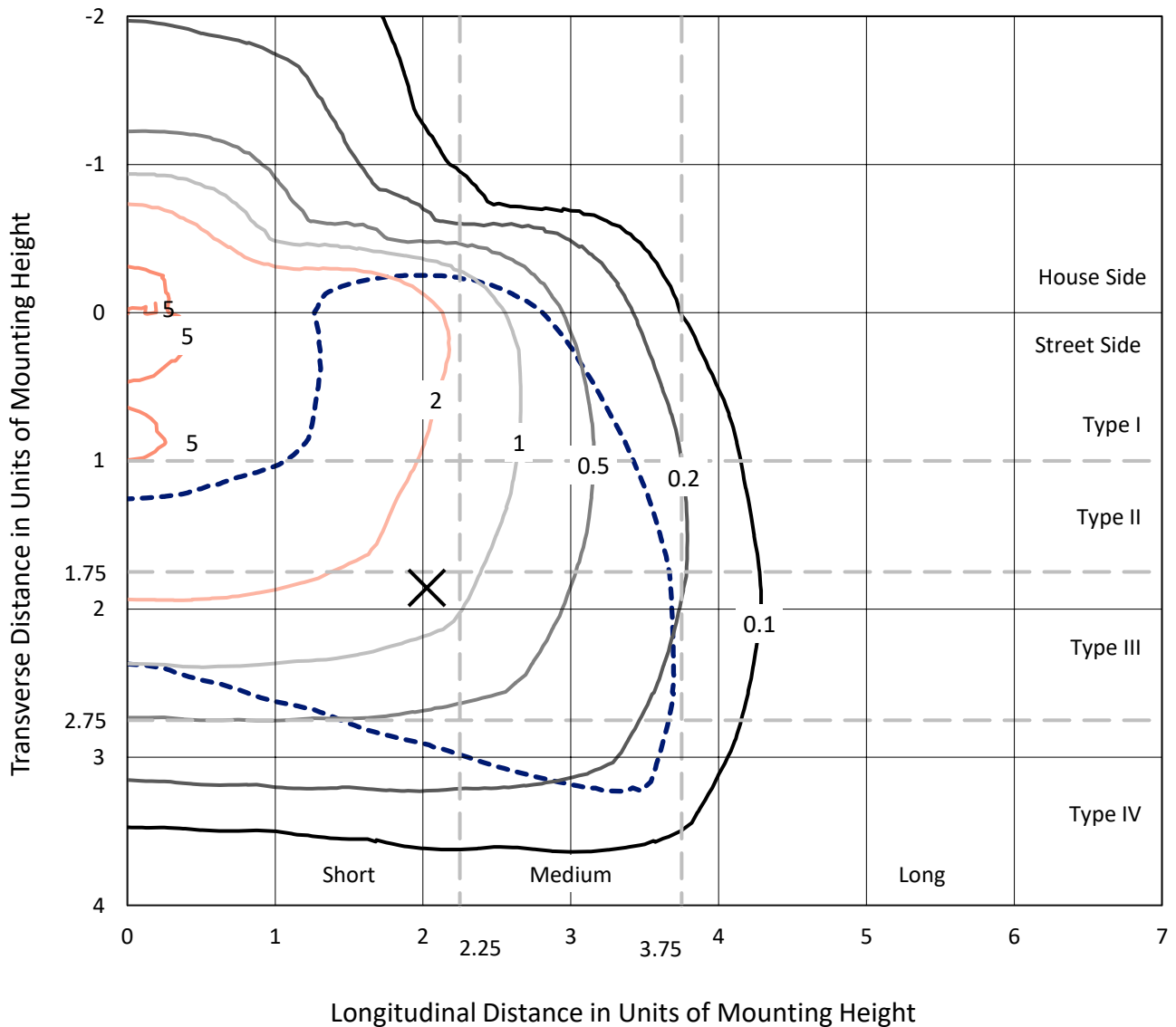
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

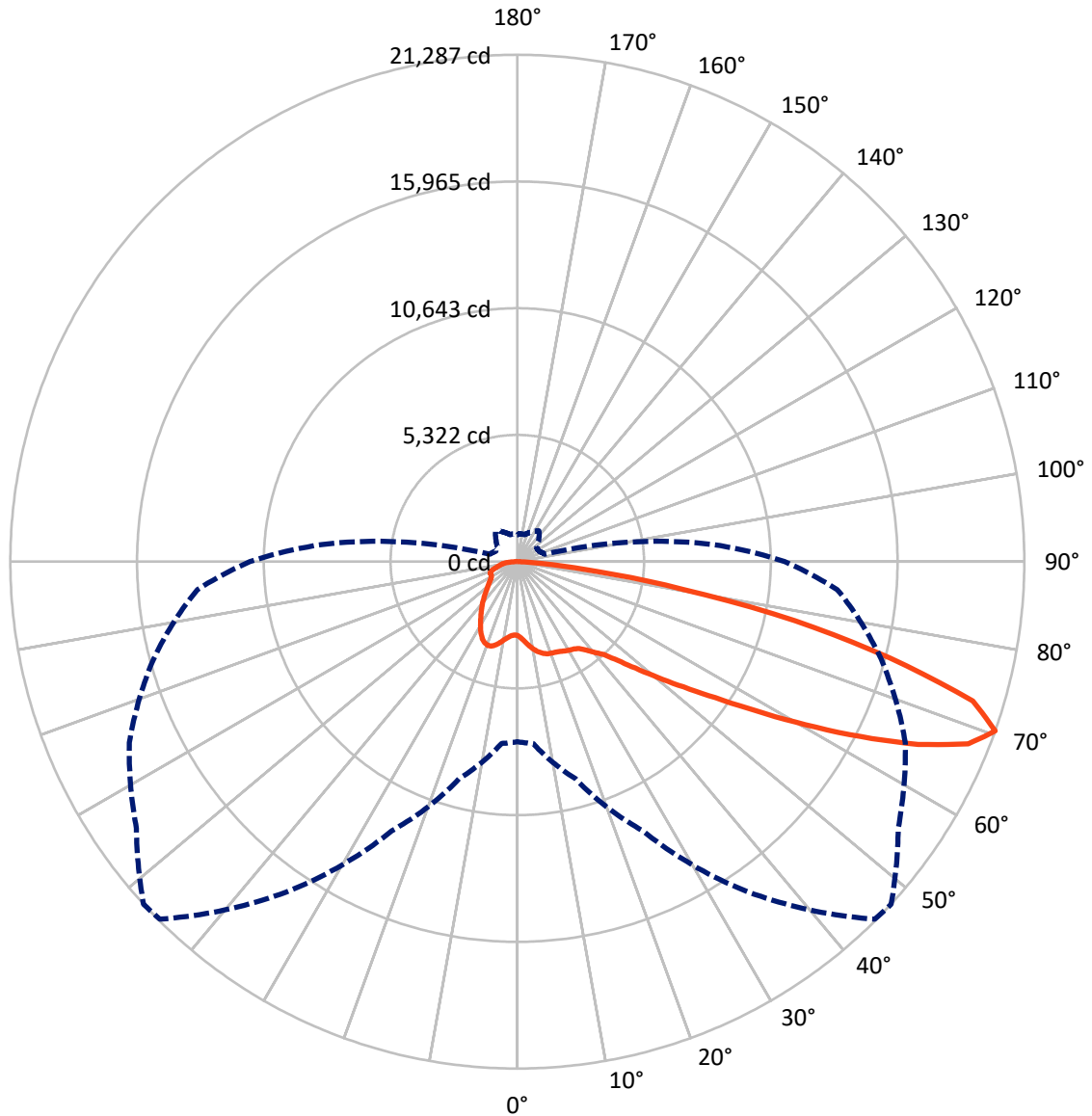
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6997.7	0.0	6997.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	23908.3	0.0	23908.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	30906.0	0.0	30906.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.8	1.0
10°-20°	1069.2	3.5
20°-30°	1778.0	5.8
30°-40°	2520.0	8.2
40°-50°	3720.1	12.0
50°-60°	6443.4	20.8
60°-70°	9101.5	29.4
70°-80°	5232.0	16.9
80°-90°	721.9	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°	30906.0	100.0
0°-180°	30906.0	100.0

**Coefficient of Utilization**



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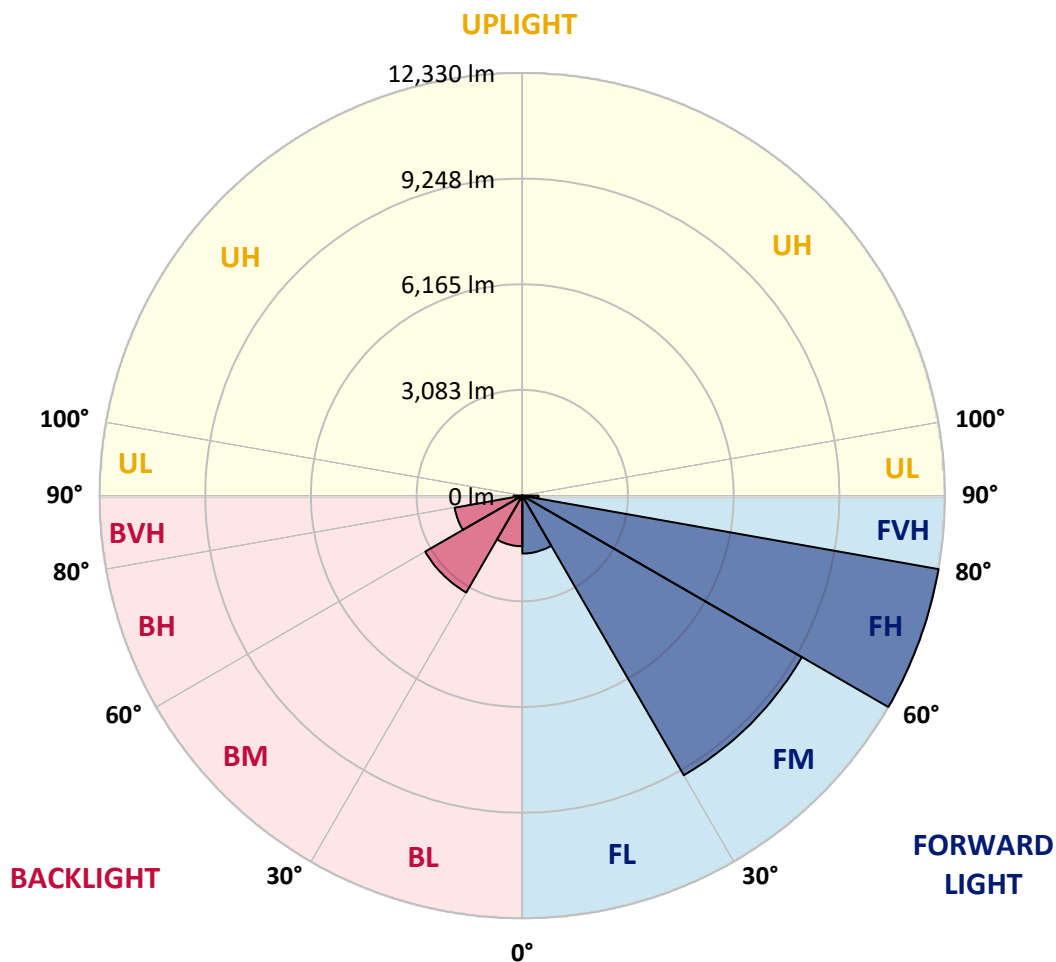
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.1	5.5			
FM	(30°-60°)	9416.5	30.5			
FH	(60°-80°)	12330.2	39.9			G5
FVH	(80°-90°)	471.6	1.5			G3/500
BL	(0°-30°)	1476.9	4.8	B3/2500		
BM	(30°-60°)	3267.1	10.6	B3/5000		
BH	(60°-80°)	2003.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	250.3	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°	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6
2.5°	3302.7	3291.1	3289.5	3264.7	3251.4	3226.6	3216.7	3193.6	3165.4	3137.3	3110.9
5°	3562.4	3562.4	3550.8	3516.0	3461.5	3405.2	3380.4	3335.8	3256.4	3191.9	3137.3
7.5°	3828.6	3831.9	3808.8	3757.5	3679.8	3588.8	3565.7	3499.5	3387.0	3292.8	3211.7
10°	4058.5	4058.5	4027.1	3957.6	3860.0	3760.8	3737.7	3663.2	3537.5	3420.1	3314.3
12.5°	4233.8	4233.8	4192.5	4101.5	3995.7	3906.4	3879.9	3808.8	3691.4	3560.7	3426.7
15°	4347.9	4339.7	4293.4	4190.8	4088.3	4010.5	3992.4	3932.8	3825.3	3693.0	3542.5
17.5°	4352.9	4349.6	4304.9	4218.9	4129.6	4076.7	4065.1	4025.4	3941.1	3815.4	3656.6
20°	4257.0	4263.6	4233.8	4172.6	4129.6	4106.5	4101.5	4088.3	4028.7	3911.3	3752.5
22.5°	4154.4	4166.0	4137.9	4104.8	4101.5	4124.7	4128.0	4131.3	4093.2	3979.1	3833.6
25°	4129.6	4137.9	4109.8	4080.0	4098.2	4159.4	4172.6	4185.9	4156.1	4060.2	3929.5
27.5°	4255.3	4248.7	4194.1	4129.6	4141.2	4223.9	4242.1	4257.0	4242.1	4159.4	4048.6
30°	4610.9	4589.4	4480.2	4291.7	4232.2	4290.0	4308.2	4349.6	4349.6	4288.4	4177.6
32.5°	5206.3	5164.9	4964.8	4594.3	4387.6	4352.9	4371.1	4438.9	4473.6	4425.7	4304.9
35°	5929.0	5886.0	5599.9	5102.1	4672.1	4478.6	4473.6	4549.7	4642.3	4534.8	4377.7
37.5°	6655.0	6610.4	6266.4	5707.4	5087.2	4743.2	4713.4	4739.9	4779.6	4582.8	4478.6
40°	7381.1	7328.1	7027.1	6383.8	5594.9	5093.8	5016.1	4897.0	4880.5	4739.9	4673.7
42.5°	8100.5	8052.5	7900.4	7142.9	6203.5	5436.1	5317.1	5112.0	5174.8	5090.5	5032.6
45°	8826.5	8829.8	8667.7	7994.6	6937.8	6067.9	5907.5	5586.6	5735.5	5704.1	5737.1
47.5°	9469.8	9461.6	9403.7	8821.5	7849.1	6881.6	6674.9	6302.8	6557.4	6673.2	6926.3
50°	10093.3	10088.4	10091.7	9759.3	8907.5	7849.1	7620.9	7230.6	7804.4	8206.3	8659.5
52.5°	10986.4	11014.5	10814.4	10726.8	10194.2	8991.9	8740.5	8337.0	9278.0	9911.4	10796.2
55°	11882.8	11859.6	11702.5	11793.5	11540.4	10344.7	10081.8	9760.9	10918.6	11611.6	12941.2
57.5°	12410.4	12418.6	12579.1	13023.9	13202.5	12031.6	11793.5	11545.4	12762.6	13253.8	14849.8
60°	12885.0	12923.1	13384.5	14224.6	14709.2	14103.9	13892.2	13650.7	14454.5	14649.7	16506.9
62.5°	13033.9	13151.3	13956.7	15213.6	16177.8	16442.4	16179.4	15646.9	16065.3	15989.3	17629.9
65°	12291.3	12451.7	13895.5	15584.1	17489.3	18661.9	18494.8	17505.8	17438.0	16979.9	17813.4
67.5°	10336.5	10496.9	12350.8	14806.8	18031.7	20583.6	20416.6	18862.0	18271.5	17072.5	16424.2
70°	7563.0	7663.9	9436.8	12466.6	16941.9	21228.6	21286.5	19523.5	17973.9	15814.0	13485.4
72.5°	4357.8	4581.1	5823.1	8770.3	13840.9	19597.9	19999.8	18147.5	16091.8	13192.6	9428.5
75°	1873.8	1878.8	2692.4	4837.5	9373.9	15752.8	16141.4	15043.3	12636.9	9122.5	5034.3
77.5°	891.4	908.0	1184.1	2159.9	5160.0	10883.9	11932.4	10627.5	8082.3	4382.7	1901.9
80°	578.8	590.4	724.4	1071.7	2530.4	6311.0	7042.0	6130.8	3565.7	1566.2	820.3
82.5°	350.6	353.9	484.6	654.9	1392.5	2857.8	3368.9	2661.0	1521.5	937.7	482.9
85°	213.3	215.0	294.4	405.2	845.1	987.3	1013.8	1005.5	893.1	613.6	258.0
87.5°	102.5	105.8	152.2	191.8	332.4	306.0	289.4	335.7	421.7	330.8	110.8
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°	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6	3102.6
2.5°	3099.3	3094.3	3082.7	3077.8	3074.5	3076.1	3074.5	3074.5	3076.1	3076.1	3076.1
5°	3114.2	3105.9	3087.7	3087.7	3097.6	3120.8	3142.3	3158.8	3177.0	3175.4	3175.4
7.5°	3178.7	3163.8	3142.3	3148.9	3173.7	3210.1	3248.1	3284.5	3320.9	3324.2	3322.6
10°	3272.9	3258.1	3234.9	3243.2	3282.9	3337.4	3385.4	3438.3	3478.0	3489.6	3486.3
12.5°	3380.4	3350.7	3330.8	3354.0	3416.8	3489.6	3535.9	3575.6	3603.7	3620.2	3613.6
15°	3489.6	3461.5	3438.3	3486.3	3562.4	3630.2	3653.3	3659.9	3664.9	3681.4	3678.1
17.5°	3595.4	3557.4	3549.1	3612.0	3684.7	3714.5	3701.3	3673.2	3651.7	3664.9	3663.2
20°	3689.7	3659.9	3656.6	3719.5	3747.6	3719.5	3663.2	3613.6	3575.6	3578.9	3577.2
22.5°	3779.0	3755.9	3759.2	3785.6	3741.0	3645.0	3552.4	3484.6	3443.3	3451.5	3456.5
25°	3878.2	3855.1	3863.4	3820.4	3673.2	3506.1	3372.2	3314.3	3297.7	3314.3	3325.9
27.5°	4007.2	3992.4	3987.4	3822.0	3552.4	3301.1	3148.9	3127.4	3142.3	3178.7	3196.9
30°	4146.2	4146.2	4119.7	3793.9	3387.0	3054.6	2922.3	2925.6	2976.9	3028.2	3046.4
32.5°	4280.1	4308.2	4225.5	3717.8	3173.7	2814.8	2713.9	2717.2	2761.9	2824.7	2841.3
35°	4390.9	4472.0	4316.5	3578.9	2922.3	2613.1	2537.0	2492.3	2494.0	2541.9	2555.2
37.5°	4543.1	4693.6	4369.4	3372.2	2654.4	2441.1	2355.1	2277.3	2226.1	2206.2	2206.2
40°	4807.7	5029.3	4382.7	3066.2	2401.4	2277.3	2154.9	2062.3	1963.1	1873.8	1857.3
42.5°	5255.9	5535.4	4356.2	2713.9	2173.1	2097.1	1978.0	1863.9	1726.6	1600.9	1591.0
45°	6049.7	6193.6	4285.1	2348.4	1969.7	1923.4	1807.6	1683.6	1538.1	1425.6	1417.3
47.5°	7321.5	7118.1	4190.8	2024.3	1784.5	1771.3	1681.9	1538.1	1392.5	1314.8	1306.5
50°	9178.8	8573.5	4177.6	1789.4	1635.6	1642.3	1569.5	1437.2	1309.8	1245.3	1235.4
52.5°	11414.8	10331.5	4265.2	1624.1	1505.0	1529.8	1493.4	1371.0	1258.6	1204.0	1194.1
55°	13584.6	11912.6	4318.2	1495.1	1382.6	1428.9	1433.9	1331.3	1228.8	1174.2	1167.6
57.5°	15345.9	13103.3	4083.3	1377.6	1276.8	1347.9	1384.3	1308.2	1213.9	1172.6	1166.0
60°	16571.4	13665.6	3415.2	1273.5	1199.0	1283.4	1366.1	1309.8	1250.3	1255.3	1258.6
62.5°	16961.7	13415.9	2561.8	1195.7	1146.1	1261.9	1395.8	1377.6	1316.5	1354.5	1361.1
65°	16315.1	12383.9	1857.3	1134.5	1099.8	1276.8	1485.1	1427.3	1293.3	1321.4	1321.4
67.5°	14150.2	10668.9	1445.4	1078.3	1046.9	1304.9	1574.4	1422.3	1238.7	1271.8	1242.0
70°	11224.6	8252.6	1204.0	1015.5	990.6	1263.5	1582.7	1371.0	1174.2	1180.8	1124.6
72.5°	7448.9	5426.2	1035.3	955.9	904.6	1136.2	1514.9	1304.9	1111.4	1073.3	1017.1
75°	3650.0	2705.7	903.0	881.5	792.2	989.0	1422.3	1242.0	1043.6	984.0	952.6
77.5°	1414.0	1151.1	770.7	787.2	689.6	871.6	1299.9	1152.7	954.3	873.2	848.4
80°	686.3	653.3	631.8	656.6	567.3	742.6	1187.5	1075.0	871.6	782.3	745.9
82.5°	426.7	403.5	484.6	511.0	436.6	678.1	1126.3	1008.8	767.4	648.3	618.5
85°	216.7	231.5	324.2	349.0	312.6	539.1	927.8	757.5	554.0	459.8	463.1
87.5°	82.7	110.8	170.3	183.6	167.0	284.5	511.0	441.6	355.6	241.5	223.3
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)